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■ MULLER CONSTRUCTION SUPPLY

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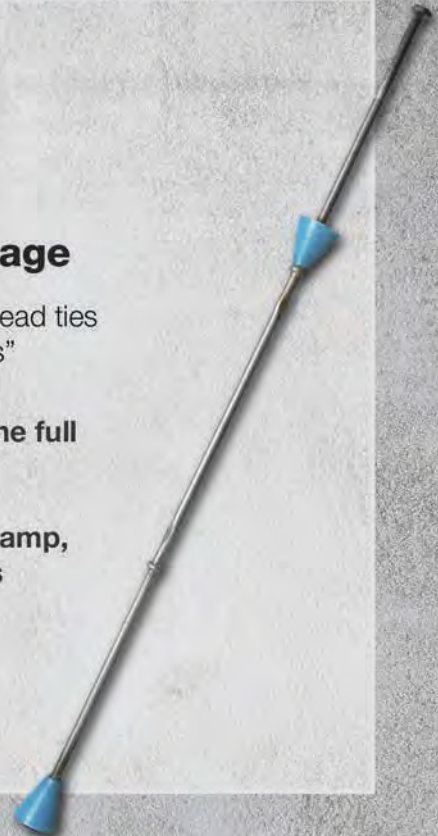


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Sansoe Snapties are designed with a washer head. Washer head ties have two distinct advantages over conventional "hot head ties"

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2. Washer heads increase the bearing area on the tie clamp, thus reducing the chance of failure due to worn clamps

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**MULLER
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You Get Solid Support with MCS

We are pleased to present the 17th edition of our catalog. We hope you will use it and find it to be a helpful tool in locating products specific to your job. If what you need is not here, pick up the phone and call 1-800-371-5225. We

will make every effort to locate the products you need.

Our experienced sales staff keeps up to date on the most recent product developments, and we can provide the technical data sheets and application information you need.

Muller Construction Supply, Inc. a 100% employee owned business,

was established in 1962 to provide quality products, accurate information, prompt delivery and straight forward business support to contractors in Northern California. In 1962, Joe Muller, our founder, set the standard for service in our industry; as employee owners, we proudly continue this tradition of Solid Support

Providing

Prompt, Reliable Delivery

Quality Products

Accurate Information

Straight Forward
Business Support

Warranties

MCS strives to make the best products available at the most competitive prices. In reviewing the products we carry, MCS considers the quality of the product, the reputation of the manufacturer, the warranty offered and the information available on field experience. However, Muller Construction Supply gives no warranty, express or implied, with any product, material or equipment. Customer's rights and remedies are limited to the manufacturer's warranty. Muller sells or rents all products, equipment or material "as is". At your request we will provide specific information regarding the manufacturer's warranty





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and MORE

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Construction Calculators

CONSTRUCTION MASTER® PRO

MODEL 4065

Advanced Construction-Math Calculator



The Construction Master Pro is an award-winning advanced feet-inch-fraction construction-math calculator with powerful built-in solutions perfect for completing layouts, plans, bids and estimates. Calculate circles, roofs stairs, and more. Works in and converts between feet-inches-fractions and decimals, including metric. Use it in the field or office to save time, reduce costs, prevent re-work and maximize profits.

Construction Calculations:

- Work in and convert between building dimensions, including Metric
- Built-in Right-Angle solutions
- Areas, Volumes, Square-ups
- Complete Stair Layouts
- Roof, Rafter and Framing solutions
- Circle: Arcs, Circumference, Segments
- Drywall - Siding and Panels
- Stairs - Riser Height and solve for Stairwell Opening
- Studs On-center
- Compound Miter Cuts
- Arched Rake-Walls



Scale Master Classic (#6020)



The Calculated Industries Scale Master Classic Professional Digital Plan Measure is an ideal way to measure area and volume take-offs from blueprints, drawings and maps. Featuring 72 built-in scales and 2 built-in memories, the plan measure is useful for building, engineering and landscaping.

- 39 imperial scales and 33 metric scales
- 6 separate custom scales
- Lock switch holds mode and scale settings for accuracy
- Built-in counter totals studs, piers, outlets and fixtures for design estimates
- Subtract key makes it easy to deduct rolled distances and adjust totals
- 2 memories for solving area and volume and storing estimates
- Digital input makes it easy to accumulate dimensions
- Large LCD is easy to read

Scale Master II (#6130)



The Calculated Industries Scale Master II is an advanced digital plan measurer designed to help quickly decipher plans and take-offs. You can select from 91 built-in scales, including customized scales created from out-of-scale images. There are many functions such as measuring and scanning between U.S. and metric units, solving for linear, area, and volume take-offs, and counting items as it wheels. There is also an option to add PC interface for transferring information to spreadsheets or other estimating programs. This versatile tool is perfect for architects, contractors, landscapers, excavators, pipeline builders, telecommunications, and any professional that depends on accurately scaled blueprints and plans.

Product Highlights

- Converts between scales and dimensions
- Linear, rectangular area, and volume take-offs
- Bi-directional reading and PC interface capable
- 91 built-in scales – metric and imperial
- Accumulated memory, 8 custom scale settings
- Dimensional units, square and cubic format
- Count, auto-count, and constant features
- Auto shut-off

CONCRETECALC™ PRO

MODEL 4225

Advanced Yard, Feet-Inch-Fraction Concrete Construction-Math Calculator



The easy-to-use ConcreteCalc Pro helps reduce material waste, improve design accuracy and cut estimating time. Increase efficiency in the field or in the office with fast, accurate solutions for Square-ups, Loads, Area, Volume, Rebar, Drop, Stairs and much more.

It helps you:

- Work in Yards, Feet-Inch-Fractions
- Calculate Area, Volume and Weight per Volume
- Automatic Square-ups and Drops
- Rebar solutions for total Linear Feet and Weight per size
- Complete Stair Layouts; set Riser Height and Tread Width
- Equal Sided Polygons
- Circular Solutions: Circumference, Arc, Cone, Column and More!

Spectra Precision Laser LL300N

Medium-range, highly accurate leveling solution



Features & Benefits

- Increases productivity with fast setups, fewer mechanical parts, and automatic self-leveling
- Maintains performance even in rainy, dusty and other harsh job site and weather conditions - IP66 environmental rating
- Durable design reduces downtime due to drops and tripod tipovers
- Minimizes power costs, increases reliability with choice of rechargeable or alkaline batteries
- Increases flexibility with remote control slope option
- Comes standard with HL450 digital readout receiver and other configurations are available
- Kits available with system case which contain laser, receiver, tripod and grade rod

Spectra Precision Optical LL300S

Medium-range, highly accurate leveling solution



Features & Benefits

- Increases productivity with fast setups, fewer mechanical parts, and automatic self-leveling
- Maintains performance even in rainy, dusty and other harsh job site and weather conditions - IP66 environmental rating
- Durable design reduces downtime due to drops and tripod tipovers
- Minimizes power costs, increases reliability with choice of rechargeable or alkaline batteries
- Increases flexibility with optional long range radio remote control
- Comes with choice of HL450 or HL760 receivers so you can choose the best option to suit your application
- Kits available with system case which contain laser, receiver, tripod and grade rod

Spectra Precision Laser LL500

Designed for longer range measurements



Features & Benefits

- High accuracy with temperature compensation provides highly stable, repeatable accuracy even under large temperature changes
- Alkaline or rechargeable batteries keep the unit working and minimize downtime due to power loss
- Self-leveling with built-in shut off for increased accuracy over the entire work area and reduced errors
- Comes with choice of HL700 or CR600 receivers so you can choose the best option to suit your application

Spectra Precision Laser AL24M

Designed for a variety of elevation



Features & Benefits

- Choice of magnification: 24x, 28x or 32x
- Choice of magnetic or air dampened automatic compensators
- Double-sided, continuous horizontal tangent drives
- Stadia lines for simple distance measurement
- Convenient horizontal angle measurement
- Built in bubble mirror and optical sighting alignment
- Metal housing for increased durability
- Water resistant construction

PLS 180 TOOL

Laser line tool, self-leveling for plumb, level, and square. Includes magnetic wall bracket, pouch, operating manual, and carrying case.



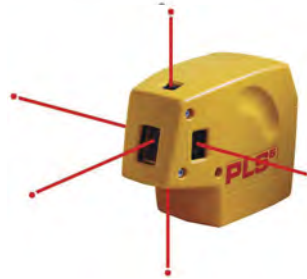
PLS 4 TOOL

This hybrid combination of horizontal-vertical lines and plumb points will speed layout and installation for commercial electricians, HVAC-mechanical, staging and glazing contractors.



PLS 5 TOOL

Point-to-point, self-leveling plumb, level and square laser alignment tool. Includes floor stand, magnetic wall bracket, pendulum layout target, carrying case, and operating manual.



PLS 3 TOOL

Point-to-point self-leveling plumb and level laser tool. Includes wall bracket, floor base, pouch, and operating manual.



PLS 3 TOOL Green Beam

The PLS 3 is the "go to" point to point laser for the commercial electrician, HVAC, drywall and staging contractor. Now increase the visibility and potential distance by 300% with our green beam PLS 3.



PLS 480 TOOL

The new PLS 480 provides commercial grade accuracy and performance for layout of square and level for exterior and interior alignment tasks. The PLS 480 will be packaged with accessories for both interior and exterior applications. The PLS 480 is designed, assembled and distributed from Pacific Laser Systems facility in San Rafael, California.



Designed for the commercial multi-story contractor and the residential-remodeling professional, the PLS 480 is ideal for layout of foundations, wall, cabinets, square on slope and horizontal benchmarks. This versatile laser tool is fully self leveling, has a working range of 200 feet, an accuracy of +/- 1/8 inch at 60 feet and carries a three year warranty.

LEVEL LASER LAR200 KIT

SKU: 05500TR



The Stabila 05510 LAR200 Self Leveling Off Road Exterior Laser Level Kit was designed with the abuses of the jobsite in mind. The Stabila LAR200 has a rubber exterior, metal housing and a shock absorbing interior to let you know it means business. Being a self leveling laser, the Stabila LAR200 will level itself as long as it is within 5 degrees of level. The Stabila LAR200 has a range of 1,800 -feet and is accurate +/-1/8-inch at 100-feet.

Features:

- Dust and water-proof with an IP65 rating
- Temperature resistant from 14F to 140F
- Works with rechargeable batteries
- High alert shut down function
- Fully automatic self leveling
- One button operation



LASER CROSS LINE

SKU: GLL280



The New Bosch GLL 2-45 Self-leveling Long-range Cross-line Laser features Vertical, Horizontal and Cross Line Modes. It projects two lines independently or together for a wide array of level and/or alignment applications. The same quality, durability and innovation found in Bosch power tools are now offered in a complete line of measuring tools. With Bosch laser technology, users are able to be more productive and thus more profitable on the job-site.

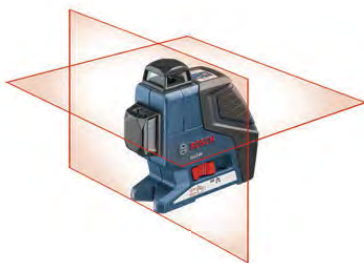
Features:

- Highly visible laser lines wide 130-degree horizontal and 160-degree vertical fan angles
- Pulse" laser receiver mode for use with optional LR2 laser receiver at long distances and/or in bright lighting
- Includes BM3 positioning device with retractable feet, strong magnets and ceiling grid clamp



LASER DUAL PLANE LINE W/PULSE

SKU: GLL280



Features:

- One 360° horizontal plane and one 360° vertical plane; with manual mode for all job site conditions
- Smart pendulum system — self-levels and indicates out-of-level condition; locks when switched off
- Pulse laser receiver mode — for use with LR2 laser receiver at up to 265 ft. in bright-light conditions
- Manual mode — locks lines for use at any angle

More Features:

- Simple to use single button operation with little training requirements
- 90° horizontal and vertical bright red laser layout lines and electronic self-leveling
- 90° horizontal and vertical bright red laser layout lines and electronic self-leveling
- Smart Pendulum Leveling System - Self-levels and indicates out-of level condition. Secure transport lock protects pendulum when unit is switched off



LASER PLANE LEVELING/ALIGNMENT

SKU: GLL350



The Bosch GLL3-80 3 Plane Leveling/Alignment Laser provides three precise 360 degree full plane coverage in both horizontal and vertical operations. No rotation or motors to wear out or waste battery power. 90 degree horizontal and vertical bright red laser layout lines and electronic self-leveling. Free standing base with magnets to attach to metal track.

Features:

- Both 1/4-in-20 and 5/8-in-11 tripod mounting
- Simple to use single button operation with little training requirements
- Pulse laser receiver mode for use with optional LR2 laser receive at long distances and/or in bright light conditions



Laser Rangefinder

LASER RANGEFINDER 265'

SKU: GLM 80



Bosch's GLM 80 laser distance and angle measurer is the advanced technological answer to making simple yet accurate measurements. With several measurement modes and features that make it both compact and user friendly, the GLM 80 makes it easier than ever for tradesmen such as electricians, contractors, painters, masons, and builders to calculate distance, area, volume, or angles quickly and with precision. Includes 265 ft. Lithium-Ion Laser Distance Meter - GLM80, Micro USB Charger, Carrying Case, Pocket Guide (Quickstart Manual).

Features:

- Two-axis 90-degree tilt sensor enables indirect measurements with one click of a button
- Lithium-ion battery allows up to 25,000 measurements per charge
- Illuminated flip display is easy to read in all directions and/or in dark conditions
- Optional R 60 digital level attachment transforms the GLM 80 into a 24 in. digital level

BOSCH

LASER RANGEFINDER 265' COMBO

SKU: GLM 80 + R 60



Bosch GLM 80 laser distance and angle measurer combined with the R 60 level is the most advanced technological answer to making simple yet accurate measurements. With its convenient load, lock, and level system, the R 60 quickly and securely holds the GLM 80 to automatically create a digital level perfect for contractors, carpenters, electricians, plumbers, and other tradesmen. Includes 265 ft. Lithium-Ion Laser Distance Meter - GLM80, 24 in. Measuring Rail - R60, Micro USB Charger, Carrying Case, Pocket Guide (Quickstart Manual).

Features:

- Two-axis 90-degree tilt sensor - enables indirect measurements with one click of a button when unit is handled either vertically or horizontally
- Lithium ion battery - allows up to 25,000 measurements per charge
- Illuminated flip display - easy to read display in all directions and/or in dark conditions

BOSCH

LASER RANGEFINDER 230'

SKU: GLR225



Features:

- Measures distance up to 225 ft. with up to 1/16 In. accuracy
- Seven measurement modes for maximum versatility – length, area, volume, continuous minimum, continuous maximum, indirect length and multi-surface area measurements
- Four measuring reference points – back, front, swing-out extension pin for measuring from inside corners or channels, or center for use with optional tripod

More Features:

- Built-in bubble vial - provides visual reference when measuring horizontal distances
- Four measurement systems - inches, feet and inches, decimal feet and metric
- Length, area and volume measuring capability
- Precision laser measuring technology - laser beam does both pointing and measuring

BOSCH

LASER RANGEFINDER 825' W/VIEWFIN

SKU: GLR825



Features:

- Multi-surface area mode calculates total area of several individual surfaces with common length or height
- Built-in memory storage stores up to 30 measurement modes and results
- Four measuring reference points: back, front, swing-out extension pin, center of optional

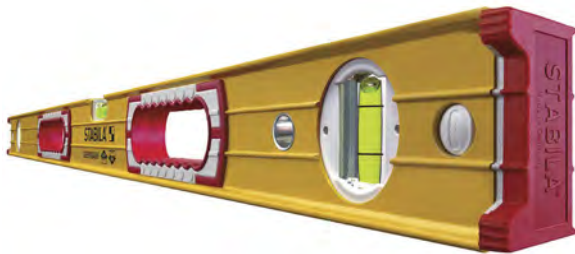
More Features:

- Incredibly accurate at +/- 0.04 (1.0 mm)
- Wide range--from 2 up to 500 feet

BOSCH



Type 196



SKU	DESCRIPTION
29824	48", 24" Torpedo
37424	24", 196 Series
37472	72" 196 Series
37496	96" 196 Series
37532	78" & 32" Jamber Set
37816	48" 16" 196 Series
937917	14" w/Case

Features:

- Unique vial design: bright, easy to read
- Level accuracy guaranteed for life; vials will not fog, leak or require adjustment
- Dual material hand holes for comfort & grip
- Shock-absorbing end caps: prevents slipping, removable to carry lines into tight corners
- Electrostatic enamel finish: baked on tough, cleans up with water and brush

Type 80A-2



Features:

- 3 piece set: 4ft, 2ft and Torpedo
- Stabila's general construction level. Perfect for tile installers and all jobsite applications
- Rugged, takes rough handling
- Certified accuracy in normal reading conditions: 1/32" over 72"
- Level accuracy guaranteed for life; vials will not fog, leak or require adjustment

STABILA®



...sets standards

R Beam Levels



Types:

-R Beam 300: 24" , 48" , 72" , 96"

Features:

- Top read view
- Can be used to screed concrete
- Strength: 120% stronger than the Type 196 series
- Stability
- Precision: Features 3 straight edges
- Grip: Features a continuous handle
- Finish: Fender Smooth

Tech Levels



Types:

- 196-2: 14" , 24" , 48"
- 96M-2 Magnetic: 24" , 48"

Features:

- Modes: degree, percent; inches in decimal, fractions, and mm/m
- 2 displays that light up
- Dustproof and waterproof. Classification: IP65
- Simple water and brush clean up
- Correct read upside down
- Shock absorbing end caps: prevents slipping, removable to carry lines into tight corners



Type LAR200



Features:

- Durable: Takes a 6' drop
- Range: 1,800 ft / 550m
- Accuracy: 1/8" over 100'
- One button operation
- Self leveling working range +/- 5 degrees
- Dustproof and waterproof. Classification: IP65
- Battery Life: Up to 120 hours

LAX400: ProLiner, Multi-Line Laser



Features:

- Very bright, very crisp laser lines and dot
- 360° horizontal line
- Two vertical lines fixed at a 90° angle
- Plumb down dot/point
- Manual alignment, ne adjustment knob pivots the right angle left/right
- Includes: Target Plate, Wall Bracket, Laser Glasses
- Pulsed laser lines for use with optional receiver



Continental Western Corporation

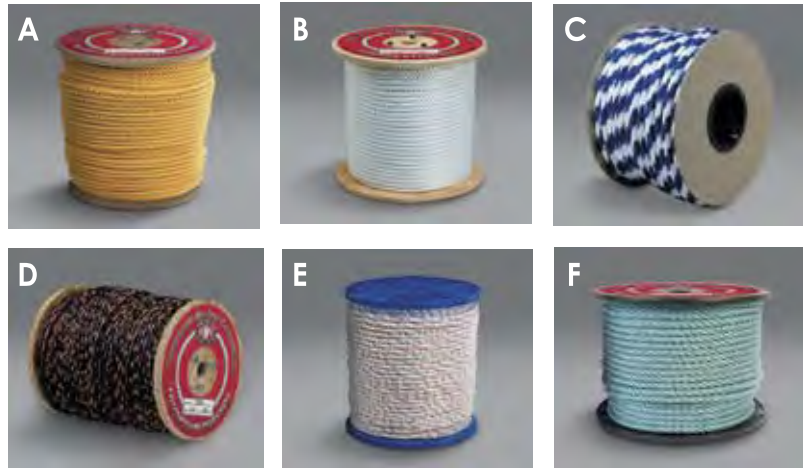
Over 75 Years of Quality Products

Rope

3 Strand Synthetic Ropes

- A. Yellow Polypro Rope
- B. White Nylon Rope
- C. Multifilament Halter Ropes (many colors available)
- D. Black/Orange Polypro California Truck Rope
- E. White/Orange POLY/DAC™ California Truck Rope
- F. Blue/Orange BLUE STEEL™ California Truck Rope

* Above ropes are available in sizes 3/16" through 1" diameter on 600' reels.



Steel Strapping



High Tensile Steel Strapping

Item No.	Width Thickness	Ft/ Lbs	Nominal Break	Approx. Wt/Coil	Coils/ Pallet	Coil Winding	Strap Finish
177006	1/2 x .020	29.42	1485 lbs	100 lbs	14	OS	P/W
177019	5/8 x .020	23.53	1855 lbs	100 lbs	14	OS	P/W
177024	5/8 x .020	23.53	1855 lbs	100 lbs	14	OS	Z
177023	5/8 x .023	20.46	2130 lbs	100 lbs	14	OS	P/W
177110	3/4 x .020	19.61	2380 lbs	100 lbs	14	OS	P/W
177113	3/4 x .020	19.61	2380 lbs	100 lbs	14	OS	Z
177014	3/4 x .025	15.69	2675 lbs	100 lbs	14	OS,RW	P/W
177010	3/4 x .029	13.30	3305 lbs	100 lbs	14	OS,RW	P/W
177015	3/4 x .031	12.65	3305 lbs	100 lbs	14	OS,RW	P/W
177030	1 1/4 x .029	8.11	5450 lbs	100 lbs	22	RW	P/W
177031	1 1/4 x .029	8.11	5450 lbs	100 lbs	22	RW	Z
177032	1 1/4 x .031	7.59	5510 lbs	100 lbs	22	RW	P/W
177029	1 1/4 x .031	7.59	5510 lbs	100 lbs	22	RW	Z
177033	1 1/4 x .044	5.35	9280 lbs	100 lbs	22	RW	P/W

Strapping Accessories

- Heavy Duty Steel Strap Tensioner
- Heavy Duty Feedwheel Pusher Tensioner
- Steel Strap Seals
- Steel Strap Shears
- Sealer Crimper
- Heavy Duty Steel and Poly Strap Dispenser

Stretch Wrap



Colors: White, Yellow, Fluor-Pink, Fluor-Orange, Fluor-Yellow
Ply: #9, #15, #18



70, 80 and 90 gauge
12", 15" & 18" width

Stringline - Chalk

Mason Twine



SKU	DESCRIPTION
135059	1/4 LB GREEN, 250 ft.
135032	1/4 LB PINK, 250 ft.
135126	1 LB WHITE, 1000 ft.
135127	1 LB PINK, 1000 ft.
135141	1 LB YELLOW, 1000 ft.
135031	1/4 LB WHITE, 250 ft.
135061	1/4 LB YELLOW, 250 ft.

Braided Line



SPECS	
SKU	18500
LENGTH	500 ft.
COLOR	Yellow
CONSTRUCTION	Braided Nylon
WEIGHT	0.800000
TYPE	Braided

Mason Twine



Line Reel made of durable polyethylene with rewind hand crank or auto wind with power screwdriver. Reload rolls of line easily, adjust to different lengths of cores; fits all line with 1" cores from 4" to 6" long and line secures in convenient notch. Quality #18 Twisted or Braided nylon line.

SKU	DESCRIPTION
25462	Pink, 500 ft.
25412	Yellow, 500 ft.

REPLACEMENT LINE



SKU	DESCRIPTION
2031333	100'
64610	100' CHALK/REEL

Mason Line With Stake



SPECS	
SKU	82926W
LENGTH	18X1050, WHITE

Chalk



SKU	DESCRIPTION
108Y	8 OZ. YELLOW
108W	8 OZ. WHITE
105W	5 LB WHITE
G130	BOX GIANT #130

Chalk



SKU	DESCRIPTION
65105	5LB FLSCNT ORNG
65101	5 LB BLUE
64908	8oz JET BLACK
64905	8oz FLO ORANGE
64902	8 OZ. RED
64901	8 OZ. BLUE
65102	5 LB RED

Marking Chalk



SKU	Description
2032160	Jet Black 5LB

Dust Off Chalk



SKU	Description
4935426	6oz. Light Violet
4935520	6oz. Midnight Black

Black Marker



SKU	Description
48223100	Black Fine Point

Chalk



SKU	Description
CR201SPD	RITE II CHALK BOX
PLC2R900	Micro Red 32oz
PLC2B900	Micro Blue 32oz
PLCR300	Micro Red 10.5oz
PLCB300	Micro Blue 10.5oz

Quikrete Marking Line



Will not harm soil or grass
Bright White Color

SKU	Description
112550	50 LB Bag

Paint Marking Pistol



Spray paint exactly where you want it

SKU	Description
1238	Pistol grip and trigger

Paint Marking Roller



5-digit, easy-read, magnified counter that measures 9,999 feet, 11 inches without resetting. That's almost two miles.

SKU	Description
1239	Pistol grip & trigger



Sherwin Williams Krylon, our best selling marking paint.

Krylon® Industrial Quick Mark™

Quik-Mark™ Marking paints put down a line you can trust for all types of marking – from temporary to long term marks - in any condition. Use the cans in either the 12" hand-held or 34" marking wands to assist in ease of application.

Features

- VOC and MIR compliant
- Free of lead hazards
- Convenient Spray Thru™ Cap
- High delivery valve for adverse conditions

SKU	Description
S03630	Green Marking 17oz.
S03901	White Marking 17oz.
S03801	Yellow Marking 17oz.
740000500	Cold Galv 17oz.
S03610	Safety Red Marking 17oz.
S03500	Clear Marking 17oz.
S03612	Pink FLR Marking 17oz.
S03700	Orange FLR Marking 17oz.
S03620	Blue Marking 17oz.

Markers - Pens

Marker Paintstik White

SKU: 80220



Mark & Code



Yellow Dykem® Brite-Mark® Markers - A general purpose marker that writes on almost any surface and features a medium tip for clear, bold markings. Its quick drying, oil-based paint withstands indoor and outdoor conditions, including acid and alkaline rain without fading, chipping or losing its opacity. Benefits: Makes permanent bright marks on metal, rubber, plastic, glass, concrete, leather, stone, wood, vinyl and more. Valve action mechanism prevents paint in barrel from drying when cap is left off. Ideal for color coding. Bullet tips are replaceable to assure complete use of paint in each marker. Drying Time: 25 - 35 seconds. (12) per box, priced per piece.

SKU	DESCRIPTION
10206	YELLOW
10205	WHITE
10204	RED
10201	BLACK

Crayon



Features:

- Works in oily, slick, wet, cold, or dry conditions
- Ideal for lumber, concrete, ceramics, and metal
- Non-toxic, waterproof for lasting marks

SKU	DESCRIPTION
66401	RED
66402	BLUE
66404	BLACK
66406	YELLOW

Sharpie

SKU: 96022



#15 FINE PT. RED

Sharpie

SKU: 96023



FINE PT BLK

Sharpie Retractable

SKU: 32721PP



BLACK

Sharpie (Qty: 2)

SKU: 39108PP

METALLIC SILVER



Sharpie Magnum



SKU	DESCRIPTION
44002-SH	RED
44001-SH	BLK

Medium China Marker



Features:

- Versatile pencil marks on porous and non-porous surfaces, such as china, ceramics, glass, metal, and plastic.
- Formulated to be moisture-resistant and to resist fading

SKU	DESCRIPTION
2089	BLACK
2060	WHITE

Sharpie King Size



SKU	DESCRIPTION
15001-SH	BLACK
15002-SH	RED

Sharpie Pro O/S



SKU: 34801 BLACK

Sharpie Fine Qty: (2)



SPECS	
SKU	30162PP
Type	Wet Surface Pen
Color	Black
Tip	Fine
Tip Type	Fine

Carpenter Pencil



SKU: 515R

RED



Carpenter Pencil

SKU: 66305SL



BLACK

Flip Marker



This double-ended marking tool combines a carpenter's pencil with a color marking crayon. Available in four colors - red, blue, yellow and black. FlipMarker can be used to write on any surface - wood, concrete or metal.

Color: Blue; Qty: Bag (10)

SKU: FMBU

Pencils



Features:

Irwin 233250 Carpenter Pencil Sharpener. Uses 50% less pencil per sharpening cycle, 20% harder blade for longer life. Integrated emory board for fine point filing, Narrow sharpening angle for broader, more durable point reduced lead breaking

Quantity: 25-pc bulk

Pencil Sharpener



FEATURES:

- Sharpens quickly and easily
- Safer than a utility knife

SKU: CP2

Chalk Line Reel

SKU: 2031303



100' MACH6

FEATURES:

- 6X Faster than traditional chalk reels
- 6:1 Gear ratio
- Metal drive gear
- Metal handle
- Wide pronged hook
- Nylon/Polyester braided line

Chalk Reel



150' LARGE CAPACITY

FEATURES:

- Large Capacity reservoir holds 14 ounces of chalk
- Steel crank, durable to last longer

SKU: 2031311

Chalk Reel Combo

SKU: 2031328



W/4OZ BLK CHALK & SHARPIE

FEATURES:

- 3.5:1 gear ratio for speeds up to 3 times faster than traditional chalk reels
- Lightweight ABS plastic housing
- Metal handle
- Nylon and polyester braided line

Chalk Reel With Chalk

SKU: 2031315DS



FEATURES:

- Chalk reel with chalk
- Six times faster than traditional chalk reels
- 2 times stronger line
- EZ access door
- Blue
- 100' line

Chalk Line Reel

SKU: 64310CHBX



FEATURES:

- Quick release clutch
- Locking fill door
- Impact resistant case
- 3-1/2 to 1 gear ratio
- Reversible line guides, self-locking handle

Reel SPL-Pro Single

SKU: 2031318DS



100-Feet

- 3.5:1 Gear ratio
- 3x Faster than traditional chalk reels
- Metal handle
- Nylon/Polyester braided line
- Wide pronged hook
- Light-weight ABS plastic housing

Reel Combo

SKU: 64495



Product Dimensions:
10 x 6.6 x 2.3 inches

Reel Combo



SKU: 64494

FEATURES:

- Retrieves chalk line 3-1/2 times faster than a standard chalk reel
- Patented hook storage and door locking mechanism virtually eliminate spills and line tangles
- Crank handle clutch release allows release of the line without spinning the crank handle

Chalk Line Reel

SKU: 64110



FEATURES:

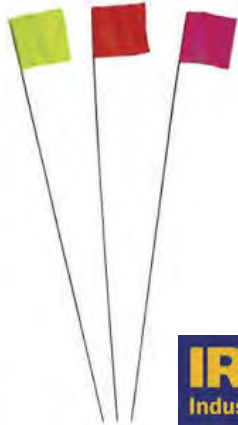
- Heavy-duty case is constructed of durable aluminum alloy
- Steel plated hook and large grip anchor ring provide better holding power
- Retractable self-locking metal handle allows reel to be used as a plumb bob
- Twisted cotton line holds more chalk for multiple line strikes
- Holds approximately 2 oz. of chalk

Flagging Tape



SKU	DESCRIPTION
65601	150' Glo-Red
65602	150' Orange
65603	150' Glo-Pink
65604	150' Glo-Lime
65901	300' Red
65902	300' Orange
65905	300' Yellow
FTGL	250' Glo-Lime
8636Y	100' Yellow
FPR50	100' Red

Flagging Markers



SKU	DESCRIPTION
64101	100PC FLSCNT PINK
64100	100PC FLSCNT ORNG

Stake Whiskers



SKU	DESCRIPTION
15904	YELLOW, 6"
15903	BLUE, 6"
15902	RED, 6"
15709	PINK, 6"
15907	ORANGE, 6"

Stake Flag



SKU	DESCRIPTION
2034207	Red, 2,5x3,5x21"
64102	GLO Lime

Utility Knife



SKU: 2081101

FEATURES:

- Optimized cutting angle for reduced fatigue
- Screw permanently captured in casing to prevent loss
- Features inside storage for up to five blades

Utility Knife



SKU: 2082101

FEATURES:

- Retractable knife
- Magnetic knife with optimized cutting angle for reduced fatigue
- Side assembly with durable three position design
- Magnetic nose for easy blade changes



Utility Knife



SKU: 2082300

FEATURES:

- High-visibility orange color makes for easy spotting on the job site
- Smooth, three-position slide exposes variable blade lengths
- Screw permanently captured in casing to prevent loss

Self Retracting Safety Knife



SKU: 2088600

FEATURES:

- Two-positions: Full Extension
- For Utility Cutting; Short
- Position For Box Cutting
- Ergonomic Handle
- Self-retracts When Not Actuating The Slider Button

Folding Utility Knife



SKU: 2089100

FEATURES:

- Includes 1 bi-metal utility blade
- For quick blade change press
- "Quick Change Button" when knife is at 45 degrees
- Extended thumb ledge

ProTouch Fixed Utility



SKU: 1774103

FEATURES:

- Includes 3 Irwin Blue Blade Bi-Metal Utility Blades.
- ProTouch ergonomic grip.
- Features inside storage for up to 5 blades.
- Easy tool-free entry.

ProTouch Fixed Utility



SKU: 1774107

FEATURES:

- Thumbscrew for tool-free access
- Angled handle to keep hand above cutting material
- On board blade storage
- Used for carpet cutting
- Includes Irwin double sided carpet blade

ProTouch Fixed Utility



SKU: 1774108

FEATURES:

- Hardwood handle for increased durability
- Hooked blade for cutting on the pull

Bi-Metal Blades



SKU: 2084200 20 pack

Bi-Metal Blades



SKU: 2084300 50 pack

Hook Blades



SKU: 2087100 5 Pack

Hook Blades



SKU: 2087102 100 Pack

4 Point Carbon Blade



SKU: 1764985 50 pack

Carpet Blades



SKU: 1777341 5 pack



**NR SERIES
NYLON-REINFORCED STEEL
BLADE, STANDARD REWIND**

NR18100

- Length: 100 ft
- Units: ft, in, 1/8
- Zero Pt.: Hook End
- Attachment: Hook
- Blade: E1
- UPC: 001903

NR18200

- Length: 200 ft
- Units: ft, in, 1/8
- Zero Pt.: Hook End
- Attachment: Hook
- Blade: E1
- UPC: 001927

**RRT6 / RRT12
TOP READING WHEELS**



RRT6

- Units: ft. & in.
- DIA.: 6 in.
- Circ.: 18 in.
- Special Features: Handle trigger reset and brake
- UPC: 027415

RRT12

- Units: ft. & in.
- DIA.: 12 in.
- Circ.: 3 ft.
- Special Features: Handle trigger reset and brake
- UPC: 027412

Tape Rulers

33-425 - 25' x 1" Power-Lock® Tape Rule



- 7' blade standout
- Mylar® polyester film extends life of entire blade
- Chrome high-impact ABS case is job site tough
- Secure blade lock won't creep during measurements
- 16" and 19.2" stud center markings simplify framing jobs
- Corrosion-resistant Tru-zero end hook for accurate measurements

33-730 - 30' x 1-1/4" FATMAX® Tape Rule



- 11' blade standout
- 1-1/4" wide blade for easy readability
- BladeArmor™ coating on the first 4-1/2" maximizes durability of the blade
- Mylar® polyester film extends life of entire blade
- High-impact ABS case with durable rubber-holds up to heavy use

34-130 100-Foot FatMax Long Tape Rule



- Long tape rule with 3-to-1 gear drive for faster rewind
- True-Zero end hook allows accurate inside and outside measurements
- Stainless steel blade ensures long life; steel roller cage protects case

L725CTMP Self Center Tape, 25-Feet



- Self-centering tape; bottom measurement is the center of the top measurement, 1/32" graduations
- Shows the midpoint of any measurement
- Reinforced blade
- Case designed to fit your hand

33-430 - 30' x 1" Power-Lock® Tape Rule



- 7' blade standout
- Mylar® polyester film extends life of entire blade
- Chrome high-impact ABS case is job site tough
- Secure blade lock won't creep during measurements
- 16" and 19.2" stud center markings simplify framing jobs
- Corrosion-resistant Tru-zero end hook for accurate measurements

33-735 - 35' x 1-1/4" FATMAX® Tape Rule



- 11' blade standout
- 1-1/4" wide blade for easy readability
- BladeArmor™ coating on the first 4-1/2" maximizes durability of the blade
- Mylar® polyester film extends life of entire blade

25mm (1") x 8m (26') Hi-Viz® Orange Series 1000 Power Tape



SKU: HV1048CME

- Hi-Viz® orange case - easy to find on the job
- Case designed to fit perfectly in the hand
- Lightweight, high strength case, fits easily into most tape holsters
- Bright yellow blade has clear easy-to-read numerals

636 6-Foot Wood Engineer Rule



- 6-Foot length
- Foot marks in red
- Decimal points on engineers

33-835 35-Foot Powerlock Tape Rule



- Tape rule provides positive blade lock with no creeping
- Special True-Zero hook allows use of nail as pivot to draw circles and arches
- Mylar polyester film extends the life of the entire blade; chrome-plated metal case
- 3-rivet, corrosion-resistant hook moves for accurate inside/outside measurements

33-725 - 25' x 1-1/4" FATMAX® Tape Rule



- 11' blade standout
- 1-1/4" wide blade for easy readability
- BladeArmor™ coating on the first 4-1/2" maximizes durability of the blade
- Mylar® polyester film extends life of entire blade

TAPE, 1"X33'(25MMX10M) HI-VIZ ORANGE

SKU: PHV1410CME



- Hi-Viz® orange case - easy to find on the job
- Rubber cushion case exterior protects tape from impact and improves grip
- Tape Line stands out up to 9 foot for longer reach and efficient measuring
- Bright yellow blade has clear easy-to-read numerals

ST SERIES



ST5018

- Length: 50 ft
- Units: ft, 1/10, 1/100
- Zero Pt.: Hook End
- Attachment: Hook
- Blade: G1
- UPC: 010394

ST10018M

- Length: 100 ft
- Units: ft, in, 1/8 & m, cm, 2mm
- Zero Pt.: Hook End
- Attachment: Hook
- Blade: G1 & G3
- UPC: 027651

Concrete Vibrators

All Heads, Shafts and Power Units Are Interchangeable*

1. Select Head Size 2. Select Shaft Length 3. Select Power Unit (Do Not Exceed Maximum Head Size)

HEADS

Steel



Part No.

*3/4"	HP 075 OZ
1"	H 100 OZ
1 1/4"	H 125 OZ
1 1/2"	H 150 OZ
1 3/4"	H 175 OZ
2"	H 200 OZ
2 1/2"	H 250 OZ

Short Heads

Part No.

*3/4 x 6"	HSP 075 OZ
1 1/4 x 6"	HS 125 OZ
1 3/4 x 6"	HS 175 OZ

High Efficiency RubberHead™



Part No.

1 7/8"	HR 188 OZ
2 1/2"	HR 250 OZ
2 3/4"	HR 275 OZ
2 3/4x6"	HSR 275 OZ



Rubber noses

Available for all steel heads. Add "RT" to Steel Head Part No.

SHAFTS



Part No.

2'	FS 02 OZ
5'	FS 05 OZ
7'	FS 07 OZ
10'	FS 10 OZ
12'	FS 12 OZ
14'	FS 14 OZ
16'	FS 16 OZ
18'	FS 18 OZ
21'	FS 21 OZ

Pencil Shafts

3'	FSP 03 OZ
6'	FSP 06 OZ
9'	FSP 09 OZ
11'	FSP 11 OZ
15'	FSP 15 OZ
20'	FSP 20 OZ

POWER UNITS

Electric Motors



Model	Amps	HP	Maximum Head Size	
			Steel	Rubber
1.2 OZ	9	1 1/4	1 1/2"	None
1.8 OZ	15	1 3/4	1 3/4"	None
2.4 OZ	17	2 1/4	2"	1 7/8" 2 3/4" short
3.2 OZ	19	3 1/4	2 1/2"	2 3/4"

Gas Engines



Back Packs

BP - 35	—	1 3/4	1 1/2"	None
BP - 50a	—	2 1/2	2 1/2"	2 3/4" short



Carry Handle Models (Briggs & Stratton/Honda)

GV-5	—	5/5.5	2 1/2"	2 3/4"
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Wheelbarrow (Briggs & Stratton/Honda)

GV-5W	—	5/5.5	2 1/2"	2 3/4"
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All dimensions shown are nominal, actual dimensions may vary. Call for details.

All Oztec vibrators meet or exceed ACI specification #309

Motor	Shaft (Core & Casing) Available in 2', 5', 7', 10, 14' & 20' sections	Head
 	W988-Series W989-Series	13/16" W877-520 1" W877-526
		1-3/8" W878-533 1-3/4" W878-540 2" W878-563 2-1/4" W878-568 2-1/2" W877-512

■ Available in polyurethane coated

994 Electric Motor Vibrator



- Drives any head and shaft combination – one motor for all your consolidation needs
- Conforms to current UL and OSHA regulations for safety
- Lightweight with ergonomic hand grip and shoulder strap
- Powers through your most challenging concrete applications

Vibratory Rammers

- Operating weight lb.: 131
- Ramming shoe size (WxL) * in.: 11 x 13
- L x W x H in.: 26.5 x 13.5 x 37
- Percussion rate max. blows/min.: 700
- Stroke at the ramming shoe in.: 2.53
- Operating speed ft./min.: 31
- Surface capacity Compaction ft²/h.: 1710
- Engine / Motor type: air-cooled single-cylinder two-cycle gasoline engine
- Engine / Motor manufacturer: Wacker Neuson
- Engine / Motor: WM 80
- Displacement in³: 4.9
- Operating performance Max rated Power ISO 3046-1 hp: 2.2
- at rpm rpm.: 4400
- Gasoline / oil mixture Ratio: 5.000694444444444
- Fuel consumption US gal/h: 0.26

BS 50-2i



- Operating weight lb: 145
- Ramming shoe size (WxL) in: 11 x 13
- L x W x H in: 26.5 x 13.5 x 38
- Percussion rate max. blows/min: 700
- Stroke at the ramming shoe in: 3.15
- Operating speed ft/min: 32
- Surface capacity
- Compaction ft²/h: 1763
- Engine / Motor type : air-cooled single-cylinder two-cycle gasoline engine
- Engine / Motor manufacturer : Wacker Neuson
- Engine / Motor : WM 80
- Displacement in³: 4.9
- Operating performance
- Max rated Power ISO

BS 60-2i



- Operating weight lb.: 164
- Ramming shoe size (WxL) * in.: 11 x 13
- L x W x H in.: 26.5 x 13.5 x 38
- Percussion rate max. blows/min.: 650
- Stroke at the ramming shoe in.: 2.57
- Operating speed ft./min.: 29
- Surface capacity
- Compaction ft²/h.: 1598
- Engine / Motor type: air-cooled single-cylinder two-cycle gasoline engine
- Engine / Motor manufacturer: Wacker Neuson
- Engine / Motor: WM 80
- Displacement in³: 4.9
- Operating performance
- Max rated Power ISO 3046-1 hp: 2.7

BS 70-2i



Vibratory Rammer

- The diesel engine is the most environmentally friendly rammer engine available, which makes it the perfect choice for compaction jobs in poorly ventilated trenches.
- The noise reducing cover lowers the amount of engine and shoe noise transmitted to the operator.
- The large capacity and corrosion-proof fuel tank is equipped with a self cleaning in-tank filter. That means long service life and minimum maintenance.
- For added operator convenience, a single lever controls start-up, speed and engine shut-off.

DS 70



Vibratory Plates

- Lightweight, high strength aluminum components keep machine weight down and allow for easy handling.
- Straight, center-mounted guide handle offers superior maneuverability and can be lowered within inches of the surface to operate the plate under obstacles and form work.
- Tough, wear resistant ductile iron base plate offers durability and shock resistance.
- Water tank models have a large capacity polyethylene tank that includes a large filter

WP-Premium Plates – Soil and Asphalt



- Intuitive guide handle design: The operator changes the direction of travel and speed simply by moving the handle forwards and backwards.
- Infinitely variable forward and reverse operation including spot compaction for easy maneuverability. Ideal for trenches and over large areas.
- Comprehensive comfort features: e.g. low oil shut off and maintenance-free alternator.
- The large gasoline engine with its high reserve capacity

BPU 4045A



BPU 5545A

Flex Shaft Vibrators

The HMS range offers flexibility and cost-effectiveness: The internal vibrators in this range are individually configurable with different flexible shafts, vibrator heads and motors. All devices feature quick disconnect coupling for quick and easy use. The vibrator heads are induction hardened and therefore offer high wear resistance.

- Choice of 3 electric motors and 2 gasoline engines
- Selection of 12 different vibrator heads
- 11 different flexible shafts

HMS



Solid State Vibrators

The high-frequency internal vibrators of the IRFU range share one main characteristic: They simply connect to the 1-phase power supply and are ready to use. Quick, simple, flexible. Ideal for independent operation.

IRFU



- Integrated frequency converter
- Reliable operation, even if the input voltages fluctuate and when used with generators
- Non-wearing converter due to sealed electronics
- Rubber coated head

Backpack and Pole Vibrators



BV 35A-P, BV

- Backpack features shoulder mounted on/off switch and throttle control for simple operation.
- Quick disconnect provides for quick backpack vibrator removal and easy storage.
- BV 35A-P features patented pendulum technology.
- BV 50A-H is designed for versatility with the use of flexible shafts and heads.
- Portable and productive - Offering over 10,000 vibrations per minute.

Walk-Behind Trowels

- Patented dynamically balanced trowels (when blades are turning) offer nearly effortless operation and maximum control at all speeds with all types of blades including float pans.
- Different engine options, ranging from 4.8 to 9 hp, and handle type can be selected to meet individual preferences and job site conditions.
- Variable speeds: Low speeds for floating, high speeds for burnishing.
- Blade pitch up to 30° for better concrete burnishing.

Models:

24 in: CT 24
36 in: CT 36
48 in: CT 48



CT 36

Ride-on Trowels

- Highest blade speeds in mechanical drive ride-on trowel class offers higher productivity and better finishes.
- Optimum maneuverability due to its balanced power-to-weight ratio and ergonomic twin lever controls.
- Variable clutch offers proper torque and speed range to match concrete conditions without mechanical adjustments.
- Good visibility thanks to front and rear lights as standard – especially in low light operations



CRT 48

Vibratory Truss Screenshot

- Winch system consists of two cranks located on the same end of the screed for one-person operation.
- Lightweight, high strength aluminum truss for reduced weight and easy machine handling.
- Connector plate with greaseable flange bearing provides rigidity for even vibration and fast assembly of sections.
- Eccentric weights are located near the shaft bearings to prevent shaft whip and extend bearing life.



Truss Screenshot

Walk-behind Saw



BFS 914, BFS 1318

- The unique, ergonomic handle system makes individual adjustments of the handle width and height possible, thus allowing for optimum operator control of the machine.
- Extremely high cutting performance with a cutting depth of 6. inches (16 cm) when using an 18-inch (450 mm) cutting blade
- Lightweight enough that it can be lifted by two people.
- The central lifting point, integrated in the durable protective cage, plus the foldable guide handles make transporting the machine extremely easy.
- Water sprinklers on both side of the cutting blade.

Gasoline Breaker



BH 65

- The proven EPA-certified Wacker Neuson two-cycle engine is specifically designed for tough, rugged applications and is a powerful, low exhaust emission engine offering long service life.
- Improved cooling system offers greater operator comfort, safety and service life.
- Large, oversized fuel tank reduced refueling interruptions and provides for long run times.
- The centrally located grease nipple makes maintenance easy, as it allows the complete machine to be greased on the job site with a small grease pump.

Breakers



EH 65

- Extremely high breaking output due to high impact energy, high power to weight ratio and high percussion rate.
- Hand arm vibration is under 5 m/s² thanks to the efficient full-hood vibration damping system which provides additional user comfort for all day applications.
- Portable breaker operates on 115/120 V AC/DC, 15 amp. outlet or a 2500 Watt portable generator

Portable Cut-off Saws



BTS

- First-class cutting performance
- Way above average operating times
- High performance engine with high torque.
- Robust high quality construction
- Hand-arm vibrations below 5m/s²*

Submersible Pumps

- Single-phase electric submersible pumps designed for low water levels
- Single-phase electric submersible pumps range in discharge capacities of 53 to 130 gpm (200-493 l/min).
- Three-phase electric submersible pumps range in discharge capacities of 106-428 gpm (400-1620 l/min).



Dewatering Pumps

- Cast iron impeller and volute are wear resistant for long life and minimal service.
- Pump out vanes on back of impeller reduce debris accumulation and downtime while allowing greater productivity.
- Carbon ceramic mechanical seal teamed with reliable four-cycle engine with low oil shutdown provides for increased operating life.



PG 2



PG 3



WM90P
(9 cubic ft., Poly drum)



WM90S
(9 cubic ft., Steel drum)



WM45
(4.5 cubic ft., Steel drum)
Non-towable

- High-strength cast iron paddle arms with wiper blades for a clean, uniform mix.
- Heavy-duty safety grate with built-in bag cutter.
- Durable paddle shaft of 1 3/4" square hardened steel. Greasable, double-sealed bearings provide a long service life.
- Drum lock allows positive "mix" and "tow" positions for safety.
- Removable tow bar manufactured of schedule 80 steel and available with choice of 2" ball, pin-type coupler or loop coupler.*
- Forklift pocket facilitates placement in the yard and on the jobsite.*
- Solid 1 5/8" solid axle with large B78x13" tires for smooth towing.*

* Excludes WM45.

Multiquip



Model MC95 (9 cubic ft.)

- Wide drum opening for easy loading of material.
- Durable Steel drums are available in 4, 6 and 9 cubic foot capacities.
- Multi-position dump wheel for safe material discharge.
- Heavy-duty one-piece cast iron ring gear for long life.
- Heavy-duty retractable tow bar made of schedule 80 steel available with loop coupler, 2" ball coupler or pin-type coupler.
- Axle springs, selected models, and large B78 x 13" tires for smooth towing to your job.**
- Rugged 14-gauge steel engine covers with punched ventilation openings for increased cooling and added strength.

* 4-cubic foot models available with steel drums only.

** Axle springs not available on 4-cubic foot models

WM120-Series



WM120HD

- Rugged 14 gauge steel engine cover with punched pressed ventilation openings for increased cooling and added strength.
- Easy Clean™ polyethylene drums simplify cleanup. Steel drums also available.
- High-strength cast-iron paddle arms with wiper blades for a clean, uniform mix.
- Heavy duty safety grate with built-in bag cutter.
- Durable paddle shaft of 1 3/4" square hardened steel. Double-sealed bearing with height spring loaded greaseable shaft seals.
- Heavy-duty removable tow tongue made of tough schedule 80 steel.
- Solid 5/8" axle with large B78x13" tires for smooth towing.
- Controls Levers provide the ability to control mix direction (forward/reverse) and raise/lower the dump mechanism.

Mix-N-Go Concrete Mixer



- Engine options — Gasoline or 3/4HP, 115 single-phase UL- and CSA-approved electric motor.
- Pneumatic tires — for convenience on rough terrain
- Gearbox - gears immersed in oil for long trouble-free life
- Mixer stand allows drum to rotate 360 degrees, easily removed to use as wheelbarrow

THE EASYCLEAN™ ADVANTAGE



Model MC94P (9 cubic ft.)
Polyethylene drums available in 6 and 9 cubic foot models only.

Our polyethylene drums put an end to clean up problems and save you time and money. Removing dry material from a steel-drum mixer, may take several hours and result in dents or damage in the process. A simple tap with a rubber mallet does the job — cleans out in minutes without dents, rust or cracks!



- PRO36**
- Reduces the amount of labor and time required to complete the job.
 - Mechanical boom has 180° range of lateral motion and removable weights.
 - Fresno blade and broom attachments easily adjusted from the



- J42E50**
- A 36-inch (915 mm) ring diameter
 - Variable speed manual clutch allows 30-160 RPM
 - Electric 2-hp, 230V 50Hz single-phase motor
 - Includes standard handle which affords the operator smooth blade pitch adjustment.



- J36S60**
- Subaru EX-Series engine featuring chain-driven OHC design for reliable performance
 - Engine protected by Subaru's 5 year warranty; trowel is covered by the standard Multiquip 1 year warranty



- HDA48413H**
- Heavy-Duty Walk-behind trowel gearbox and CVT drive
 - Easy to service spider assembly reduces cost of ownership
 - Honda GX390 offers top rotor speed of 225 RPM for high speed burnishing
 - Available with optional Quick-Pitch or standard (knob-style) handles



- PRO46**
- Reduces the amount of labor and time required to complete the job.
 - Mechanical boom has 180° range of lateral motion and removable weights.
 - Fresno blade and broom attachments easily adjusted from the operator's position.



- J36E2**
- Electric motor is ideal for enclosed areas where exhaust fumes or noise is not permitted
 - Adjustable Variable Speed Clutch
 - Includes standard-pitch handle with electrical control box
 - A 36-inch (91.5 cm) ring diameter



- B46H90**
- 46-inch (1170mm) guard ring diameter
 - Trowel covered by 1-year limited warranty
 - Front access panel provides quick access to trowel arms and blades



- CA4HC**
- Only 24 inches (610 mm) in diameter making it great for finishing tight spaces and around obstructions
 - Rotating guard ring allows finishing tight to the wall without marking or marring
 - QuickPitch handle provides simple and fast blade control



- J36H55**
- 36-inch (915 mm) guard ring diameter
 - Trowel covered by 1-year limited warranty
 - Front access panel provides quick access to trowel arms and blades



- B46H11H**
- 46-inch (1170mm) guard ring diameter
 - Rotor speed of (90-155 RPM) for high speed finishing applications; optional low speed panning kit available (60-130 RPM)



- CA4HM**
- Only 24 inches (610 mm) in diameter making it great for finishing tight spaces and around obstructions
 - QuickPitch handle provides simple and fast blade control



- J36H90H**
- 36-inch (915 mm) guard ring diameter
 - Rotor speed of 30-155 RM for high speed finishing applications; optional low speed panning kit available (60-130 RPM)



- B46S90**
- Subaru EX-Series engine featuring chain-driven OHC design for reliable performance
 - Engine protected by Subaru's 5 year warranty; trowel is covered by the standard Multiquip 1 year warranty

If you don't find everything you need, please call us and we would be happy to help you with your requirements.

Small Submersible Pumps

APPLICATIONS: For commercial, industrial, and home use worldwide where liquid must be transferred or re-circulated. Applications include aquariums, swimming pools, water displays, ice makers, air conditioners, boat bailing, fuel oil transfer, circulating water for welding and pipe threading machines, pumping mild chemicals such as soap solutions, acids, plating solutions, and fertilizers.



Submersible Sump/Effluent Pumps

5.5 Series: 1/4 hp submersible sump pump designed to handle 3/8" solids. Zinc housing, glass-filled polypropylene base and cover, non-clog nylon impeller, thermal overload protection, 1-1/4" FNPT discharge with garden hose adapter and snap-action float switch. "On" level at 7" to 10" and "off" level at 2" to 5".

Item No	Model No	UPC	Volts	Hz	HP	WT (lbs)	Cord Length	GPM @5'	Cert	Pallet	List
505700	5.5-ASP	0 10121 05700 5	115	60	1/4	10.25	10'	35	UL/CSA	96	4
505701	5.5-ASP	0 10121 05701 2	115	60	1/4	11.00	25'	35	UL/CSA	96	4

Item No	Model No	UPC	Volts	Hz	HP	WT (lbs)	Cord Length	GPM @1'	Cert	Pallet	List
505000	5-MSP	0 10121 05000 6	115	60	1/6	8.25	10'	1200	UL	96	4



Submersible Pumps

Model: ST2037

This lightweight, compact submersible centrifugal pump is ideal for moving water in multiple confined and open area applications. This is a powerful, versatile, low maintenance pump that is perfect for a wide range of operations supporting Contractors, Service Utilities, Municipalities, and Homeowners. Further, the ST2037 incorporates a rugged cast aluminum housing, internal thermal overload protection, dual shaft seals, sealed ball bearings impeller and molded 25' Power Cable with strain relief.

Standard submersible pumps

are ideal for removing water from confined areas. Their compact design and high performance enables them to get the job done where other pumps fall short. MultiQuip submersibles are powered by electric motors and can be left running for hours.



Rebar Cutters & Benders



PORTABLE REBAR CUTTERS

Electric/Hydraulic



Model #	DC-16LZ	DC-20WH	DC-25X	DC-32WH
Capacity	5/8" grade 60	3/4" grade 60	1" grade 60	1-1/4" grade 60
Speed	2 seconds	3 seconds	5 seconds	12 seconds
Voltage	115V 60/60Hz	115V 50/60Hz	115V 50/60Hz	115V 50/60H
Amperage	9 amps	10 amps	12 amps	12 amps
Weight (kg)	15 lbs. (6.8)	25.4 lbs. (11.5)	49.6 lbs. (22.5)	77.2 lbs. (35.0)
Dimensions (in.)	14.8 x 6.8 x 4.1	16.0 x 4.3 x 8.2	20.0 x 5.9 x 9.8	23.1 x 7.0 x 10.6
L x W x H (mm)	380 x 175 x 105	410 x 110 x 210	515 x 150 x 250	591 x 180 x 272

Rebar cutters are shipped in a steel carrying case (except DC-32WH in a wooden box) with tools, hydraulic oil and parts list/handling instructions. Tune-up kits include cutting blocks are available for DC-16W, DC-20WH and DC-25X cutters.

PORTABLE REBAR BENDERS

Electric/Hydraulic or Mechanical



Model #	HB-16W	DBR-25WH	DBD-16X	DBD-25X	DBD-32X
Capacity	5/8" grade 60	1" grade 60	5/8" grade 60	7/8" grade 60	1 1/8" grade 60
Speed	3-4 seconds	6-8 seconds	5 seconds	6 seconds	8 seconds
Bending Angle	0-135 deg.	0-90 deg.	0-180 deg.	0-180 deg.	0-180 deg.
Voltage	115V 50/60Hz	115V 50/60Hz	115V 50/60Hz	115V 50/60Hz	115V 50/60Hz
Amperage	10 amps	12 amps	10 amps	12 amps	12 amps
Weight (kg)	33 lbs. (15.0)	49.6 lbs. (22.5)	90 lbs. (40.8)	189.6 lbs. (86.0)	386 lbs. (180.0)
Dimensions (in.)	22.8x7.6x8.0	26x10.5x7.8	12.5x16.6x16.2	19.1x21.5x17.2	23.0x24.2x18.7
L x W x H (mm)	585x195x205	660x270x200	320x425x415	490x550x440	590x620x480

Rebar benders are shipped complete with a set of bending rollers and a foot pedal (except for HB-16W & DBR-25WH). Optional DBD Series bender stands, combination cutter/bender stands and workstations are available upon request.

MBC-16B Manual Bender/Cutter



- Cutting Capacity: #5 (5/8") (16 mm) rebar grade 60 (420 MPa)
- Bending Capacity: #5 (5/8") (16 mm) rebar grade 60 (420 MPa)
- Bending Capability: 0 - 180°
- Replacement Jaw Set: #MBC-16RJS
- Shipping Weight: 57 lbs. (26 kg) with wood board
- Overall Dimensions: 60.5" L x 7.5" W x 10" H
- Warranty: 6 months (includes parts and labor)

5/8" Rebar Cutter with Bender

SKU: CB0216



- Features:
- Newly designed blade resulting in 30 % less effort to cut #5 Grade60 Rebar.
 - Portable compact design with well balanced positioning of blades.
 - Convenient and light weight of only 38 lbs to take on any jobsite.
 - Bending diameter 2 1/2", One or two step operation can bend 90 degree to 180 degree.
 - Uniquely shaped blade prevents chipping or damages.
 - Reinforced overall stress points for optimum durability & tool life..



HITACHI

SKU: HVB16Y



HVB16Y Rebar Cutter Bender

- 8 Amp motor, intense power (530W) that it uniformly bends up to No.5 (3/8", 1/2", 5/8") Grade 60 rebar at a maximum angle of 180 degrees
 - Variable speed trigger with safety lock provides manual-like precision and control over the bending speed
 - Reference markings on bending plate provide for easy position adjustment
 - Precision angle bends are preset and completed in just seconds (cut: 3.1 seconds, bend: 5.1 seconds) for consistency
 - Reference markings on bending plate provide for easy position adjustment
 - With the turn of a pre-set dial, bends can be made in a variety of angles
 - Extremely low profile design (18.4"L x 8.5"H x 9.1"W), yet extremely stable
 - 42 lbs, portable design facilitates maneuverability and ease of use
- Includes: Deflection Guard, Cutter Set



SKU: 1BNCE20

STANDARD EQUIPMENT INCLUDES

- The Cutting Edge Saw
 - Two TCT Cutting Blades
 - Extra Set of Motor Carbon Brushes
 - Removable Side Handle
 - Chip Collector Attachment
 - Tool Kit & Operations Manual
 - Plastic Molded Carrying Case
- See more at: <http://www.bnproducts.com/tools/bnce-20-cutting-edge-saw/#sthash.NeVLFly.dpuf>

Shanks - Drill Bits

Rebar Cutter



Straight Shank Rebar

Item #	Diameter	Length	Qty.
RCSS2064	3/8"	12"	1
RCSS2084	1/2"	12"	1
RCSS2094	9/16"	12"	1
RCSS2104	5/8"	12"	1
RCSS2124	3/4"	12"	1
RCSS2144	7/8"	12"	1
RCSS2164	1"	12"	1
RCSS2168	1-1/8"	12"	1
RCSS2172	1-1/4"	12"	1
RCSS2176	1-1/2"	12"	1
RCSS2086	1/2"	18"	1
RCSS2106	5/8"	18"	1
RCSS2126	3/4"	18"	1

Straight Shank Extensions

Item #	Diameter	Length	Qty.
EX1006	7/16" shank	6"	1
EX1012	7/16" shank	12"	1



Flat Shank Hex Masonry Drill Bits

Item #	Diameter	Length	Qty.	Bulk Item #	Bulk Qty.
TC100	5/32"	3-1/2"	1	TC1005 TC1025	5 25
TC200	5/32"	4-1/2"	1	TC2005 TC2005	5 25
TC300	5/32"	5-1/2"	1	TC2005 TC2005	5 25
TC400	3/16"	3-1/2"	1	TC2005 TC2005	5 25
TC500	3/16"	4-1/2"	1	TC2005 TC2005	5 25
TC600	3/16"	5-1/2"	1	TC2005 TC2005	5 25

Flat Shank Hex Accessories

Item #	Description	Qty.
TC700	Masonry screw drill bit holder	1
TC800	Masonry screw drill bit sleeve	1
TCNS516	Drill bit nutsetter 5/16" hex	1
TCNS14	Drill bit nutsetter 1/4" hex	1
TCSDP2	Concrete screwdriving bit P2	1
TCSDP3	Concrete screwdriving bit P3	1


Flat Shank Drill Bit Set


Item #	# of Pieces	Includes	Case Type
TC900	9	Power bits: (1) P2, (1) P3; hex sockets: (1) 5/16", (1) 1/4"; drill bits: (1) 3/16", (1) 5/32"; (1) drive sleeve, (1) hex key, (1) bit holder	Brute Tough™



Hammer Drills - Rotary Drills


Quick Tool Reference Guide

 For small and medium rotary hammers.

 For small and medium rotary hammers.



Item#	1191VSRK	HD19-2/HD19-2D	HD21-2	11250VSR	11250VSRD
					
Drive System					
Hammer Classification	Hammer Drill	Hammer Drill	Hammer Drill	Rotary	Rotary
Amperage	7	8.5	9.2	6.1	6.1
Impact Energy (ft.-lbs.)	—	—	—	1.6	1.6
Max. Capacity—Concrete/Masonry	5/8"	3/4" / 7/8"	7/8" / 1"	3/4"	3/4"
Optimal Range	1/8"—5/16"	1/8"—3/8"	1/8"—1/2"	5/32"—5/8"	5/32"—5/8"
Core Bits	—	—	—	1-1/2"	1-1/2"
No Load RPM	0–3,000	0–1,000/0–3,000	0–900/0–3,000	0–1,000	0–1,000
No Load BPM	0–48,000	0–17,000/0–51,000	0–15,300/0–51,000	0–4,400	0–4,400
Modes of Operation	Hammer Drill Rotation Only	Hammer Drill Rotation Only	Hammer Drill Rotation Only	Rotary Hammer Rotation Only	Rotary Hammer Rotation Only
Length	11"	13.4"/18"	13.5"	13.25"	19.6"
Weight	4.1 lbs.	5.8 lbs./7.2 lbs.	5.9 lbs.	5.4 lbs.	7.4 lbs.

 For small and medium rotary hammers.

Item#	11253VSR	11255VSR	RH228VC	RH328VC/RH328VCQ	RH432VCQ
					
Drive System					
Hammer Classification	Rotary	Rotary	Rotary	Rotary	Rotary
Amperage	7.2	7.5	8.0	8.0	8.5
Impact Energy (ft.-lbs.)	2.2	2.2	2.4	2.6	3.7
Max. Concrete Capacity	1"	1"	1-1/8"	1-1/8"	1-1/4"
Optimal Range	3/16"—5/8"	3/16"—5/8"	3/16"—3/4"	1/4"—7/8"	3/8"—1"
Core Bits	2-1/2"	2-5/8"	2-3/4"	3-1/8"	3-1/2"
No Load RPM	0–1,300	0–1,300	0–1,230	0–900	0–760
No Load BPM	0–5,800	0–5,800	0–5,460	0–4,000	0–3,600
Bosch Vibration Control	No	No	Hammer Mechanism	Hammer Mechanism and Handle	Hammer Mechanism and Handle
**Vibration Levels m/s ²	—	—	12	13	10
Modes of Operation	Rotary Hammer Only Rotation Only	Rotary Hammer Only Rotation Only	Rotary Hammer Only Rotation Only	Rotary Hammer Rotation Only	Rotary Hammer Only Rotation Only
Length	14.8"	17.3"	17.4"	12.5"/13.6"	15.75"
Weight	6.4 lbs.	6.7 lbs.	6.9 lbs.	7.7/7.9 lbs.	10.3 lbs.



Quick Tool Reference Guide

For medium and large rotary hammers or demolition hammers.

For medium and large rotary hammers or demolition hammers.



Item #	11240	11247	11264EVS	11265EVS	11263EVS	11245EVS
Drive System						
Hammer Classification	Combination	Combination	Combination	Combination	Combination	Combination
Amperage	10	10	13	13	13.5	14
Impact Energy (ft.-lbs.)	5.2	5.2	6.8 / 8.1 (turbo+)	6.8 / 8.1 (turbo)	9.6 / 11.1	13.3
Max. Concrete Capacity	1-9/16"	1-9/16"	1-5/8"	1-5/8"	1-3/4"	2"
Optimal Range	1/2"-1-3/8"	1/2"-1-3/8"	1/2"-1-7/16"	1/2"-1-7/16"	5/8"-1-9/16"	3/4"-1-3/4"
Thru Hole Bits	2-1/2"	2-1/2"	2-9/16"	2-9/16"	3-1/8"	3-1/8"
Core Bits	4"	4"	4-1/8"	4-1/8"	6"	6"
No Load RPM	400	400	170-340	170-340	145-280	120-250
No Load BPM	3,000	3,000	1,700-2,900	1,700-2,900	1,350-2,800	1,100-2,500
Bosch Vibration Control	No	No	Hammer Mechanism and Handle	Hammer Mechanism and Handle	No	No
**Vibration Levels m/s ²	—	—	10.0	10.0	—	—
Modes of Operation	Rotary Hammer Only	Rotary Hammer Only	Rotary Hammer Only	Rotary Hammer Only	Rotary Hammer Only	Rotary Hammer Only
Length	17.25"	17.25"	19.25"	19.25"	21"	23.5"

Item #	11387	11388	11321EVS	11316EVS	11317EVS	11335K	BH2760VC/ BH-2760VCB/ BH-2760VCD
Drive System							
Hammer Classification	Demolition	Demolition	Demolition	Demolition	Demolition	Breaker	Breaker
Amperage	10	10	13	14	12.8	15	15
Impact Energy (ft.-lbs.)	5.9	5.9	9.6	4.4-18.4	4-16.5	34	49.5 ft.-lbs.*
BPM	2,800	2,800	1,300-2,900	900-1,890	850-1,800	1,300	1,000
Bosch Vibration Control	No	No	Hammer Mechanism and Handle	No	No	Hammer Mechanism and Handle	Hammer Mechanism and Handle
**Vibration Levels m/s ²	—	—	8.0	—	—	10.8	8.0
Modes of Operation	Hammer Only	Hammer Only	Hammer Only	Hammer Only	Hammer Only	Hammer Only	Hammer Only
Length	17.5"	17.5"	18.6"	22.5"	22"	30.4"	30.5"
Weight	12.0 lbs.	11.6 lbs.	12.8 lbs.	22.5 lbs.	22.0 lbs.	38.0 lbs.	65.0 lbs.

For medium and large rotary hammers or demolition hammers.

For medium and large rotary hammers or demolition hammers.

For large breaker or demolition hammers.

For large breaker or demolition hammers.



Bosch 4-1/2" Angle Grinder
AG40-85P



- Patented multi-grip paddle switch - allows multiple grip positions for optimal comfort and control
- Robust 8.5 Amp 11,500 RPM motor - power and performance demanded by a professional
- Two-position vibration control handle - reduces vibration, providing uncompromising user comfort
- Directed air flow - diverts dust away from switch and vital components to extend tool life
- Service Minder™ brushes - eliminates guesswork, stops tool when preventative maintenance is required
- Gear housing rotates 90 degrees - for better ergonomics and control in cutting applications
- Ergonomic housing - increases comfort and control for extended usage
- Epoxy coated field windings - provides ultimate protection against abrasive dust and metal debris

Bosch 4-1/2" Angle Grinder
AG40-11P



- Patented multi-grip paddle switch - allows multiple grip positions for optimal comfort and control
- High-performance 11 Amp 11,500 RPM motor - power and performance demanded by a professional
- Electronic clutch - shuts down the motor if the wheel gets into a sudden bind situation
- Overload protection - shuts off tool to reduce over heating and motor damage
- Constant Response™ circuitry - maintains constant speed under load
- Soft start - reduces start-up torque to protect motor
- Restart protection - protects against an automatic restart after a power interruption
- Two-position vibration control handle - reduces vibration, providing uncompromising user comfort
- Directed air flow - diverts dust away from switch and vital components to extend tool life

Bosch 7" / 9" Large Angle Sander
1853-5



- 15 Amp, 5,000 RPM
- Vibration control side and main handles — reduces vibration up to 60%, providing uncompromising user comfort for extended periods of work
- Metal gear cover — maximum durability
- Lock-on/off switch — for extended use applications
- AC/DC capability — extends the versatility of the tool by working from DC outlets such as welders and generators
- Epoxy-coated field windings — provides ultimate protection against abrasive dust and metal debris
- Precision spiral bevel gears — quality engineering and construction for smooth power transmission
- Service minder brushes — eliminate guesswork, stops tool when preventive maintenance is required


BOSCH Hammer Drill & Demo Accessories


Bushing Tool



Bushing Head Shank



Pointed Spade



Flat Chisel



Slotting Tool



Tamper Plate



Scaling Chisel



Seam Tool



Tamper Plate Shank



Bull Point



Clay Spade



Bushing Head



Scraping Chisel



Ground Rod Driver



Power Saws

SKILSAW Power Tools Expands Product Line with New SKILSAW 10-1/4 Inch Worm Drive



Designed and built with the legendary SKILSAW heritage, the new SKILSAW 10-1/4 inch Worm Drive Saw offers the same powerful performance and hardworking character that has made SKILSAW worm drives the jobsite standard. This is the only 10-1/4 inch worm drive saw designed to cut 4x material smoothly and cleanly in one pass. The 10-1/4 inch worm drive saw dubbed "Sawsquatch" also features the recently unveiled brand identity and logo. It marks the brand's second expansion of the professional line of tools focused on cutting.

MAG77LT 7-1/4 In. Worm Drive



The MAG77LT magnesium worm drive SKILSAW® continues the long tradition of quality, rugged durability and consistently exceptional cutting performance. The MAG77LT weighs in at 11.5 lbs., 4 lbs. less than the original SHD77, making it the lightest worm drive saw on the market. New features have also been added to make this the world's best cutting tool.

Lighter magnesium construction (4 lbs. lighter than SKIL® SHD77), reduces user fatigue for less down time
Cut-Ready™ depth of cut system helps with quick, accurate depth measurements
53° bevel allows users to complete a wider variety of cuts
A multi-function wrench has a variety of uses for convenience on the jobsite

EK6101 Power Cutter, Dry Cut, 14in Blade dia, 61cc



Power Cutter, Cutting Type Dry Cut, Blade Dia. 14 In., Arbor Size 1 In., Depth of Cut 5-1/8 In., Max. RPM 4400, HP 4.4, Motor Type 2-Cycle Gasoline, Engine Displacement 61cc, Engine Brand Makita, Fuel Tank Capacity 23.6 oz, Tool Weight 19.6 lb., Height 14 In., Application Construction, Includes Universal Wrench, Torque Wrench, Carburetor Screwdriver, Adapter Ring.

MM4 350mm disc Chainsaw MAKITA - EK7651H



Thermal chainsaw 350mm durable and easy to use, the 4-stroke engine is a first mondialeans for this type of machine. Advanced 4-stroke engine Makita MM4 offers reduced fuel consumption and emission rates, a more pleasant sound and a lifetime greater than the comparable 2-stroke engines. Excellent reliability of the innovative lubrication system oil vapor, making intensive lubrication of the cylinder in any position and regardless of the fuel mix; pistons tight because of incorrect fuel mixture or incorrect carburettor adjustment thing of the past.

58390 SAW SPEEDICUT 14"



- 12" or 14" blade capacity
- 5-stage filtration system
- Fully adjustable blade guard
- Smooth start decompression
- Best power-to-weight ratio
- Light weight and balanced

Diamond Products 85390 CC1213HS-14 18" Gas Walk Behind Concrete Saw 13Hp Honda Motor / 18" Guard



- 18" maximum blade capacity
- 6-5/8" maximum cutting depth
- Heavy duty design
- Slip-on blade guard
- Left or right side sawing
- Screw feed raise & lower
- Cyclone air filter

We are here to help if you need anything!

Feel free to call if you have any questions!

THE ORIGINAL DUST MUZZLE™

The original Dust Muzzle that we patented in 1991 is grinder specific. Each Dust Muzzle is made to fit the bearing housing of one brand of grinder. If you do not need a universal Dust Muzzle System, this is the most economical dust collector. Refer to the cross reference to determine which model Dust Muzzle is the correct one for your grinder.

THE UNIVERSAL DUST MUZZLE

The Universal Dust Muzzle comes in three sizes and can be bought separately. Like the original Dust Muzzle, it uses the centrifugal forces created by the grinding wheel to force the dust out of the side exhaust port. When connected to any standard 2 hp vacuum the Dust Muzzle can remove up to 95% of the pollutants at the point of origin.



The Original Dust Muzzle

THE JAW MUZZLE SYSTEM

The Jaw Muzzle system is a dust collection system that consists of a universal adapter ring and a universal Dust Muzzle. The Jaw Muzzle system comes in three sizes. The Jaw Muzzle 56 (JMS56) fits grinders with round bearing housings that use 4-5" discs and wheels. The Jaw Muzzle 778 (JMS778) fits grinders with round bearing housings that use 7" discs and wheels and the Jaw Muzzle 878 (JMS878) fits grinders with round bearing housings that use 7" discs and wheels.



The Jaw Muzzle

THE DUST MUZZLE CRACK CHASER AND CUTTING SYSTEM

The Dust Muzzle can be fitted with a cover plate that allows it to act as a point of origin Dust collector when using diamond crack chasing and cutting blades with diameters from 4" -7". The Crack Chaser and Cutting System comes in two sizes, 5" and 7".

SAW MUZZLE

SAVE YOUR LUNGS AND EXTEND THE LIFE OF YOUR SAW.

- OVER 95% EFFICIENT FOR:
Concrete, Fibreglass & Wood
- Installs in under 3 minutes
- Does not obstruct view
- Extends the life of your saw

The Saw Muzzle is a set of carefully designed baffles and a specially machined bolt that allows the operator to convert any 7-1/4" Skil or Bosch worm drive saw into a dustless tool in under 3 minutes. It is made of heavy duty fiber-filled ABS plastic and will last the lifetime of your saw. The Saw Muzzle uses the same 1-1/4" vacuum pickup as all our other dust collection products.



Hammer Drills - Gas Blower - Reciprocating Saw



SKU: XT248

Makita LXT 18V Cordless Lithium-Ion Brushless Hammer Drill & Impact Driver Combo Kit

Makita is the innovation leader in brushless motor technology, and the XT248 Combo Kit gives you two BL Brushless Motor solutions that deliver up to 50% longer run time, increased power and speed, and longer tool life. The XT248 includes a BL Brushless Motor Hammer Driver-Drill which delivers 530 in. lbs. of torque and Impact Driver that delivers 1,420 in. lbs. of torque, so it's everything you'll need for most drilling, hammer drilling, driving and fastening applications. And they're powered by Makita's fast-charging 18-Volt LXT Lithium-Ion battery. The XT248 is part of Makita's growing 18-Volt LXT cordless line-up, with 65 Plus tools powered by one 18-Volt Lithium-Ion battery that reaches a full charge in only 30 minutes.



SKU: BBx7600N

Makita 75.6 cc MM4 Backpack Blower

Features:

- Powerful and fuel efficient 75.6 cc. 4-stroke commercial duty engine
- Mechanical automatic engine decompression for quicker, easier starts
- Padded shoulder straps and back panel for improved operator comfort
- Compact design with less weight (22.6lbs.) for easier operation in confined areas
- Oil filling port and drain plug are easily accessible
- Large capacity muffler ensures quieter operation 64dB(A)
- High air volume (526 CFM) and air speed (196 MPH) for commercial-duty performance



1/2" Hole-Hawg® Drill
300/1200 RPM

Setting the standard for large-hole drilling in tight spaces. The 1/2" Hole-Hawg® Drill offers power and torque in a compact design that makes it perfect for drilling between studs

and joists. The powerful motor features two speed ranges plus reverse for increased versatility. The drill offers a 4-5/8" self-feed bit capacity and an extra long pipe handle to help you control power.

SKU: 1675-6



SKU: 6519-35

12-Amp Sawzall Reciprocating Saw with Case

The Milwaukee 6519-31 Sawzall Recip Saw delivers best in class cut speed, durability and power with 0-3000 strokes per minute, a 1-1/8 stroke length and a powerful 12-Amp motor. The gear protecting clutch extends gear and motor life by absorbing high impact forces and a QUIK-LOK blade clamp offers fast tool-free blade changes. To provide greater user comfort, a counter weighted mechanism reduces vibration for smoother operation.



SKU: 6538-21

15-Amp Super Sawzall Reciprocating Saw

The Milwaukee 15 Amp Super SAWZALL Reciprocating Saw uses Constant Power Technology to maintain constant speed and power under load for unmatched cutting performance.



Generac 5982 GP3250
3250Watt 206cc Portable Gas
Powered Generator (CSA
Approved)

- Emergency generator: Restore power to a refrigerator and sump pump during a blackout
- Generac OHV air-cooled engine.
- Splash lubrication provides longer engine life
- Low oil shutdown prevents engine damage



Generac Power Systems 5934
Professional Series Portable
Generator with Electric Start,
6500-watt

- Generac's OHVI engine incorporates full-pressure lubrication with an automotive-style spin-on oil filter for long engine life
- Electric start with manual pull start backup, battery included
- Idle control conserves fuel for extended run times and reduces noise
- TruePower technology provides clean, smooth operation with less than 5% total harmonic distortion
- Full-wrap, heavy-duty, 1-1/4" steel tube cradle for added durability and strength, and integrated lifting eye for easy transport and security on the job site



Generac 6116 4,000 PSI Pressure
Washer 3/8 Inch by 35-Foot
Replacement Hose

- 3/8-Inch by 35-foot Generac steel reinforced polyurethane QC connect replacement hose
- Steel reinforced polyurethane hose is non-marring, resistant to weather, abrasions and kinks
- Ideal for washing SUVs and boats
- Designed to work with many brands of pressure washers up to 4000-PSI with standard QC connections



Generac 5842 iX1400 1,400
Watt 4-Stroke OHV Gas
Powered Portable Inverter
Generator (CARB Compliant)

- Up to 40% lighter than a standard generator of equal watts
- FlexPower to save fuel, reduce noise and safely power sensitive electronics
- Low oil shutdown protection prevents engine from damage
- LED indicator lights on the control panel indicate system status
- Electronic circuit breakers protect against overloads



Generac 6607 3,100 PSI 2.8 GPM
212cc OHV Gas Powered
Commercial Pressure Washer

- Pro-Grade Triplex Pump - Up to 4X longer life than axial cam pumps
- Powerful 212cc Generac OHV Engine -
- Delivers maximum cleaning performance and reliability
- Low-Oil Shutdown Sensor - Safeguards the engine



Generac 6130 4,000 PSI Pressure
Washer Twin Barrel Premium Replace-
ment Spray Gun

- Twin barrel premium spray gun is rated up to 4000-PSI
- Made with a thick padding cushion grip for greater comfort
- Accepts the side grip Generac 6131 Accessory
- Handle (sold separately)
- Easy-pull trigger reduces hand fatigue
- Comes with a 90-day limited warranty

Drive Pins

.300" Headed Fasteners with .145" Shank Diameter - Mechanically Galvanized

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDP-200MG	2	.300"	.145"	1,000
PDP-250MG	2 1/2	.300"	.145"	1,000
PDP-300MG	3	.300"	.145"	1,000

Mechanical Galvanizing meets ASTM B695, Class 65, Type 1. *Up to 2 1/2", **Up to 1 1/2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L*, PTP-27S**, PT-27*
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721**, D-60, U-2000, System 1, System 3 and most other low velocity tools



316 Stainless Steel .300" Headed Fasteners with .145" Shank Diameter and 1" Metal Washers*

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPWL-100SS	1	.300"	.145"	1,000
PDPWL-125SS	1 1/4	.300"	.145"	1,000
PDPWL-150SS	1 1/2	.300"	.145"	1,000
PDPWL-200SS	2	.300"	.145"	1,000
PDPWL-250SS	2 1/2	.300"	.145"	1,000
PDPWL-300SS	3	.300"	.145"	1,000
PDPWL-400SS	4	.300"	.145"	1,000

*Washers are 304 Stainless Steel, **Up to 2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L PTP-27S** PT-27,
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721**, D-60, U-2000, System 1, System 3 and most other low velocity tools



.300" Headed Fasteners with .145" Shank Diameter and 3/4" Metal Washers

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPW-75	3/4	.300"	.145"	1,000
PDPW-100	1	.300"	.145"	1,000
PDPW-125	1 1/4	.300"	.145"	1,000
PDPW-150	1 1/2	.300"	.145"	1,000
PDPW-200	2	.300"	.145"	1,000
PDPW-250	2 1/2	.300"	.145"	1,000
PDPW-300	3	.300"	.145"	1,000

*Up to 2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L*, PTP-27S**, PT-27*
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721**, D-60, U-2000, System 1, System 3 and most other low velocity tools



.300" Headed Fasteners with .177" Shank

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPH-200MG	2	.300"	.177"	1,000
PDPH-250MG	2 1/2	.300"	.177"	1,000
PDPH-300MG	3	.300"	.177"	1,000

Mechanical Galvanizing meets ASTM B695, Class 65, Type 1. *Up to 2 1/2", **Up to 1 1/2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PT-27HD, PT-27
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721*, D-60, U-2000, System 1, System 3 and most other low velocity tools



.300" Headed Fasteners with .145" Shank Diameter and 1" Metal Washers - Mechanically Galvanized with Protective Sleeve

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPWL-200MG	2	.300"	.145"	1,000
PDPWL-250MG	2 1/2	.300"	.145"	1,000
PDPWL-300MG	3	.300"	.145"	1,000
PDPWLS-300MG	3	.300"	.145"	1,000

Mechanical Galvanizing meets ASTM B695, Class 65, Type 1. *PDPWLS has a square washer.

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PTP-27S*, PT-27
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721*, D-60, U-2000, System 1, System 3 and most other low velocity tools



.300" Headed Fasteners with .145" Shank

MODEL	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPWL-100	1	.300"	.145"	1,000
PDPWL-125	1 1/4	.300"	.145"	1,000
PDPWL-150	1 1/2	.300"	.145"	1,000
PDPWL-200	2	.300"	.145"	1,000
PDPWL-250	2 1/2	.300"	.145"	1,000
PDPWL-300	3	.300"	.145"	1,000
PDPWL-300M	3	.300"	.145"	1,000
PDPWL-400	4	.300"	.145"	1,000

*Up to 2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PTP-27S*, PT-27
PT-22P, PT-22, PT-22GS, PT-22H

Others: 721*, D-60, U-2000, System 1, System 3 and most other low velocity tools



.300" Headed Fasteners with 1" Metal Washers with .177" Shank Diameter

MODEL.	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPHWL-100	1	.300"	.177"	1,000
PDPHWL-125	1 1/4	.300"	.177"	1,000
PDPHWL-150	1 1/2	.300"	.177"	1,000
PDPHWL-200	2	.300"	.177"	1,000
PDPHWL-250	2 1/2	.300"	.177"	1,000
PDPHWL-300	3	.300"	.177"	1,000
PDPHWL-400	4	.300"	.177"	1,000



.300" Headed Fasteners with .145" Shank Diameter and 1 7/16" Metal Washers

MODEL.	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PINWP-100W	1	.300"	.145"	500
PINWP-125W	1 1/4	.300"	.145"	500
PINWP-150W	1 1/2	.300"	.145"	500
PINWP-175W	1 3/4	.300"	.145"	500
PINWP-200W	2	.300"	.145"	500
PINWP-250W	2 1/2	.300"	.145"	500
PINWP-300W	3	.300"	.145"	500



*Up to 2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PTP-27S, PT-27, PT-27HD, PT-22P, PT-22, PT-22GS, PT-22H

Others: 721*, D-60, U-2000, System 1, System 3 and most other low velocity tools

*Up to 2"

Compatible Tools:

Simpson Strong-Tie: PTP-27L* PT-27* PT-22P, PT-22, PT-22GS, PT-22H

Others: 721*, D-60, U-2000, System 1, System 3 and most other low velocity tools

.300" Headed Fasteners with .145" Shank Diameter and 1 7/16" Metal Washers

MODEL.	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PINW-100	1	.300"	.145"	500
PINW-125	1 1/4	.300"	.145"	500
PINW-150	1 1/2	.300"	.145"	500
PINW-175	1 3/4	.300"	.145"	500
PINW-200	2	.300"	.145"	500
PINW-225	2 1/4	.300"	.145"	500
PINW-250	2 1/2	.300"	.145"	500
PINW-300	3	.300"	.145"	500



.300" Headed Tophat Fasteners with .145" Shank Diameter

MODEL.	SHANK LENGTH	HEAD DIA	SHANK DIA	STD. CTN.
PDPT-50K	1/2 Knurled	.300"	.145"	1,000
PDPT-62K	5/8 Knurled	.300"	.145"	1,000
PDPT-75	3/4	.300"	.145"	1,000
PDPT-100	1	.300"	.145"	1,000



Compatible Tools:

Simpson Strong-Tie: PTP-27L, PT-27, PT-22P, PT-22, PT-22GS, PT-22H

Others: 721, D-60, U-2000, System 1, System 3 and most other low velocity tools

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PTP-27S, PT-27, PT-22, PT-22P, PT-22GS, PT-22H

Others: 721, D-60, U-2000, System 1, System 3 and most other low velocity tools

If you don't find what you need in this catalog give us a call, we cannot list everything we sell in these pages

Powder Loads

.22 CALIBER "A" CRIMP LOADS – SINGLE SHOT

MODEL	DESCRIPTION	PACK QTY	CARTON QTY.
P22AC1	.22 Cal. - Gray (Level 1)	100	10,000
P22AC2	.22 Cal. - Brown (Level 2)	100	10,000
P22AC2A-R100	.22 Cal. - Brown (Level 2)	100	100
P22AC3	.22 Cal. - Green (Level 3)	100	10,000
P22AC3A-R100	.22 Cal. - Green (Level 3)	100	100
P22AC4	.22 Cal. - Yellow (Level 4)	100	10,000
P22AC4-R100	.22 Cal. - Yellow (Level 4)	100	100



27 CALIBER SINGLE SHOT LOADS – LONG

MODEL	DESCRIPTION	PACK QTY	CARTON QTY.
P27LVL3	.27 Cal. - Green (Level 3)	100	10,000
P27LVL4	.27 Cal. - Yellow (Level 4)	100	10,000
P27LVL5	.27 Cal. - Red (Level 5)	100	10,000
P27LVL6	.27 Cal. - Purple (Level 6)	100	10,000



Compatible Tools:
DX-35, R35S

Compatible Tools:

Simpson Strong-Tie: PT-22, PT-22GS, PT-22H

Others: 721, U-2000, DX-37E, DX72E, 4170 and model 70, System 3 and most lowvelocity, single-shot tools

.22 CALIBER STRAIGHT WALL LOADS – SINGLE SHOT

MODEL	DESCRIPTION	PACK QTY	CARTON QTY.
P22AC1	.22 Cal. - Gray (Level 1)	100	10,000
P22AC2	.22 Cal. - Brown (Level 2)	100	10,000
P22AC2A-R100	.22 Cal. - Brown (Level 2)	100	100
P22AC3	.22 Cal. - Green (Level 3)	100	10,000
P22AC3A-R100	.22 Cal. - Green (Level 3)	100	100
P22AC4	.22 Cal. - Yellow (Level 4)	100	10,000
P22AC4-R100	.22 Cal. - Yellow (Level 4)	100	100



27 CALIBER PLASTIC, 10-SHOT STRIP LOADS

MODEL	DESCRIPTION	PACK QTY	CARTON QTY.
P27SL2	.27 Cal. - Brown (Level 2)	100	10,000
P27SL2A-R100	.27 Cal. - Brown (Level 2)	100	100
P27SL3	.27 Cal. - Green (Level 3)	100	10,000
P27SL3A-R100	.27 Cal. - Green BULK PACK	100	100
P27SL3M	.27 Cal. - Yellow (Level 4)	1,000	5,000
P27SL4	.27 Cal. - Yellow (Level 4)	100	10,000
P27SL4A-R100	.27 Cal. - Yellow BULK PACK	100	100
P27SL4M	.27 Cal. - Red (Level 5)	1,000	5,000
P27SL5	.27 Cal. - Red (Level 5)	100	10,000
P27SL5A-R100	.27 Cal. - Red BULK PACK	100	100
P27SL5M	.27 Cal. - Purple (Level 6)	1,000	5,000
P27SL6	.27 Cal. - Purple (Level 6)	100	10,000

Compatible Tools:

Simpson Strong-Tie: PTP-27L, PTP-27MAGR, PTP-27S, PTP-27SMAGR, PT-27

Others: DX-350, DX-351, DX-36, DX-A40 (except PT27SL2), DX-A41 (except PT27SL2 and PT27SL3), DX-460, DX-450, DX-451, System 1H, P-36B, A-40B, A-41B, Cobra and most .27 caliber-clone tools

DX-450, DX-451, DX-A41



P27SL

25 CALIBER PLASTIC 10-SHOT STRIP LOADS

MODEL	DESCRIPTION	PACK QTY	CARTON QTY.
P25SL3	25 Cal. - Green (Level 3)	100	10,000
P25SL3M	25 Cal. - Green BULK PACK	1,000	5,000
P25SL4	.25 Cal. - Yellow (Level 4)	100	10,000
P25SL4M	.25 Cal. - Yellow BULK PACK	1,000	5,000
P25SL5	25 Cal. - Red (Level 5)	100	10,000
P25SL5M	25 Cal. - Red BULK PACK P	1,000	5,000



P25SL

MCS
Delivering the Solid Support You Expect

Receptacle and Plugs - Adapters - Cords

NEMA 5-15R NYLON MALE
REPLACEMENT RECEPTACLE, UL
APPROVED



12-00225 12-00226

NEMA L5-20P NYLON MALE
REPLACEMENT PLUG, UL
APPROVED



12-00229 12-00230

NEMA L5-20P NYLON MALE
REPLACEMENT PLUG, UL

VOLTEC 50 AMP RECEPTACLE



VOLTEC 50 AMP PLUG

VOLTEC 50 AMP PLUG

12-00242



12-00243

VOLTEC 50 AMP RECEPTACLE



12-00225

OUTDOOR 90 DEGREE 3 OUTLET
WALL TAP ADAPTER, 5-15P TO (x3)
5-15R, UL APPROVED



04-00090

U-Ground Power Block Adapter, 2Ft
12/3 600V Stw Cable Yellow, 5-15P To
(X3) 5-15R Lighted End, 15 Amp 1875
Watt Power Rating, UI Approved



04-00092N

U-Ground To Twist Lock Cord
Adapter, 1Ft 12/3 300V Stw Cable,
5-15P To L5-20R, 15 Amp 1875 Watt
Power Rating, UI Approved



04-00093N

Twist Lock To U-Ground Cord
Adapter, 1Ft 12/3 300V Stw Cable,
L5-20P To 5-15R, 15 Amp 1875 Watt
Power Rating, UI Approved



04-00095

Twist Lock Y Adapter, 2Ft 12/3
600V Stw Cable Yellow, L5-20P
To (X2) L5-20R Lighted Ends, 20
Amp 2500 Watt Power Rating,
UI Approved



04-0092G

Twist Lock To U-Ground Inline Gfci, 3Ft
12/3 600V Stw Cable Yellow With Blue
Stripe, L5-20P To 5-15R Lighted End, Gfci
Module Rated For 20 Amp, 15 Amp 1875
Watt Power Rating, UI Approved



040093G

U-Ground To Twist Lock Inline Gfci,
3Ft 12/3 600V Stw Cable Yellow With
Blue Stripe, 5-15P To L5-20R Lighted
End, Gfci Module Rated For 20 Amp,
15 Amp 1875 Watt Power Rating, UI
Approved



04-00102

U-Ground Inline Gfci With Power
Block, 3Ft 12/3 600V Stw Cable
Yellow With Blue Stripe, 5-15P To
(X3) 5-15R Lighted End, Gfci Module
Rated For 20 Amp, 15 Amp 1875
Watt Power Rating, UI Approved



04-00104

Twist Lock Inline Gfci, 3Ft 12/3
600V Stw Cable Yellow With Blue
Stripe, L5-20P To L5-20R, Gfci
Module Rated For 20 Amp, 15
Amp 1875 Watt Power Rating, UI
Approved



Marinco 50 Amp Plug
09-00435

Extension Cords



04-00103

U-Ground Inline Gfci, 3Ft 12/3 600V Stw Cable Yellow With Blue Stripe, 5-15P To 5-15R Lighted End, Gfci Module Rated For 20 Amp, 15 Amp 1875 Watt Power Rating, UI Approved



06-00167

50Ft 12/3 600V Stw Twist Lock Extension Cord, Yellow, L5-20P To L5-20R, 20 Amp 2500 Watt Power Rating, UI Approved



05-00366

100Ft 12/3 300V Sjt看 Extension Cord, Yellow With Blue Stripe, 5-15P To 5-15R Clear Lighted End, 15 Amp 1875 Watt Power Rating, UI Approved



05-00114

50Ft 12/3 300V Sjt看 Extension Cord, Neon Green With Black Stripe, 5-15P To 5-15R Clear Lighted End, 15 Amp 1875 Watt Power Rating, UI Approved



05-00152

50Ft 12/3 300V Sjt看 Extension Cord, Neon Pink With Lime Green Stripe, 5-15P To 5-15R Clear Lighted End, 15 Amp 1875 Watt Power Rating, UI Approved



Gfci Quad Box, 3Ft 12/3 600V Stw Cable, 5-15P To (X4) 5-20R, Nema 3R Rated, 20 Amp Rated Inline Gfci.



05-00341

25Ft 14/3 300V Sjt看 Extension Cord, Orange With Black Stripe, 5-15P To 5-15R Clear Lighted End, 15 Amp 1875 Watt Power Rating, UI Approved



Gfci Quad Box, 3Ft 12/3 600V Stw Cable, 5-15P To (X2) 5-20R (X2) L5-20R, Nema 3R Rated, 20 Amp Rated Inline Gfci.



05-00124

50Ft 12/3 300V Sjt看 Power Block Extension Cord, Yellow With Blue Stripe, 5-15P To (X3) 5-15R Clear Lighted End, 15 Amp 1875 Watt Power Rating, UI Approved



05-00231

100Ft 12/3 300V Sjt看 Twist Lock Extension Cord, Black, L5-20P To L5-20R, 15 Amp 1875 Watt Power Rating, UI Approved



500 Watt Halogen Light Bulb
08-00031



05-00128

50Ft 12/3 300V Sjt看 Twist Lock Extension Cord, Yellow With Blue Stripe, L5-20P To L5-20R, 15 Amp 1875 Watt Power Rating, UI Approved



09-00431

50Ft 6/3-8/1 Stow Temporary Power Cord, 50 Amp 12500 Watt Power Rating.



100 Watt Rough Service "A" Base Light Bulb

08-01028

Tripod Stands - Work Lights



08-00211

1000 Watt Portable Halogen Work Light With Extendable Tripod Stand, 5Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 500 Watt Halogen Bulbs Included, UI Approved



08-00192

100Ft 12/3 Sjt看 300V Twist Lock Temporary Light String With Plastic Cages, 10 Sockets, L5-20P To L5-20R, 15 Amp 1875 Watt Power Rating, 150 Watt Bulb Rating, UI Approved



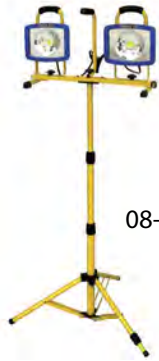
08-00400

400 Watt Pulse Start Metal Halide High Bay Area Light, 3Ft 18/3 300V Sjt看 Power Cord 5-15P, Multi-Tap Ballast To Re-Configure For 208V-240V Or 277V Applications, Vented Ballast For Cooler Operation, Automatic Spring Locking Metal Hook, Corrosion Resistant Metal Guard, Two 3 Quarter Inch Knock Outs For Optional Conduit Access, UI Approved



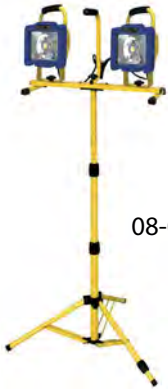
08-00713

12 Watt Cob Led Work Light, 880 Lumen, 3Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 50,000 Hour Life Span, On/Off Switch, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, UI Approved



08-00711

Dual 38 Watt Cob Led Work Light With Extendable Tripod, 7000 Lumen Total, 5Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 50,000 Hour Life Span, On/Off Switches, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, UI Approved



08-00710

Dual 22 Watt Cob Led Work Light With Extendable Tripod, 3000 Lumen Total, 5Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 50,000 Hour Life Span, On/Off Switches, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, UI Approved



08-00712

12 Watt Rechargeable Cob Led Work Light, 880 Lumen, 2Pc Lithium Rechargeable Battery, 50,000 Hour Life Span, On/Off Switch, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, Ac Charger Included, UI Approved



08-00715

38 Watt Cob Led Work Light, 3500 Lumen, 3Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 50,000 Hour Life Span, On/Off Switch, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, UI Approved



08-00210

Heavy Duty 500 Watt Halogen Work Light With Extensible Tripod Stand, 5Ft 18/3 300V Sjt看 Black Power Cord 5-15P, On/Off Switch, Removable 2 In 1 H-Style Base, Heavy Duty Face Frame, Insulated Foam Handle, 500 Watt Halogen Bulb Included, UI Approved



08-00219

500 Watt Portable Halogen Work Light, 3Ft 18/3 300V Sjt看 Black Power Cord 5-15P, S-Style Base, Insulated Foam Handle, 500 Watt Halogen Bulb Included, UI Approved



08-00714

22 Watt Cob Led Work Light, 1500 Lumen, 3Ft 18/3 300V Sjt看 Black Power Cord 5-15P, 50,000 Hour Life Span, On/Off Switch, Quick Head Adjustment Feature, 100% Die Cast Aluminum Housing, UI Approved



08-00626

3 Watt Cob Rechargeable Led Work Light, 200 Lumens, 3.7V Lithium Rechargeable Battery, 50,000 Hour Life Span, 2 Hour Run Time, 4 Hour Charge Time, Light Head Rotates 180 Degrees And Pivots 80 Degrees, 360 Degree Rotating Hook, Magnetic Base, Includes Ac & Dc Chargers

Power Box - Diamond Blades



09-00375

3 Gfci Locking Temporary Power Box, Power Inlet: 50 Amp 125/250 Volt, Power Outlet 50 Amp 125/250 Volt, (X6) L5-20R, (X1) L6-30R, Circuit Breaker Protected, Etl Approved



09-00675

6 Gfci Locking Temporary Power Box, Power Inlet: 50 Amp 125/250 Volt, Power Outlet 50 Amp 125/250 Volt, (X6) L5-20R, (X1) L6-30R, Circuit Breaker Protected, Etl Approved



11-00227

8 Outlet Metal Surge Power Strip, 1050 Joules, 6Ft 14/3 300V Sjt Cord, 5-15P To (X8) 5-15R, Yellow Body, Built In Cord Storage, Ul Approved



GRINDING DMND SPIRAL WHEEL 4\"/>

4\"/>

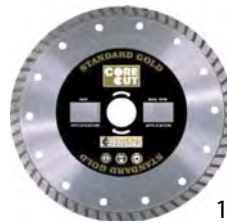
- General grinding
- Spiral turbo for a fast grind
- General removal
- Try the ring turbo style for a smoother finish
- For use on right angle grinders



04098

GRINDING DMND RING CUP 4\"/>

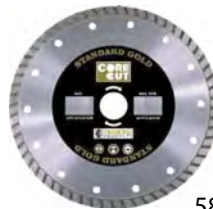
- Super aggressive due to the Multilayer Vacuum Brazed Tech
- Balanced by Dynamic Balancer;
- Swirl turbo segments for quick cooling of the working cups;
- Coarse type 30/40, used on grinders with 5/8\"/>



12489

DIAMOND BLADE 7\"/>

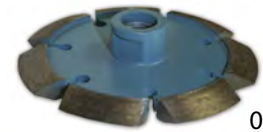
- Good quality
- Fast cutting
- Better quality diamond and better cutting value
- Continuous rim for a smooth cut
- Offer a faster cut than segmented blades due to the serrated segment design, allowing less surface to surface contact



58455

DIAMOND BLADE 14\"/>

- Good quality
- Fast cutting
- Better quality diamond and better cutting value
- Continuous rim for a smooth cut
- Offer a faster cut than segmented blades due to the serrated segment design, allowing less surface to surface contact



02739

DIAMOND CRACK CHASER 4\"/>

- Good blade life
- Cleans, routs and repairs cracks in concrete and other materials
- Fast cutting while leaving a clean groove
- Segment design provides longer life
- For use on right angle grinders



15373

DIAMOND BLADE 14\"/>

High speed blade with split segment
Cuts cured concrete, green concrete, brick, block, paver block, stone, precast, ductile iron, and asphalt
Great for general contractor or landscaper whose job is different everyday



GRINDING DIAMOND WHEEL 4\"/>

3 bonds to fit your application
Fine grit - smoothest finish
Medium grit - basic grinding and removal
Coarse grit - heavy aggressive removal



17846

GRINDING DIAMOND WHEEL 4\"/>

General grinding and medium removal with better life.



Crack Chaser 100 - Concrete and Asphalt (Premium Grade)

The "Crack Chaser 100" is for fixing cracks in concrete and asphalt. This premium crack chaser has a high concentration of high quality diamonds allowing for longer diamond blade life. Use on an angle grinder or walk behind saw wet or dry.



Heavy Duty Orange Concrete Blade

SKU	Description
58210	12" x .125
58451	14" x .125



DIAMOND PRODUCTS STANDARD GOLD WET/DRY HIGH SPEED BLADE 14" X .125" 57719

- Standard Gold High Speed Wet/Dry Blades
- For high speed, masonry, and low HP walk behind saws
- Better diamond quality and cutting value than Star Blue blades



Wet & Dry-Cut Saw Blades Blade Material: Diamond-Tipped Arbor

SKU	Description
53862	T7H

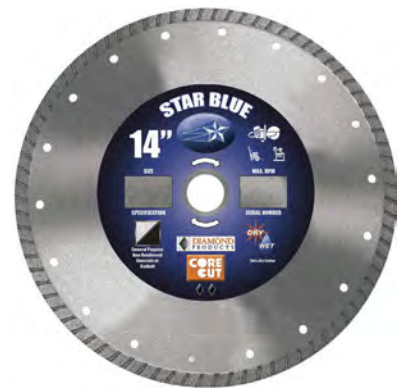
GRINDING DISC 4.5" MASONRY TYROL Silicon carbide grain

- General purpose cutting & light grinding wheels for concrete, masonry and stone
- Good cutting rate and wheel life
- High side stability for difficult applications



DIAMOND BLADE 4" DRY STAR BLUE 74950

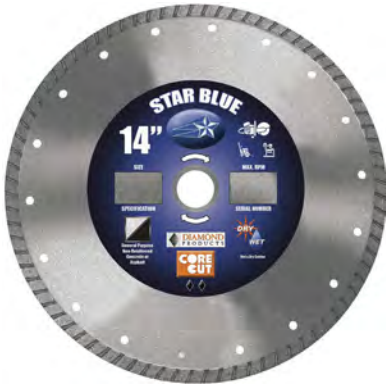
- Hard materials - concrete
- Soft, abrasive materials - asphalt, block
- * Dry cutting products can be used with water*



DIAMOND BLADE 4" STAR BLUE TURBO

- Good quality diamond and good cutting value
- Continuous rim for a smooth cut
- Offer a faster cut than segmented blades due to the serrated segment design, allowing less surface-to-surface contact

SKU	Description
74959	4"
74961	7"
85261	14"



DIAMOND BLADE 7" TURBO STAR BLUE
74961

- Good quality diamond and good cutting value
- Continuous rim for a smooth cut
- Offer a faster cut than segmented blades due to the serrated segment design, allowing less surface-to-surface contact



TUCK POINT UTILITY GRN
94184

- Better life
- General purpose
- General purpose tuck pointing in mortar joints
- For use on electric circular saws and right angle grinders



GRINDING DIAMOND WHEEL
7" 16410

Standard Gold Turbo Cup Grinders are used for general grinding and medium removal. Features spiral turbo for a fast grind, and a better grinding life. 5/8 inch to 11 or 7/8 inch arbor, and is available with 9, 10, 12, or 24 segments.



DIAMOND BLADE

- Good quality diamond and good cutting value
- Diamond depth of .394"
- Segment height of .472"

SKU	Description
SB400	14" SB400
92398	12" DRY SB



DIAMOND BLADE 4" GOLD
11344

- Very good quality and life
- Dry cutting blades for electric saws and right angle grinders
- E2S bond specification for hard materials like concrete
- 4-Inch
- Cutting value in general purpose materials with good life

We hope you are able to find the products you need! If what you need is not here, please do not hesitate to call us!

A24R - Long Life



- Aluminum oxide grain
- For general purpose grinding
- Longer life for fewer wheel changes
- For use on Metal
- 20063 - 4-1/2 x 1/4 x 7/8
- 20163 - 4-1/2 x 1/4 x 5/8-11

C24N - Concrete



- Silicon carbide grain
- Soft bond for fast stock removal
- For use on Concrete & Metal
- 20061 - 4-1/2 x 1/4 x 7/8
- 20161 - 4-1/2 x 1/4 x 5/8-11

A60S - General Purpose



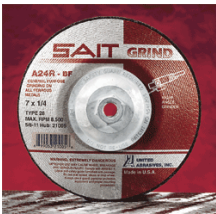
- Special aluminum oxide grain
- Hard bond for extremely long life
- Fast, burr-free cutting
- For use on Metal
- 22021 - 4-1/2 x .045 x 7/8 (T27)
- 22047 - 4-1/2 x .045 x 7/8 (T27)
- 23101 - 4-1/2 x .045 x 7/8 (T1)
- 23106 - 4-1/2 x .045 x 7/8 (T1)

C16 - Concrete



- Silicon carbide grain
- Coarse grit for tough grinding applications
- Excellent for cleaning castings, mold marks, and removing flashing
- CONCRETE** Masonry, concrete, stone

A24R General Purpose / Durability



- Special aluminum oxide grain
- Provides consistent performance with long life
- For use on Metal
- 23410 - 12 x 1/8 x 1
- 23420 - 12 x 1/8 x 20mm

SAIT Pro - Metal



- Aluminum oxide grain
- Best value for a fast cut
- For use on Metal
- 24135 - 14 x 1/8 x 1
- 24140 - 14 x 1/8 x 20mm

A24R - General Purpose



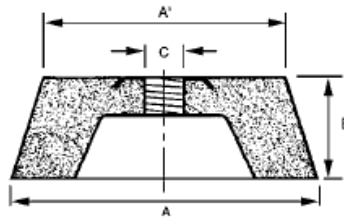
- Aluminum oxide grain
- Provides consistent performance with long life
- For use on Metal
- 23234 - 7 x 3/32 x Dia. (5/8)

CA16 - Combination



- Combination of aluminum oxide and silicon carbide grains
- Excellent for cleaning castings, mold marks, and removing flashing
- Use on combination of ferrous metals
- CONCRETE** and/or concrete materials

Hand and Floor Rubs



Type	Length	Width	Height	Description	Grade	Part Number	Qty Per Box	Lbs Per Box
HR252	6	3	1	Handle	C24R	25040	5	10
HR250	8	3-1/2	1-1/2	Handle	C24R	25050	5	19

A Dia.	A' Dia.	B Width	C Bore	Grades Available	Max RPM	Part Number	MB* Number	Qty Per Box	Lbs Per Box
4	3	2	5/8-11	CA16	9,050	26002	26005	12	24
6	4-3/4	2	5/8-11	C16	6,050	26021	26024	5	20

GROUT PUMPS

IDEAL FOR GROUTING METAL DOOR FRAMES

SPECIFICATIONS

- Models: GP-1, GP-1HD, GP-2, GP-2HD
 - Pump Type: Single Diaphragm, Self Priming
 - Power Source: Hand Operated
 - Output Capacity: 6 gallons/minute (48 cu. ft./hour)*
 - Output Pressure: 0 to 15 psi
 - Hopper Capacity: GP-1 & GP-1HD: .25 cubic foot (1.9 gallons)
GP-2 & GP-2HD: .62 cubic foot (4.6 gallons)
 - Placement Hose Size: 1 1/2" ID by 60 inches long, Clear Vinyl
 - Discharge Head: 10 foot Vertical Lift
 - Dimensions: GP-1 & GP-1HD: 22 1/2" x 10" x 14 1/2" high
GP-2 & GP-2HD: 23 1/2" x 12" x 23" high
 - Net Weight: GP-1 is 18 pounds, GP-1HD is 19 pounds
GP-2 is 20 pounds, GP-2HD is 21 pounds
- *Output and performance will vary depending on cycle rate, viscosity of the grout mixture and pressure conditions.

OPTIONS

- Hose Reducer Kits: 3/4" and 1" ID available
- 1 1/2" ID Hose Lengths: 10 foot, 15 foot and 20 foot available
- Hi-Capacity Hopper Kit: Converts GP-1 to GP-2, converts GP-1HD to GP-2HD
- Clevis Stabilizer Kit: Converts GP-1 to GP-1HD, converts GP-2 to GP-2HD
- Vertical Handle Kit: Vertical Actuator and Handle

HD PUMPS

The GP-1HD and GP-2HD models incorporate a clevis stabilizer kit which eliminates clevis "tipping". These heavy duty pumps have a much longer diaphragm life and the improved mechanical efficiency reduces pumping effort.



GP-1HD



GP-2HD



GP-6

HIGH VOLUME GROUT PUMP

IDEAL FOR GROUTING HOLLOW CONCRETE BLOCK

SPECIFICATIONS

- Model: GP6
- Pump Type: Twin Diaphragm, Self Priming
- Power Source: Hand Operated
- Output Capacity: 11 gallons/minute (88 cu. ft./hour)*
- Output Pressure: 0 to 15 psi
- Hopper Capacity: .62 cubic foot (4.6 gallons)
- Placement Hose Size: 1 1/2" ID by 60 inches long, Clear Vinyl
- Discharge Head: 10 foot Vertical Lift
- Dimensions: 16 1/2" by 25" by 24" high
- Net Weight: 34 pounds

*Output and performance will vary depending on cycle rate, viscosity of the grout mixture and pressure conditions.

OPTIONS

- 1 1/2" ID Hose Lengths: 10 foot, 15 foot and 20 foot available

Marshalltown Power Trowel Blades

Among the replacement blades for your power trowel are:



**Finish Blade for 36" (91,44cm) Machine—
6 X 14 (15,24cm X 35,56cm)**
EDI Number 17336 Part Number M6093



**Master Combination Blade for 36"
(91,44cm) Machine—
8 X 14 (20,32cm X 35,56cm)**
EDI Number 17536 Part Number M7536



**Combination Blade for 30" (76,20cm) Machine—
8 X 11 (20,32cm X 27,94cm)**
EDI Number 17230 Part Number M6219



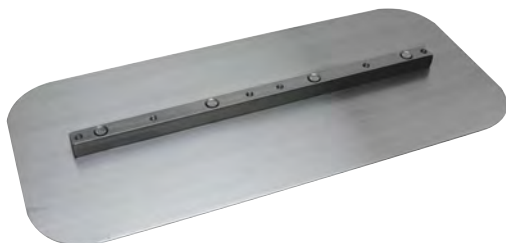
**Master Finish Blade for 36" (91,44cm) Machine—
6 X 14 (15,24cm X 35,56cm)**
EDI Number 17636 Part Number M7636



**Flat Finish Power Trowel Blades—
6 X 14 (15,24cm X 35,56cm)**
EDI Number 17340 Part Number M7340



Master Blade Pins
EDI Number 17710 Part Number M771



**Flat Finish Power Trowel Blades-Round
Corners—
8 X 18 (20,32cm X 45,72cm)**
EDI Number 17343 Part Number M7343

**Solid Support
Since 1962**



The only telescopic lock available made with **NO** standard lock assembly. With two slightly elliptical tubes, it creates its own lock assembly as it turns. *Nothing to fall out or break!*



Threaded Lock #5000 and #9000 Series

Used in #5008, #5012, #5016, #9016, #9018 and #9024 poles.

This industry favorite for over 40 years locks in only one direction and the nylon lock assembly won't freeze up after sitting out all winter.

#5000 Series Telescope Poles

The #5000 series of telescope poles comes in lengths of 8' to 16', 12' to 24' and 16' to 32'. Made of drawn tubing which is the strongest and most durable aluminum tubing made. Drawn tubing provides the most strength with the least amount of weight. Tubes are anodized clear for longer life. Tubes are 1-1/4" outside tube and 1-1/8" inside tube with wall thickness of .042". Each pole has two 1/4" holes punched on 3" centers.

The nylon lock assembly is pressed on with a ton of pressure and stays on under any application. This lock assem-

bly will hold up after being in the sun and water for many years. If needed the parts can be replaced.

This 5000 series telescope pole has been popular since 1959 with the service and commercial trades.

#5008 - 8' to 16'

#5012 - 12' to 24'

#5016 - 16 to 32'





**Concrete Tamper
Splash Away
Concrete Tamper**

No. Size
T34
7-1/2" x 34"

T46
7-1/2" x 46"

T58
7-1/2" x 58"

Fiberglass and Aluminum Handles



Fiberglass FH6 1 1/2" x 6'

Starter Connectors For 1 3/8"



SC8



ST8



SB8



SBM8

Chute Scoop

CC10754 10" x 7"



Double Roller Tamp

RRT362 - 36"



Mahogany Wood Bull Floats

WB24 6" x 24"
WB36 8" x 36"
WB48 8" x 48"



Laminated Poplar Wood Bull Float

LWBF482 7 1/4" x 4' Float



Rock Salt Roller

No. SR430
30"



Laminated Resin Glass Bull Float

LB7362 7" x 36"
LB7482 7" x 48"
LB7602 7" x 60"



Magnesium Bull Float with 4 Hole Adaptor

RM244 8" x 24"
RM364 8" x 36"
RM484 8" x 48"



Magnesium Bull Float Round with 4 Hole Adaptor

RM364RE 8" x 36"
RM484RE 8" x 48"



Simple Solutions[®]

Salt Roller Set

Traditional Method and processes are eliminated

You will no longer have to purchase salt or hand work or roll it in. The job is complete once rolling is done. This eliminates having to return the following day to powerwash the salt out. There are no streaks left by salt residue either. No other equipment is needed to produce this texture and is done without any outside power source. Reopen any joints and edge without any complications.



Big "O" Blue Steel Trowel

RT1248 12" x 48"



No. R05L

Lead weight with grooves for channel brace.

Blue Fresnos Round (with Swivels)



RF18B 5" x 18



RF24B 5" x 24"



RF36B 5" x 36"



RF48B 5" x 48"

Blue Funny Fresnos



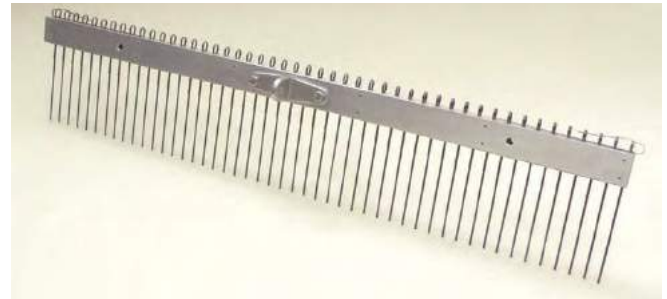
Funny Fresno

FFS524 5" x 24"

Plastic Gunitite Shoes



Flat Wire Texture Broom



36TC750	Tine Wire Broom 3/4" O.C.	36"
48TC750	Tine Wire Broom 3/4" O.C.	48"
60TC750	Tine Wire Broom 3/4" O.C.	60"

Stainless Steel Kneeboards

RSK288
28" x 8"



Stainless Steel Kneeboards w/ Rubber Pads

RSK288P
28" x 8 1/2"



Goldblatt® Knee Boards

Made from top-quality, 16 gauge, 304 grade stainless steel. Edges and corners are rounded to prevent gouging. Built-in toe brackets for controlling forward/backward movement. Special "nesting" design keeps boards together for carrying to job site and for storage. Easy to clean.

8" wide and
27-3/4" long.

Wt. 11 lbs., 10 ozs.



Mahogany Wood Hand Floats

Mahogany Wood Concrete Hand Floats

Made from the finest selected mahogany wood. A full 1/2" thick and comes with a comfortable quality wood handle.

No.	Size	Thickness
WF12	12" x 3-1/2"	1/2"
WF14	14" x 3-1/2"	1/2"
WF16	16" x 3-1/2"	1/2"
WF18	18" x 3-1/2"	1/2"



Teak Wood Hand Floats

Teak Wood Hand Floats

Lightweight long lasting 5/8" thick. This wood is a hard wood with an oily texture.

No.	Size	Thickness
TF18	18" x 3-1/2"	3/4"



Laminated Resin Glass Float

Wears like magnesium has extremely long life, broken-in design and gives an excellent float finish. With a quality heavy duty wood handle.

No.	Size
GF16	16" x 3 1/2"
GF18	18" x 3 1/2"



Laminated Resin Glass Float Rounded Front End



Laminated Resin Glass Float Rounded Both Ends

No.	Size
GF18FR	18" x 3 1/2"



Mahogany Wood Concrete Darby



MD281 28"
Mahogany Darby
with a 1 loop
handle

MD362 36"
Mahogany Darby
with a 2 loop
handle

MD453 45"
Mahogany Darby
with a 3 loop
handle

Beveled End Magnesium Darbys



RHM302	30"	2 Loop handle
RHM362	36"	2 Loop handle

Tapered Magnesium Hand Float - Darby



RMT36	36"	3 3/8" to 1 3/4"
-------	-----	------------------



The Float Hook

Manufactured in the USA

No. FH

Replacement Wood Float Handles

High lift float handle.

No. RO8HD 9 1/2"



Midget Trowels

MT35B	3" x 5"
MT36B	3" x 6"



Blue Pool Trowels with Wood Handle

BP12	3 1/2" x 12"
BP14	4" x 14"

Floor Scrapers

FS514	5" x 14"
FS518	5" x 18"
FS522	5" x 22"



Floor Scraper Replacement Blades

FS514B	5" x 14"
FS518B	5" x 18"
FS522B	5" x 22"



Concrete Finishing Tools



Concrete Spreader

CK420R
4" x 20" Complete Spreader



Curved Concrete Comealong

CKC420 4" x 20"



No. AGP824
Airplane Groover
with Rounded ends and
standard plate adaptor
8" x 24" with 1-1/4" Deep Groove

Special Ultra Hard Groover

Cast in special ultra hard iron alloy.
Tighten nut to work at any angle.
Tool is 4" x 3 1/2", makes a groove
1/4" wide, 3/8" deep, with a
quality wood handle. Note: Use
No. SC8 Attachment for
walking type.

No. RO6204L



Creating Straight Control Joints In Freshly Placed Concrete

California Groovers
36", 42", 48"

No. AG36134 36" 1 3/4" Groove Depth
No. AG42134 42" 1 3/4" Groove Depth
No. AG48134 48" 1 3/4" Groove Depth



No. AG12134 12"
1-3/4" Groove Depth
Hand Finish Tool



No. AGS361F 36" 1 3/8" Groove Depth
No. AGS421F 42" 1 3/8" Groove Depth
No. AGS481F 48" 1 3/8" Groove Depth
No. AGS36134F 36" 1 3/4" Groove Depth
No. AGS42134F 42" 1 3/4" Groove Depth
No. AGS48134F 48" 1 3/4" Groove Depth

Walking Edger V Groover Attachment

V – Groover for
5" walking edger, fresno.

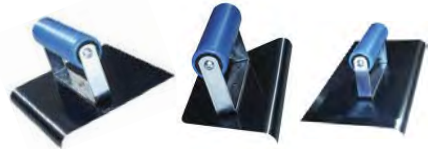
V514 5"

V – Groover for
6" walking edger.

V614 6"



Blue Crucible Hand Edgers



No.	Size	Radius
HE631	6" x 3"	1/4"
HE632	6" x 3"	3/8"
HE633	6" x 3"	1/2"
HE640	6" x 4"	1/8"
HE641	6" x 4"	1/4"
HE642	6" x 4"	3/8"
HE643	6" x 4"	1/2"
HE645	6" x 4"	3/4"
HE646	6" x 4"	1"
HE660	6" x 6"	1/8"
HE661	6" x 6"	1/4"
HE662	6" x 6"	3/8"
HE665	6" x 6"	3/4"

Blue Crucible Steel Walking Edgers:

No.	Size	Radius
WE940	9" x 4"	1/8"
WE941	9" x 4"	1/4"
WE942	9" x 4"	3/8"
WE943	9" x 4"	1/2"
WE945	9" x 4"	3/4"
WE946	9" x 4"	1"
WE960	9" x 6"	1/8"
WE961	9" x 6"	1/4"
WE962	9" x 6"	3/8"
WE963	9" x 6"	1/2"
WE965	9" x 6"	3/4"
WE966	9" x 6"	1"
WE980	9" x 8-1/2"	1/4"
WE982	9" x 8-1/2"	3/8"
WE983	9" x 8-1/2"	1/2"

Stainless Steel Edger-Groovers



No.	Size	Radius	Groove
EG6H	6"	1/2"r	
EG8H	8"	1/2"r	
EG12H	12"	1/2"r	



No.	Size	Radius	Groove
EG6W	6"	1/2"r	1/4"
EG8W	8"	1/2"r	1/4"
EG12W	12"	1/2"r	1/4"

Man Hole Lifter

Wire Mesh Lifter



Handles

WE5 5'



Blue Crucible Steel Step Tools



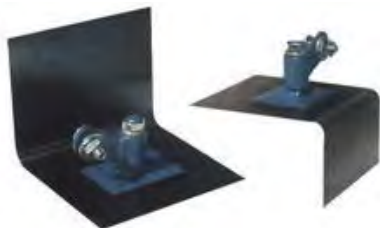
Blue Crucible Step Tools: Hand Type

OUTSIDE NOSE STEP TOOL 90°

No.	L. x W.	Drop	Radius
SN6512	6" x 5"	3-1/2"	1/2"
SN6534	6" x 5"	3-1/2"	3/4"
SN6501	6" x 5"	3-1/2"	1"

INSIDE COVE STEP TOOL 90°

No.	L. x W. x H.	Radius
SC6512	6" x 5" x 6"	1/2"
SC6534	6" x 5" x 6"	3/4"
SC6501	6" x 5" x 6"	1"



OUTSIDE NOSE STEP TOOL 90°

No.	L. x W.	Drop	Radius
SN6512W	6" x 5"	3-1/2"	1/2"
SN6534W	6" x 5"	3-1/2"	3/4"
SN6501W	6" x 5"	3-1/2"	1"

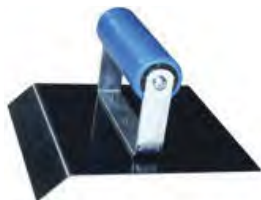
INSIDE COVE STEP TOOL 90°

No.	L. x W. x H.	Radius
SC6512W	6" x 5" x 6"	1/2"
SC6534W	6" x 5" x 6"	3/4"
SC6501W	6" x 5" x 6"	1"

Chamfer Edgers

Hand Edger

HC665
6" x 6" 3/4"
z



Walking Tool

WC965
9" x 6" 3/4"

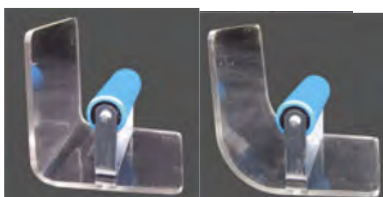


Plastic Step Tools



OUTSIDE SHORT NOSE TOOL

No.	Size	Radius
PST120	6" x 5" 2 -1/2"	1/2"
PST340	6" x 5" 2 -1/2"	3/4"



INSIDE COVE TOOL

No.	Size	Radius
PST121	6" x 5" x 5"	1/2"
PST341	6" x 5" x 5"	3/4"

Hand Ramp Multiple Groover with Edger

WR613BHR 3/4" O.C.



Walking Ramp Multiple Groover with Edger

WR613BWR 3/4" O.C.



Safety Wheel Chair Ramp Tools

3/4" O.C. 16 GROOVE BORDER TOOL

WR613BH Hand border tool 3/4" O.C.



Magnesium Asphalt Lute with Braces

LBO36
Braces for 36" Lute



Poured In Place Cantilever Form Tools

No. SAN6
Sandstone Form Tool



Touch up Tool



Intermediate Step 2 1/4"
1 1/4" deep



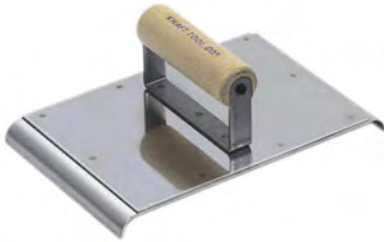
Release Applicator - Concrete Coloring

Release Applicator



No. SSP18
Includes handle connector.

**WE
DELIVER**



Decorative Concrete Border Tools

(Edger Groover Combination)

- Single edger with double groover 9" spacing w/3" shiner 1/2" R, 5/8" bits
- Double edger with groover 9" spacing 1/2" R, 5/8" bit
- Double edger 9" x 6" 1/2" R
- Single edger with groover 9" spacing w/3" shiner 1/2" R, 5/8" bit



Bronze Chamfer Tube Edger

These specially

designed Chamfer Tube Edgers are used for creating chamfered edges on round support piers. The degree of slope on the pier edge can be varied depending upon wetness of the concrete and angle and pressure of the Chamfer Tube Edger.

Made of long wearing one-piece bronze with 1" lip and turned up ends. Belt polished surface for clean smooth edges.

Dia Size: 12", 16", 18", 24", 30", 36", 48"



Concrete Name Stamp

The perfect way to mark concrete for permanent identification. Made from high grade bronze. Stamp is 5" x 9" oval with flat ends. 16 spaces on three lines. Replacement year stamp is 5/8" high. Stamp can be furnished without date on request.

KRAFT BRONZE GROOVERS

All Kraft Bronze Groovers are meticulously crafted with belt polished surfaces that make it easy to cut sharp, clean grooves. These are long wearing and assure easy clean up.



DEEP BIT

CF-314 6"x4-1/2"



NARROW BIT

CF-305 6"x4-1/2"



BIG BIT

CF-304 6"x4-1/2"



LARGE BIT

CF-303 6"x4-1/2"



EXTRA DEEP BIT

CF-317 7-1/2"x4-1/2"



COLORADO GROOVER

CF-380 6-1/2"x3"



BRONZE BULL FLOAT GROOVER ATTACHMENT



Attaches with two thumbscrews. Use bull float as groover. Also mount one or more. Works on magnesium bull float.

No.	Size
CC-940	3/4" bit 1/4" radius, 1/2" wide top
CC-941	1" bit 1/4" radius, 1/2" wide top
CC-942	1-1/2" bit 1/4" radius, 1/2" wide top
CC-943	2" bit 1/4" radius, 5/8" wide top



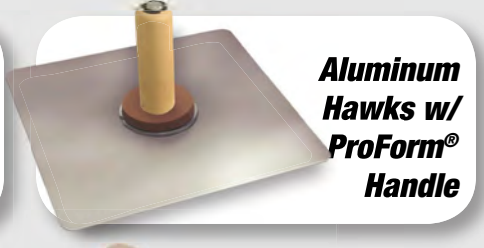
Concrete Finishing Tools



**Mini Pool
Trowel**



**Hi-Craft™
Joint Knives**



**Aluminum
Hawks w/
ProForm®
Handle**



**Cast Magnesium
Drain Float**



**Magnetic Extruded
Aluminum Levels**



Venetian Trowel



**Buckaroo™
Straightedge**



**Variable
Convex Jointer**



**Flex Neck for
Gun & Hopper**



**BuckEye™
Straightedge**



**Leather &
ProForm® Handles
on Selected
Masonry Products**



**Round Bottom
EZ-Grip Mud Pan**



Redwood Striker™



**Heavy-Duty Acid
Brush w/ Scraper**



**All Stainless Steel
Joint Knives**



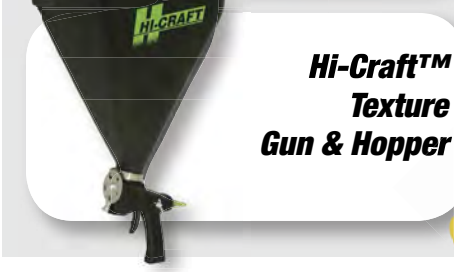
**Hi-Craft™
Econo
Mag
Float**



**Neptune Nylon
Bonded-Braided
Mason's Line**



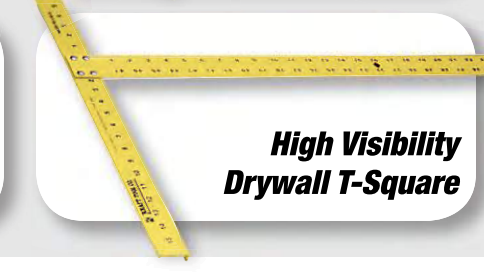
**Joint Knives &
Wall Scrapers w/
Rosewood Handles**



**Hi-Craft™
Texture
Gun & Hopper**



**Mash & Sledge Hammers
w/ Fiberglass
Handles**



**High Visibility
Drywall T-Square**

POINTING TROWELS

- Forged from a single piece of highest grade tool steel for unsurpassed strength
- Hardwood handle with polished steel ferrule
- Versatile tool
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
11124	45 5	03596501124	5 x 2½	6	72
11128	45 6	03596501128	6 x 2¾	6	72
11130	45 7	03596501130	7 x 3	6	72



MARGIN TROWEL WITH WOOD HANDLE

- Forged from a single piece of highest grade tool steel for unsurpassed strength
- Tempered, ground, and polished from toe to heel
- Hardwood handle with metal ferrule
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
11202	52	35965012027	5 x 2	6	72
11204	54	35965012041	5 X 1½	6	72
11206	56	35965012065	6 X 2	6	72



FINISHING TROWEL WITH CURVED WOOD HANDLE

- Highest grade high carbon spring steel blade
- Aluminum alloy mounting is fully heat treated for strength. Polished, and machine finished to ensure a perfect handle-to-post fit
- Exclusive "Diamond Shank" fits perfectly into a square hole of the hardwood handle
- 30% more torque is required to turn this handle than that of our nearest competitor
- Hardened steel rivets are used to attach the blade to the mounting
- Curved handle
- Large toe rivet is 40% larger than other manufacturers use and gives up to 88% more holding power at this critical point
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
13204	MXS56	35965032049	12 X 3	1	12
13208	MXS62	35965032087	12 X 4	1	12
13224	MXS57	35965032247	14 X 3	1	12
13228	MXS64	35965032285	14 X 4	1	12
13244	MXS60	35965032445	16 X 3	1	12
13248	MXS66	35965032483	16 X 4	1	12
13268	MXS81	35965032681	18 X 4	1	6
13278	MXS815	35965032780	18 X 5	1	6
13272	MXS20	35965032728	20 X 4	1	6
13276	MXS205	35965032766	20 X 5	1	6



FINISHING TROWEL-ROUND END WITH CURVED WOOD HANDLE

- Made from the highest grade stainless steel properly shaped and tempered
- Aluminum alloy mounting is lightweight but very strong
- Fully rounded front end for working around curvatures
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
13512	MXS81RE	35965035125	18 X 4	1	6
13514	MXS20RE	35965035149	20 X 4	1	6
13516	MXS205RE	35965035163	20 x 5	1	6



FINISHING TROWEL-ROUND END WITH CURVED HANDLE

- DuraSoft® Handle
- Made from the highest grade spring steel, properly shaped and tempered
- Long aluminum alloy mounting is lightweight but very strong
- Fully rounded ends prevent the blade from digging into the concrete
- Curved wood handle securely attached
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
13520	MXS64FR	35965035200	14 X 4	1	12
13522	MXS66FR	35965035224	16 x 4	1	12
13524	MXS81FR	35965035248	18 x 4	1	6
13526	MXS20FR	35965035262	20 x 4	1	6
13528	MXS205FR	35965035286	20 x 5	1	6



MIDGET TROWEL WITH CURVED WOOD HANDLE

- High carbon steel blade secured to aluminum alloy mounting with hardened steel rivets
- Curved handle
- For finishing concrete in small areas
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
13105	11	35965031059	8 X 3	6	36



MAGNESIUM FLOAT WITH WOOD HANDLE

- Extruded from very hard, durable, lightweight magnesium—our most popular float design
- Comfortable handle is positioned to give the tool perfect balance
- Handle is secured with torque pad screws that will not back out
- If a float (rough) finish is desired, floating is the final operation
- Recommended for use with air entrained concrete
- Magnesium floats produce a smoother finish than wood
- "SH" indicates structural foam handle, while "D" indicates DuraSoft® handle, provides a soft feel, reduces fatigue, and offers excellent durability
- U.S. Patent Nos. 5,781,956 for DuraSoft® Handle
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
14604	145	35965046046	16 X 3¾	2	24
14602	146	35965046022	20 X 3¾	2	12



MAGNESIUM BULL FLOAT

- Made from finest extruded magnesium available
- Lightweight, long wearing, and properly balanced to provide the finish you want
- Comes complete with bracket assembly
- Square ends
- No other heavy duty float outlasts this one
- Using several handle sections, the finisher can float a slab well beyond normal reach
- Made in the U.S.A.

EDI	Part #	UPC #	Size	Box	Case
14704	B48	35965047043	48 X 8	1	1



REINFORCED ALUMINUM H-SCREED WITH WELDED CAP-1-1/2" X 3-1/2"

- Harder and stronger than magnesium screeds
- Welded end cap prevents concrete from building up inside screed
- Engineered to be stiffer and straighter
- Less prone to bending and damage



Part #	Width	Height	Length	Cap
22-507-B8	1-1/2"	3-1/2"	6'	Welded
22-509-B8	1-1/2"	3-1/2"	8'	Welded
22-511-T8	1-1/2"	3-1/2"	10'	Welded
22-513-T8	1-1/2"	3-1/2"	12'	Welded
22-515-T8	1-1/2"	3-1/2"	14'	Welded
22-517-T8	1-1/2"	3-1/2"	16'	Welded
22-519-T8	1-1/2"	3-1/2"	18'	Welded
22-521-T8	1-1/2"	3-1/2"	20'	Welded
22-523-T8	1-1/2"	3-1/2"	24'	Welded

MAGNESIUM SCREEDS

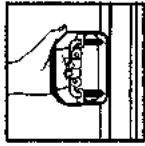
- Extra thick edges and cast end caps won't rust, rot or load up with mud
- High purity magnesium
- Lengths 10' or longer must ship common carrier



Part #	Width	Height	Detail	Cap
12-374-B8	2"	4"	6' Screed	Plastic
12-371-B8	2"	4"	8' Screed	Plastic
12-375-T8	2"	4"	10' Screed	Plastic
12-120-T8	2"	4"	12' Screed	Plastic
12-121-T8	2"	4"	14' Screed	Plastic
12-122-T8	2"	4"	16' Screed	Plastic
12-189-T8	2"	4"	18' Screed	Plastic
12-507-T8	2"	4"	20' Screed	Plastic
12-508-T8	2"	4"	24' Screed	Plastic
50-136-B6	2"	4"	Replacement End Cap	Plastic

Part #	Width	Height	Detail	Cap
12-686-B8	1"	4"	2' Screed	Plastic
12-687-B8	1"	4"	4' Screed	Plastic
12-126-B8	1"	4"	6' Screed	Plastic
12-117-B8	1"	4"	8' Screed	Plastic
12-118-T8	1"	4"	10' Screed	Plastic
12-119-T8	1"	4"	12' Screed	Plastic
12-373-T8	1"	4"	14' Screed	Plastic
50-135-B6	1"	4"	Replacement End Cap	Plastic

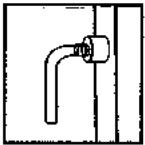
FORTRUSS®
STEEL ROLLING TOWER
SCAFFOLDS
SS SERIES



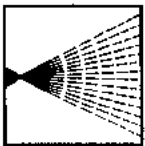
Exclusive Dual-Pin Adjustment Mechanism



Exclusive Caster Stem



Tightening "L" Knob

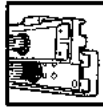


Premium Powder Paint

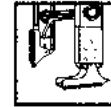


SS1206

FIBERGLASS I-BEAM EXTENSION
 Type IA, 300 lb. Rated
 FE1000 SERIES



Cast Rail End Caps



Swivel Safety Shoes



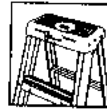
ROUND RUNG

TWO SECTION EXTENSION LADDERS

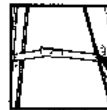
Model	Total Length	Each Section Length	Length Extended	Max. Approx. Weight
FE1616*	16'	8'	13'	46
FE1620	20'	10'	17'	54
FE1624	24'	12'	21'	63
FE1628	28'	14'	25'	73
FE1632	32'	16'	29'	82
FE1636	36'	18'	32'	104
FE1640	40'	20'	35'	114

*Does not include rope and pulley

ADVENT STEP LADDER
 Type IA, 300 lb. Rated
 FS1500 SERIES



Molded Top With Handyman's Tool Slots



Inside Spreader Braces



Model	Size	Approx. Weight
FS1504	4'	13
FS1505	5'	17
FS1506	6'	20
FS1508	8'	27
FS1310	10'	34
FS1512	12'	47

SCAFFOLD PLANKS AND STAGE PLATFORMS



NEW Safety Yellow Molded Handles* (Patent Pending) Impact resistant polypropylene handles designed for easy transport and rugged durability. * Available on 4', 5', and 6' stages. Cast rail end caps available on 7' stages.



Easy Grip Rungs Rungs on each end provide wide, easy to grip handles for pulling or carrying stages.



Reinforcing Web Braces Stages with side rails 6" or larger are reinforced with solid channel aluminum web braces. Braces provide greater bearing area and have greater impact strength than rungs and are more easily replaced.



Slip Resistant Decking "Sure-Foot" aluminum decking with raised tread spines for slip-resistant surface. (Fall through decking optional-separate order)



Optional Handrail Systems Aluminum guardrail, mekrail, and toe-board systems available for one to four sides.

SCAF-A-DECK™

PD SERIES

Wood features:



Nail Lock Heavy duty hook reinforcement plates help withstand abusive loads.



Edge-Guard Extrusion protects edges of plywood.



Heavy Duty 1/2" exterior grade plywood deck fastened with special rivets. Deck is easily replaced.

WOOD SCAFFOLD DECK
PD5000 / PD4000 SERIES



Wood SCAF-A-DECK™

MODEL	PLANK LENGTH	WIDTH	NAIL SIZE	CAPACITY (LBS./SQ.FT.)	APPROX WEIGHT
PD5007*	7'	19"	3"	75 lbs.	25.1
PD5008*	8'	19"	3"	75 lbs.	28.2
PD5010*	10'	19"	3"	75 lbs.	34.5
PD4007	7'	24"	3"	75 lbs.	34
PD4008	8'	24"	4"	75 lbs.	45
PD4010	10'	24"	4"	80 lbs.	57

*Replaces PD3000 Series Decks

FXP1700 Series



- Fiberglass Pro Platform Ladder**
Productivity Comfort and Safety
- Ergonomically positioned ProTop™ increases productivity
 - Includes magnet and multiple tool slots
 - 30% larger platform area for added comfort
 - Extended handrail for added comfort and safety

Model	Height to platform	Duty Rating	Load Capacity (Lbs)	Step Size	Bottom Width (In.)	Approx. Spread (In.)	Approx. Weight (Lbs)	Volume Closed (ft ³)
FXP1702	2'	T IA	300	3"	21 1/4"	32 5/8"	18	6.4'
FXP1703	3'	T IA	300	3"	23 1/3"	38 5/8"	22	7.9'
FXP1704	4'	T IA	300	3"	24 4/5"	44 4/7"	24	9.6'
FXP1705	5'	T IA	300	3"	26 1/5"	50 1/2"	27	11.4'
FXP1706	6'	T IA	300	3"	27 3/4"	56 4/9"	30	13.4'
FXP1708	8'	T IA	300	3"	30 7/8"	68 1/4"	46	17.5'
FXP1710	10'	T IA	300	3"	33 4/5"	80 1/8"	60	21.8'
FXP1712	12'	T IA	300	3"	36 4/5"	92"	72	25.4'

PD6203 Type IA Podium Ladder



Model No.	Size	Height to Platform	Reach Height	Max. Standing Height	Approx. Width	Approx. Cu. Ft. Per Unit
PD6203	5 ft	3 ft	9 ft	3 ft	26-3/8 in	9.24
PD6204	6 ft	4 ft	10 ft	4 ft	27-1/2 in	11.27
PD6206	8 ft	6 ft	12 ft	6 ft	31-1/4 in	16.38
PD6208	10 ft	8 ft	14 ft	8 ft	34-3/4 in	22.33
PD6210	12 ft	10 ft	16 ft	10 ft	38-3/8 in	29.12

The NEW PD6203 Podium Ladder offers the same reach height as a 5 ft stepladder and is ideal for working at fixed heights and is easier to maneuver than scaffolds or lifts. The extra-large platform with toe guard feels like you are standing on the ground and 4X Work Zone allows you to work facing any direction. This ladder features full aluminum bracing and a full set of rear horizontals. The LOCKTOP™ extended guardrail provides an extra point of contact and conveniently organizes tools and accessories. The newly designed EDGE360™ gives the bottom of the ladder protection from every angle with integrated rail shield, EDGE bracing and over-sized foot pads.

Features

- Same reach height as a 5 ft stepladder
- 4X Work Zone to reach all directions
- Extra-large platform for long standing comfort
- LOCKTOP™ Extended guard rail securely wraps around work zone and holds an arsenal of tools
- EDGE 360® includes an integrated rail shield, EDGE bracing and oversized foot pads
- 300 lbs Load Capacity, Type IA Duty Rating
- Double riveted slip-resistant TRACTION-TRED® steps
- Back-up plates reinforce all top connectors
- Full set of rear horizontals spaced one per foot
- All steps and two rear horizontals are knee-braced



Ladders



12ES Combination Ladder

Strong, lightweight aluminum combination step, extension and adjustable ladder for use on at surfaces or stairs.

- 8ft. Step ladder; also works as a 12' Extension ladder
- Wide Steps for more comfortable climbing & standing
- Weight 24 lbs



14ES Combination Ladder

Strong, lightweight aluminum combination step, extension and adjustable ladder for use on at surfaces or stairs

- 10ft. Step ladder; also works as a 14' Extension ladder
- Wide Steps for more comfortable climbing and standing
- Weight 37 lbs



14' Extension Ladder

- Length 28 inches to 10.5 feet (fully extended).
- Weight 18.5 lbs.
- Gives same climbing height as a 14 ft. extension ladder.

TELESTEPS 1400E
Commercial/Consumer Telescopic Ladder
Type 1 250 LB Duty Rating

16' Military/Tactical Extension

- Length 30 inches to 12.5 feet (fully extended).
- Weight 23 lbs. extra light & heavy duty
- Gives same climbing height as a 16 ft. extension ladder.

TELESTEPS 1600ET
Professional Telescopic Ladder
Type 1A 300 LB Duty Rating



18' Professional Extension Ladder

- Length 33 inches to 14.5 feet (fully extended).
- Weight 30 lbs.
- Gives same climbing height as a 18 ft. extension ladder.

Professional grade, heavy duty telescopic ladder that weighs only 30 LBS. Wide treads increase comfort when you're on the ladder for extended periods of time.

**Need a product
that is not
listed?
Call us!**

**Our sales
force is
always ready
to assist you.**

Hammers & Sledges

4-lb Engineer Hammer, 16-in Handle

- Unit makes driving spikes or wedges easier
- 16-inch hickory handle will not splinter and last for years to come

Part #1196900

Engineer Hammer, 16-in Fiberglass Handle

- Unit makes driving spikes or wedges easier
- 16-inch fiberglass handle for ultimate durability and safety

SKU	Weight
1197400-6	6 lb
1197400-8	8 lb
1197400-10	10 lb
1197400-12	12 lb
1197400-16	16 lb
1197400-20	20 lb

Sledge Hammer, 36-in Fiberglass

- Double face forged steel sledge hammer head for maximum strength
- Use for demolition work or heavy hammering

SKU	Weight
1199300-6	6 lb
1199300-8	8 lb
1199300-10	10 lb
1199300-12	12 lb
1199300-16	16 lb
1199300-20	20 lb

Mattocks

6 pound Clay Pick (Head Only)

- Combines pick blade with a mattock blade
- Used to dig or grub at hard surfaces until they loosen

Part #1138700

5 pound Pick Mattock (Head Only)

- Features one end hoe blade, one end cutter blade
- Breaks rock surfaces and compacted soil

Part #1136500

Railroad/Clay Pick Handle

- 36-inch handle length
- Easy assembly--no epoxy or wood wedges needed

Part #2027400

Tampers

8-in x 8-in Tamper

- Durable 42-inch hardwood handle that has a thicker section on lower area to provide additional strength
- Used to flatten and smooth dirt, stone, asphalt, and other materials

Part #1133400

Tamper With 42" Ash Handle, Head 10" x 10", 14 lbs.

Part # 1133700

Handles

36-in Hickory Sledge Hammer Handle

- Replacement sledge handle
- Hickory replacement handle fits sledge hammer heads 6-16 pounds

24-in Sledge Handle

- Replacement sledge handle
- Ideal for use with 6 to 8 pound sledge hammer heads

SKU	Length	UPC
2036200	36-inch	049206203624
2001200	24-inch	032816206505

Bars

72-in Diamond Point San Angelo Bar

- 17-lb bar
- 1-inch hex bar stock
- Medium carbon steel construction for durability and safety

Part #1175200

72-in Diamond Point San

- 17-lb bar
- 1-inch hex bar stock

Part #1175200

71-in Post Hole Digging/Tamper Bar

- 16-lb bar
- 1-inch bar stock

Part #1160000

48-in Stripping Bar

- 12-lb bar
- 1-inch hex bar stock
- With Claw

Part #1168800

48-in Stripping Bar

- 12-lb bar
- 1-inch hex bar stock
- Without Claw

Part #1169000

Shovels



Square Point Shovel with Crimp Collar and D-grip

- 28-inch sturdy, stained North American hardwood handle for long life
- Open-back, heavy-duty blade with crimp collar for added strength

Part #42523

UnionTools®



#14 Western Aluminum Scoop with Crimp Collar and D-grip

- Steel and wood D-grip for added leverage and control
- Dura-Torque crimp collar for superior head-to-handle connection

Part #53136

UnionTools®



Square Point Shovel with Crimp Collar

- 48-inch sturdy, stained North American hardwood handle for long life
- Open-back, heavy-duty blade

Part #44106

UnionTools®



7-Inch Scraper

- Socket pattern for superior head to handle connection
- 54-inch North American hardwood handle for strength and durability

Part #78202



Round Point Shovel with Crimp Collar

- Forward turned step for secure foot placement
- Heavy duty open back tempered steel blade with forward turned blade step

Part #45106

UnionTools®



15-tine Bow Rake, Forged

- One-piece forged 15-tine tempered-steel rake head
- Extra-long 66-inch North American hardwood handle reduces back strain

Part #63141

RAZORBACK®
PROFESSIONAL TOOLS



10-in Mortar Hoe

- 8-inch steel ferrule with cap for strongest blade and handle connection
- 66-inch North American hardwood handle

Part #66158

RAZORBACK®
PROFESSIONAL TOOLS

UnionTools®

RAZORBACK®
PROFESSIONAL TOOLS



Round Point Shovel with Open-back and Dual Rivet

- Ideal for digging and excavation in various soils
- Open-back industrial gauge tempered steel blade with forward turned step

Part #45520



Square Point Shovel with Tab Socket and Forward-turn Step

- 48-inch sturdy, stained North American hardwood handle for long life
- Industrial gauge open-back blade

Part #44124



Post Hole Shovel

- Designed for digging and clearing drainage, ditches, and trenches
- 5-inch open-back industrial gauge tempered steel blade has a rolled step to prevent material build-up

Part #78004



Ditching Shovel

- Best for digging post holes in hard, rocky soil
- One-piece, tapered blade for cutting roots
- 48" premium Ash handles

Part #47115

9" Heavy Duty Cover

100% Synthetic fiber attached to a 4-ply Phenolic Core backing.

Packed 24 per carton.

No. 9SC050 Nap 1/2" Grn. Wt. 5 lbs.



Fender Wash Brushes — 8 Inch Handle

Filling material is staple set in a wax tumbled hardwood block with hang up hole in handle.

Block size: 8"L x 3"W
Length of Trim: 2 inches
Packed 1 dozen per carton.

No. 40 Palmyra Fiber Doz. Wt. 7 1/4 lbs.



Short Handle Foam Plastic Block

Filling material is staple set in a high-tensile strength foam plastic block. Will not absorb water. Recommended for use where sanitation is required.

Block size: 8 inches Length of Trim: 2 inches
Packed 1 dozen per carton.

No. 42 Green Flagged Plastic Doz. Wt. 7 lbs.



Long Handle Foam Plastic Block

Filling material is staple set in a high-tensile strength foam plastic block. Will not absorb water. Recommended for use where sanitation is required.

Block size: 20 inches Length of trim: 2 inches
Packed 1 dozen per carton.

No. 43 Green Flagged Plastic Doz. Wt. 10 lbs.



Beaver-Tail Counter Duster

Filling material is staple set in clear lacquered hardwood block. Hang up hole in handle. Brush face length: 9 inches. Overall length: 13 1/2 inches.

Length of Trim: 2 1/2 inches
Packed in individual cartons. One dozen per master carton.

No. 59 Grey Tampico Doz. Wt. 9 3/4 lbs.



Curved Handle Wire Scratch Brush with Scraper

Round Carbon Steel Wire. Staple set in a smooth wax tumbled hardwood blocks.

Block Size: 14"L x 1"W Length of Trim: 1 1/8 inches
Packed 1 dozen per carton.

No. 7SC 4 rows x 18 rows Doz. Wt. 7 lbs.



Painters Scratch Brushes with Scraper

Round Carbon Steel Wire. Staple set in a wax tumbled hardwood block with scraper and handle bracket attached. For scaling and scraping old paint.

Block Size: 7 1/8"L x 2 1/4"W Length of Trim: 1 9/16 inches
No. of rows: 6 x 19 Scraper width: 6 inches
Packed 1 dozen per carton.

No. 5-SC-7 7 1/8" Doz. Wt. 14 lbs.

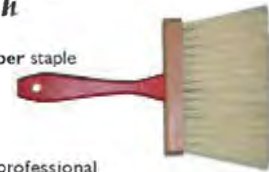
PRICE DOES NOT INCLUDE HANDLE.
Requires No. S-48 Handle — 1 1/8" x 48" Square Cut Handle.

Water Paint Brush

Best Grade White Tampico fiber staple set in clear lacquered hardwood block with 6 3/4 inch red handle attached. This is a heavily filled brush recommended for the professional contractor.

Block size: 6 1/2"L x 2"W Length of Trim: 4 inches
Packed one dozen per carton.

No. 561 5 rows wide Doz. Wt. 10 lbs.



Low Cost Paint or Chip Brushes

100% White bristles. Single thickness. Smooth sanded handle with tin ferrule.

Length of Trim: 1 1/2 inches.

	Width	Std. Pack	Ctn. Wt.	Case Pack	Case Wt.
No. 231	1 inch	3 doz.	1 1/2 lbs.	864 ea.	35 lbs.
No. 232	1 1/2 inch	3 doz.	2 lbs.	864 ea.	43 lbs.
No. 233	2 inch	2 doz.	2 1/4 lbs.	432 ea.	54 lbs.
No. 234	2 1/2 inch	2 doz.	1 1/4 lbs.	432 ea.	43 lbs.
No. 235	3 inch	2 doz.	1 1/2 lbs.	432 ea.	52 lbs.
No. 236-S	4 inch	1 doz.	1 1/4 lbs.	240 ea.	40 lbs.



Heavy-Duty Contractor's Broom

Made of best quality selected broom corn with Palmyra stalk center. Sewed 4 times and reinforced with a wire band. Made on a 1 1/8" diameter clear-lacquered handle. This broom is ideal for use in the construction trade for sweeping moderate to heavy debris.

No. 5038 Bundled (6) Ctn. Wt.
18 lbs.



Whisk Broom

Made of selected fine broom corn. Sewed two times, cad. plated ring cap. This is the best quality whisk broom for home, automobile and office.

Packed 1 dozen per carton.

No. 228 11 inch Doz. Wt.
4 lbs.



OSHA-Orange Plastic

Filled with **OSHA orange poly corn** for high visibility use.

Length of Trim: 5 inches Packed 1/2 dozen per carton.
No. 1318-O 18 inch 1/2 Doz. Wt.
16 1/2 lbs.

Brown Plastic

Brown Polypropylene Plastic. Staple set in smooth sanded hardwood block. Wide flare on ends allows close sweeping to curbs.

Recommended use: For wet or dry sweeping in barns, street sweeping, highway work, etc.

Length of Trim: 5 inches Packed 1/2 dozen per carton.
PRICE DOES NOT INCLUDE HANDLE.
Requires standard tapered handle.

No. 1624 24 inch 1/2 Doz. Wt.
23 lbs.



No. 37 Line Floor Brushes

Silver flagged-tip plastic. Staple set in clear lacquered half-round hardwood block.

Recommended Use: For sweeping smooth, highly polished floors, varnished wood or smooth concrete. Will sweep finest dust or grit.

DO NOT USE WITH OIL BASE SWEEPING COMPOUND.

Length of Trim: 3 inches PRICE INCLUDES NO. M-60 HANDLE.
Packed in individual cartons.

No. 3736 36 inch Doz. Wt.
62 lbs. No. 99 Brace incl.



Carbon Steel Wire Street Push Broom

Round Carbon Steel Wire. Staple set in smooth sanded hardwood block with two tapered handle holes. Wide flare on ends allows close sweeping next to curbs.

Recommended Use: For thorough sweeping of asphalt and concrete before applying black-top sealant and for sweeping loose pea gravel and dirt from roofs before retarring.

Length of Trim: 3 3/4 inches Packed 1/2 dozen per carton.
PRICE DOES NOT INCLUDE HANDLE.
Requires standard tapered handle.

No. 3916 16 inch 1/2 Doz. Wt.
20 lbs.



No. 22 Line Garage Brushes

Coarse brown plastic. Staple set in clear lacquered hardwood block.

Recommended Use: For wet or dry sweeping rough concrete or asphalt floors such as in service station driveways, creamery and packinghouse floors. Will not soften when exposed to water, oils or greases.

Length of Trim: 3 inches PRICE INCLUDES NO. B-60 HANDLE.
Packed in individual cartons.

No. 2224 24 inch Doz. Wt.
54 lbs. No. 99 Brace incl.



Concrete Finishing Brush

Soft Grey Horsehair. Staple set in clear lacquered hardwood block. This brush was designed especially for concrete finishers work. Very light in weight. The 72 inch handle and soft grey horsehair make it the ideal tool for applying a fine brushed finish on concrete.

Length of Trim: 2 1/2 inches No. 99 Brace incl. w/30" & 36" brushes.
Packed in individual cartons. PRICE INCLUDES NO. M72 HANDLE.

No. 2918 18 inch Doz. Wt.
37 lbs.
No. 2924 24 inch 47 lbs.
No. 2936 36 inch 62 lbs.



Carbon Steel Wire Deck Brush

Carbon steel wire, .014 gauge. Staple set in smooth sanded hardwood block with one tapered and one threaded handle hole.

Length of Trim: 2 inches PRICE DOES NOT INCLUDE HANDLE.
Packed 1 dozen per carton. Requires tapered or threaded handle.

No. 418-S 18 inch - 6 pack *Doz. Wt.* 33 lbs.

Curved Squeegee with Tapered Handle Socket



Packed 6 squeegees per carton.
PRICE DOES NOT INCLUDE HANDLE.
Requires standard tapered handle.

No. 4636TP 36" Blk. Rubber *Ctn. Wt.* 19 lbs.



Tapered Handles

Made of No. 1 straight grain hardwood. Smoothly sanded with one end rounded and other end tapered for use with 41-TP, 41-TPN, 46-TP and 46-TPN squeegees. Order handles and squeegees separately. Handles packed 1 dozen per carton.

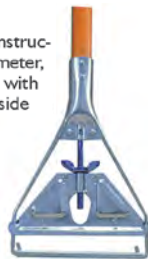
No. C60 1 3/8" x 60 *Ctn. Wt.* 19 lbs.

Mop Handles

Quick-change type. Heavily zinc plated steel construction securely fastened to a No. 1 grade 1 1/2" diameter, 54 inch handle. Standard wing nut construction with channel-type cross bar that detaches from one side to allow quick change of mop head.

Size of head: 7" for 20 to 32 oz. mop heads.
Packed 1/2 dozen per bundle.

No. 91 Janitor *Bndl. Wt.* 15 lbs.



SoftFoam Rubber/ Double Edge Steel Frame Squeegee

Squeegee for tough work. Ideal for workshops and large areas. Galvanized steel frame with a splash guard and reinforced handle socket. Available in black natural rubber and in oil resistant neoprene. Will accept standard, diameter handle, tapered or square cut. Packed 10 per carton. Non refillable



SKU	Description	Cm. Wt.
No. 8722	22" Black Foam	12 lbs
No. 8730	30" Black Foam	16 lbs
No. 8822	22" Red Neoprene	13 lbs.
No. 8830	30" Red Neoprene	17 lbs.

Eliminate Handle Breakage with A-Line Brush Head & Extra Heavy-Duty Bolt-On Handle Assembly

THE BRUSH HEAD
THE #D-60 METAL CONNECTOR HANDLE AND
#99 WING BRACE MUST BE PURCHASED SEPARATELY



SEE PAGE 8 FOR HANDLE AND BRACE SPECIFICATIONS
HANDLES AND BRACES ARE NOT INCLUDED IN THE PRICE OR WEIGHT OF THE A-LINE BRUSH HEAD

(Picture Depicts Assembled Broom with D-60 Handle & 99 Brace)

Cotton & Rayon Mop Heads

Made of 4 ply highly absorbent, long wearing yarns. Mops are sewn 2 times. Band is 1/4" wide.

Packed in individual poly bags.
Packed one dozen per carton.

No. 4824 24 oz. Rayon *Doz. Wt.* 18 lbs.



Plastic Mop Bucket Combo with Wringer

Yellow mop bucket with wringer designed for durability. Bucket accommodates 26 to 35 qts. and is corrosion resistant. No cracks or crevices to collect dirt. Wringer is resistant to cleaning chemicals. Comes with standard 3" ball bearing casters.

Dimen. W/casters: 11 7/8" D x 18 3/8" L x 15 5/8" W
Packed individually one per carton.

No. 6035-3 *Wt.* 20 lbs.



Standard Sweeping Compound - 50lb. Poly Bag, 200lb. Wax Drum, 250lb. Standard Drum



Our Standard sweeping compound is a blend of commercial pine sawdust, refined petroleum mineral oil and sand. It is used to control dust and dirt particles when unfinished wood, concrete and other hard surfaced floors are present. This drastically reduces airborne particles in warehouses, shops and other types of facilities. *3 month guaranteed shelf-life



Square Beam Buckets

Freight classification: Item #115430-02, Class 125

MODEL	OVERALL WIDTH	OVERALL HEIGHT	GATE DIA.	WEIGHT LBS.	CAP YD.
S-375	39"	42"	10"	275	3/8
S-050	39"	45"	10"	300	1/2
S-075	39"	50"	10"	350	3/4
S-100	45"	55"	12"	470	1
S-150	54"	63"	12"	625	1-1/2
S-200	60"	67"	12"	890	2

SIDE DISCHARGE BOOTS COME WITH ALL OF ABOVE
 FORKLIFT POCKETS CAN BE ADDED AT ADDITIONAL CHARGE

Tremmie Hopper



- Molded of durable heavy gauge polyethylene plastic.
- Standard unit (Cat# Tre-Hopper) is steel reinforced for added strength during transport and/or positioning at job site.
- Medium duty hopper (Cat# Tre-Hopper-LT) is exactly like our standard unit only without the reinforced metal frame.
- Easy to clean.
- Large - 36" square.
- Standard 8" discharge opening which can be easily cut to a 12" discharge opening.

Standard Buckets

MOD.	CAP. CU. YD.	GATE DIA.	LOADING HEIGHT	WT. LBS.
CL375	3/8	18"	33"	170
CL050	1/2	18"	39"	180
CL075	3/4	18"	44"	250
CL100	1	24"	47"	375
CL150	1 1/2	24"	53"	480
CL200	2	24"	57"	600
CXL200	2	32"	60"	700
CXL300	3	32"	67"	1000
CXL400	4	32"	72"	1250

Larger sizes available for any need.



Forklift or Crane "Recycler"

MATERIAL AND TRASH DUMSPTR

Freight classification: Item #52720, Sub1, Class 100

MODEL	WIDTH	LENGTH	HEIGHT	WEIGHT LBS.	CAP YD.
CFD-100	61"	48"	50"	500	1
CFD-200	74"	56"	60"	620	2-1/4
CFD-300	74"	80"	60"	930	3
CFD-400	82"	80"	68"	990	4

FACTORY INSTALLED

CRANE SLING OPTION 30 42B

Factory installed lids available - Call for information. Crane sling option not included.



Tremmie Pipes



Deslauriers' Tremmie Pipes have thick Polyethylene walls to provide extra long service

- Tremmie Pipes include heavy duty steel chains and brackets
- The Tremmie Pipes are available in two sizes: 12" dia x 4ft and 8" dia x 4 ft.

CATALOG#	DESCRIPTION
TRE-8P	8" dia TREMMIE PIPE
TRE-12P	12" dia TREMMIE PIPE

Tremmie Collar



CAT# TRE-COLLAR-12: 12" Tremmie Sleeve w/ Chains
 CAT# TRE-COLLAR-8: 8" Tremmie Sleeve w/ Chains

Tremmie Elephant Trunk

Heavy Duty Vinyl

Available in 8" and 12" diameters and in 50 ft rolls

CAT# TRE-8P: 8" Diameter
 CAT# TRE-12P: 12" Diameter



Tremmie Clamp



CAT# TRE-CL

Stainless Steel construction

Fits both 8" and 12" trunk

The last wheelbarrow you will ever need:

All Steel Construction



- Manufactured with steel trays, handles, legs, braces, and rims
- 14 gauge tubular steel handles that won't bend or break with comfortable and secure hand grips
- 18 gauge and 20 gauge steel trays with a 1/4" steel rod flanged into the rim for additional strength
- Durable powder coated finish

Precision Design



- Ergonomically designed to 80% so the load is on the wheel NOT your back
- Our deep and narrow trays are specially designed to maximize stability during transport and allow for an easy and controlled end pour
- All models are designed to clear 27" interior or exterior doorways, of homes, sheds, barns, greenhouses, and outbuildings

SKU: HD6S

MILLER
A Subsidiary of Wellmade Products
Merced, California



marathon

4.80/4.00-8" Flat Free Tire

Specifications

The 4.80/4.00-8" tire is commonly used on contractor-grade wheelbarrows, garden trailers, roofing equipment, spreaders, and more.



Tire Type	Flat Free
Tire Size	4.80/4.00-8"
Tire Diameter	15.5"
Tire Width	3.6"
Rim Diameter	8"
Load Capacity	500 lbs



Heavy-Duty Utility/Service Carts and Accessories

Perfect for transporting equipment and heavy loads in any environment.

- Sturdy structural foam construction won't rust, dent, chip or peel.
- Standard cup holder and storage compartments on top shelf.
- Rounded corners protect walls and surroundings.
- Lightweight and maneuverable.
- 5" diameter, non-marking casters—2 fixed and 2 swivel.
- Available with 2 or 3 shelves.



Flat Shelf Carts

Versatile flat shelves designed to transport large bulky tools.

- Sturdy structural foam construction won't rust, dent, chip or peel.
- All-plastic design provides easy maintenance and quiet operation.
- Large, non-marking 5" diameter casters reduce touch-up cleaning.
- Optional middle shelf available.
- Molded-in cord wrap manages extension cords.
- Flat top is a convenient work surface.

Trade Carts

Moves productivity right to the job site—an Irwin® Industrial and Lenox® tool storage and mobile workbench system.

- Four compartmentalized boxes store assorted parts and hardware.
- Fully enclosed, lockable storage compartment helps keep tools and materials secure (6180-88).
- Two storage bins hold essential hand tools and supplies.
- Carts move easily over hard surfaces, through elevators and doorways.
- Flat surface at ergonomic height provides convenient work area.
- 6" diameter, non-marking casters for easy mobility.

Brute® Round Containers

Industry leader in waste and construction material applications.

- All-plastic, professional-grade construction will not rust, chip or peel; resists dents.
- Strong, snap-on lids are available for secure, stable stacking.
- Reinforced rims add strength and durability.
- Built-in handles allow easy, non-slip lifting and anti-jam nesting.
- Double-ribbed base increases stability and dragging capacity.
- Certified to NSF Std. #2 (blue, gray, white & yellow) and Std. #21.



Brute® Square Containers

More capacity for storage or refuse collection.

- Square shape offers up to 14% more capacity than round containers.
- Tight-fitting lids help protect dry goods and other contents.
- Nesting handles allow secure fit for side-by-side use.
- Gray and White are USDA Meat & Poultry Equipment Group Listed and assist in complying with HACCP guidelines.
- Certified to NSF Std. #2 (gray and white) and Std. #21.

Tilt Trucks

Industrial strength truck transports heavy construction materials with ease.

- Easy to handle and maneuver through commercial doorways and onto elevators.
- Angled front end is designed for convenient dumping.
- Inset wheels on 1/2 cu. yd. (.4 m³) and 1 cu. yd. (.8 m³) models protect walls, fixtures and patrons.
- Smooth surface is easy to clean and resists pitting and corroding.
- Optional hinged domed lids available.



Heavy-Duty Towable Tilt Trucks

Towable—Trainable Tilt Trucks.

- Heavy-duty tow bar, hitch, and frame for multiple truck towing and training.
- Pneumatic wheels for smooth movement over multiple terrain surfaces.
- Towing and training features on #1316-41.

Forkliftable Tilt Trucks **New!**

- Fully compatible with forklifts.

Solo Sprayers



SKU	Product Info
13418	Hand; Size: 1 Liter
13457	3G Wheel W/6Ft Hose
13462	Acid 2G
134900527	SPRAYER NOZZLE ADJ PLASTIC
133000233-PS	SPRAYER WAND ACID RESISTANT(462)
13407-CI	Plastic 3G Solo 407 Ci
13418-2L	Hand; Size: 2 Liter
134900170N	SPRAYER WAND 28"
13SLC-2G	SPRAYER GENRAL PUR - POSE 2gl

Industrial Viton® Cleaner/-Degreaser - 48oz

Trigger Sprayer • Model #1046

48oz. Multi-Purpose Hand Sprayer for cleaning-degreasing

- Viton™ seals
- Adjustable cone nozzle
- 48oz recleanable bottle



Industrial Viton® Concrete Open Head - 3.5G

Sprayer • Model #1949 • UPC #023883019495

3.5 gallon TriPoxy coated Sprayer with Viton™ Seals for the Concrete Professional (Chapin's Most Popular Industrial Sprayer)

- Viton® seals and Gaskets
- TriPoxy Steel Tank with Large Tri-Lock opening
- Brass Spray handle, wand and Nozzle
- Brass Pump



Industrial Poly Concrete Sprayer - 3G

Sprayer • Model #22170 • UPC #023883221706

3.0 gallon Industrial Concrete Poly Sprayer for form oils, curing compounds and sealers

- Viton® seals and Gaskets
- Brass shut-off with Lock-on feature
- 24" brass extension wand
- Pressure Relief valve



Industrial Poly Concrete Sprayer - XP Model - 3G

Sprayer • Model #22170XP • UPC #023883221706

3.0 gallon Industrial Concrete Poly Sprayer for form oils, curing compounds and sealers. Now with 40% more pump volume per stroke.

- Viton® seals and gaskets
- Brass shut-off with lock-on feature
- 18" brass extension wand
- Pressure relief valve



Airless Spray Units SPE

SPE ranges of Airless Spray units are designed for rough working conditions found in shipyards, the petrochemical industry and fabrication sites. The pumps can be used to apply epoxy coatings, marine paints, and solvent less polyurethane and fire retardant materials.



Features

- Proven Design
- Spares worldwide
- Easy maintenance
- Stainless steel construction
- Automatic cut off for liquid pickup
- Quick and easy optional conversion from dry to wet
- 1.3 hp 1000w by-pass motors
- Compact, robust and powerful

S201 | S151 SPRAYER MORRISON

Ideal for spraying all types of curing compounds after finish work is completed.



- The best pump in the industry.
- Sprays materials with a variable pressure between 40 and 120 psi while constantly agitating material.
- Easily handles form oils, pigment ed curing compounds, bond breakers, soaps and detergents, pest control liquids, and most
- Handles white pigment curing compounds with 40% solids.
- Designed to be used from a truck, dock, work platform, dolly or skid.
- Exclusive wear adjustment feature increases pump life as much as 200%
- Barrel not included.

Sprayers



Chapin Sprayer Hose Brass

Sprayer Tip • Model #66091
48 Inch Replacement Hose With Threaded Brass Connections



Chapin Sprayer Hose Brass

Sprayer Tip • Model #66092
Black Heavy Duty Industrial Hose With End Couplings; Nylon Reinforced



Chapin Sprayer Hose W/- Clamps

Sprayer Tip • Model #66136
42" Hose With Connector And Clamps For Metal Tank Connections



Chapin Sprayer Curved Exten

SKU	Product Info
67703	24" Curved Brass Wand With Male Nozzle Thread
67742	18" Curved Brass Wand With Female Threads



Chapin Sprayer Rod Assembly

Sprayer Tip • Model #389881
12" Pump Assembly For Metal Openhead Sprayers



Chapin Sprayer Tip

Sprayer Tip • Model #15916
0.1 Gpm Brass Fan Nozzle With Male Thread



Chapin Brass Fan Tip

Sprayer Tip • Model #15941
Brass fan tip 1/4" .5 GPM female



Chapin Sprayer Tip Brass

Sprayer • Model #15943
1.0 Gpm Brass Fan Tip Nozzle With Female Threads



Chapin Sprayer D-Handle Only

Sprayer • Model #25586
Zinc Die Cast D-Handle



Chapin Sprayer Pump Barrel/Cylin

Sprayer • Model #37019
12" Brass Assembly For Poly Openhead Sprayer



Chapin Sprayer Shut-Off W/- Clamps

Sprayer • Model #61866
Premium Epoxy Coated Zinc Shut Off Assembly



Chapin Sprayer Repair Parts Kit

Sprayer • Model #64627
Seal And Gasket Kit For Openhead Sprayers



Chapin Sprayer Tip Fan

Sprayer • Model #65797
0.5 Gpm Fan Tip Brass Nozzle. Female Threaded With Adapter And O-Ring



Chapin Sprayer Tip Adjustable

Sprayer • Model #66000
Adjustable Brass Cone Nozzle; 2 Piece; Spray Pattern: Straight Streen To Funnel/Cone Pattern



Chapin Sprayer Shut Off Assembly

Sprayer • Model #66062
Brass Shutoff Assembly

Water Hoses - Nozzles - Hand Tools



Metal Turbo Nozzle

Model No. FD1
Power spray

- Large grip handle controls water flow
- Fireman's style tip adjusts spray pattern
- Molded grip for cushioned comfort



Full Size Metal with Threaded Front

Model No. 573TF

- Male threaded front for attaching accessories
- Solid brass valve system with permanent adjusting nut
- Hold-open clip for continuous spraying
- Rust resistant stainless steel spring
- Self-adjusting "duck" packing for the ultimate leak proof seal



Commercial Rubber/Vinyl 25 Series

Industrial strength for commercial use

Model No. 25-34025, 3/4", 25ft.
Model No. 25-34050, 3/4", 50ft.
Model No. 25-34075, 3/4", 75ft.
Model No. 25-34100, 3/4", 100ft.

Features:

- 6-ply construction
- 500 PSI burst strength
- Double reinforced for commercial strength
- Heavy-duty metal couplings with O-ring for tight seals
- Kink resistance
- Easy to handle and weather resistant
- Metal spring protective collar prevents kinks at faucet



Metal Dual Connector

Model No. AY2FFM

- 45% more water flow
- More performance from sprinklers and nozzles
- Dual shut-off valve controls water flow
- Heavy-duty aluminum construction
- Extra large handles for easy grip and turn
- Easy-on swivel connector assures accurate connection to faucet
- Withstands hot water temperatures



Jackhammer Hose - Rubber (3/4 x 50 ft)

- Service: Jackhammer
- Tube: SBR
- Cover: SBR Blue, Red, Yellow
- Reinforcement: Braided synthetic yarns
- Package: Coils
- Universal couplings with 1 bands each end

SKU: 900



Water Discharge Hose - Blue PVC

- Service: Lay-flat water discharge.
- Tube: PVC
- Cover: PVC - Blue
- Reinforcement: Synthetic reinforced fibers
- Package: Coil
- Temperature: -4° F to +112° F
- Size: 2" ID x 50 ft long
- Info: Assembly coupled AB20 M x F NPT attached with 2 stainless steel bands each end

SKU: 7555



Mill Hose (Coupled Lengths)

- Service: Industrial fire protection, construction, rental yards, dust control
- Tube: Synthetic rubber
- Cover: White
- Reinforcement: Polyester yarns
- Package: Boxed
- Size: 1-1/2" ID x 50 ft
- Info: Double Jacket Fire Hose, coupled M x F aluminum, NST, internally-expanded

SKU: 15x50DJNST



Combination Fog Nozzle

Ideal for industrial and commercial installation.
Full stream to fog.

PF-2, 1-1/2" Red Lexan Adjustable Fog Nozzle, NST

SKU: PF2



Gilmour



Brass Hydrant Adapters



	Reducer Pin Lug	Same Size Both Ends		Increase Rocker Lug	
	FEMALE x MALE	Pin Lug Part #	Rocker Lug Part #		Qty
NST (NH) x GHT					
1-1/2" NST x 3/4" GHT		HA1576			10
2-1/2" NST x 3/4" GHT		HA2576	RHA2576		15



Adjustable Hydrant Wrench

Part #	Qty
AHW	20

Plated Malleable iron head and 1/2 plated steel handle. For Pentagon nuts up to 1 3/4" diam in spanner for pin- or rocker lug couplings. Overall length 16 1/2". Weight: 2.7 lbs.



Freud DS0414BF5 Diablo 4" 14/18 Steel Demon Metal Reciprocating Saw Blade 5 Pack		
SKU	Description	Mfg Part #
DS0414BF5	DIABLO RECIP BLADE 4" 14/18 SPK	DS0414BF5
DS0614BF5	DIABLO RECIP BLADE 6" 14/18 SPK	DS0614BF5
<p>This is a pack of 5 Diablo 4-inch steel Demon metal reciprocating saw blades. The reciprocating blades features Diablo's liquid metal technology, the blades go through a sintering process that liquefies and forms the edge under high temperatures for best durability. Diablo's Demon metal reciprocating saw blades has a Perma-Shield non-stick coating that helps to keep the heat down, less of gumming and corrosion. With having that feature, the blades can do the job four times more than the standard blades. It has 14/18 variable tooth with bi-metal ultra-edge.</p>		



Freud D0624A Diablo 6-1/2-Inch 24 Tooth ATB Framing Saw Blade with 5/8-Inch Arbor	
SKU	Mfg Part #
D0624A	D0624A
<p>This Diablo saw blade is designed to meet the needs of the construction and remodeling market. This advanced laser cut blade features a thin kerf, making it ideal for portable and low powered saws on the jobsite. A permanent Perma-SHIELD coating keeps this blade free from gumming and corrosion, and laser-cut stabilizer vents reduce vibration and heat buildup for more precise cuts and longer cutting life. This particular blade gives long life in ripping and crosscutting application.</p>	



Freud D0704DH Diablo 7-1/4-Inch-by-4-Tooth Polycrystalline HardieBlade	
SKU	Mfg Part #
D0704DH	D0704DH
<p>The only approved James Hardie polycrystalline diamond (PCD) tipped fiber cement saw blade. It was developed by James Hardie and Freud Diablo for all James Hardie fiber cement products and other fiber cement brand products. The PCD triple chip design offers up to 60-times longer cutting life than standard carbide blades. The laser cut thin kerf design gives fast and precise cuts with less dust and waste. The anti-vibration design stabilizes the blade and reduces noise while cutting and Non-Stick Perma-Shield coating to reduce heat. Dimensions: 7-1/4 inch x 4-tooth PCD triple chip tooth with 5/8-inch diamond twist out arbor.</p>	



Freud D0724A Diablo 7-1/4-Inch 24 Tooth ATB Framing Saw Blade	
SKU	Mfg Part #
D0724A	D0724A
<p>Super thin laser cut kerf (small diameter blades only) provides faster, cleaner, more exacting cuts. Perma Shield coating shields blade against heat, gumming, and corrosion. Durable micrograin titanium carbide tipped teeth are impact resistant to hold their edge longer. Laser cut stabilizer vents trap noise and vibration and stabilize blade. Laser cut heat expansion slots reduce heat and blade warp. Tri metal shock resistant brazing for stronger carbide teeth.</p>	



Freud D0724DA 7-1/4" Diablo Demo Demon Circular Saw Blade	
SKU	Mfg Part #
D0724DA	D0724DA
<p>Specially formulated to deliver superior cutting life and durability, the Demo Demon delivers up to six times the life of standard blades in extreme situations. The blade is designed to provide exceptional performance and impact resistance through its radical new LOCK-TOOTH design and special DURA-BLEND TiCo carbide. Demo Demon's advanced PYRAMID TOOTH GEOMETRY, a high-performance three-tooth grind sequence, provides superior tracking control for effortless cuts.</p>	



FFreud D0724W 7-1/4" x 24 Diamond-Out Saw Blade	
SKU	Mfg Part #
D0724W	D0724W
<p>Super thin laser cut kerf (small diameter blades only) provides faster, cleaner, more exacting cuts. Perma-Shield coating shields blade against heat, gumming, and corrosion. Durable micrograin titanium carbide tipped teeth are impact-resistant to hold their edge longer. Laser cut stabilizer vents trap noise and vibration and stabilize blade.</p>	



Freud D0824X Diablo 8-1/4-Inch 24 Tooth ATB Framing Saw Blade	
SKU	Mfg Part #
D0824X	D0824X
<p>This Diablo saw blade is designed to meet the needs of the construction and remodeling market. This advanced laser cut blade features a thin kerf, making it ideal for portable and low powered saws on the jobsite. A permanent Perma-SHIELD coating keeps this blade free from gumming and corrosion, and laser-cut stabilizer vents reduce vibration and heat buildup for more precise cuts and longer cutting life. This particular blade gives long life in ripping and crosscutting application.</p>	



Freud D0824X Diablo 8-1/4-Inch 24 Tooth ATB Framing Saw Blade	
SKU	Mfg Part #
D1024X	D1024X
<p>This Diablo saw blade is designed to meet the needs of the construction and remodeling market. This advanced laser cut blade features a thin kerf, making it ideal for portable and low powered saws on the jobsite. A permanent Perma-SHIELD coating keeps this blade free from gumming and corrosion, and laser-cut stabilizer vents reduce vibration and heat buildup for more precise cuts and longer cutting life. This particular blade gives long life in ripping and crosscutting application.</p>	





Freud D1040X Diablo 10-Inch 40-Tooth ATB General Purpose Saw Blade with 5/8-Inch Arbor and PermaShield Coating		
SKU	Description	Mfg Part #
D1040X	DIABLO SAW BLADE 10" 40 TOOTH	D1040X
D1060X	DIABLO SAW BLADE 10" 60 TOOTH	D1060X
D1244X	DIABLO SAW BLADE 12" 60 TOOTH	D1244X

The Diablo General-Purpose Saw Blade has a super-thin laser-cut kerf for effortless cutting performance. Tico titanium cobalt hi-density carbide provides a controlled carbide wear that stays sharper longer. Perma-Shield non-stick coating shields the blade against heat, gumming and corrosion. Blade Diameter in. 10, Teeth qty. 40, Blades qty. 1, Arbor Size in. 5/8, Arbor Knockout Diamond, Blade Speed RPM 7,000, Blade Use General purpose, Tip Type Carbide. 10in. x 40T For cutting wood and wood composites Laser-cut stablizer vents trap noise and vibration and stabilizes the blade Tri-metal shock-resistant brazing allows carbide tips to withstand extreme impact Laser-cut heat expansion slots allow blade to expand due to heat build up, keeping the cut true and straight 5/8in. arbor w/dia mond knockout 7000 max.



14-Piece Diablo Demolition Reciprocating Saw Blade Set	
SKU: DS0014S	Mfg Part #: DS0014S
14 Piece, Steel & Demolition Reciprocating Blade Set, Variable Tooth Design, Wooding Cutting Blades Feature An Easy Plunge Tip For Faster & Easier Plunging, Wood Cutting Blades Suited For Cutting Wood, Wood Composites & Nail Embedded Wood, Metal Cutting Blades Suited For Cutting Steel & Metal Composites, Includes: 4 6" 14/18 TPI Reciprocating Saw Blades For Metal, 4 6" 8/14 TPI Reciprocating Saw Blades For Wood/Metal, 4 6" 6/12 TPI Reciprocating Saw Blades For Wood, One 9" 6/12 TPI Reciprocating Saw Blade For Wood, One 9" 10/14 TPI Reciprocating Saw Blade For Wood/Metal.	



Freud DS006S Steel and Demolition Reciprocating Blade Assortment, 6-Piece	
SKU: DS006S	Mfg Part #: DS006S
All blades feature Diablo's variable tooth design Wood cutting blades feature an easy plunge tip design for faster and easier plunging Wood cutting blades suited for cutting wood, wood composites and nail embedded wood Metal cutting blades suited for cutting steel and metal composites	



Freud LM72R012 12-Inch 30 Tooth FTG Glue Line Ripping Saw Blade	
SKU: SO001194879001	Mfg Part #: LM72R012
Designed for serious woodworkers, the 12-inch Freud LM72R012 Heavy-Duty Rip Saw Blade features an ultra-tough Perma-SHIELD coating that reduces heat and friction. It delivers smooth, fast cuts through hard- and softwood. Thanks to a rigid blade body and 30 oversized, flat-top teeth with TiCo high-density carbide tips, this is one dependable, long-lasting blade. Plus, its well-balanced, anti-vibration design means there's no need to use stabilizers with it.	



Freud Diablo Reciprocating Blade		
SKU	Description	Mfg Part #
DS0606CWS	DIABLO RECIP BLADE 6" 6TPI 1PK	DS0606CWS
DS0608BFD5	DIABLO RECIP BLADE 6" 8/10 5PK	DS0608BFD5
DS0612BW5	DIABLO RECIP BLADE 6" 6/12 5PK	DS0612BW5
DS0614BGP5	DIABLO RECIP BLADE 6" 8/14 5PK	DS0614BGP5
DS0618SSX	DIABLO RECIP BLADE 6" CARBIDE 1PK	DS0618SSX
DS0905FG	DIABLO RECIP BLADE 9" 5 TPI 1PK	DS0905FG
DS0905FG5	DIABLO RECIP BLADE 9" 5 TPI 5PK	DS0905FG5
DS0906CWS	DIABLO RECIP BLADE 9" 6TPI 1PK	DS0906CWS
DS0908BFD25	DIABLO RECIP BLADE 9" 8/10 25PC	DS0908BFD25
DS0908BFD5	DIABLO RECIP BLADE 9" 8/10 5PK	DS0908BFD5
DS0912BW25	DIABLO RECIP BLADE 9" 6/12 25PC	DS0912BW25
DS0912BW5	DIABLO RECIP BLADE 9" 6/12 5PK	DS0912BW5
DS0914AFC5	DIABLO RECIP BLADE 9" 10/14 5PK	DS0914AFC5
DS0914BF25	DIABLO RECIP BLADE 9" 14/18 25PC	DS0914BF25
DS0914BF5	DIABLO RECIP BLADE 9" 14/18 5PK	DS0914BF5
DS0914BGP25	DIABLO RECIP BLADE 9" 8/14 25PC	DS0914BGP25
DS0914BGP5	DIABLO RECIP BLADE 9" 8/14 5PK	DS0914BGP5
DS0920BF5	DIABLO RECIP BLADE 9" 20/24 5PK	DS0920BF5
DS0930CGX	DIABLO RECIP BLADE 9" CARBIDE 1PK	DS0930CGX
DS0930DGX	DIABLO RECIP BLADE 9" DIAMOND 1PK	DS0930DGX
DS1205FG	DIABLO RECIP BLADE 12" 5 TPI 1PK	DS1205FG
DS1205FG5	DIABLO RECIP BLADE 12" 5 TPI 5PK	DS1205FG5
DS1206CWS	DIABLO RECIP BLADE 12" 6TPI 1PK	DS1206CWS
DS1212BW25	DIABLO RECIP BLADE 12" 6/12 25PC	DS1212BW25
DS1212BW5	DIABLO RECIP BLADE 12" 6/12 5PK	DS1212BW5
DS1214AFC5	DIABLO RECIP BLADE 12" 10/14 5PK	DS1214AFC5
DS1214BF5	DIABLO RECIP BLADE 12" 14/18 5PK	DS1214BF5

Diablo steel demon reciprocating saw blades are specifically designed for maximum performance in metal The blade's ultra hardened cutting edge delivers up to four times longer life than those of standard blades Dual tooth design features a double tooth configuration with small gullets for faster cutting and extra durability Perma-Shield non-stick coating for less heat, gumming and corrosion.

Freud D1040W Diablo 10-1/4-Inch 40 Tooth ATB General Purpose Saw Blade with 5/8-Inch and Diamond Knockout Arbor

10-1/4"x40t ATB saw blade for. Has 5/8" diamond knockout. Cuts 4x headers and fence posts, 2x sandwiched headers, exposed beams for decks and porches and 7 sheets of 1/2" plywood with one pass.

SKU: D1040W Mfg Part # D1040W

Saw Blades



SAWZALL BLADE		
SKU	Description	Mfg Part #
48001440	SAWZALL BL 6" DIAMOND GRIT	48-00-1440
48001450	SAWZALL BL 9" DIAMOND GRIT	48-00-1450
48001610	SAWZALL BL ROUGH-IN 5PK	48-00-1610

Diamond Grit The Torch Sawzall blades are ideal for cutting cast iron, hard tile, masonry and other abrasive and hard materials. Includes: (1) 9" Diamond Grit The Torch TM-Sawzall. Blade.



Milwaukee® 48-00-5021, 6" 5 TPI The Ax™		
SKU	Description	Mfg Part #
48005021	SUPER SAWZALL BL 5T 6LG AXE 5PK	48-00-5021
48005026	SUPER SAWZALL BL 5T 9LG AXE 5PK	48-00-5026
48005027	SUPER SAWZALL BL 5T 12LG AXE 5PK	48-00-5027
48005701	SUPER SAWZALL 8T 6LG WRECK - ER 5PK	48-00-5701
48005706	SUPER SAW - ZALL BL 8T 9LG WREKR 5P	48-00-5706
48005711	SUPER SAWZALL BL 8T 12LG 5PK	48-00-5711
48005712	SUPER SAWZALL 10T 6LG TORCH 5PK	48-00-5712
48005713	SUPER SAWZALL 10T 9LG TORCH 5PK	48-00-5713
48005714	SUPER SAWZALL 10T 12LG TORCH 5PK	48-00-5714
48005782	SUPER SAWZALL 14T 6LG TORCH 5PK	48-00-5782
48005784	SUPER SAWZALL 18T 6LG TORCH 5PK	48-00-5784
48005787	SUPER SAWZALL 14T 9LG TORCH 5PK	48-00-5787
48005788	SUPER SAWZALL 18T 9LG TORCH 5PK	48-00-5788
48005789	SUPER SAWZALL 18T 12LG TORCH 5PK	48-00-5789
48005794	SUPER SAWZALL 14T 12LG TORCH 5PK	48-00-5794
49220240	SUPER SAWZALL BL ASST 8PC	49-22-0240

The Ax Sawzall® blades have been engineered to deliver the fastest cuts, longest life, greatest tooth durability and quickest plunge cuts of any wood demolition blade on the market.



SAWZALL BL 8/12T 6LG ICE HARDENED MM THIN KERF 5PK		
SKU	Description	Mfg Part #
48004091	SAWZALL 8/12T 6LG ICE HARD - EN 5PK	48-00-4091
48004093	SAWZALL 8/12T 8LG ICE HARD - EN 5PK	48-00-4093



Milwaukee 6" Ice Hardened Sawzall Blade		
SKU	Description	Mfg Part #
48004182	SAWZALL 14T 6LG ICE HARD - ENED 5PK	48-00-4182
48004184	SAWZALL 18T 6LG ICE HARD - ENED 5PK	48-00-4184
48004187	SAWZALL 14T 9LG ICE HARD - ENED 5PK	48-00-4187
48004188	SAWZALL 18T 9LG ICE HARD - ENED 5PK	48-00-4188
48004189	SAWZALL 18T 12LG ICE HARD - ENE 5PK	48-00-4189
48004712	SAWZALL 10T 6LG ICE HARD - ENED 5PK	48-00-4712
48004713	SAWZALL 10T 9LG ICE HARD - ENED 5PK	48-00-4713
48004782	SAWZALL 14T 6LG ICE HARD - ENED 5PK	48-00-4782
48004784	SAWZALL 18T 6LG ICE HARD - ENED 5PK	48-00-4784
48004787	SAWZALL 14T 9LG ICE HARD - ENED 5PK	48-00-4787
48004788	SAWZALL 18T 9LG ICE HARDENED 5PK	48-00-4788

Milwaukee 48-00-4182 14T 6" Ice Hardened Sawzall Blade. This Milwaukee 48-00-4182 14T 6" Ice Hardened Sawzall Blade is a genuine part manufactured by Milwaukee. This Blade Pack (5) features a tooth form designed for the long life and maximum durability. This Blade features a Grid Iron stamped honeycomb pattern throughout the body of the blade that greatly increases the rigidity of the blade.

Features:
NAIL GUARD™ Ordinary teeth deliver either speed or durability. **NAIL GUARD™** solves this trade-off with an aggressive 5 TPI pattern for faster cuts and a unique design that protects against tooth fracture.
FANG TIP™ Ordinary tips bounce or skate on the work piece.
 A thicker, more rigid blade body resists fracturing and bending for maximum durability. The 1" tall blade body reduces blade twisting for straighter, more accurate cuts.
Matrix II bi-metal teeth for greater durability.
 Includes: (5) 6" 5 TPI The Ax™ Sawzall® Blades

Features:
 A unique combination of relief angles forms a radius on the back of the tooth that reduces stress build-up during cutting and substantially extends blade life.
 Ice Hardened for up to 50% longer life.
 Matrix II bi-metal teeth for greater durability.
 Precision forming process creates sharper teeth for fast cutting.



Milwaukee 49-22-1131 14 Piece Ice Edge Sawzall Blade Set

Ice edge ultimate metal cutting Sawzall blade kit 14-piece kit with roll up pouch
 Unique cryogenic heat treat process provides tougher teeth for extreme applications.
 Up to 50-piece longer life
 Features Milwaukee's best selling 6-inch Super Sawzall blades and our popular 9-inch torch blades



Bosch BIM STP Holesaw US 5/8-Inch (Bi-Metal)		
SKU	Description	Mfg Part #
HB063	HOLE SAW BI-METAL 5/8"	HB063
HB075	HOLE SAW BI-METAL 3/4"	HB075
HB087	HOLE SAW BI-METAL 7/8"	HB087
HB100	HOLE SAW BI-METAL 1"	HB100
HB112	HOLE SAW BI-METAL 1-1/8"	HB112
HB125	HOLE SAW BI-METAL 1-1/4"	HB125
HB136	HOLE SAW BI-METAL 1-3/8"	HB136
HB150	HOLE SAW BI-METAL 1-1/2"	HB150
HB175	HOLE SAW BI-METAL 1-3/4"	HB175

Easy Quick Change and Simple Plug Removal. Now you can work faster - and smarter - using our patented Quick Change Universal Hole Saw System. Its revolutionary design and our universal mandrel works with any brand of tool or hole saw to let you change saws in seconds. The expanded family of Bosch hole saws now includes new carbide multi-material and sheet metal saws.

Bosch HB17PL Bi-Metal Plumber's Hole Saw Set, 17- Piece	
SKU: HB17PL	Mfg Part #: HB17PL
17 Piece Plumber's Bi-Metal Hole Saw Kit Bosch parts keep your tools working their best for any application you can come up with. Features: 17 Pieces Bi-Metal Construction Bosch has been in the headlines of state of the art development for over 100 years. From the invention of the jigsaw to their ergonomic designed tools, Bosch as cared about the customer since they started business in 1886.	

Bosch HB19EL Bi-metal 19-Piece Hole Saw Electrician Set	
SKU: HB19EL	Mfg Part #: HB19EL
Easy quick change and simple plug removal. Now you can work faster - and smarter - using our patented Quick Change Universal Hole Saw System. Its revolutionary design and our universal mandrel works with any brand of tool or hole saw to let you change saws in seconds. The expanded family of Bosch hole saws now includes new carbide multi-material and sheet metal saws.	

Bosch BIM STP Holesaw US 5/8-Inch (Bi-Metal)		
SKU	Description	Mfg Part #
HB200	HOLE SAW BI-METAL 2"	HB200
HB212	HOLE SAW BI-METAL 2-1/8"	HB212
HB225	HOLE SAW BI-METAL 2-1/4"	HB225
HB250	HOLE SAW BI-METAL 2-1/2"	HB250

Easy Quick Change and Simple Plug Removal. Now you can work faster - and smarter - using our patented Quick Change Universal Hole Saw System. Its revolutionary design and our universal mandrel works with any brand of tool or hole saw to let you change saws in seconds. The expanded family of Bosch hole saws now includes new carbide multi-material and sheet metal saws.



Bosch HB25M Bi-metal 25-Piece Hole Saw Master Set	
SKU: HB25M	Mfg Part #: HB25M
25 Piece Bi-Metal Master Set Bosch parts keep your tools working their best for any application you can come up with. Features: 25 Pieces Bi-Metal Construction Bosch has been in the headlines of state of the art development for over 100 years. From the invention of the jigsaw to their ergonomic designed tools, Bosch as cared about the customer since they started business in 1886.	



Bosch BIM STP Holesaw US 3-Inch (Bi-Metal)		
SKU	Description	Mfg Part #
HB300	HOLE SAW BI-METAL 3"	HB300
HB363	HOLE SAW BI-METAL 3-5/8"	HB363
HB412	HOLE SAW BI-METAL 4-1/8"	HB412

Easy Quick Change and Simple Plug Removal. Now you can work faster and smarter using our patented Quick Change Universal Hole Saw System. Its revolutionary design and our universal mandrel works with any brand of tool or hole saw to let you change saws in seconds. The expanded family of Bosch hole saws now includes new carbide multi-material and sheet metal saws.

Bosch Diamond Grit Hole Saw		
SKU	Description	Mfg Part #
HDG11	HOLE SAW 1" 25mm DIA - MOND GRIT	HDG11
HDG12	HOLE SAW 1/2" 12mm DIA - MOND GRIT	HDG12
HDG138	HOLE SAW 1-3/8" 35mm DIAMOND GRIT	HDG138

Bosch Power Tools and Accessories is one of the divisions within the Robert Bosch Tool Corporation, which is one of the largest power tool and accessory manufacturers in the world. Bosch provides a complete line of corded and cordless power tools and accessories engineered to survive any jobsite and allow professionals to take control of their work.

Bosch HDG138QA Diamond HS 1-3/8" starter set	
SKU: HDG138QA	Mfg Part #: HDG138QA
The Bosch diamond grit hole saw is one of the latest additions to the Bosch hole saw product line. The hole saw features vacuum brazing technology for faster cutting and longer life than competitive products. As with Bosch's entire line of hole saws, these products are part of the patented Quick Change universal hole saw system, which lets you change hole saws in seconds. Bosch's new diamond grit hole saws start fast and simple, every time.	





Masonry / Concrete Drilling

Bosch brings constant innovation to concrete and masonry drilling. From inventing the industry standard SDS system to custom-manufactured carbide and diffusion bonding, the result is better performance and durability. And Bosch Bulldog™ Xtreme bits last 4x longer than any other bit when hitting rebar.

SDS PLUS	Mfg Part #
Bit SDS-Plus 3/8" x 6" x 8"	HAWB80015
Bit SDS-Plus 9/16" x 4" x 6"	HAWB80025
Bit SDS-Plus 5/8" x 16" x 18"	HAWB80029
Bit SDS-Plus 3/4" x 6" x 8"	HAWB80030
Bit SDS-Plus 3/4" x 10" x 12"	HAWB80031
Bit SDS-Plus 7/8" x 6" x 8"	HAWB80033
Bit SDS-Plus 7/8" x 10" x 12"	HAWB80034
Bit SDS-Plus 7/8" x 16" x 18"	HAWB80035
Bit SDS-Plus 1" x 8" x 10"	HAWB80036
Bit SDS-Plus 5/32" x 2" x 4"	HAWB80038
Bit SDS-Plus 3/16" x 2" x 4"	HAWB80039
Bit SDS-Plus 5/32" x 4" x 6"	HC2001
Bit Bulldog 5/32" x 4" x 6" (25PK)	HC2001B25
Bit SDS+ 3/16" x 4" x 6" BD Series	HC2011B25
Bit SDS+ 3/16" x 6" x 8" BD Series	HC2012
Bit SDS+ 3/16" x 10" x 12" BD Series	HC2014
Bit SDS+ 1/4" x 4" x 6"	HC2041B25
Bit SDS+ 1/4" x 6" x 8" BD Series	HC2042B25
Bit SDS+ 5/16" x 4" x 6" BD Series	HC2051
Bit SDS+ 3/8" x 4" x 6" BD Series	HC2061
Bit Bulldog 3/8" x 4" x 6" (25PK)	HC2061B25
Bit SDS+ 3/8" x 10" x 12" BD Series	HC2064
Bit SDS+ 3/8" x 16" x 18" BD Series	HC2067
Bit SDS+ 1/2" x 4" x 6" BD Series	HC2081
Bit Bulldog 1/2" x 4" x 6" (25PK)	HC2081B25
Bit SDS+ 1/2" x 10" x 12" BD Series	HC2084
Bit SDS+ 9/16" x 10" x 12" BD Series	HC2094
Bit Bulldog 5/8" x 6" x 8" (25PK)	HC2102B25
Bit SDS-Plus 3/4" x 6" x 8"	HC2122
Bit SDS-Plus 3/4" x 10" x 12"	HC2124
Bit SDS-Plus 3/4" x 16" x 18"	HC2127
Bit SDS-Plus 7/8" x 16" x 18"	HC2147
Bit SDS-Plus TAPCON 3/16" x 7"	HC2312
Bit SDS+ 3/16" x 2" x 4" Xtreme	HCFC2010
Bit SDS+ 3/16" x 4" x 6-1/2" Xtreme	HCFC2011
Bit SDS-Plus 3/16" x 6-1/2"	HCFC2011B25

Bit SDS+ 1/4" x 4" x 6-1/2 Xtreme	HCFC2041
Bit SDS+ 1/4" x 6" x 8-1/2 Xtreme	HCFC2042
Bit SDS-Plus 5/16x4x6	HCFC2051B25
Bit SDS Plus 3/8" x 4" x 6"	HCFC2061B25
Bit SDS+ 3/8" x 10" x 12" Xtreme	HCFC2064
Bit SDS+ 1/2" x 16" x 18" Xtreme	HCFC2087
Bit SDS+ 5/8" x 6" x 8-1/2 Xtreme	HCFC2102
Bit SDS+ 5/8" x 10" x 12" Xtreme	HCFC2103
Bit SDS+ 3/4" x 8" x 10" Xtreme	HCFC2224
Bit SDS-Plus 7PC Set	HCK001
Bit SDS-Plus 3/16" x 4" x 6"	HWAB80002
SDS-Max	Mfg Part #
Bit SDS-Max 1/2" x 8" x 13"	HC5010
Bit SDS-Max 1/2" x 16" x 21"	HC5011
Bit SDS-Max 1/2" x 21" x 28"	HC5013
Bit SDS-Max 9/16" x 8" x 13"	HC5015
Bit SDS-Max 9/16" x 16" x 21"	HC5016
Bit SDS-Max 5/8" x 8" x 13"	HC5020
Bit SDS-Max 5/8" x 16" x 21"	HC5021
Bit SDS-Max 5/8" x 31" x 36"	HC5023
Bit SDS-Max 3/4" x 8" x 13"	HC5030
Bit SDS-Max 3/4" x 16" x 21"	HC5031
Bit SDS-Max 3/4" x 31" x 36"	HC5033
Bit SDS-Max 7/8" x 8" x 13"	HC5040
Bit SDS-Max 7/8" x 16" x 21"	HC5041
Bit SDS-Max 1" x 8" x 13"	HC5050
Bit SDS-Max 1" x 16" x 21"	HC5051
Bit SDS-Max 1" x 31" x 36" BOSCH	HC5053
Bit SDS-Max 1-1/8 x 8 x 13	HC5060
Bit SDS-Max 1-1/8" x 16" x 21"	HC5061
Bit SDS-Max 1-1/4" x 16" x 21"	HC5071
Bit SDS-Max 1-5/16" x 18" x 23"	HC5076
Bit SDS-Max 1-1/2" x 16" x 21"	HC5091

Spline Drive	Mfg Part #
Bit Spline 5/8" x 8" x 13"	HC4021
Bit Spline 5/8" x 16" x 21"	HC4022
Bit Spline 5/8" x 22" x 27"	HC4023
Bit Spline 3/4" x 6" x 11"	HC4030
Bit Spline 3/4" x 8" x 13"	HC4031
Bit Spline 3/4" x 18" x 23"	HC4032
Bit Spline 27/32" x 11" x 16"	HC4039
Bit Spline 7/8" x 8" x 13"	HC4040
Bit Spline 7/8" x 18" x 23"	HC4041
Bit Spline 7/8" x 24" x 29"	HC4042
Bit Spline 1" x 8" x 13"	HC4050
Bit Spline 1" x 16" x 21"	HC4051
Bit Spline 1" x 31" x 36"	HC4053
Bit Spline 1-1/8" x 8" x 13"	HC4060
Bit Spline 1-1/4" x 11" x 16"	HC4070
Bit Spline 1-1/4" x 16" x 21"	HC4071
Bit Spline 3/8" x 18" x 23"	HC4081
Bit Spline 1-1/2" x 16" x 21"	HC4091
Bit Spline 3/8" x 8" x 13"	HC4501
Bit Spline 1/2" x 8" x 13"	HC4511
Bit Spline 1/2" x 18" x 23"	HC4512
Bit Spline 5/8" x 18" x 23"	HC4522
Bit Spline 3/4x6x11	HC4530
Bit Spline 3/4" x 11" x 16"	HC4531
Bit Spline 7/8" x 11" x 16"	HC4540
Bit Spline 7/8" x 18" x 23"	HC4541
Bit Spline 1" x 11" x 16"	HC4550

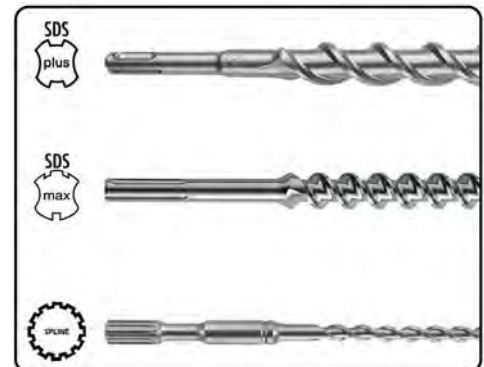




IMAGE	SKU	MFG PART #	NAME	SIZE	INFO	APPLICATIONS
	DSB5013P		Standard Spade Set	1/4-1 1/2	Includes 1/4, 3/8, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8 and 1 1/2 Inx 4 In Long With Pouch	Wood
	RZ200052	RZ2000-52	The RZ2000		The RZ2000 is designed with unparalleled control thanks to variable speed, constant speed control circuitry.	Wood, Steel, Tile, Etc.
	SDH1 SDH2 SDH3 SDH6	SDH1 SDH2 SDH3 SDH6	High Speed Steel Step Drill Bit	1/8"-1/2" 3/16"-7/8" 1/8"-1/2" 3/16"-1/2"	The Bosch line of step drills offers contractors the ability to drill up to 13 different sized holes with just one bit.	Electrical, Plumbing and HVAC Contractors
	SS35510		5.5 Amp Spiral Saw Kit		Powerful 5.5 amp 30,000 RPM MagnaCore motor for incredible performance	Wood, Steel, Tile, Etc.
	T121AF3 T121BF3 T121GF3	T121AF3 T121BF3 T121GF3	Bosch T121AF3 3-5/8-Inch X 21-Tpi Bim Speed	3-5/8-Inch overall length, 2-5/8-Inch working length	Bosch is the world-wide market leader for jig saw blades. This means uncompromising quality, innovative ideas and universal use.	Multi-Purpose
	TC1		Tilecut Bit	1/8-inch diameter	1/8" Solid Carbide Zip Bit, For Irregular Cuts Such As Angles, Pipe Holes & Outlet Holes Through Ceramic Wall Tile	Cement Board, Stucco and Plaster
	XBDC1		Duracut Xbit	Shank Diameter: 1/4"	Durable carbide cutting teeth.	Cuts cement board, stucco, plaster, and fiberglass.
	XBMP2		Drywall X Bit , 2-Pack	5/32-Inch	The RotoZip XB-DW Drywall Bit allows you to make faster, controlled cuts in drywall.	Drywall
	XBFT1		Tilecut X Bit	5/32-inch diameter	The Carbide Zip Bit is specially designed for use with RotoZip tools on ceramic wall tile (only soft tile with glazing), cement board, stucco and plaster.	Cement Board, Stucco and Plaster



IMAGE	SKU	MFG PART #	NAME	SIZE	INFO	APPLICATIONS
	SC4		Zip Bit for Wood and Plastic, 4-Pack	1/8-Inch	For use with RotoZip Spiral Saw power tools.	Designed to cut a variety of materials from wood to fiberglass
	XCT1000		Diamond XCORES Tile Cutting Hole Saw	1-Inch	The new line of Rotozip Tile Hole Saws, the XCORES, were designed for improved performance and durability.	Tile, Granite
	XCT1375		Diamond Xcores Tile Cutting Hole Saw	1-3/8"	Make quick, clean cuts without using water with this Rotozip 1-3/8" Diamond Xcores Tile Cutting Hole Saw (XCT1375).	Tile, Granite
	XCT750		Diamond Xcores Tile Cutting	3/4"	The new line of Rotozip Tile Hole Saws, the XCORES, were designed for improved performance and durability.	Tile, Granite
	ZB50	ZB50	Standard Point Dry-wall ZipBit	1/8 inch shank	For use with Rotozip and Dremel Rotary Tools.	Drywall
	ZB8	ZB8	Standard Point Bit	1/8-Inch shank	The RotoZip ZB8 Standard Point Bit is a great accessory to partner with your spiral saw.	Drywall
	85232	85232	Straight Bit	3/4, 1/4 Shk., 2 Flt., C.T.	Carbide tipped double flute straight bits are micrograin bits designed to give excellent smoothness of cut.	
	B14601 B14602 B14603 B14604 B14605 B14606 B14607 B14609 B14615	B14601 B14602 B14603 B14604 B14605 B14606 B14607 B14609 B14615	Brad Point Precision Drill Bit	1/8" 3/16" 1/4" 5/16" 3/8" 7/16" 1/2' 5/8" 6PC SET	Tips provide easy positioning and accurate starts Extra-wide flutes yield fast chip removal	Bosch's line of Brad Point bits are designed for drilling smooth clean holes in wood.



Bosch Fractional Jobber Length



SKU	MFG PART #	INFO
BL4139	BL4139	BIT HIGH SPEED 3/16" BLK OX 12PK
BL4143	BL4143	BIT HIGH SPEED 1/4" BLK OX 12PK
BL4144	BL4144	BIT HIGH SPEED 17/64" BLK 6PK
BL4159	BL4159	BIT HIGH SPEED 1/2" BLK OX 6PK

Bosch Fractional Jobber Length



SKU	MFG PART #	INFO
CO2159	CO2159	BIT HIGH SPEED 1/2" COBALT
CO2131	CO2131	BIT HIGH SPEED 1/16" COBALT
CO2132	CO2132	BIT HIGH SPEED 5/64" COBALT
CO2133	CO2133	BIT HIGH SPEED 3/32" COBALT
CO2134	CO2134	BIT HIGH SPEED 7/64" COBALT
CO2135	CO2135	BIT HIGH SPEED 1/8" COBALT
CO2136	CO2136	BIT HIGH SPEED 9/64" COBALT
CO2137	CO2137	BIT HIGH SPEED 5/32" COBALT
CO2138	CO2138	BIT HIGH SPEED 11/64" COBALT
CO2139	CO2139	BIT HIGH SPEED 3/16" COBALT
CO2141	CO2141	BIT HIGH SPEED 7/32" COBALT
CO2143	CO2143	BIT HIGH SPEED 1/4" COBALT
CO2147	CO2147	BIT HIGH SPEED 5/16" COBALT
CO2151	CO2151	BIT HIGH SPEED 3/8" COBALT
CO2155	CO2155	BIT HIGH SPEED 7/16" COBALT
CO2159	CO2159	BIT HIGH SPEED 1/2" COBALT

Bosch Glass and Tile Bit



SKU	MFG PART #	INFO
GT100	GT100	BIT GLASS & TILE 1/8"
GT1000	GT1000	BIT GLASS & TILE 1"
GT200	GT200	BIT GLASS & TILE 3/16"
GT2000	GT2000	BIT GLASS & TILE 4pc SET
GT300	GT300	BIT GLASS & TILE 1/4"
GT3000	GT3000	BIT GLASS & TILE 8pc SET
GT400	GT400	BIT GLASS & TILE 5/16"
GT500	GT500	BIT GLASS & TILE 3/8"
GT600	GT600	BIT GLASS & TILE 1/2"
GT700	GT700	BIT GLASS & TILE 5/8"
GT800	GT800	BIT GLASS & TILE 3/4"
GT900	GT900	BIT GLASS & TILE 7/8"

Bosch Blue Granite Hammer Drill Bit Carbide Tip Starter Set



SKU	MFG PART #	INFO
HCB09	HCB-09	BIT STRT SHK 5/16"X4X6
HCBG03	HCBG-03	BIT STRT SHK 3/16"X2X3
HCBG04	HCBG-04	BIT STRT SHK 3/16"X4X6
HCBG06	HCBG06	BIT STRT SHK 1/4" X 4" X 6"
HCBG09	HCBG-09	BIT STRT SHK 5/16"X4X6
HCBG12	HCBG12	BIT STRT SHK 3/8" X 4" X 6"
HCBG14	HCBG14	BIT STRT SHK 3/8" X 10" X 12"
HCBG15	HCBG15	BIT STRT SHK 7/16" X4" X 6"
HCBG16	HCBG16	BIT STRT SHK 1/2" X 4" X 6"
HCBG18	HCBG18	BIT STRT SHK 1/2" X 10" X 12"
HCBG19	HCBG19	BIT STRT SHK 9/16" X 7-1/2" X 10
HCBG20	HCBG20	BIT STRT SHK 5/8" X 4" X 6"
HCBG22	HCBG-22	BIT STRT SHK 3/4"X4X6
HCBG24	HCBG24	BIT STRT SHK 7/8" X 4" X 6"
HCBG25	HCBG-25	BIT STRT SHK 7/8"X10X12
HCBG26	HCBG26	BIT STRT SHK 1" X 4" X 6"
HCBG500	HCBG500	BIT STRT SHK 5pc SET

Bosch Titanium SP Jobber Red Drill Bit



SKU	MFG PART #	SIZE
TI2131	TI2131	1/16"
TI2132	TI2132	5/64"
TI2133	TI2133	3/32"
TI2134	TI2134	7/64"
TI2136	TI2136	9/64"
TI2138	TI2138	11/64"
TI2139	TI2139	3/16"
TI2140	TI2140	13/64"
TI2142	TI2142	15/64"
TI2143	TI2143	1/4"
TI2144	TI2144	17/64"
TI2145	TI2145	9/32"
TI2147	TI2147	5/16"
TI2148	TI2148	21/64"
TI2149	TI2149	11/32"
TI2150	TI2150	23/64"
TI2151	TI2151	3/8"
TI2152	TI2152	25/64"
TI2153	TI2153	13/32"
TI2154	TI2154	27/64"
TI2155	TI2155	7/16"
TI2156	TI2156	9/64"
TI2157	TI2157	15/32"
TI2158	TI2158	31/64"
TI2159	TI2159	1/2"

Bosch Carbide Tipped Rabbeting Router Bit



SKU	MFG PART #	SIZE
85285	85285	FLUSH TRIM S.C.
85216M	85216M	LAMINATE TRIM 1/2"
85218M	85218M	RABBETING 3/8" C.T.
85224M	85224M	STRAIGHT 5/16" 2 FLT
85225M	85225M	STRAIGHT 3/8" 2 FLT
85227M	85227M	STRAIGHT 1/2" 2 FLT
85230M	85230M	STRAIGHT 5/8" 2 FLT
85244M	85244M	1/4" 1 FLT C.T.
85245M	85245M	PILOT PANEL 3/8"
85249M	85249M	HINGE MORTISE 1/2"
85250M	85250M	STRAIGHT 1/4" 2 FLT
85268M	85268M	LAMINATED TRIM 3/8"
85271M	85271M	ROMAN OGEE 1/4" RAD.
85290M	85290M	ROUND OVER 1/4" RAD.
85293M	85293M	ROUND OVER 3/16" RAD.
85294M	85294M	ROUND OVER 1/4" RAD.
85295M	85295M	ROUND OVER 5/16" RAD.
85296M	85296M	ROUND OVER 3/8" RAD.
85297M	85297M	ROUND OVER 1/2" RAD.
85298M	85298M	CHAMFER 11/16" C.T.
85431M	85431M	BEVEL TRIM ASSM 10"
85496M	85496M	BEADING 3/8" RAD.
85614M	85614M	RABBETING 1/2" W/BB

Bosch Installer Bell Hanger Bit



SKU	MFG PART #	SIZE
BH1001	BH1001	1/4 X 12"
BH1002	BH1002	5/16 X 12"
BH1003	BH1003	3/8 X 12"
BH1005	BH1005	1/2 X 12"
BH2001	BH2001	1/4 X 18"
BH2002	BH2002	5/16 X 18"
BH2003	BH2003	3/8 X 18"
BH2005	BH2005	1/2 X 18"
BH3001	BH3001	1/4 X 24"
BH3002	BH3002	5/16 X 24"
BH3003	BH3003	3/8 X 24"
BH3005	BH3005	1/2 X 24"

Bosch Forstner Bit



SKU	MFG PART #	SIZE
FB004	FB004	1/4"
FB006	FB006	3/8"
FB008	FB008	1/2"
FB010	FB010	5/8"
FB012	FB012	3/4"
FB014	FB014	7/8"
FB016	FB016	1"
FB018	FB018	1-1/8"
FB020	FB020	1-1/4"
FB022	FB022	1-3/8"



Bosch Black Oxide SP Jobber



SKU	MFG PART #	SIZE
BL2131	BL2131	1/16"
BL2132	BL2132	5/64"
BL2134	BL2134	7/64"
BL2135	BL2135	1/8"
BL2136	BL2136	9/64"
BL2137	BL2137	5/32"
BL2138	BL2138	11/64"
BL2139	BL2139	3/16"
BL2140	BL2140	13/64"
BL2141	BL2141	7/32"
BL2142	BL2142	15/64"
BL2143	BL2143	1/4"
BL2144	BL2144	17/64"
BL2145	BL2145	9/32"
BL2146	BL2146	19/64"
BL2147	BL2147	5/16"
BL2148	BL2148	21/64"
BL2149	BL2149	11/32"
BL2150	BL2150	23/64"
BL2151	BL2151	3/8"
BL2152	BL2152	25/64"
BL2153	BL2153	13/32"
BL2154	BL2154	27/64"
BL2155	BL2155	7/16"
BL2156	BL2156	29/64"
BL2157	BL2157	15/64"
BL2158	BL2158	31/64"
BL2159	BL2159	1/2"

DareDevil Spade Bit



SKU	MFG PART #	SIZE
DSB1001	DSB1001	1/4"
DSB1002	DSB1002	5/16"
DSB1003	DSB1003B	3/8"
DSB1004	DSB1004	7/16"
DSB1005	DSB1005	1/2"
DSB1006	DSB1006B	9/16"
DSB1007	DSB1007B	5/8"
DSB1008	DSB1008	11/16"
DSB1009	DSB1009B	3/4"
DSB1010	DSB1010	13/16"
DSB1011	DSB1011B	7/8"
DSB1012	DSB1012B	15/16"
DSB1013	DSB1013B	1"
DSB1015	DSB1015	1-1/8"
DSB1017	DSB1017B	1-1/4"
DSB1019	DSB1019	1-3/8"
DSB1021	DSB1021B	1-1/2"
DSB5006	DSB5006	SET 6PC
DSBE1006	DSBE1006	6"
DSBE1012	DSBE1012	12"
DLSB1003	DLSB1003	3/8 X 16"
DLSB1005	DLSB1005	1/2 X 16"
DLSB1007	DLSB1007	5/8 X 16"
DLSB1009	DLSB1009	3/4 X 16"
DLSB1011	DLSB1011	7/8 X 16"
DLSB1013	DLSB1013	1 X 16"

Hammer Drill Bit, Round



SKU	MFG PART #	SIZE
HCBG01T	HCBG01T	1/8X2X4
HCBG02T	HCBG02T	5/32X3X6
HCBG04T	HCBG04T	3/16X4X6
HCBG06T	HCBG06T	1/4X4X6
HCBG09T	HCBG09T	5/16X4X6
HCBG12T	HCBG12T	3/8X4X6
HCBG14T	HCBG14T	3/8X10X12
HCBG15T	HCBG15T	7/16X4X6
HCBG16T	HCBG16T	1/2X4X6
HCBG18T	HCBG18T	1/2X10X12
HCBG19T	HCBG19T	9/16X8X10
HCBG20T	HCBG20T	5/8X4X6
HCBG22T	HCBG22T	3/4X4X6
HCBG24T	HCBG24T	7/8X4X6
HCBG26T	HCBG26T	1X4X6
HCBG50T	HCBG50T	5 PC

Bit Philips

Bosch Daredevil Auger Bits



SKU	MFG PART #	SIZE
NKLT08	NKLT08	1/2 X 17"
NKLT09		9/16" X 17"
NKLT10	NKLT10	5/8 X 17"
NKLT12	NKLT12	3/4 X 17"
NKLT14	NKLT14	7/8 X 17"
NKLT16	NKLT16	1 X 17"
NKLT18	NKLT18	1-1/8 X 17"
NKLT20	NKLT20	1-1/4 X 17"
NKST04	NKST04	1/4 X 7-1/2"
NKST05	NKST05	5/16 X 7-1/2"
NKST06	NKST06	3/8 X 7-1/2"
NKST07	NKST07	7/16 X 7-1/2"
NKST08	NKST08	1/2 X 7-1/2"
NKST09	NKST09	9/16 X 7-1/2"
NKST10	NKST10	5/8 X 7-1/2"
NKST12	NKST12	3/4 X 7-1/2"
NKST14	NKST14	7/8 X 7-1/2"
NKST16	NKST16	1 X 7-1/2"
NKST18	NKST18	1-1/8 X 7-1/2"
NKST20	NKST20	1-1/4 X 7-1/2"



Bosch Self-Feeding Bit

SKU	MFG PART #	SIZE
SF1121	SF1121	1-1/8"
SF1501	SF1501	1-1/2"
SF1751	SF1751	1-3/4"
SF2001	SF2001	2"
SF2121	SF2121	2-1/8"
SF2561	SF2561	2-9/16"

Philips Bit



Point Size: 2;
Overall Length: 1";
Pieces/Fb: 500 Pcs.

SKU	MFG PART #	SIZE
FB250PB2	FB-250PB2	#2 1"LONG

Mag Bit Holder 3" Long



SKU	MFG PART #	SIZE
MBH1/4	MBH 1/4	1/4"



Qualtool Premium Magnetic Nutsetter, 5-Pack

SKU	MFG PART #	SIZE
MSHL1/2	MSHL 1/2	1/2" X 2-9/16
MSHL1/4	MSHL 1/4	1/4" X 2-9/16
MSHL3/8	MSHL 3/8	3/8" X 2-9/16
MSHL5/16	MSHL 5/16	5/16" X 2-9/16

Need a product that is not listed? Call us!

Quick Release Tear Drop Ratchet



Full Polish Chrome Handle
Bright Chrome Finish
Quick-Release Drive Tool Retention
Teardrop Shaped Head

SKU	DESCRIPTION
81309	RATCHET 1/2" QUICK RELEASE
TR0012	RATCHET 1/2 DR QUICK RELEASE

GearWrench 81307 1/2-Inch Drive Full Polish Flex Handle 15-Inch



Impact Socket Set 11Pc 1/2" Dr 20895A



11 Piece, Standard Length, 10Mm, 11Mm, 12Mm, 13Mm, 14Mm, 15Mm, 16Mm, 17Mm, 18Mm, 19Mm, 21Mm



Bosch Impact

Bosch has engineered a line of screw driving bits, nut setters and sockets that can handle the torque in the increasing applications where impact drivers are used

SKU	DESCRIPTION
27286	BOSCH 1/2" DEEP IMPACT SET 9PC
27275	BOSCH 1/2" DEEP WELL 1/2" IMPACT
27280	BOSCH 11/16" DEEP WELL 1/2" IMPACT
27282	BOSCH 13/16" DEEP WELL 1/2" IMPACT
27284	BOSCH 15/16" DEEP WELL 1/2" IMPACT
27281	BOSCH 3/4" DEEP WELL 1/2" IMPACT
27273	BOSCH 3/8" DEEP WELL 1/2" IMPACT
27271	BOSCH 5/16" DEEP WELL 1/2" IMPACT
27279	BOSCH 5/8" DEEP WELL 1/2" IMPACT
27274	BOSCH 7/16" DEEP WELL 1/2" IMPACT
27283	BOSCH 7/8" DEEP WELL 1/2" IMPACT
27276	BOSCH 9/16" DEEP WELL 1/2" IMPACT

Spud Wrench for Utility Bolt



SKU	Info
3232	WRENCH ERECTION 3/4"
3231	WRENCH ERECTION 5/8" BOLT

Adjustable Head Construction Wrench with 1-1/2" Jaw Capacity, 16" Long



IRWIN Tools VISE-GRIP Adjustable Wrench



SKU	DESCRIPTION
2078610	10" ADJUSTABLE WRENCH
2078700	2 PC ADJUSTABLE WRENCH 6", 10"
2078606	6" ADJUSTABLE WRENCH
2 078608	8" ADJUSTABLE WRENCH

IRWIN Tools VISE-GRIP Pipe Wrench



SKU	Info
274101	PIPE WRENCH 10"
274106	PIPE WRENCH 12"
274102	PIPE WRENCH 14"
274103	PIPE WRENCH 18"

Aluminum Quick Adjust Pipe Wrench



The IRWIN Vise-Grip Quick-Adjusting Pipe Wrench was designed by the professional seeking to enhance the speed.

SKU	DESCRIPTION
274001SM	11" Quick Adjusting Pipe Wrench
2074114	14" Cast Aluminum Pipe Wrench

6" Long Nose Locking Pliers 1402L3



Irwin 03-7R Vise Grip 1-1/8-Inch Jaw Capacity 7-Inch Straight Jaw Locking Plier



Straight jaws allow for maximum contact on flat, square, or hex work
Adjusting screw gives exacting pressure
Guarded release helps keep work safe and fast

The Original™ Curved Jaw Locking Pliers with Wire Cutter



SKU	DESCRIPTION
502L3	10WRO Original Curved Jaw Plier
702L3	7WRO Orig Curved Jaw 7" Plier

FAST REL CURVED JAW 10IN



CURVED JAW Brand:"VISE GRIP"

SKU	DESCRIPTION
11T	10CR0 Fast Release C J Plier
13T	7CR0 Fst Rel Curved Jaw 7" Plier
15T	9LN0 Fst Rel Long Nose 9" Plier

Hand Tools

IRWIN Tools VISE-GRIP Locking Pliers, Original, Straight Jaw, 10-inch, 25-Pack (102L3)



Ideal for tightening, clamping, twisting and turning. Classic trigger release provides maximum locking force. Constructed of high-grade heat-treated alloy steel for maximum toughness and durability.

Locking Pliers, Ergonomic, 5 In. L



Finish: Nickel Plated
Jaw Length: 7/8"
Jaw Width: 3/8"
Jaw Release Lever: 1-Handed-Screw Mechanism: Knurled Thumb Screw
Features: Fast Release

Irwin 23 Vise-Grip 8R 8" Locking Sheet Metal Tool



GV10 GrooveLock 10" V Jaw Pliers



Press and slide button quickly adjusts lower jaw

SKU	DESCRIPTION
2078110	GV10 GROOVELOCK 10" V JAW PLIER
4935096	GV10R GROOVELOCK 10" STRT PLIER
2078112	GV12 GROOVELOCK 12" V JAW PLIER
4935351	GV6 GROOVELOCK 6" V JAW PLIER
2078108	GV8 GROOVELOCK 8" V JAW PLIER
2078709	2 PC GROOVELOCK PLIER GV8, GV10

North American Lineman's Pliers



Durable nickel chromium steel construction

SKU	DESCRIPTION
2078208	8"
2078209	9.5"

Plier Set- Pliers Joint Set 2Pc From Irwin Vise Grip (Part Number 2078701)



Irwin 2078406 Vise-Grip 6" Slip Joint Pliers (SJ6)



Protouch 6.5" Convertible SnapRing Plier



IRWIN Tools VISE-GRIP Pliers, Diagonal Cutting, 6-Inch (2078306)



Channellock 350S 9-Inch Ironworkers Plier with Spring



Klein Tools D248-9ST 9-Inch High-Leverage Diagonal-Cutting Pliers



IRWIN Tools VISE-GRIP Pliers, Diagonal Cutting, 8-Inch (2078308)



Features durable nickel chromium steel construction. The ProTouch grips provide extra comfort and reduce hand fatigue.

Irwin 2078318 8" End Cutting Pliers



IRWIN Tools VISE-GRIP Plier, Groove Joint, Straight Jaw, 8-Inch (4935320)



Vise-Grip 2078218 8-Inch Long Nose Plier and Comfort Grip

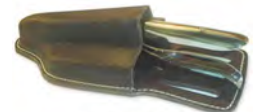


10-1/4" Fencing Pliers w/ProTouch Grips (2078901)



Miter Jaws™ Chamfer Cutter Hand Tool

Sylvan is best known for its Miter Jaws™ Chamfer Cutter Hand Tool, which combines the accuracy of a miter box with the speed and convenience of a hand tool. We also provide accessory items such as two models of cutter holsters, as well as replaceable blades and anvils. These are an industry favorite in trimming chamfer in concrete work, or house trim for moulding projects.



Replaceable Anvil



Stainless Steel Blades

IRWIN Tools VISE-GRIP Long Nose Pliers, 6-Inch (2078216)



Features durable nickel chromium steel construction. The ProTouch grips provide extra comfort and reduce hand fatigue.

Klein Tools D2000-7CST Ironworker's Work Pliers



Twists and cuts soft annealed rebar tie wire
Hook bend handle
Spring-loaded action for self-opening
Heavy-duty cutting knives

Diagonal Plier- Plier Diag-Cut Angle From Klein Tools (Part Number D248-8)



Irwin 22007 +Tinner Snip, 7" / 175 mm



IRWIN 21304ZR - 304 IRWIN EXTRACUT SNIPS 11-3/4



IRWIN Aviation Snip, Left And Straight Cut



SKU	Info
2073111	Aviation Snip/Left & Strt
2073112	Aviation Snip/Right & Strt

IRWIN Tools Offset Snips



SKU	Info
2073211	Offset Snip/Strt & Left
2073212	Offset Snip/Strt & Right

Wiss M3R 9-3/4" Metalmaster Compound Action Snips, Straight, Left, Right



IRWIN Tools VISE-GRIP Multi Tool Stripper, Cutter and Crimper, 8-Inch (2078309)



IRWIN Tools VISE-GRIP Self-Adjusting Wire Stripper, 8-Inch (2078300)



ProSnip Flat Blade Tinner Snips Straight and Wide Curve Cut



SKU	Info
22010	010 Tinner Snip, 10"
22012	012 Tinner Snip, 12-3/4"

Specialty Saw - Coping Replacement



SKU	Info
214500	Specialty Saw - Coping Replacement
2014501	Specialty Saw - Coping Replacement

KR Tools Pro Series Sabre Tooth Pull Saw



SKU	Info
2015100	Specialty Saw - Cushion Grip Mul
2014102	Specialty Saw - Drywall/Jab, 1.2
2014200	Specialty Saw - Professional Tool

IRWIN Premium Pro Dovetail Saw



SKU	Info
2014450	Specialty Saw - Premium Pro Dove
2014100	Specialty Saw - Premium Pro Dryw
2014400	Specialty Saw-Premium Pro Coping

Universal Crosscut Handsaw Fast Cut Design



SKU	Info
1773465	15" Universal Hand Saw
1773466	20" Universal Hand Saw

IRWIN Tools MARATHON Standard Coarse Cut Saw



SKU	Info
2011102	Carpenter Saw - 15" Coarse 9P, E
2011104	Carpenter Saw - 20" Coarse 9P

IRWIN Tools General Carpentry Pull Saw



SKU	Info
213101	Pull Saw - Carpenter 12"/305m
213103	Pull Saw 0 Double Edge - 9 1/2"/
213104	Pull Saw 0 Dovetail / Detail - 7

Hand Tools

IRWIN 211100 15-Inch Aggressive Tooth Hand Saw



Aggressive triple ground teeth
ProTouch 2-part polymer grip
Friction thread shoulder bolts
Stained hardwood handle
Magnetic blade guard

Irwin 218HP-300 12-Inch Combi-Saw with Wood Cutting and Hacksaw Blades



Welded frame offers excellent stability, no flex, and faster cut
The wood or metal blade gives you flexibility to either cut wood or metal
Knuckle guard protects your hand
Deep throat design enables the cutting of larger metal and plastic diameter pipes

Hammer Dalluge Dawg



SKU	Info
DD26C	HAMMER DALLUGE DAWG 21oz CUR HDL
DD26S	HAMMER DALLUGE DAWG 21oz STR HDL

Professional Framing Hammer Smooth



SKU	Info
999ML	HAMMER RIP FRMG 20oz VAUGHAN MIL
999L	HAMMER RIP FRMG 20oz VAUGHAN S/F
CF1HC	HAMMER RIP FRMG 23oz VAUGHAN MI
CF1	HAMMER RIP FRMG 23oz VAUGHAN MIL

Milled Head Hammer, 17 Oz.



SKU	Info
13220	HAMMER STEALTH 17 OZ. MILL FACE
13210	HAMMER STEALTH 17 OZ. SMOOTH

Solid steel rip hammer with milled face
17 oz. head weight with the largest striking face on the planet
Driving power of a 32 oz. framer

Estwing E3-22SM Framing Hammer Metal Handle



Forged one-piece solid steel construction
Full polished
Straight claw
Nylon-vinyl grip
16-Inch, milled face

Dead On DO21C 21oz Milled Face 19-Inch Curved Hickory Handle



Head is made with S-7 tool steel
The Dead On hammer handles also feature the finest grade hickory for years of trouble free use
Magnetic nail set for plumb and line, sheeting or any other out of reach nail start

Vaughan 999 20 Oz Milled Face Ripping Hammer Metal Handle R999ML



HAMMER STEEL 22 OZ ESTWING



Magnetic Push Broom



SKU	Info
MC18	MAGNETIC BROOM 24"
7897440	MAGNETIC MINI SWEEP - ER 15"
9939505	MAGNETIC PICK UP PALS

Mintcraft Rubber Mallet



SKU	Info
JLO0153L	MALLET RUBBER 24oz
JLO0343L	MALLET RUBBER 32oz

Hand Hammer Tacker Kit



SKU	Info
H30	STAPLE CROWN HAMMER TACKER STAN
4339438	STAPLES POWER CROWN 1/4"
4339560	STAPLES POWER CROWN 3/8"

AXE MICHIGAN 3.5LB CURVED HANDLE



Width(In): 8.5
Height(In): 1.5
Length(In): 34.5

Fat Dude Shooter with Hangnail



Product ID#: FDS14, FDS19, FDS24P, FDS36, FDS48

We were the first to put a hefty 2-1/2lb drive handle on the tool to make driving the nails easier and faster.

Vaughan's Bear Claw Nail Puller



SKU	Info
BC12	NAIL PULLER 12" BEAR CLAW
BC14	NAIL PULLER 14" BEAR CLAW -

Fulton TW24WB 24-Inch Heavy-Duty Wrecking Bar



The Wrecker, 24" Heavy Duty Wrecker Bar, Unique Rocker Head Creates More Power Without Blocking, Extra Long Pull, No Reversing Of Bar Necessary, Push & Pull With Equal Force, Made In USA.

Vaughan B215L Original SuperBar, 21-Inch Long.



Essential tool for homeowners or tradesmen
21" length provides excellent leverage
"Shepherd's crook" rocker head is designed for maximum prying power

HK Porter RB4 3/8-Inch No.3 and 1/2-Inch No.4 Extendable Indexing Rebar Bender,



SKU	Info
RB4	INDEXING REBAR BEND - ER 3/8"-1/2"
RB5	INDEXING REBAR BEND - ER 5/8"
RB6	INDEXING REBAR BEND - ER 3/4"

Klein Tools 64311 Rebar Hickey for Bending No.6 Rebar 65-Degree Angle



SKU	Info
64311	REBAR BENDER 3/4"
64309	REBAR BENDER 3/8 1/2" COMBO
64308	REBAR BENDER 3/8"
64310	REBAR BENDER 5/8"
64312	REBAR BENDER 7/8" 1" 1-1/8"

Handle Length: 40-Inch
Head Type and Bending Angle: single 65-Degree
Hickey Size: 3Bends Rebar Size: No.6
Klein offers a lifetime warranty on material defects and workmanship for the normal life of the product.

Screwdriver, 10 In 1



Includes: #1 and #2 Phillips, 1/4 and 3/16" Slotted, 5/16 and 1/4" Nut Driver, T10 & T15 Torx, and #1 and #2 Square

8 In 1 Multi Tool (4935586)



Irwin 2051100 9 In 1 Multi Tool Screwdriver With Pro Touch Grip



Internal Bit & Nut Driver Storage
S-2 Grade Steel for Extended Life
ProTouch Grip for Maximum Torque
Convenient Tool

4 Pack Irwin Marples Bevel Edge All-Purpose Chisel with Strike Cap and ProTouch Handle



SKU	Info
1768777	1" Bevel Edge Chisel with Strike
1768774	1/2" Bevel Edge Chisel with Stri
1768772	1/4" Bevel Edge Chisel with Stri
1768776	3/4" Bevel Edge Chisel with Stri
1768781	3pc Bevel Edge Chisel with Strik

Hand Tools

Quick-Grip Metal Spring Clamp



SKU	Info
222601	1" Metal Spring Clamp
222702	2" Metal Spring Clamp

Quick-grip Spring Clamps



SKU	Info
58100	1" Resin Spring Clamp
58200	2" Resin Spring Clamp
58300	3" Resin Spring Clamp

Irwin Spring Clamps Jaw



SKU	Info
59100CD	1-1/2" HANDI-CLAMP
59200CD	2" HANDI-CLAMP
59400CD	4" HANDI-CLAMP

Irwin Quick-Grip C-Clamp



SKU	Info
225102ZR	2" C-Clamp
225103ZR	3" C-Clamp
225104	4" C-Clamp
225106	6" C-Clamp

Irwin Original Locking Clamp with Regular Tips



SKU	Info
19	11R Original 11" Locking Clamp
20	11SP Orig 11" Locking Clamp

Irwin Bar Clamps



SKU	Info
223112	12" Bar Clamp, Clutch Lock
223118	18" Bar Clamp, Clutch Lock
223124	24" Bar Clamp, Clutch Lock
223106	6" Bar Clamp, Clutch Lock

Quick-Grip Pipe Clamps



SKU	Info
224212	1/2" Pipe Clamp
224134	3/4" Pipe Clamp

IRWIN Tools QUICK-GRIP Bar Clamp / Spreader



SKU	Info
506QCN	6" QC Clamp/Spreader Next Genera
512QCN	12" QC Clamp/Spreader Next Gener
518QCN	18" QC Clamp/Spreader Next Gener
524QCN	24" QC Clamp/Spreader Next Gener

Irwin Industrial Tool Qc Xp Clamp



SKU	Info
2021412N	12" QC XP Clamp
2021424N	24" QC XP Clamp

Irwin Quick-Grip One-Handed Mini Bar Clamps



SKU	Info
54122	12" QUICK-GRIP Mini Clamp
5462	6" QUICK-GRIP Mini Clamp

Vise Grip 6R 6-Inch Locking C-Clamp



SKU	Info
17	6R Original 6" Locking Clamp
18	6SP Orig 6" Locking Clamp

IRWIN Tools QUICK-GRIP 100 Series Deep Throat C-Clamp, 2-inch by 3 1/2-inch Throat (225123)



Deep throat lets you use a smaller c-clamp on a larger project. Larger handle makes it easier to apply more clamping pressure with less hand fatigue.

Double-threaded screw reduces screw deflection and drift for faster clamping and allows you to apply 50% more clamping force than with most clamps.

Irwin Chain Clamp 9 " 18 " Jaw Capacity



Chain holds and locks around any shape or size
Ideal for awkward shape pieces
Turn screw to adjust pressure and fit work. Stays adjusted for repetitive use

Irwin - 226200 - Angle & Corner Clamps Angle



Angle & Corner Clamps; Angle Type: Fixed; Number of Axes: 2; Maximum Capacity (Inch): 3; Maximum Capacity (Decimal Inch): 3.0000; Maximum Clamping Angle (): 90.00; Minimum Clamping Angle (): 90.00

Irwin Quick Grip 530062 2 Count 4-1/2-in Quick-Grip One-Handed Micro Bar Clamp



Converts to a spreader by reversing the clamp pads
1-3/16 throat depth
8 spreading capacity
4-1/4 clamping capacity
2 per card

IRWIN Tools QUICK-GRIP 90-Degree Angle Clamp (226410)



IRWIN Tools Heavy Duty Workshop Vise, 4-inch (226304ZR)



High-quality grey cast iron machined to close tolerances will not distort under high pressure. Provides more than 3000 pounds of clamping pressure.

IRWIN Tools Drywall Square, Aluminum



SKU	Info
1794476	ALUMINUM DRYWALL SQUARE 48"
1794448	ALUMINUM FRAMING SQUARE 16" x 24
1794465	ALUMINUM RAFTER SQUARE 12"
1794464	ALUMINUM RAFTER SQUARE 7"

IRWIN Tools Stair Gauges, Brass (1794481)



The Irwin Tools 1794481 Brass Stair Gauges are made to clamp onto a framing or carpenter square for repeat cuts such as in stairway work.

6 Pack Irwin 1794470 12" Combination Square Poly Body



Hand Tools

IRWIN Tools Combination Square, Metal-Body, 12-Inch (1794469)



Precision-etched scales provide accurate 90-degree and 45-degree readings. The cast zinc body is durable and gives this combination square a comfortable weight and heft.

IRWIN Tools Rafter Square, Hi-Vis, 8-Inch (1794466)



This professional tool has permanent deep stampings are durable. The aluminum body is rust-proof and weather-resistant. The square has multiple scales: 1/8-, 1/10-, 1/12-, and 1/16-inch.

IRWIN Tools Carpenter Square, Steel, 8-Inch by 12-Inch (1794462)



This professional tool has permanent deep stampings are durable. The aluminum body is rust-proof and weather-resistant. The square has multiple scales: 1/8-, 1/10-, 1/12-, and 1/16-inch.

IRWIN Tools Framing Square, Steel, 16-Inch by 24-Inch (1794449)



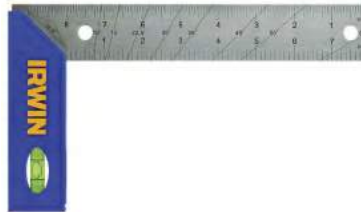
This professional tool has permanent deep stampings are durable. The Stainless Steel body is rust-proof and exceptionally durable. The square has multiple scales: 1/8-, 1/10-, 1/12-, and 1/16-inch.

IRWIN Tools T-Bevel, ABS (1794475)



T-Bevel is ideal as a depth gauge and for transferring angles. Features a rust-proof stainless steel blade and Black precision etched scales. The handle is made of high-impact ABS plastic that is extremely durable.

IRWIN Tools Tri and Mitre Square (1794473)



Black precision scales are etched for durability. Handle is high-impact ABS plastic. The stainless steel blade is rugged and rust-proof.

IRWIN Tools Magnetic Angle Locator (1794488)



This angle finder features a magnetic base and a V-Groove edge for conduit and pipe. The locator is very easy to use. The high-visibility indicator has clear registration marks that is easy to read.

Knife Blade Blue Irwin



SKU	Info
11921A	KNIFE BLADE BLUE 100 PK IRWIN
2084100	KNIFE BLADE BLUE 5PK IRWIN

Irwin Industrial Tools 2082200 ProTouch Retractable Utility Knife



Quick change mechanism allows for easy blade removal without opening the knife. Smooth, three-position slide provides increased durability for frequent use.

**We are
100%
employee
owned and
we
deliver the
solid
support
you expect.**

IRWIN HANSON - DIE 1-8 HRT HANSON - 585-7265



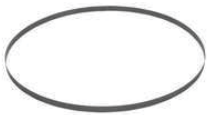
SKU	Info
7265	DIE 1" NC
7244	DIE 1/2" NC
7258	DIE 3/4" NC
7252	DIE 5/8" NC
7261	DIE 7/8" NC

Klein Tools 1604-20 Klein Tools Haven's Grip



Approximate weight of each: 2.08-Pounds
 Designed for use when light, compact grip is desired and where conductor damage is not a factor
 Gripping pressure of the knurled jaw is applied to 1/4-inch cable area

18TPI BAND SAW BLADE



Fast cutting: Precision-formed teeth create fast, clean cuts

Exceptional durability: Matrix II high-speed steel teeth excel in metal-cutting applications

Diehard AA Alkaline Batteries



SKU	Info
411105	BATTERY DIEHARD AA 24PK
411100	BATTERY DIEHARD AA 4PK
411102	BATTERY DIEHARD AA 8PK

BATTERY 9V 2PK POWER ZONE



Cadmium and Mercury Free

SKU	Info
6LR612PDB	BATTERY 9V 2PK POWER ZONE
LR6-8P-DB	BATTERY AA 8 PACK POWER ZONE
LR038PDB	BATTERY AAA ALKALINE 8 PK
LR202PDB	BATTERY D 2PK POWER ZONE
LR204PDB	BATTERY D ALKALINE 4 PK
411150	BATTERY DIEHARD 9V 1PK
411130	BATTERY DIEHARD C 2PK
411140	BATTERY DIEHARD D 2PK

Buckets



SKU	Info
0120	BUCKET 1 GALLON CAPACITY
20256	BUCKET 2 GALLON
0125	BUCKET 5 GALLON PLASTIC
10000	BUCKET LID 1 GALLON
0137	BUCKET LID PLAIN 5GL

Brute Lid



This round lid fits BRUTE 44 gallon container models 2643 & 2643-60 and snaps on tightly to allow secure, stable stacking. Its all-plastic, professional-grade construction will not rust, chip or peel, and it also resists dents. This lid is also self-draining to reduce pooling when containers are stored outside.

Bungee Cords



SKU: 66110

These polypropylene elastic stretch cords are very useful when you need to tie down or bundle small objects. These handy stretch cords are lightweight and maintain their elasticity. The steel hooks are zinc-plated to resist rust and corrosion.

CHAIN PROOF COIL



SKU	Info
6419105	CHAIN 3/8"
6417760	CHAIN 5/16

Orange Sol De-Solv-It Contractors' Solvent



SKU	Info
10151	CONTRACTORS SOLVENT (1 GL)
10012	CONTRACTORS SOLVENT (12 oz)

Specially developed for the contractor trade by combining some of the finest ingredients of industrial strength formulas. Exceptional at removing liquid insulation, tape residue, diesel soot, oil based paint, soap scum, road and roofing tar, caulk residue, and much more from virtually any surface. Nontoxic, noncorrosive, nonhazardous contents are safe to use on all painted surfaces and automotive clear coat.

Tool Accessories

Flashlight Mag Led



SKU	Info
2D016	FLASHLIGHT 2D MAG LED BLK
2D096	FLASHLIGHT 2D MAG LED GRY
2201H	FLASHLIGHT MINI MAG 2AA LED BLK
2209H	FLASHLIGHT MINI MAG 2AA LED GRY
50S3016	FLASHLIGHT XL50 3AAA LED BLK
50S3096	FLASHLIGHT XL50 3AAA LED GRY

Plastic Funnel



SKU	Info
05064	FUNNEL 2QT PLASTIC
75072	FUNNEL 6QT PLASTIC

IM EASY FUNNEL FOR TYPE 1 CA



SKU: 3960424

For safe, leak-free pouring into smaller openings, the large rounded bowl attaches to a type 1 can quickly and provides protection from splashing and spillage. The two position hinged design allows filling or pouring from the can without removing the funnel, and takes up less space during storage. Durable polypropylene material.

5 GAL YELLOW TYPE 1 SAFETY CAN



SKU: 2576726

Yellow cans can be used to designate the storage of diesel fuel. Heavy-duty, high grade coated steel construction with reinforcing ribs to strengthen sidewalls to resist chemicals and stand up to heavy abuse.

Unger International 960490 32" Total Reach Grabber



32" extended grabber
Extends your reach safely without bending, straining or climbing a ladder
Rubber coated wide jaws easily pick up small delicate objects without crushing, up to 5 lbs

Grease Gun, 14 oz



SKU: 30475

LEVER - 3-WAY
PROFESSIONAL
"LUBRIMATIC"
5-3/8" Pipe & Coupler - Boxed
Cap.Ozs.14
Unit: each
Unit Weight: 3.3600 lbs
UPC Code: 028893304753

Grabber Warmers HWPP10 10-Pack Hand Warmers



Coast Cutlery TT7041CP 6-Chip LED Head Lamp



Up to 80 lumens of light output
and 80 hours of battery life
Beam distance of up to 105 feet
Lightweight and comfortable

Eklind Tool 10022 Hex Keys Standard & Metric 22 Piece Set



8650 alloy steel
Hardened and tempered
Black oxide finish

370-2 - 2OZ HORSESHOE MAGNET



AccuSharp 005 Camo Tool Sharpener



SKU	Info
821005C	KNIFE SHARPENER AC - CUSHARP CAMO
821014C	KNIFE SHARPENER AC - CUSHARP ORANGE

MUD MIXER



SKU	Info
748	MIXER 1 GALLON 2-1/2"
746	MIXER 5 GALLON 4"

Padlock Master Lock



SKU	Info
M5XKAD	PADLOCK 2" MASTER LOCK
M40XKAD	PADLOCK 2-3/4" MASTER LOCK

LINE STRINGLINER PRO



SKU	Info
25462	LINE STRINGLINER PRO 540' REEL P
25412	LINE STRINGLINER PRO 540' REEL Y

3.2OZ 2 CYCLE OIL LOW SMOKE



SKU: 0781

Specially formulated with additives that help to stabilize fuel/oil mixtures for extended periods of storage, either in power equipment, or in fuel containers. Formulated to meet ISO EGD standards. Standard insures lower exhaust smoke, improved lubricity, less carbon buildups, reduced oxidation, and better overall performance.

Padlock Solid Stl Comm W/Bo



SKU: 930DLHPF

Lock comes with a bright chrome Boron shackle
Keys have a brass finish and padlock has a key retaining hole

Load Hugger Ratchet Tiedown



HEAVY DUTY - FULL SIZE HOOK
2-PACK
Brand:"I-PACK"
500 LB. WORKING LOAD LIMIT
1500 Lb. Break Strength -
Carded

Nozzle Lg Fire W/Lever Shut Off



SKU: FD1

Large handle controls spray
Molded grip for cushioned comfort
Lever Shut-off
Pressure Control
Spinner

Padlock High Security Master Loc



SKU: 930DPF

Dual ball bearing locking for maximum protection from prying and hammering

Load Hugger Ratchet



Does not require the use of any other tightening device
Complete tie-down assembly
Ratchet buckle tensioning device secures load
18 fixed end

Padlock Keyed Cable



Includes 2 (two) keys
Cable is constructed of flexible steel and coated with a durable vinyl jacket

Padlock Master
Magnum (22657)



Padlock Reset Pin
Combo (175DLH)



QUICKLOADER 3M
YELLOW 15'



Self-adjusts and
automatically
retracts
webbing

Galvanized Porta-
ble Sawhorse



SKU: TS11

Portable Lightweight
Unit each
Unit Weight
10.7 lbs.

Diamondback
ZJ1016 Shoe & Boot
Scraper



SHRINK WRAP 5" X
1000' ROLL ROLL



Stretch film is wrapped
around pallets, boxes or
bundling small items. It
ensures safe & secure
delivery of packages.
Protects shipment from
water, dirt, moisture &
damage caused by excess
movement.

SPRING SNAP
5/16 OPENING US
FLAG



VELCRO ONE
WRAP STRAP



Easy to use
Strong, durable, secure
Cut to desired length
Great for bundling and
storage
**See Sizing chart below

Velcro Ties (90924)



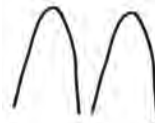
VELCRO® Brand
One-Wrap® general
purpose ties are perfect
for controlling and
organizing wires, cords,
and cables and for
bundling a wide range of
materials-from flowers to
tools. Adjustable
One-Wrap® ties are strong,
reusable, and designed
for heavier-duty indoor or
outdoor use.

Velcro Velstretch Strap



Adjustable
Conforms to shape of item
secured
Stretchable straps

Viper Twist N' Stay



Quick,easy and secure
No knotting
No stretching
SKU: 34224

Water Jugs, 1
Gallon (125142)



Drinking Water by the case
24 x 16.9 oz.



Water Cup Disper Universal



Universal
Fits all Rubbermaid 3, 5 and 10 gallon
water coolers
Durable, weather resistant construction
High impact plastic

WATER DRINKING CUP 4oz.
(200 CT) (8242)



Composite Shims



SKU: 29702

**VELCRO ONE
Sizing chart

SKU	Info
90340	VELCRO ONE WRAP STRAP 12"X3/4 BL
90700	VELCRO ONE WRAP STRAP 23"X7/8"



4 PIECE PRO FRAMER'S COMBO TOOL BELT

Our best quality, 4-piece, pro framer's combo tool belt in premium, top grain leather with a double-tongue roller buckle belt, our easy-carry pouches, and 17 pockets and sleeves for your favorite nails and tools.

SKU# 21448

4 PIECE TOP-OF-THE-LINE PRO FRAMER'S COMBO TOOL BELT

Our best quality, 4-piece, pro framer's combo tool belt in double-layered ballistic fabric with premium grade leather trim, a 5" padded, double-tongue roller buckle belt, our easy-carry pouches, and 27 pockets and sleeves to hold your favorite nails and tools.

SKU#: 51452



5 PIECE HEAVY-DUTY FRAMER'S COMFORT-LIFT™ COMBO RIG

A professional quality 5-piece framer's combo rig tool belt with a 5" padded, double-tongue roller buckle belt and padded 3-point suspenders with a cell phone holder, plus pouches with 31 pockets and sleeves for your favorite nails and tools, includes a cordless drill hook.

SKU#: 6714

HEAVY-DUTY EXTRA PADDING LEATHER KNEE-PADS

These professional grade, top grain leather knee-pads have double-thick felt padding for added comfort, and have been a traditional style kneepad for millions of workers.

SKU#: 313



CELL PHONE HOLDER

A smaller size cell phone holder with scratch-resistant fabric lining, has an elastic loop to hold a pen/pencil/marker, and heavy-duty clip to attach to a belt or strap.

SKU#: 5124





Steel On-Site Chests

- Site-Vault Security System
- EZ-Loader Caster Skid Bolster
- Staked and welded steel hinges
- Heavy-duty locking arms
- Bolt Cutter Proof Locking System

SKU	MFG PART #	SIZE (LxWxH)
652990	1-652990	36 X20X 23.75
654990	1-654990	48 X24X 27.75
656990	1-656990	48 X30X 33.5
658990	1-658990	72 X24X 27.75



Jobox Stl Field Office

- One-Handle Lock Operation Opens both bottom and top doors
- Steel Peg Board, Deep Shelf and Bins on Side Walls
- Bottom door shelves
- Opened by a lanyard inside the lower cabinet for additional security

SKU	MFG PART #	SIZE (LxWxH)
674990	1-674990	63X42X80



Slope-Lid Chest

- Fully welded padlock housing
- Site-vault™ with bolt cutter proof lock housing
- 12-gauge steel lock console with three locking points
- Formed lid sides welded to lid

SKU	MFG PART #	SIZE (LxWxH)
680990	1-680990	60 9/16X30X37.5



Jobox Piano Box

- Bolt cutter proof lock housing is fully welded for security
- Full-length 12-gauge steel lock console with 3 locking points
- Formed lid sides are welded to lid bolsters to resist pry bar entry
- Lifts are embedded in the side walls and protected from damage and jamming

SKU	MFG PART #	SIZE (LxWxH)
681990	1-681990	48 X31X 50
682990	1-682990	60X31X49



Jobox Steel Chest

- Site-Vault™ Security System
- 3-Point lock engagement is virtually impossible to bend or pry open
- E-Z Loaeder® Skid Bolsters - fork lift from any side

SKU	MFG PART #	SIZE (LxWxH)
655900D	1-655900D	60 X24X 33.5



Aluminum Single Lid Deep Full Size Cross-over Tool Box

- Full length lock console
- 1-piece box body construction
- Drill resistant push button locks
- Small parts storage bins
- Self aligning lid hoops

SKU	MFG PART #	SIZE (LxWxH)
JAC1387980		21X18.88X72"



Delta JAC1387980 JOBOX Aluminum Single Lid Cross-over Tool Box

- Self-adjusting rotary Gear-Lock II locking system
- Self-aligning latch hoop
- Gas spring guards and 90 Degrees lid opening



JOBOX JAC1393980 Aluminum Gull Wing Lid Compact Crossover Truck Box (ClearCoat)

- Self-adjusting rotary Gear-Lock II locking system
- Self-aligning latch hoop
- Gas spring guards and 90 Degrees lid

TYPE I STEEL SAFETY CAN FOR FLAMMABLES, WITH FUNNEL, 5 GALLON (19L), S/S FLAME ARRESTER, SELF-CLOSE LID



Self-closing, leakproof lid provides safety from spills

Type I safety can with 11202Y polypropylene funnel, self-close lid controls vapors and spills. Red is widely used for flammable liquids.

Polypropylene Funnel for Type I steel Safety Cans sizes 1 gallon (4L) and above only



Material Specifications: Polypropylene
Dimensions, Exterior: 11.25" L x 0.5" Outer Dia. 286 L x 13 Outer Dia. (mm)



Size	Dimension
90 Gallon	Exterior: 67.28" x 46.90" x 31.59" Interior: 57.94" x 42.44" x 26.81"
60 Gallon	Exterior: 67.25" x 46.15" x 26.28" Interior: 57.94" x 42.44" x 21.81"
45 Gallon	Exterior: 67.25" x 46.88" x 21.25" Interior: 57.91" x 45.47" x 14.78"
30 Gallon	Exterior: 49" x 46.09" x 19.63" Interior: 39.94" x 42.38" x 14.75"
12 Gallon	Exterior: 35.50" x 30.13" x 19.69" Interior: 32.31" x 26.63" x 16.17"

- Exceptional Safety, Security and Fire-Resistance
- Patent Pending EZ Level™ Bolster System
- Hi-Viz Safety and Usage Information Labels
- Bright White Interiors
- Forklift Capability
- Continuous Staked Piano Hinges
- Spill Guidance Shelving
- Heavy-Duty Enclosed Staggering Mechanism on Self-Close Models
- Flush Keyed and Padlock-able Paddle Handle
- Self-Latching 3-Point Door Lock System
- 2" Deep Leak-Proof Sump
- High Visibility Ground Connection
- Fusible Link on Self Close Models

Haz Mat Storage



Ultra SafetyCabinet Bladder Systems®

Out Of Sight, Should Not Be Out Of Mind

Simply raise existing drum cabinets 8" from the floor, slide the SafetyCabinet Bladder System in place, and lower the cabinet on top of the structural steel frame. Heavy duty, inner steel framework will keep the cabinet stable, even in a fire.

- Ultra-SafetyCabinet Bladder Systems are designed to retrofit all vertical drum storage cabinets on the market.
- Bring your vertical drum storage cabinets into compliance with SPCC, EPA 40 CFR 264.175 and Uniform Fire

SKU	Name	Config.	Weight	Load
2420	Ultra-SafetyCabinet Bladder System V1	1-Drum	57 lbs	1500 lbs
2421	Ultra-SafetyCabinet Bladder System V2	2-Drum	85 lbs	3000 lbs



Spill Containment

Spill containment products that are designed with your efficiency in mind - keeping your employees and work environment safe from unexpected drum spills or leaks.

Item # AT SPILL55OIL, 55 Gallon Oil Drum Spill Kit

Open and close this lever locked 55 gallon drum for fast response. Drum meets UN specifications. For medium spill response. Absorbs up to 38 gallons per kit.

Contents
5 Disposal bags 50 pads (15" x 18") 8 pillows (18" x 18") 8 SOCs (3" x 8") Emergency Response Handbook Goggles Nitrile gloves
Packaging
Absorbency Capacity
Application



SKU	Name	Info	Width	Length	Height	Packaging	Shipping Weight
SC-SD2	Spill Decks	Spill Deck, 2 drum	26 in.	52 in.	6 in.	1/each	30.8 lbs
SC-DK	Spill Decks	Sump Drain Kit	N/A	N/A	N/A	1/each	N/A
SC-DP2	Spill Pallets	Spill Pallet, 2 Drum	26 in.	52 in.	17 in.	1/each	46 lbs
SC-DP4	Spill Pallets	Spill Pallet, 4 Drum	52 in.	52 in.	17 in.	1/each	88 lbs
SC-DPR	Spill Pallets	Ramp	32.5 in.	70 in.	N/A	1/each	47.5 lbs

SPILLPAL®

The Most Affordable, The Most Convenient Temporary Storage. The flexible-sidewall SpillPal line is the easiest to use and the most affordable hazardous material storage product on the market today. SpillPal provides incidental spill control during temporary storage of drums, machine parts, tanks and generators. It can also be used as a washdown pad or pumping station. An alternative to hard plastic pallets that need to be moved by a forklift and are always in the way, ENPAC's SpillPal features 3"



SKU	Name	Dimensions	Sump Cap.	Regulations
61EN5750-YE	1-Drum Spillpal™	2' L x 2' W x 3" H	10gal/ 38 liters	EPA, SPCC and NPDES
61EN5755-YE	2-Drum Spillpal™	2' L x 4' W x 3" H	15gal/ 57 liters	EPA, SPCC and NPDES
61EN5760-YE	4-Drum Spillpal™	4' L x 4' W x 3" H	30gal/ 114 liters	EPA, SPCC and NPDES
61EN5770-YE	6-Drum Spillpal™	4' L x 6' W x 3" H	45gal/ 170 liters	EPA 40 CFR 264.175, SPCC and NPDES

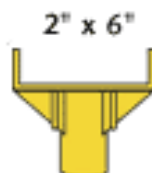
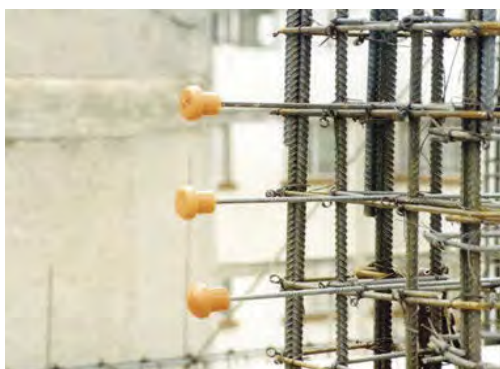
Full line of Secondary Containment Materials are available.
Call or email your request.



Mushroom Caps

Offer high visibility to mark rebar placement. Warning: Will NOT protect against impalement.

SKU	Description	Pcs./ Box
CAPMUSH50	Mushroom Cap	50
CAPMUSH100	Mushroom Cap	100
CAPMUSH200	Mushroom Cap	200
CAPMUSH250	Mushroom Cap	250
CAPMUSH500	Mushroom Cap	500



Available for use on 2" x 4"s and 2" x 6"s.
Fits rebar sizes #3-#9 and #5-#18.



The Carnie Cap

The Carnie Cap is also less expensive than troughs. In fact, only two Carnie Caps are needed per each eight foot section. Plus, by eliminating injuries, installation time and inventory overhead, Carnie Caps not only protect workers, they can protect a company's bottom line.



CARNIE CAP™



OSHA Caps

Provide limited protection from protruding rebar.

SKU	Description	Pcs./Box
CAPOSHA100	O.S.H.A. approved Rebar cap #3-#8	100
CAPOSH7100	O.S.H.A. approved Rebar cap #3-#7	100

Make the job site a safer place. Purchase rebar safety caps today!

Safety Signs

construction signs



MOST POPULAR

7" x 10"
10" x 14"

10" x 14"

14" x 10"
20" x 14"

14" x 10"

10" x 14"

10" x 14"

10" x 14"

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10" x 14"

7" x 10"
10" x 14"

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9" x 12"
10" x 14"

10" x 14"

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10" x 14"

10" x 14"

7" x 10"
10" x 14"

10" x 14"

10" x 14"

10" x 14"

10" x 14"

10" x 14"

10" x 14"

10" x 14"

- Custom Signs
- Safety Labels
- Traffic & Roadway Signs
- Barricades & Barriers
- Exit Signs & Lights
- Haz-Com/Right-To-Know/MSDS
- Pipe Markers
- Confined Space
- Floor Signs, Tapes & Cones
- Safety Scoreboards
- Lights
- Truck & Vehicle Marking
- Visual Identification

Coated Gloves, Palm/Fingers, L, PR



SKU	MFG Part#	Size
34274L	34-274 L	ELITE LG
34274M	34-274 M	ELITE MED
34274XL	34-274 XL	ELITE XL
34874L	34-874T/L	LARGE
34874XL	34-874T/XL	X-LARGE
34874M	34-874T/M	MEDIUM

Coated Gloves, Coating Material Nitrile, Coating Coverage Palm/Fingers, Coating Finish Microfinish, Lining Nylon, Size L, Color Blue, Cuff Knit Wrist, Length 8-45/64 In., Gauge 18, Standards EN388, EN420, Reach, Okeo-Tex, CE, ANSI/ISEA Abrasion Level 0, ANSI/ISEA Cut Level 0, ANSI/ISEA Puncture Level 1 EN

Glove Gauntlet Pro Coat 14"



Sandy finish provides excellent wet grip

Double dipped for enhanced liquid protection and extended wear

Interlock lining dries quickly, sheds little lint and offers great dexterity

Black color hides dirt
SKU#: 58140DD
MFG Part#: 58-140DD

ProCoat® PVC-Dipped Gloves



Dipped for enhanced liquid protection and extended wear. Choose from single/double-dipped, jersey/interlock lining or smooth/rough finish. Dries quickly and sheds very little lint. Ideal for use in petrochemical and refining applications along with handling grease, oils, acids, caustics and alcohols.

SKU#: 5880105R
MFG Part#: 58-80105R

Drvr's Glv L Top Grn Pgskn Lthr



Drivers Glove, Size Large, Material Top Grain Pigskin Leather, Linner Type Unlined

Ideal For Construction, Machine Operation, Utility Work And Many Other General Applications

SKU#: 70318L
MFG Part#: 70-318L

Raven Nitrile Disposable Glove Clipstrip (Powder-Free)



SKU	MFG Part#	Size
66512	66512-CS	P/F XL RAVEN
66518	SAS-66518	6M RAVEN L 100CT
66519	SAS-66519	6M RAVEN XL 100CT
66520	SAS-66520	6M RAVEN XXL 100CT

Box of 25 bags which include 3 pairs of gloves in each bag

2 plastic clipstrips

Thickness: 6mil

Examination grade

Powder-free nitrile

Free from latex and powders

Dyna Grip Latex Disposable Glove Clipstrip (Powder-Free)



Box of 25 bags which include 3 pairs of gloves in each bag

2 plastic clipstrips

Thickness: 7mil

Powder-free examination grade latex

Beaded cuff for easy on/off

Textured surface for grip



PROTECTIVE INDUSTRIAL PRODUCTS, INC.
BRINGING THE BEST OF THE WORLD TO YOU®



FIVE BUCKLE ARCTIC

- SKU#: FB-14
- 14" high
 - Full cut with extra wide last
 - Safe grip knurled sole and heel
 - Durable metal buckles adjust for perfect fit
 - Full knit lining
 - Size: 7-16



SUPREME PULLOVER RUBBER SLUSH BOOTS

- SKU#: YSB-17
- 17" high
 - Full cut with extra wide last
 - Safe grip knurled sole and heel
 - Rubber upper with full knit lining
 - Adjustable top strap
 - Size: 7-16



HIP WADERS

- Plain Toe HW-7900
- Steel Toe SHW-7910 (Meets ASTM F2413-05 testing)
- Extra heavy weight
- Vulcanized rubber with fabric lining
- Suspenders with rustproof buckles and clasp
- Adjustable knee harness and hip straps
- Rubber boots with steel shank and non-skid sole
- Color: Black/Yellow
- Size: 6 - 13



TRED'S 17" Super Tough Slush Boots | Rubber Slickers

- 4000 lbs. of tensile strength
- 210 lbs./inch of "trouser tear" strength
- 800% elongation

Boot Size	Fits Men's Shoe	Heel-Toe Toe Length* (in inches)
X-SMALL	3-4	between 10 1/4 & 10 3/4
SMALL	5-7	between 10 3/4 & 11 1/4
MEDIUM	8-10	between 11 1/4 & 12 1/2
LARGE	11-12	between 12 1/2 & 13 1/4
LARGE/X-LARGE	13-14	between 13 1/4 & 13 3/4
X-LARGE	15-16	between 13 3/4 & 14 1/2
XX-LARGE	17-19	between 14 1/2 & 15 1/2



SKU: SC300

SHOE COVERS SKID AND SCUFF PROTECTION

Protect flooring and footwear with Surface Shields brand shoe covers. Available in three different materials, these shoe covers provide protection at most jobsites. The plastic shoe covers are great for outside use and the cloth are perfect to protect flooring from dirt, scuffs and skids. The polyethylene coated shoe covers are skid resistant and waterproof.



SKU: H1

SHOE & BOOT SCRAPER





Protective Outerwear



Heavy Weight Rainsuit

- PVC reinforced & strong polyester net backing
- Jacket & detachable hood
- Storm-fly front with duracon snaps
- Two flap pockets
- Size: S-5XL



Parka 107-2010

- Heavy duty zipper front with snap storm flap
- Attached hood that rolls into collar (hard hat friendly)
- Two-way pockets with velcro closure
- One chest pocket with zipper



Reversible Bomber Jacket Ansi/ ISEA 107-2010

- Detachable sleeves
- Detachable inset hood with draw-string & stoppers
- Two chest pockets with clear I.D. pocket
- Rib knit waistband & cuffs
- Size: S-5XL



Waist Rain Pants Ansi/ISEA 107-2010

- Polyester oxford with PU coating
- 2" wide reective stripes
- Elastic and draw cord with cord lock on waist
- Adjustable zippers on ankles for safety and comfort
- Size: S-5XL

NEW!



Hi-Viz™ Utility Shelters

- NEW Cool Grey Color Toggle Leg Adjustment System
- NEW Cool Grey Color Pull Pin Slider for E-Z Quick Lock and Release
- NEW Cool Grey Color E-Z Glide Truss Washers for Increased Stability
- NEW Cool Grey Color High Strength End Cap for Greater Durability
- Attachment Points for Railskirt and ProFlag™ Accessories
- UV Silver Undercoating Blocks 99% of Harmful UV Rays
- Meets CPAI-84 Fire Resistant Requirements & ANSI 107
- 4 Dura-Lon® Plus Sidewalls with Hi-Viz Silver Reflective Strips
- Extra Middle Zipper for Entrance to an Enclosed Shelter



Tarps

- All Grip-Rite tarps are made from woven, tear resistant high-density polyethylene and are coated on both sides for protection against moisture and mildew
- All edges are reinforced with rope & heat welded for extra strength
- UV treated for prolonged outdoor use



SKU: 2410101

Sierra™ II

- Sets Up in Seconds!
- White Powder Coated Steel Frame
- Available Sized: 10'x10' & 12'x12'
- Open Cathedral Ceiling
- Lightweight & Portable
- Pull Pin Slider

SKU	Description
0810	TARP BLUE 8' x 10'
01012	TARP BLUE 10' x 12'
01016	TARP BLUE 10' x 16'
01020	TARP BLUE 10' x 20'
02040	TARP BLUE 20' x 40'
04060	TARP BLUE 40' x 60'
50100	TARP BLUE 50' x 100'
60100	TARP BLUE 60' x 100'
SO003361294001	TARP BLUE 30'x40'
TARP1012GB	TARP 10X12 GREEN/BROWN HD
TARP1020GB	TARP 10X20 GREEN/BROWN HD
TARP1620GB	TARP 16X20 GREEN/BROWN HD
TARP2020GB	TARP 20X20 GREEN/BROWN HD
TARP2040GB	TARP 20X40 GREEN/BROWN HD
TARP4060GB	TARP 40X60 GREEN/BROWN HD
TARP810GB	TARP 8X10 GREEN/BROWN HD

Safety Eyewear

440 Basic™



- Offers direct side ventilation through perforations in the frame
- Clear vinyl body fits snug to the face
- Fits comfortably over most prescription glasses
- Elastic headband
- Sold bulk packed...144 pair per case
- FogLess™ lens coating to keep your lenses and vision clear
- Meets ANSI Z87.1

Bullseye™



- Lightweight, rimless design offers optimal protection
- Flexible bayonet style temples provide a secure fit
- Molded nose bridge design to fit the vast majority of users
- FogLess™ lens coating to keep your lenses and vision clear
- 9 Base curve lens
- Meets ANSI Z87.1+
- Meets CSA Z94.3

Sunburst™



- Lightweight, full frame design offers all day comfort
- Bayonet temples are rubber co-molded for a secure fit
- Non-slip rubber nose pads provide a comfortable fit
- 8 Base curve lens
- Meets ANSI Z87.1+

Fuselage™



- Flame resistant soft foam padding forms a seal to keep out dust and airborne particles
- Comes with both temples AND elastic headband strap
- Temples and strap snap in or out...easily converts from a safety glass to a dust goggle and back
- Bayonet nylon temples with rubber tips for a secure fit
- Molded nose bridge design to fit the vast majority of users
- FogLess™ lens coating to keep your lenses and vision clear
- 8 Base curve lens
- Meets ANSI Z87.1+
- Meets CSA Z94.3

Mag Readers™



- Magnification reader glasses are for the worker who needs to see up close
- The 30 mm wide "curved top" reading magnifier provides the worker with enough lens area to view his work throughout the day
- Durable nylon frame with extra wide latex-free rubber nose pads for more comfort when working up close
- Temples with soft rubber pads provide a secure fit
- 8 Base curve lens
- +1.00 Diopter
- Meets ANSI Z87.1+
- Meets CSA Z94.3

Pirana™



- Lightweight design ensures all day user comfort
- Rubber pads on the temples provide a comfortable fit
- Soft rubber nose pads offer a more secure fit
- 8 Base curve lens
- Meets ANSI Z87.1+

16504 SUPERBS SMOKE IN/OUT SILVER MIRROR



- Carton Qty 12. Stylish design and high-gloss finish. Wraparound design and lens shape fits snugly for total optical protection. Features a one piece spherical polycarbonate lens. Lens offers 99% UV protection. Meets requirements of ANSI Z87.1 High Impact.

16503 SUPERBS SILVER SILVER CLEAR



- Carton Qty 12. Stylish design and high-gloss finish.
- Wraparound design and lens shape fits snugly for total optical protection. Features a one piece spherical polycarbonate lens.
- Lens offers 99% UV protection.
- Meets requirements of ANSI Z87.1 High Impact.

16505 SUPERBS SMOKE PEWTER SILVER MIRROR



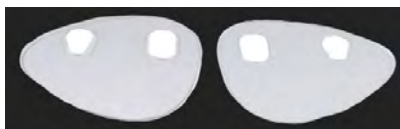
- Carton Qty 12. Stylish design and high-gloss finish. Wraparound design and lens shape fits snugly for total optical protection. Features a one piece spherical polycarbonate lens. Lens offers 99% UV protection. Meets requirements of ANSI Z87.1 High Impact.

RADIANS HEADGEAR



- HG-400 - Ratchet Suspension. Face shield NOT included.
- HG-410BWM - HG-410B with wire mesh visor.
- HG-410A4 - Cap Adapter. Visor bracket. (All Aluminum).
- HG-410B (Blade) - Cap Adapter.
- Dielectric for slotted cap.
- HG-410A (Band) - Cap Adapter.
- Dielectric with retention band.
- HG-410-A4F - Cap Adapter. Full brim visor bracket. (All Aluminum).

C-1 SHIELDS



- Fits easily over your prescription eyewear temples.
- The C-1 is 2" wide x 1" high.
- Does NOT meet ANSI Z87.1 + standards.

Bouton® Optical



SKU: 170

- Pre-moistened towelettes
- For plastic, glass or polycarbonate lenses deal for safety glasses, goggles or faceshields
- Anti-Fog, Anti-Static, Anti-Streaking formula
- Dispenser can also be easily placed on walls
- 100 Towelettes per dispenser
- Individually foil packaged

NECK CORDS



- NC-COLOR is a standard nylon neck cord, available in black, red, yellow, brown, pink, white, blue and orange.
- NCCH-COLOR is a thick, soft neck cord, available in black, red, yellow and blue.
- NCB-BLACK is a breakaway neck cord with end clips.

PIP®



- Fashionable nylon lanyard
- Holds eyewear securely in place
- SIMILAR ITEMS: Eyewear Lanyards

4763556MSA FACE SHIELD MESH SCREEN



- Protects Against Flying and Abrasive Particles
- ANSI Z87.1 2003 When Used with MSA Frames and Assemblies
- Nylon Mesh

8160B FACE SHIELD CLR



- Clear PETG shield
- Size 8" x 15.5" .040 thick
- Fits E13, E15, E16, E16R, E17, E18, E19, E20 and 5000 Visor Carrier

DUST MASK NUISANCE



SKU	Description
2986	NUISANCE 5PK
270200	N95 SAFETY
861050	N95 2PK
861150	N95 VALVED 1PK
871250	N95 CARBON VALVED
2702050	W/FILTER N95

Respirators



N95 Particulate Flat Fold Respirator

- 95% efficient respiratory protection in non-oil areas
- Low breathing resistance with high filtration efficiency
- Individually packaged for hygiene
- Soft foam nose cushion increases comfort
- Continuous-loop, latex-free strap
- Adjustable encapsulated wire nose piece

NIOSH approved

Item No. QtySAS 8617
Box of 20



N95 Valved Particulate Flat Fold Respirator

- 95% efficient respiratory protection in non-oil areas
- Low breathing resistance with high filtration efficiency
- Exhalation valve lets workers breathe easy and stay cool
- Individually packaged for hygiene
- Soft foam nose cushion increases comfort
- Continuous-loop, latex-free strap
- Adjustable encapsulated wire nose piece

NIOSH approved

Item No. QtySAS 8618
Box of 10



R95 Particulate Respirator

- 95% efficient respiratory protection against oil and non-oil based particulate aerosols. Time restrictions may apply to approved use
- Lightweight construction for greater comfort
- Maintenance-free construction
- Adjustable nose clip with foam strip to reduce the potential for eyewear fogging
- Latex-free stapled fixed head strap

NIOSH approved

Item No. QtySAS 8620
Box of 20



R95 Valved Particulate Respirator

- 95% efficient respiratory protection against oil and non-oil based particulate aerosols. Time restrictions may apply to approved use
- Exhalation valve to make it easier to breathe
- Lightweight construction for greater comfort
- Maintenance-free construction
- Adjustable nose clip with foam strip to reduce the potential for eyewear fogging
- Latex-free stapled fixed head strap

NIOSH approved

Item No. QtySAS 8621
Box of 10



Opti-Fit Mace Respirator

Silicon skirt offers exceptional durability and comfort
Nose cup prevents fogging
Wide viewing area offering distortion free visibility and optical clarity
5-point head strap
Replaceable polycarbonate lens treated with anti-scratch coating
Easily converts to supplied-air respirator without the aid of tools
Peel off lens covers available

NIOSH approved



Pro Blue Halfmask Respirator

High quality silicone face piece designed for maximum comfort and fit
Unique sliding adjustment system on head harness keeps strap ends secure and out of wearer's vision
Yoke and head harness design eliminates face piece slippage

NIOSH approved

Cartridge For 6000 Series Respirator



3M 60923 OV/AG/P100 Combo
Sale Unit: 1 PACK
Brand: 3M
3M Number: 60923
Product Type: Combination Cartridge / Filter
Filter Rating: P100



Disposable Dual Cartridge Respirator

BANDIT R95

Pre-assembled respirator with organic vapor cartridges and R95 filters for easy use; eliminates cartridge and filter attachment hassles
Face piece construction is flexible, lightweight and form fitting to ensure a comfortable fit
Low profile cartridges designed for better vision and balance
Filters offer low breathing resistance
Better comfort and fit for protection from airborne hazards
NIOSH approved



Disposable Dual Cartridge Respirator

BANDIT OV/N95

Pre-assembled respirator with organic vapor cartridges and N95 filters for easy use; eliminates cartridge and filter attachment hassles
Face piece construction is flexible, light weight and form fitting to ensure a comfortable fit

**Let us know
how we can
help you**

Respirators - Ear Plugs

RESPIRATOR DUST FILTER



- Snap-on filter provides additional protection from dust and particles.
- For use with our reusable respirators.

ETY 8661-93 Bandit Half Mask Respirator Lg



ETY 8661-92 Bandit Half Mask Respirator



Disposable Polyurethane Foam Ear Plugs - NRR 32



- Soft, smooth polyurethane (PU) foam expands gradually for a secure, comfortable seal
- Tapered shape offers easy insertion and removal
- Bright orange color ensures quick compliance checks
- NRR of 32 dB is among the highest in its class
- Each pair comes individually wrapped

Disposable Polyurethane Foam Corded Ear Plugs -



- Soft, smooth polyurethane (PU) foam expands gradually for a secure, comfortable seal
- Tapered shape offers easy insertion and removal
- Bright orange color ensures quick compliance checks
- NRR of 32 dB is among the highest in its class
- Each pair comes individually wrapped
- Red PVC cord for convenience and to prevent loss of ear plugs
- SIMILAR ITEMS: Single-Use Ear Plugs

SAS Safety 6101-B Corded Ear Plugs



- Corded Foam Ear Plugs
- Pre-Shaped Foam Ear Plugs
- Self-Adjusting Foam Expands to Fit
- Virtually Every Wearer
- Packaged for Individual Re-sale
- NRR30

SAS Safety 6104 Foam Ear Plugs



- Pre-Shaped Foam Ear Plug
- Super-Soft Foam Ear Plugs Conform to the Inner Ear Canal
- Noise Reduction Rate is 30

SAS Safety 6105 Standard Earmuff Hearing Protection



- Lightweight muff-style hearing protector
- Universal adjustment
- Under-the-chin, over-the-head or behind-head wear

22201 HARD HAT WHITE E-2RW



The exclusive smooth crown design contains a technically advanced suspension with eight load bearing points to stabilize and balance the hard hat during everyday wear. On impact, the SuperEight impact energy control system dissipates force by reducing it to smaller increments and spreading it over a greater area.

E2RW03A000 HARD HAT ORANGE E-2RW



396800 HARD HAT VISOR NECK SHADE



- Extended visor at front to block sun from worker's eyes
- Drape at back to shade the neck
- Elastic at back for secure fit
- High visibility fabric and silver reflective tape
- Shields eyes and neck from the sun
- Helps alleviate heat stress
- Fits most hard hats

475358 HARD HAT WHITE V GUARD



- Short front brim allows unimpeded upward vision
- Brim around entire helmet helps keep rain and sun off users neck and ears
- Ratchet suspension adjusts size quickly and easily
- Nylon crown suspension straps fit comfortably
- Lightweight and balanced for all day wear

475407 HARD HAT SKULL-GARD FULL



- Features heavy-duty construction for steel mills and heavy industries with elevated temperatures
- Meets requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1-2009, Class G
- Meet the ANSI/ISEA Z89.1-2009 voluntary standard for low temperature [LT]

Skullgard® Protective Cap



SKU: 478454

697410 HARD HAT SUN SHIELD ASSEMBLY



HARD HAT WHITE F/B V GAURD



SKU: 10006318

Brim encircles hard hat to reduce discomfort caused by rain and sun. Shorter front brim allows clear upward vision. Ratcheting suspension for easy adjustment.

245057009 HARD HAT MESH NECK SHADE



- Blocks sun and UV rays.
- Provides Perspiration evaporation.
- Stay comfortable and safe.
- One size fits all.
- Easy to Install

Safety Supplies

280-EV6161V-10 HARD HAT WHITE FULL BRIM VENTED



- High-Density Polyethylene (HDPE) shell with a full brim
- Extended back brim protects neck and ears and provides run-off for rain and snow
- Short front brim shades the face while allowing excellent visibility

396-20870-BGE HARD HAT TERRY SWEAT BAND



- Attaches to hard hat suspension with snaps
- Soft Terry cloth fabric helps absorb sweat at forehead

FM44RTV HARD HAT SWEATBAND



HG-410A4 HARD HAT UNIVERSAL ADAPTER



All Radians headgear & cap adapters have universal pegs that will accommodate a wide variety of face shields and fit most hard hats.

Professional Surveyors Vest



- Solid polyester front with mesh back.
- Zipper front closure reinforced with durable webbing.
- 2" wide CNSS reflective material laminated to 3" contrasting color.
- Left and right mic tabs.
- 2 lapel grommets.
- Padded neck for comfort.

Heavy Duty Vest



Type 1510,
Type 1511

- Ultra-Cool™ 100% polyester mesh.
- Brilliant Trim reflective edging improves low light visibility.
- Zipper front closure with durable webbing reinforcement.

Solid Front with Mesh Back Vest



- Comfortable Ultra-Cool™ 100% polyester mesh material on back with solid front.
- Zipper front closure.
- 2" wide CNSS reflective material with 3" contrasting color.
- Left and right chest mic tabs.

T-Shirt



- Microfiber polyester material wicks away moisture.
- 2" wide reflective breathable tape significantly reduces

CONTRACTOR 25/50 PERSON FIRST AID KIT



- Compact kit contains the supplies you need to treat minor injuries
- Plastic box is gasketed for weatherproof protection of contents
- Convenient molded carry handle includes slots for wall mounting
- Lightweight kit is ideal for use in the office, vehicle or on the job site

Fall Protection



**ELASTECH®
8240Y3A
Aluminum**

Adjustable Y-leg for 100% Tie-off; with 1 Aluminum Snap Hook and 2 Aluminum Rebar Hooks.

Size: 4 1/2' to 6'



**CONTRACTOR
7016
Standard,
Non-belted**

1 Back D-ring; Tongue Buckle Legs and Mating Buckle Chest.

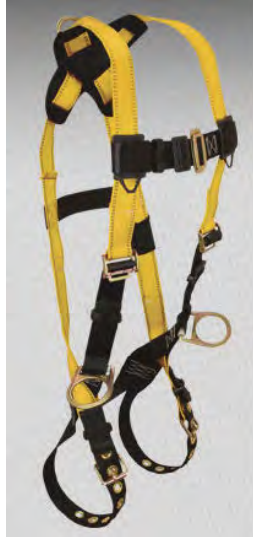
7016 UniFit
70163X 3x Large
7016X/2X XL/XXL



**7018
Standard,
Non-belted**

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest.

7018 UniFit
70182X 2X Large
70183X 3X Large
7018XL X Large

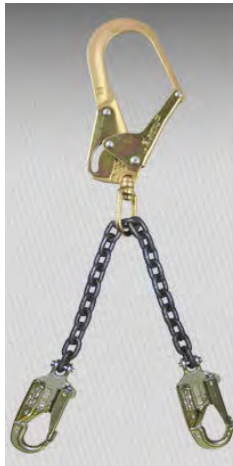


**JOURNEY-
MAN**

**7023
Standard,
Non-belted**

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest.

7023 UniFit
70233X 3X Large
7023XL X Large
70232X 2X Large
70234X 4X Large



**POSITIONING
LANYARDS**

8250
Rebar Positioning
Assembly

Swivel Steel Rebar Hook with 2.5" Gate Opening; Clevvis-pin Steel Snap Hooks; Grade 80 Chain.

8250 23"
825010LK 19"
82506L 17"



**MULTI-PUR-
POSE**

**7348
Pass Through**

Web Pass-through Anchor Sling with 2 D-rings and 3" Wear Pad.

7324 2'
7348 4'
737208 8'
737214 14'
737224 24'
737240 40'
7336 3'
7372 6'
737210 10'



MULTI-PURPOSE

**7372
Pass Through**

Web Pass-through Anchor Sling with 2 D-rings and 3" Wear Pad.

7324 2'
7348 4'
737208 8'
737214 14'
737224 24'
737240 40'
7336 3'
7372 6'



ROOFING

**7410
Temporary Reus-
able**

Reusable, Hinged Roof Anchor with Heavy Duty D-ring; Includes Nails.



CONCRETE

**7440
Temporary Wedge**

Reusable 3/4" Multi-directional Temporary Anchor for Use in Existing Cured Concrete Structures; Rated to 5,000 lbs.

Fall Protection



Carabiner



STEEL 7414
Bolt-on

Forged D-ring and Bolt-on Plate; Provides Simple Overhead Anchorage Solution.



CABLE 727630
Contractor /
Galvanized
Cable

SRL with Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.

Size: 30'



RESTRAINT LANYARDS 8203
Restraint Lanyard

Single Leg; with 2 Snap Hooks
8203 3'
8204 4'
82065FT 5'
820324 2'
8206 6'
82068 8'



INTERNAL 82593
Tubular Web

Single Leg; with 1 Snap Hook and 1 Rebar Hook.
Size: 6'



HORIZONTAL LIFELINE KITS
777075 4 Person

4-person Temporary Horizontal Lifeline Kit Includes Synthetic Rope; Line Tensioner; 4 O-rings; 2 Carabiners; 2 Pass-through Anchors; with Storage Bag.

777030 30'
777075 75'
777050 50'
777100 100'



INTERNAL 8259
Tubular Web

Single Leg; with 2 Snap Hooks
8259 6'



CABLE 727620
Contractor /
Galvanized
Cable

SRL with Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.

Size: 20'

Fall Protection



777100 4 Person

4-person Temporary Horizontal Lifeline Kit Includes Synthetic Rope; Line Tensioner; 4 O-rings; 2 Carabiners; 2 Pass-through Anchors; with Storage Bag.

777030 30'
777075 75'
777050 50'
777100 100'



COMFORTECH® 7084L TowerClimber®

6 D-rings, Back, Chest, Side and Seat; Tongue Buckle Legs and Quick Connect Chest, Lumbar-supporting Waist Pad and Padded Work Seat.

7084L Large
7084S Small
7084M Medium
7084XL X Large



WEB 7276WR Contractor / Dyneema Web

Web SRL; Glass-filled Nylon Housing; Dyneema Web; Connecting Carabiner; Load-indicating Swivel Carabiner.

Size: 20'



FLOWTECH® 7088L Belted Construction

3 D-rings, Back and Side Tongue Buckle Legs and Quick Connect Chest; FlowScope® Shoulder, Leg and Waist Pads.

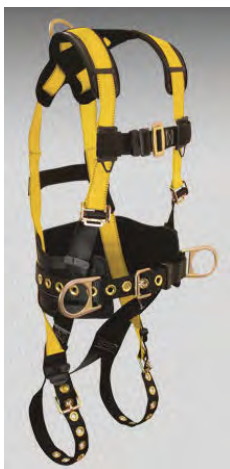
7088L Large
7088S Small
7088M Medium
7088XL X-Large



INTERNAL 8259Y3 Tubular Web

Y-leg for 100% Tie-off; with 1 Snap Hook and 2 Rebar Hooks.

Size: 6'



JOURNEYMAN 7035L Belted Construction

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest, Durable 6" Waist Pad.

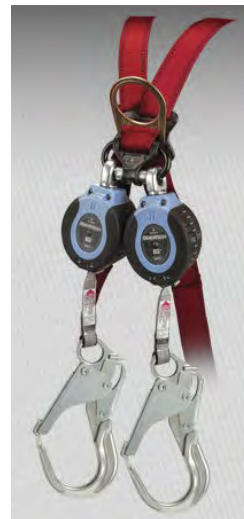
70353XL 3X Large
7035L Large
7035S Small
7035XXL 2X Large
70354XL 4X Large
7035M Medium
7035XL X Large



POSITIONING LANYARDS 8250W Rebar Positioning Assembly

Swivel Steel Rebar Hook with 2.5" Gate; 2 Steel Snap Hooks; 2 Layer Jacketed Web.

825012W 19"
8250W 23"
8250LTW 24"
Non-swivel



COMPACT WEB 82706TB5 DuraTech® 6'

Twin 6' Compact Web SRL; Carabiner with Alignment Clip; and Aluminum Rebar Hook leg-end Connectors



CONTRACTOR 7018-XS Standard, Non- belted

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest.

Size: Xtra small

**We
appreciate
your
business.**

**14672 Barricade w/Re-
flective - Type II**



Our high quality barricades are injection molded for superior strength. Available in 8" Type 1 and Type II NCHRP-350 compliant styles.

**17735 Traffic Delinea-
tors - D TOP**



Our highly visible orange delineators (D TOP) with reflective stripes are UV resistant to fading and offer high resistance to impact over a wide temperature range.

The 12 pound weighted PVC base is made entirely of 100% recyclable PVC and is sold separately.

**17779 3Mil Barricade
Tape**



Designed to protect and identify above ground hazardous areas or elements such as construction sites, work areas, crime scenes, crowd control and any potentially dangerous areas, Our barricade tape is available with more than 50 different in-stock legends. All legends are printed in crisp, bold black lettering on a yellow or red polyethylene material. Choose from our extensive library of legends.

Available in 3" x 1000' (10/box) or 3" x 300' (16/box) rolls.

These tapes can also be customized with an imprint of your company's name, logo and telephone number.

**17720-18-3 Traffic Cones
- Orange**



Our traffic cones are one of the most durable on the market today. They feature a softer base, and very competitive pricing. Available in 18" 3lb., 28" 7lb., 28" 10lb., and 36" 10lb. sizes. Available with or without reflective.



14991 Pennant Flags



Our pennant flags come in 60' long strings containing 36 brightly colored 9" x 12" pennants. Ideal for use at construction sites, scaffolding, wet floors, sporting events, grand openings, open houses, and other practical applications. The pennants are available in solid red, solid yellow, solid orange, red/white, yellow/white, orange/white, yellow/black, and a 6-color combination. 10 strands per box.

15903 OSHA Perimeter



Our "OSHA" Perimeter Marker is 105 ft. in length and exceeds the required 500 lb. breakstrength and contains (42) 12"x18" flags. Available in Yellow, Red, or Red/Yellow Combo.

15991 Super Multi Pennant



Our Super Pennant Flags come in 100' long strings containing 48 brightly colored 9"x12" pennants. They are ideal for use at construction sites, scaffolding, wet floors, sporting events, grand openings, open houses, and have a myriad of other practical applications.

14655-1-18 ABS Stop/Slow Paddle



Our durable ABS Stop/Slow paddles have an 81" high staff for easy handling and are highly visible to motorists on the road. These paddles come in two sizes (18" or 24"), and three different reflective grades (non-reflective, engineer grade reflective, or high intensity reflective). Each 18" paddle has 6" lettering, while the 24" paddle has 8" lettering. All paddles have a two piece, 2" x 81" tall white plastic handle.

14983-10 Stop/Slow Paddle



18" diameter traffic control paddles are available lettered with "STOP" on one side and "SLOW" on the other side. Large 6" letters in the official traffic sign colors with shapes make Our paddles easily identifiable by motorists. Made of lightweight non-corrosive and weather-proof material with no sharp edges, Our paddles are safe and long lasting. They are available with 10', 5', or 6' handles.



14667-300-12 Tear-Off Danger Flags



Our convenient disposable danger flags are heavy 4-mil polyethylene flags, available in a variety of convenient sizes. 12" x 12" x 300' (300 flags) 12" x 12" x 1500' (1500 flags) as well as 16" x 16" x 300' (240 flags) and 16" x 16" x 1500' (1200 flags), All available plain or lettered with the word "DANGER". They easily tear off at the perforations and are suited for use in lumber yards.

14962-27-18 Reflective Hwy Safety Flag



Heavy-duty vinyl coated nylon safety flag with a hi-gloss yellow reflective binding and diagonal stripe for extra nighttime visibility. Available in 18" x 18" x 27" staff or 24" x 24" x 36" staff.

14967-79-24 Red Vinyl Highway Safety Flags



As required by certain D.O.T.'s, Our standard highway safety flag in a solid red.

24334 Shackle 3/4" w/Screw Pin Import



SKU	Product Name
243334	3/4" Domestic
24558	5/8" Import
245558	5/8" Domestic

246004 Tuflex Sling Green 4 Ft



SKU	Product Name
246006	Tuflex Sling Green 6 Ft
246010	Tuflex Sling Green 10 Ft

246103 Load Huger Ratchet 1" X 15 Ft



Load Huger Cargo Tie-Down Ratchet Strap, Series 1000, 15 ft Length, 1 in Width, 1000 lb Work Load Limit, 2100 lb Tensile Strength, Open Hook, Polyester, DOT, CVSA, With PE Coated Hook

Slings

249010 Tuflex Sling Yellow 10 Ft



- Color: Yellow
- Vertical Pounds Capacity: 8400
- Choker Pounds Capacity: 6700
- Basket Pounds Capacity: 16800
- Length: 10 Feet
- Material: Nylon
- Sling Elasticity: +/-5% Of Ordered Length
- Webclass: Tuflex Endless Roundlings

2418016 Webmaster Sling 1 Ply 1" x 6 Ft; 2 Ply 2" x 6 Ft; 2 Ply 2" x 8 Ft



- Type: Eye-Eye Web Sling
- Eye Size: 10.00 in L
- Sling - Width: 2.00 in
- Sling - Length: 6.00 ft
- Capacity - Choker: 5000 lb
- Capacity - Vertical: 6400 lb
- Capacity - Vertical Basket: 12800 lb
- Material: Polyester
- Material Color: Yellow

2461001 Load Hugger Ratchet 10K 2"X27 Ft



Meet all DOT and CVSA requirements. Flexible, conforms to and controls the load. Ratchet assembly allows fast, easy adjustment. These two-piece, quality ratchet tie-downs have a 12" long fixed end length with the other length being adjustable. Pump handle to tighten tie-down securely around load. Positive ratchet action avoids accidental release.

24280210 Webmaster Sling 2 Ply 2" X 10 Ft



SKU	Product Name
2428012	Webmaster Sling 2 Ply 2" x 12 Ft
24280220	Webmaster Sling 2 Ply 2" x 20 Ft
24280420	Webmaster Sling 2 Ply 4" x 20 Ft
EE2802DTx30	Webmaster Sling 2 Ply 2" x 30 Ft

**Let us
know
how we
can help
you.**



Wheel Chocks

This most popular design of rubber wheel chock affords maximum durability and skid protection especially under adverse weather conditions. It is zinc-plated eyebolt and weighs 9 lbs.

Mfr. No.	Product Description	Specification
2048C	12' 10# JACK CHAIN	---
2048WC	HEAVY DUTY	WHEEL CHOCK
2048WCC	WHEEL CHOCK	W/12' CHAIN



Parking Blocks

Maintenance free, these parking blocks will not warp, crack, or rot. It is resistance to oil, UV, and moisture and can stand up in wide temperature extremes. The painted yellow stripes are reflective. The installation is done easily by one person. 36" blocks will require 2 spikes, 48" blocks will require 3, and 72" blocks will require 4 spikes.

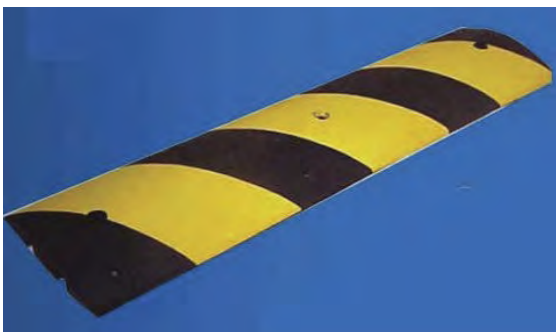
Mfr. No.	Product Description	Specification
2049PB	4' PARKING BLOCK	STRIPED YELLOW, RUBBER
2050PB	6' PARKING BLOCK	STRIPED YELLOW, RUBBER
2057PB	3' PARKING BLOCK	STRIPED YELLOW, RUBBER
2053S	14" SPIKE, PAINTED	STEEL SPIKE



Speed Bumps

Maintenance free, these extremely durable recycled rubber speed bumps will not warp, crack, or rot. It can withstand wide temperature extremes. Painted with polyurethane yellow reflective paint, these speed bumps also have built in cats eye reflectors for added visibility. There are two 1.25" underside channels that allow for cables and provide drainage. 48" speed bumps require 3 spikes and 72" speed bumps require 4. It is good for weights up to 6000 lbs.

Mfr. No.	Product Description	Specification
2054SB	4' SPEED BUMP	STRIPED YELLOW/RUBBER
2055SB	6' SPEED BUMP	STRIPED YELLOW/RUBBER
2056SB	3' SPEED BUMP	STRIPED YELLOW/RUBBER
2053S	14" SPIKE, PAINTED	STEEL SPIKE



Low profile Tear Drop Light

Whether you are up fitting a single unit or an entire fleet, we offer the industries highest quality and dependable line of amber lights; all of which meet or exceed applicable SAE requirements.

Mfr. No.	Product Description	Specification
22-58525	AMBER, ROTATING HALOGEN TEAR DROP	12V MAG MOUNT
22-58528	RED, ROTATING HALOGEN TEAR DROP	12V MAG MOUNT
22-58527	BLUE, ROTATING HALOGEN TEAR DROP	12V MAG MOUNT



Industry-Leading Service, Delivery and Price



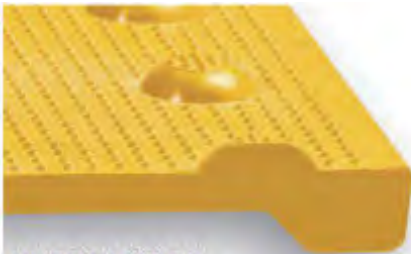
AVAILABLE IN SIZES:

2 x 4

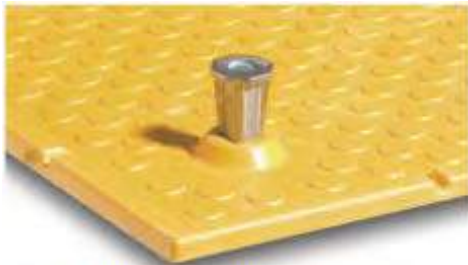
3 x 4

2 x 5

3 x 5



UNIFORM COLOR
THROUGHOUT



UNDERSIDE OF TACTILE

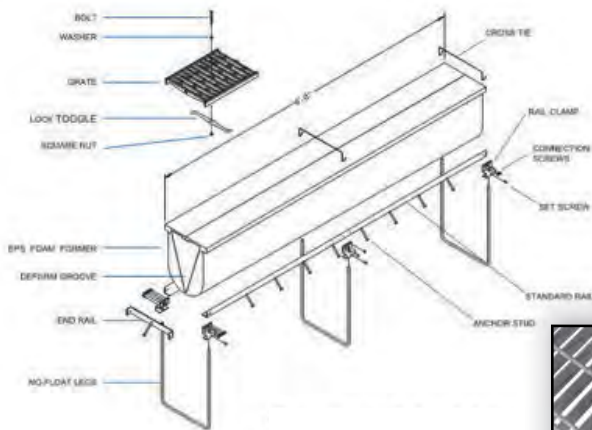


**COMPOSITE (WET SET)
REPLACEABLE TACTILE**

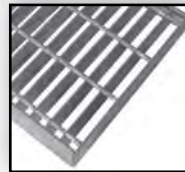
*Replacement
in under
10 minutes!*

TrenchFormer is a trench forming system that utilizes standard metal components and customizable forming sections. Its components are made in the most commonly constructed sizes. They have integral deforming grooves for easy removal. The steel angle rails include anchoring studs welded on predetermined centers to the outside corners. U-shaped no-float legs (#4 rebar) attach to rail clamps on each rail. Each rail end is designed to accept a rail clamp which connects adjacent rail segments. Pre-fabricated L-rail and T-rail assemblies allow for field installation of 90° turns anywhere in the pre-sloped layout.

Outlet piping is butted to an annular groove made in the eps form prior to concreting. For Trench junctions or for large outlets sizes, four catch basins are available. A wide selection of retainable grates and solid covers are available for various loadings.



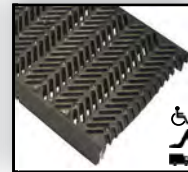
The most versatile trench drain on the market



#208 Banded Bar Grate



#502 High Intake Slotted



#506 Herringbone



#603 Standard Slotted



#504 8" Slotted ADA



#504 12" Slotted ADA



Solid Cover - Smooth



Solid Cover - Embossed

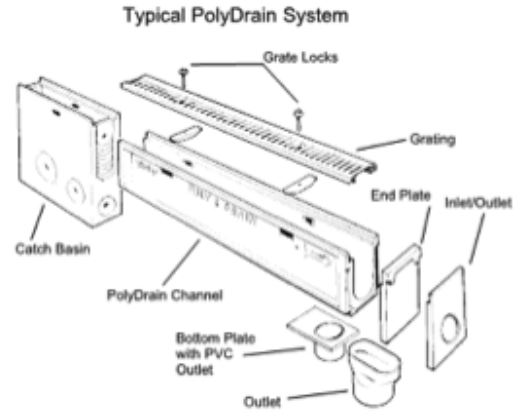
DISCLAIMER: The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT, and EXCEPT AS EXPRESSLY PROVIDED IN ABT'S STANDARD WARRANTIES, ABT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT's standard warranties are available at www.abtdrains.com.

The information contained within is believed to be accurate but not guaranteed to be so. The customer should evaluate the suitability and safety of these products for any application. ABT assumes no liability for the end results since the conditions of installation and use are beyond the control of ABT. Concrete specifications, placement, reinforcement and structural considerations are the responsibility of the customer. ABT reserves the right to change the price, availability, specifications, and content of any of its products, literature or other information in all media at any time without notification.

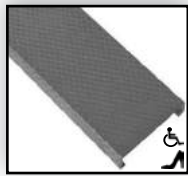
PolyDrain®, PolyDym®, PolyChampion®, GreenDot®, RedDot®, PolyWall®, TrenchFormer® are registered trademarks of ABT, Inc.® USA Patent Numbers 5,281,051; 5,348,421; 5,393,171; 5,399,047; 5,573,350; 5,702,204; 5,890,839; 6,443,656; 6,533,497; 6,926,245 : Canada 2,080,136; 2,131,866; 2,131,867; 2,139,405; 2,139,407 : Mexico 189,218; 189,436; 197,851 : Other US and foreign patents pending.

The PolyDrain Trench Drain System consists of 30 interlocking sloped channels and 4 non-sloped channels. Special non-sloping channels can be inserted at specified intervals in order to extend channel runs. Catch basins, horizontal outlet plates, closed end plates and vertical outlet plate adapters can be installed at designated locations. Closed end plates terminate channel runs. To determine number of channels required simply divide footage by 3.27.

Note: always begin at the appropriate outlet channel, working towards the shallow end.



Solid Cover - Smooth



Solid Cover - Embossed



2501



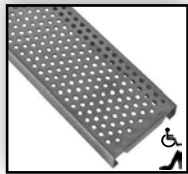
2502



2512AF



2514AF



Perforated - Heel Proof



Slotted



2504



2511AF



2532



2815F Locking Device

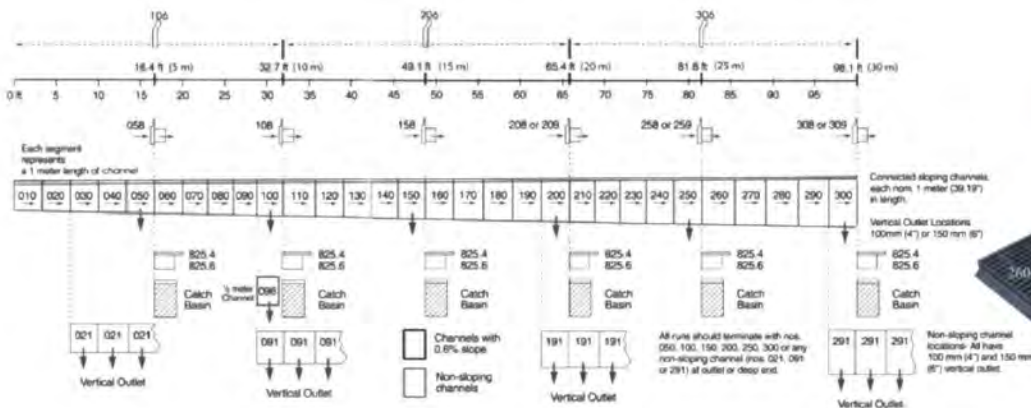
2610-2611 Large Catch Basins

PolyDrain's 2610 and 2611 Large Catch basins are designed to accept large volumes of fluids. Removable stainless or galvanized steel trash buckets are available and a cast iron grate and frame is included. Catch basins are 19.6" long and 12.8" wide and have pre-formed cutouts for insertion of channels and 6 in. (150 mm) outlets on all four sides of the basin, although other pipe sizes can be fitted to the catch basin as required. PolyDrain Large Catch basins have a stackable design which allows for installation to any required depth.

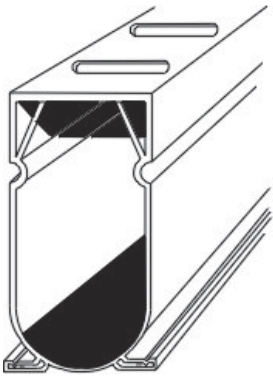
2600 Series Grates

Grates for 2600 Series Catch Basins

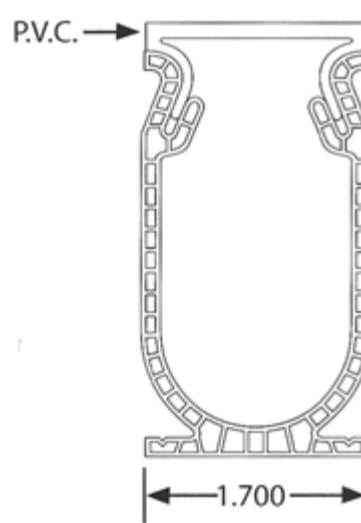
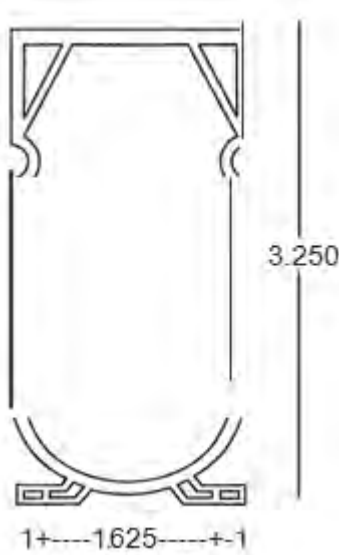
Part No.	Material	Load Class	Length in (m)
2604	Slotted Ductile Iron	E	18.87 (0.48)
2616	Solid Cover- Steel	D	18.87 (0.48)
2616.505	Heelproof Herringbone	C	18.87 (0.48)
2604.504	Longitudinal Slotted	C	18.87 (0.48)
2605.SSHD	Stainless Steel	D	18.87 (0.48)
2604.FRP	Fiberglass	B	18.87 (0.48)



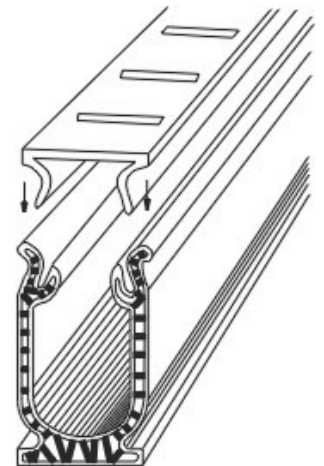
Deck Drain



Stegmeier LLC Deck Drain is an extruded PVC drain that comes with connecting couplers and is designed to be set level. This drain is commonly used in pool decks, patios and other pedestrian traffic areas. Deck Drain is easy to install by staking on grade (no trenching required) and has a full .100" thickness top for durability.



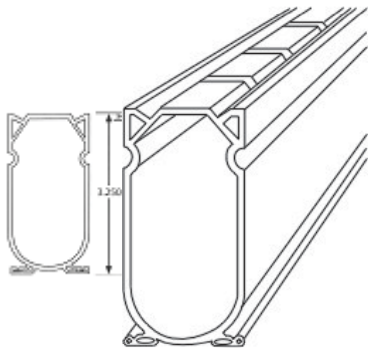
Frontier Deck Drain



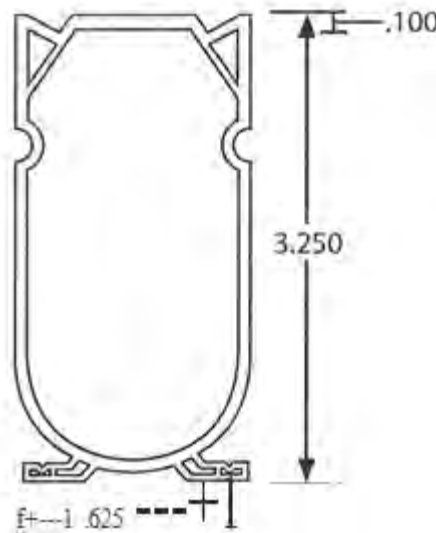
Frontier Deck Drain is a removable top drain that features a double wall base and snap in top (PVC). When installing this drain the tops are staggered past the joints making the joints very rigid. Because the tops are removable, this drain is easy to clean and the tops can be replaced if ever damaged. Frontier Deck Drain is used in many residential and commercial swimming pools, patios and other pedestrian traffic areas.



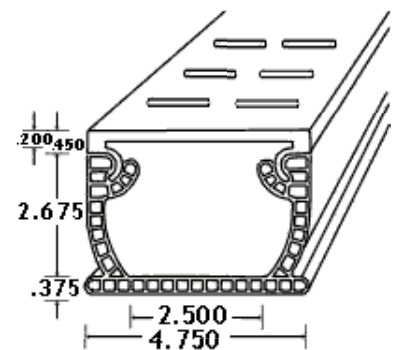
Channel Drain



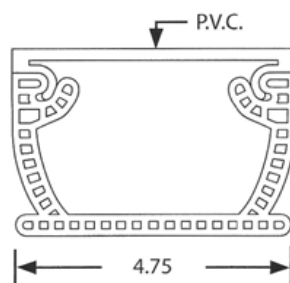
Stegmeier LLC Channel Drain has an attractive dual channel top that reduces water pass-over. Channel Drain is an extruded PVC drain that comes with connecting couplers and is designed to be set level. This drain is commonly used in pool decks, patios and other pedestrian traffic areas. Channel Drain is easy to install by staking on grade (no trenching required) and has a full .100" thickness top for durability.

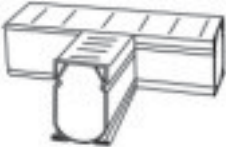


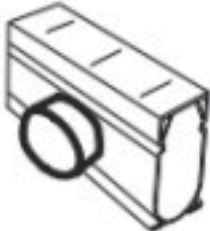
Flowmaster Commercial Deck Drain

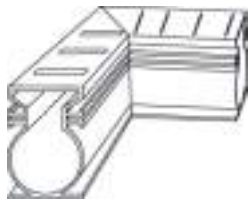


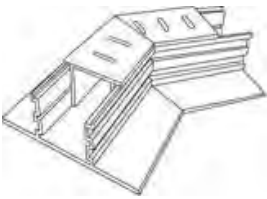
Flowmaster Commercial is a 4" removable top drain that features a double wall base and a snap in top (PVC). When installing this drain the tops are staggered past the joints making the joints very rigid. Because the Flowmaster Commercial Deck Drain tops are removable this drain is easy to clean and the tops can be replaced if ever damaged. Flowmaster Commercial Deck Drain is used on many commercial swimming pools, patios and other areas where large amounts of water need to be removed.

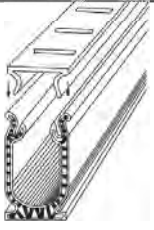


DECK DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN	BLACK
 <p>Tee/ Deck Drain</p>	90 DEGREE	10	D9W	D9G	D9T	D9B
	45 DEGREE	10	D4W	D4G	D4T	D4B
	SIDE ADAPTER	4	DSAW	DSAG	DSAT	DSAB
	CLEAN OUT	4	DCOW	DCOG	DCOT	DCOB
	TEE	4	DTW	DTG	DTT	DTB
	CROSS	2	DXW	DXG	DXT	DXB
	DOWN ADAPTER	4	DDAW	DDAG	DDAT	DDAB
	END ADAPTER	4	DEA	DEA	DEA	DEA
	END PLUG	10	DEP	DEP	DEP	DEP
	COUPLER	12	DCUP	DCUP	DCUP	DCUP

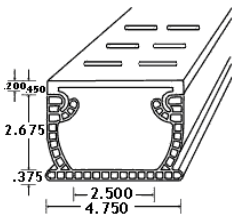
CHANNEL DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN	BLACK
 <p>Side Adapter/ Channel Drain</p>	90 DEGREE	10	CD9W	CD9G	CD9T	CD9B
	45 DEGREE	10	CD4W	CD4G	CD4T	CD4B
	SIDE ADAPTER	4	CDSAW	CDSAG	CDSAT	CDSAB
	CLEAN OUT	4	CDCOW	CDCOG	CDCOT	CDCOB
	TEE	4	CDTW	CDTG	CDTT	CDTB
	CROSS	2	CDXW	CDXG	CDXT	CDXB
	DOWN ADAPTER	4	CDDAW	CDDAG	CDDAT	CDDAB
	END ADAPTER	4	DEA	DEA	DEA	DEA
	END PLUG	10	DEP	DEP	DEP	DEP
	COUPLER	12	DCUP	DCUP	DCUP	DCUP

SUPER DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN
 <p>90° Super Drain</p>	90 DEGREE	10	SR9W	SR9G	SR9T
	45 DEGREE	10	SR4W	SR4G	SR4T
	SIDE ADAPTER	4	SRSAW	SRSAG	SRSAT
	CLEAN OUT	4	SRDCOW	SRDCOG	SRDCOT
	TEE	4	SRTW	SRTG	SRTT
	CROSS	2	SRXW	SRXG	SRXT
	DOWN ADAPTER	4	SRDAW	SRDAG	SRDAT
	END CLIP	10	SREC	SREC	SREC
	END PLUG	10	SRDEP	SRDEP	SRDEP
	COUPLER	12	SRDCUP	SRDCUP	SRDCUP

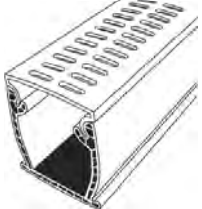
ADJUSTABLE HEIGHT PAVER DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN	MARBLE
 <p>45° Adjustable Height Paver Drain</p>	90 DEGREE	4	PD9W	PD9G	PD9T	PD9M
	45 DEGREE	4	PD4W	PD4G	PD4T	PD4M
	DOWN ADAPTER	4	PDDAW	PDDAG	PDDAT	PDDAM
	END ADAPTER	4	PDDEAW	PDDEAG	PDDEAT	PDDEAM
	SIDE ADAPTER	N/A	N/A	N/A	N/A	N/A
	CLEAN OUT	N/A	N/A	N/A	N/A	N/A
	TEE	N/A	N/A	N/A	N/A	N/A
	CROSS	N/A	N/A	N/A	N/A	N/A
	END PLUG	4	PDDEP	PDDEP	PDDEP	PDDEP
	COUPLER	12	PDDCUP	PDDCUP	PDDCUP	PDDCUP

FRONTIER DECK DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN	BLACK	MARBLE
 <p>90° Frontier Deck Drain</p>	90 DEGREE	10	SDD90W	SDD90G	SDD90T	SDD90B	SDD90M
	45 DEGREE	10	SDD45W	SDD45G	SDD45T	SDD45B	SDD45M
	CLEAN OUT	N/A	N/A	N/A	N/A	N/A	N/A
	SIDE ADAPTER	4	SDD-SA	SDD-SA	SDD-SA	SDD-SA	SDD-SA
	TEE	4	SDD TW	SDD TW	SDD-TW	SDD-TW	SDD-TW
	CROSS	2	SDD-XW	SDD-XW	SDD-XW	SDD-XW	SDD-XW
	DOWN ADAPTER	4	SDD-DA	SDD-DA	SDD-DA	SDD-DA	SDD-DA
	END ADAPTER	4	DEA	DEA	DEA	DEA	DEA
	END PLUG	10	DEP	DEP	DEP	DEP	DEP
	COUPLER	12	DCUP	DCUP	DCUP	DCUP	DCUP

TREADMASTER COMMERCIAL DRAIN USE FRONTIER DECK DRAIN FITTINGS (Discard tops and use in-line with base)

FLOWMASTER COMMERCIAL DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN
 <p>45° Flowmaster Commercial Drain</p>	90 DEGREE	1	FM9W	FM9G	FM9T
	45 DEGREE	1	FM4W	FM4G	FM4T
	SIDE ADAPTER	1	FMSAW	FMSAG	FMSAT
	DOWN ADAPTER	1	FMDAW	FMDAG	FMDAT
	CLEAN OUT	N/A	N/A	N/A	N/A
	CROSS	N/A	N/A	N/A	N/A
	TEE	1	FMTW	FMTW	FMTW
	END ADAPTER	1	FMDEA	FMDEA	FMDEA
	END PLUG	1	FMDEP	FMDEP	FMDEP
	COUPLER	1	FMDCUP	FMDCUP	FMDCUP

FLOWMASTER A/T DRAIN USE FLOWMASTER COMMERCIAL FITTINGS (Discard tops and use in-line with base)

FLOWMASTER 3 COMMERCIAL DRAIN		QUANTITY PER CARTON	WHITE	GREY	TAN
 <p>Down Adapter/Flowmaster 3 Commercial Drain</p>	90 DEGREE	1	FM39W	FM39G	FM39T
	45 DEGREE	1	FM34W	FM34G	FM34T
	SIDE ADAPTER	1	FM3SAW	FM3SAG	FM3SAT
	DOWN ADAPTER	1	FM3DAW	FM3DAG	FM3DAT
	CLEAN OUT	N/A	N/A	N/A	N/A
	CROSS	N/A	N/A	N/A	N/A
	TEE	1	FM3TW	FM3TW	FM3TW
	END ADAPTER	1	FM3DEA	FM3DFA	FM3DFA
	END PLUG	1	FM3DEP	FM3DEP	FM3DEP
	COUPLER	1	FM3DCUP	FM3DCUP	FM3DCUP

FLOWMASTER 3 A/T DRAIN USE FLOWMASTER 3 COMMERCIAL FITTINGS (Discard tops and use in-line with base)

Easy-to-use heavy-duty ADS fittings

ADS manufactures a complete line of fittings and couplings, simplifying installations for highway and construction drainage applications.

SPLIT COUPLING	SNAP COUPLING	INTERNAL COUPLING	SEPTIC TANK SPLIT END CAP	ADAPTER	45° Y	END PLUGS
 <p>3" - 311 12" - 1211 4" - 411 15" - 1515 5" - 511 18" - 1815 6" - 611 24" - 2455 8" - 811 30" - 3061 10" - 1011 36" - 3661</p>	 <p>3" - 312 6" - 612 4" - 412 8" - 812 5" - 512 10" - 1012</p>	 <p>4" - 415 5" - 515 6" - 615 8" - 815</p>	 <p>3" - 331 10" - 1031 4" - 431 12" - 1231 5" - 531 15" - 1567 6" - 631 18" - 1867 8" - 831 24" - 2467</p>	 <p>4" - 453</p>	 <p>3" - 322 4" - 422 5" - 522 6" - 622 8" - 822</p>	 <p>Perforated 4" - 434 Solid 3" - 333 4" - 433 5" - 533 6" - 633</p>
REDUCING	SNAP TEE	BLIND TEE	90° ELL	SMOOTHWALL ADAPTER	DOWNSPOUT ADAPTER	SEPTIC SYSTEM LEACH FIELD PIPE
 <p>14 - 4" x 3" 816 - 8" x 6" 14 - 6" x 4" 1018 - 10" x 8" 16 - 6" x 5" 1210 - 12" x 10" 14 - 6" x 4"</p>	 <p>3" - 321 3" - 525 4" - 421 6" - 626</p>	 <p>3" - 341 6" - 641 4" - 441 8" - 841 5" - 541</p>	 <p>3" - 390 4" - 490</p>	 <p>3" - 362 6" - 662 4" - 462 8" - 862 5" - 562</p>	 <p>3" - 364 (3.25 x 2.5) 4" - 464 (3.25 x 2.5) 4" - 465 (4.25 x 3) 4" - 466 (2.56 x 2.56) RAINGO 6" - 664 (4 x 6 x 6)</p>	 <p>4" - 402 - 10' Lengths 402 also available in coils</p>
SB2 GRAVEL-LESS LEACH BED PIPE	HEAVY DUTY PIPE	PERFORATED PIPE	NON-PERFORATED PIPE	REDUCING TEE (MULTIPLE)	SUMP LINERS & LIDS FOR BASEMENT	SEPTIC SYSTEM LEACH FIELD PIPE
 <p>Filter wrapped 1/2" holes, 8" & 10" diam, 20' Lengths</p>	 <p>Perf. 8" - 801 R51 - 20' Lengths 10" - 1001 1051 - 20' Lengths 12" - 1201 1251 - 20' Lengths 15" - 1501 1551 - 20' Lengths 18" - 1801 1851 - 20' Lengths 24" - 2401 2451 - 20' Lengths</p>	 <p>3" - 301 - 300' Coils 4" - 401 - 100' Coils 4" - 401 - 250' Coils 5" - 501 - 165' Coils 6" - 601 - 108' Coils 8" - 801 - 20' Lengths 10" - 1001 - 20' Lengths 12" - 1201 - 20' Lengths 15" - 1501 - 20' Lengths 18" - 1801 - 20' Lengths 24" - 2401 - 20' Lengths</p> <p>301 and 401 also available in bundles of ten - 10' lengths</p> <p>Also available in smooth interior N-12 pipe 4" through 48"</p>	 <p>3" - 351 - 300' Coils 4" - 451 - 100' Coils 4" - 451 - 250' Coils 5" - 551 - 165' Coils 6" - 651 - 100' Coils 8" - 851 - 20' Lengths 10" - 1051 - 20' Lengths 12" - 1251 - 20' Lengths 15" - 1551 - 20' Lengths 18" - 1851 - 20' Lengths 24" - 2451 - 20' Lengths</p> <p>351 and 451 also available in bundles of ten - 10' lengths</p> <p>Also available in smooth interior N-12 pipe 4" through 48"</p>	 <p>644 - 6" to 6" 6" to 5" 6" to 4" 6" to 3" 844 - 8" to 8" 8" to 6" 8" to 5" 8" to 4" 1044 - 10" to 10" 10" to 8" 10" to 6" 1244 - 12" to 12" 12" to 10" 12" to 8" 1544 - 15" to 15" 15" to 12" 15" to 10" 1844 - 18" to 18" 2444 - 24" to 24"</p>	 <p>ADS TRIPLEWALL™ SEWER & DRAIN PIPE</p> <p>462 - 4" x 10', perforated 465 - 4" x 10', solid</p>	 <p>Drain Guard® 3" - 372 8" - 872 4" - 472 10" - 1072 5" - 572 12" - 1272 6" - 672</p> <p>Stock 3" 373 300' Coils 4" 473 250' Coils 5" 573 185' Coils 6" 673 100' Coils 8" 873 20' Lengths 10" 1073 20' Lengths 12" 1273 20' Lengths 15" 1573 20' Lengths 18" 1873 20' Lengths 24" 2473 20' Lengths</p>
FLARED END SECTION	ADVANEDGE PIPE					
 <p>12" - 36"</p>	 <p>AVAILABLE IN 12" & 18" HEIGHTS</p>					

* Fabricated fittings such as elbows, tees, etc. for larger sizes are available in N-12 pipe.

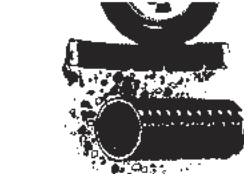
Easy to Install Lightweight and easy to carry. Saves time and labor. No special tools or knifs needed. No waste - just cut to required length.



Unrestricted Water Intake (Drainage Pipe) Uniform slots in the corrugated valleys for unrestricted, rapid water intake. Quicker drainage to handle heavy rains.



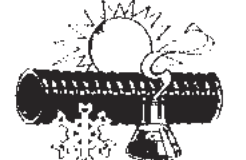
Strong-Tough-Durable Won't crack or break under normal handling and installation procedures. Tough enough to withstand the heaviest loads.



Flexible Shifts with the ground. No problems due to misalignment and clogging. Drainage system continues to work efficiently because ADS pipe aligns itself.



Long Life Will not deteriorate. Rust resistant. Not affected by acidic soil content or other problem soils. Not affected by freezing or thawing.



Assured Effluent Flow (Leach Bed Pipe) Uniformly sized and spaced drilled holes for effective outflow of effluent.



Specifications

Manufactured of selected polyethylene resins. ADS pipe meets the strictest product quality standards and industry specifications.

AASHTO	M-252 4" - 10" M-294 12" - 36"
ASTM	Meets heavy duty pipe requirements of ASTM F405 and F667
BOCA	Research Report #89-41 Also approved by most state, county and local sanitarians and public works departments

Chemical Resistance
ASTM D 542 Tests verify that ADS plastic pipe resists the following solutions

Chemical Solution	Concentration in Water
Sodium carbonate	0.1N
Sodium Sulfate	0.1N
Sodium Chloride	5%
Sulfuric acid	0.1N
Acetic acid	5%
Hydrochloric acid	0.2N
Sodium hydroxide	0.2N
Ivory Soap	5%
Household detergent	5%
Raw sewage	-

Silt Sifter Bag



Silt Sifter® is the ultimate solution! The patented dual-component, bag-wit in-a-bag design, Silt Sifter® Bag is the original cushioned sediment control device incorporating materials specifically chosen for both 'filtration' and 'high-flow' performance. Squared on one end to better hug the curb, the Silt Sifter® Bag comes either pre-filled with 35 pounds of 3/8" pea gravel or empty. Size: 30"L x 16"W x 6"H

Silt Sifter Tube



Like the Silt Sifter® Bag, the patented Silt Sifter® Tube is a dual-component sediment control device that is also designed for 'filtration' and 'high-flow' but is more flexible allowing for customized protection such as around grated drain inlets. The applications are unlimited. Size: 60"L x 9" Diameter

D-Watering Bag



Meet all DOT and CVSA requirements. Flexible, conforms to and controls the load. Ratchet assembly allows fast, easy adjustment. These two-piece, quality ratchet tiedowns have a 12" long fixed end length with the other length being adjustable. Pump handle to tighten tiedown securely around load. Positive ratchet action avoids accidental release.

Curb Inlet Filter (CIF)



The Curb Inlet Filter makes protecting curb opening inlets effective and easy. At 72" in length, the Curb Inlet Filter is longer than most single curb openings providing complete inlet coverage. Built for durability, the Curb Inlet Filter is encased in a high density polyethylene fabric, secured with 4 thread poly lockstitching and an 85% U.V. rating designed to handle even the most severe of climates.

Curb Inlet Filter (CIF)



The Hi-Viz Gravel Bag is an all purpose sediment control device used in areas where high visibility is a must. Filled with 3/8" natural pea gravel at approximately 35-40 lbs. per bag and sewn shut eliminating spill-out.

Yellow Jacket Drain Inlet Filter



Finally, a drain inlet filter that is affordable and simple to install and maintain. The yellow webbing secures the filter to the grate and doubles as lifting straps to quickly and easily remove the filter, grate and all, for simple cleaning. YellowJackets are designed to accommodate rectangular inlets as well as square and round drains. 4 sizes to choose from: 2'x2' • 2'x3' • 2'x4' • 3'x4'

Hornet's Nest Drain Inlet Filter



The Hornet's Nest Drain Inlet Filter is a unique, under-grate storm drain filter. The oversized base allows the filter to be used with a variety of size and shape drain inlets. The yellow webbing secures the filter to the grate and doubles as lifting straps to quickly and easily remove the filter, grate and all, for simple cleaning. The sediment collection tube has 4 overflow portals to ease congestion. Size: 36" x 48" (trim to suit onsite)

8 oz. Non-Woven Gravel Bag



The Gravel Bag is an all purpose sediment control device. Filled with 3/8" natural pea gravel at approximately 35-40 lbs. per bag and sewn shut eliminating spill-out.

Curb Inlet Filter (CIF)



The AGG Filter is useful in drain inlet protection when an under-grate filter, such as the YellowJacket or Solid Frame Filter is not feasible. Solidly sewn on each end of the filter is a 2 ply rock bag with 2" Heavy Duty Velcro enclosures capable of containing up to 30 lbs. of rock each. Incorporated on each end are durable poly webbing straps used to aid in cleaning and positioning the AGG Filter. On one leading edges is a 2" wide strips of HDPE Resin plastic that flips up on the one side to create a back opening block.

Straw Wattles



Straw Wattles are man made cylinders of compressed, weed free straw. Straw Wattles are encased in High-Density Polyethylene, photodegradable netting (recommended for 2 years outdoors). Straw Wattle is a leading sediment control BMP (Best Management Practice) that is more durable and lower profile than silt fence as well as a better aesthetic and design value. Sizes: 9" x 25'; 12" x variable lengths

Hi-Viz Gravel Bag



The Hi-Viz Gravel Bag is an all purpose sediment control device used in areas where high visibility is a must. Filled with 1" natural rock at 35 lbs. per bag and sewn shut eliminating spill-out. Size: 15" x 26"

Above Ground Grated



PSI's recent addition to our family of sediment and erosion control devices is the Above Ground Grated Filter (AGG Filter).

Geotextile Products - Non Woven



Mutual Non-Wovens

Mutual's non-wovens are available in cut rolls. NW35 is in stock in the following sizes: 7-1/2' x 300', 6' x 300', 4' x 300', 3' x 300', 2' x 300'.

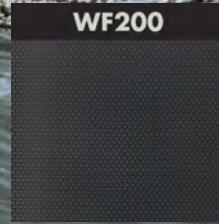
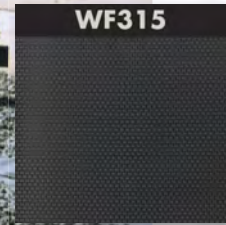
All other non-wovens available in: 12-1/2' x 360', and 15' x 300'.

MUTUAL NON-WOVENS

USES	NW35	NW40	NW45	NW60	NW80	NW100	NW120	NW160	
Subsurface Drainage	X	X	X	X	X				Non-woven geotextiles used as a filter, allow subsurface water to pass into drainage core while preventing soil from clogging the system
Drainage Systems			X	X	X	X			When placed in contact with a Geonet or drainage stone non-woven geotextiles can filter soil and waste while allowing water and waste to pass
Liner Protection					X	X	X	X	Non-woven geotextiles protect liners from damage by sharp objects, elevating puncture impact and abrasion resistance
Asphalt Overlay	X	X	X	X					Absorb asphalt tack to form moisture barrier that retards reflective cracking
Railroad Stabilization			X				X	X	Putting a non-woven geotextile directly on a soft saturated subgrade extends road and rail life by preventing aggregate and ballast from intermixing with soil
Erosion Control					X	X	X	X	Non-woven geotextiles can help relieve hydrostatic pressure beneath hard armor and prevent subsurface soils from migrating through the erosion control system
Roadway Stabilization		X			X	X			Putting a non-woven geotextile directly on a soft saturated subgrade extends road and rail life by preventing aggregate and ballast from intermixing with soil
Waste Management					X	X			Non-woven geotextiles are used to separate layers and to protect liners in the landfills

Mutual Non-Woven Specifications		NW35	NW40	NW45	NW60	NW80	NW100
Grab Tensile Strength	ASTM D-4632	90 lbs.	105 lbs.	120 lbs.	165 lbs.	215 lbs.	270 lbs.
Grab Elongation	ASTM D-4632	50%	50%	50%	50%	50%	50%
Trapezoid Tear	ASTM D-4533	35 lbs.	45 lbs.	50 lbs.	90 lbs.	85 lbs.	100 lbs.
Puncture	ASTM D-4833	55 lbs.	60 lbs.	65 lbs.	90 lbs.	115 lbs.	150 lbs.
Mullen Burst	ASTM D-3786	185 PSI	210 PSI	230 PSI	310 PSI	360 PSI	450 PSI
Permittivity	ASTM D-4491	2.2 SEC-1	2.2 SEC	1.5 SEC-1	1.1 SEC	1.0 SEC	.7 SEC
Permeability	ASTM D-4491	.2 CM/SEC	.2 CM/SEC	.25 CM/SEC	.2 CM/SEC	.25 CM/SEC	.25 CM/SEC
A.O.S.	ASTM D-4751	.21 US Sieve	70 US Sieve	70 US Sieve	80 US Sieve	80 US Sieve	100 US Sieve
Water Flow	ASTM D-4491	110 gpm/ft2	150 gpm/ft2	120 gpm/ft2	80 gpm/ft2	65 gpm/ft2	55 gpm/ft2
U.V. Resistance (500 hr)	ASTM D-4355	70%	70%	70%	70%	70%	70%
Weight (oz/sq yd)	ASTM D-5261	3.5 oz	4 oz	4.5 oz	6 oz	8 oz	10 oz

Geotextile Products - Woven



MUTUAL WOVENS				
USES	GC125	WF200	WF315	
Ground Cover	X			Woven geotextiles are used to hold soil in place. They can also be used under Rip Rap, Gabions or precast block. Woven geotextiles are a time and money saving alternative to traditional methods using graded aggregate or sand filters.
Separation		X	X	To prolong surface life and stabilize the foundation.
Stabilization		X	X	Woven geotextiles provide a rugged separation layer between aggregate and subgrade.

Mutual Woven Specifications		GC125 GROUND COVER	WF200 WOVEN GEOTEXTILE	WF315 WOVEN GEOTEXTILE
Grab Tensile Strength	ASTM D-4632	125 lbs.	200 lbs.	315 lbs.
Grab Elongation	ASTM D-4632	15%	15%	15%
Trapezoid Tear	ASTM D-4533	70 lbs.	75 lbs.	120 lbs.
Puncture	ASTM D-4833	68 lbs.	100 lbs.	120 lbs.
Mullen Burst	ASTM D-3786	291 PSI	400 PSI	600 PSI
Permittivity	ASTM D-4491	.07 SEC	.07 SEC	.05 SEC
Permeability	ASTM D-4491	—	.005 CM/SEC	.005 CM/SEC
A.O.S.	ASTM D-4751	40 US Sieve	40 US Sieve	40 US Sieve
Water Flow	ASTM D-4491	—	—	4.0 gpm/ft ²
U.V. Resistance (500 hr)	ASTM D-4355	90%	90%	90%

Tire Scrub Fabric (Driveway Kit)

Part# 200-125-54

The WF200 12 ½' x 54' fabric is placed under aggregate and stabilizes the ground to be used as a tire scrub for trucks entering or leaving a job site. The purpose of a stabilized entrance is to reduce or eliminate the tracking of sediment onto public right of ways and streets. Reducing tracking of sediments and pollutants onto paved roads help prevent deposition of sediments into local storm drains and production of airborne dust.

Mutual Wovens

Mutual's wovens are available in cut rolls in the following sizes:

WF200:

12-1/2' x 432', 15' x 360', 17-1/2' x 309',
30" x 300', 36" x 300', 42" x 300' and
72" x 300'

WF315: 12-1/2' x 360'

GC125: 3' x 300', 4' x 300', 6' x 300', 12' x 300'



Sod Staples

Part# 17685

Ideal for keeping blankets in place, these metal staples are available in 11 gauge 4" and 6" sizes and in 8 gauge 8" and 12" sizes.



Fabric Pins

Part# 17686

Ideal for fastening landscape fabric and ground cover. Available in 12" and 18" lengths, 100 per box.

Concrete Cloth

Introduction



Milliken Concrete Cloth™ (CC) is a flexible, cement impregnated fabric that hardens when hydrated to form a thin, durable, water and fire resistant concrete layer.

The following guide provides useful information for installers, customers and specifiers of CC. It provides an overview of useful data and techniques that can be used across a wide range of applications. The versatile nature of the material means that this document is not exhaustive and is intended for guidance purposes only.

CC Specifications

CC Types

There are 3 CC types available with the following indicative specifications:

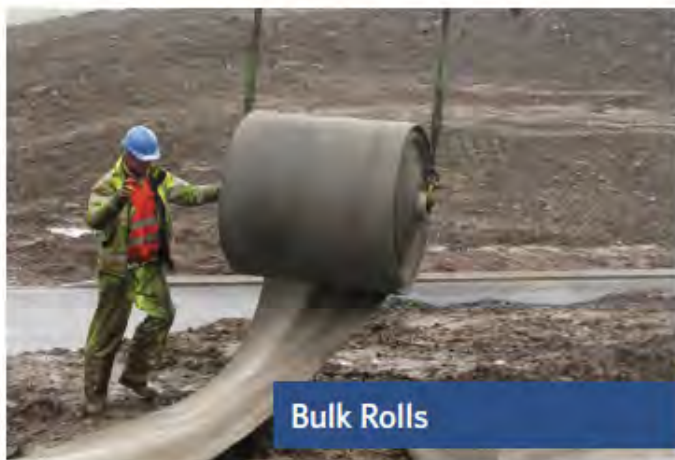
CC	Thickness (in)	Roll Width (ft)	Dry Weight (lbs/sq ft)	Batched Roll Coverage (sq ft)	Batched Roll Length (ft)	Bulk Roll Coverage (sq ft)	Bulk Roll Length (ft)
CC5	0.20	3.28	1.43	100	30	2153	656
CC8	0.31	3.61	2.46	55	15	1345	373
CC13	0.51	3.61	3.89	n/a	n/a	861	239

Bulk Rolls / Batched Rolls

CC is available in two standard roll sizes; bulk rolls or smaller batched, portable rolls (except CC13). The quantity per roll differs between the CC types.

Bulk rolls weigh about 1.7 Tons (~3400 lbs.) and are supplied on 6 inch cardboard tubes which can be hung from a spreader beam and unrolled using suitable equipment (see picture below). Bulk rolls provide the fastest method of laying CC and have the additional advantage of reducing the number of joints required.

Batched rolls are supplied on 3 inch inner diameter cardboard cores with carry handles, and can be easily handled by 2 to 4 people. All CC thicknesses can be supplied batched to custom lengths for an additional charge.



Shipping and Packaging

CC bulk rolls are individually wrapped and palletized. All CC rolls are provided with a basic hydration guide placed within the packaging.

Example CC Applications & CC Selection Guide

Some examples of applications for the different CC types are given below:

Application	CC5	CC8	CC13	Comments
Dust Suppression	●	◐		Use CC8 if the area experiences regular traffic.
Mud Slab, Mud Mat or subfooting	●	◐		Use CC8 for heavy duty applications.
Weather Proofing / Slope Protection	●	●		Use CC5 or CC8 depending on ground conditions.
Ditch Lining	◐	●	◐	Use CC5 for light duty applications. Use CC8 for medium duty applications. Use CC13 for heavy duty applications.
Secondary Containment Berm Lining	●	●	●	All thicknesses may be used depending on level of traffic.
Sandbag / Gabion Reinforcement	◐	●	●	CC8 has been tested by the British Army for sandbag reinforcement.
Temporary Roadway/Flooring		●	●	Use CC8 to CC13 depending on loading or substrate.
Pipe Protection	●	●	●	All thicknesses may be used depending on protection requirements.
Cable Covering	◐	◐	●	All thicknesses may be used depending on protection requirements.

Note: ● Primary Recommendation; ◐ Recommended in some cases.



Foam-Control® Plus+® Architectural Grade Insulation

Foam-Control® Plus+® is an architectural grade expanded polystyrene (EPS) insulation with high compressive strength and high R-Value. It provides all of the benefits of a high quality insulation: strength + energy efficiency + moisture resistance, bundles together to equal a budget friendly product that will help keep project costs on track.

Foam-Control® Plus+® architectural grade EPS is available in 4' x 8' sheets and a range of thicknesses: 16", 24", 32", & 48." Available in stock at Muller Construction Supply is our commodity EPS insulation, Foam-Control® 100 (10 psi), which comes in 4' x 8' sheets and a variety of thicknesses: 1/2", 3/4", 1", 1 1/2", 2", 3", 4", 6", 8", & 12".

Applications

Perimeter & Underslab Insulation
Cavity Wall Insulation & Sheathing
Green Roofs & Plaza Decks
Waterproofing Applications

High Strength

Foam-Control® Plus+® 150 (15psi)
Foam-Control® Plus+® 250 (25 psi)
Foam-Control® Plus+® 400 (40 psi)
Foam-Control® Plus+® 600 (60 psi)

Environmentally Friendly

Reduces Energy Costs & Greenhouse Gas Emissions.
Helps earn LEED Credits.
Is recyclable.

Cost Effective

10-30% less than XPS insulation

Stable, Long-Term Performance

50 Year R-Value Warranty

Quality Assurance

Thorough evaluations conducted by ICC-ES, combined with ACH Foam Technologies' strict manufacturing specifications and quality control, assures our customers receive a consistently superior product. ACH Foam Technologies provides quality UL labeled EPS products.

High R-Values

R-5
R-7.5
R-10
R-15
R-20
R-30

Moisture Resistant

Superior thermal performance when exposed to moisture

Termite Resistant

Perform Guard® Treatment



Foam-Control® Plus+®			150	250	400	600
Compressive Resistance ¹ @ 10% deformation, min.		psi	15.0	25.0	40.0	60.0
Design Thermal Resistance, Per 1.0 Thickness	25°	R-Value	4.80	5.00	5.00	5.10
	40°	R-Value	4.60	4.80	4.80	4.90
	75°	R-Value	4.20	4.40	4.40	4.50
Water Absorption ¹ by total immersion, max.		volume%	3.0	2.0	2.0	2.0
ASTM C 578 Material Type ^{1,2}			Type II	Type IX	Type XIV	Type XV

¹ See ASTM C 578 Standard Specification for complete information.

² See UL Certificate AFM-1 for Type II and Type IX. See UL Certificate AFM-9 for Type XIV and Type XV, available from ACH Foam Technologies.

Caution: EPS contains flame retardant; however, it should be considered combustible and not exposed to sources of ignition. Foam-Control® Plus+® flame spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E84 / UL 723 for densities from 0.70 - 3.0 lb/ft³. Refer to UL certification for complete information.

Foam-Control® EPS Geofoam

Foam-Control® EPS Geofoam is a geotechnical product used in fill applications where a lightweight material is required to reduce stresses on underlying soils or lateral pressures to retaining walls, abutments, or foundations.

Commercial Applications

- Stadium Seating & Theatres
- Floor Elevation
- Pools & Pool Decks
- Compressive Inclusion
- Vibration & Sound Proofing
- Gas Ventilation
- Bond Breakers
- Frost Issues

Transportation Applications

- Roads & Highways
- Railways
- Runways
- Bridge Approaches
- Retaining Walls

Structural Applications

- Retaining Walls
- Parking Structures
- Below-Grade Structures
- Foundations
- Berms
- Embankments
- Landscapes
- Green Roofs
- Levees
- Dikes
- Utility Protection
- Compressible Inclusion

Lightweight

Weighs 1% less than Traditional Soil Fill.

High Compressive Strength

Up to 18.6 psi @ 1% deformation.
Reduces lateral & bearing loads.

Predictable Material Performance

Meets ASTM D6817

Saves Installation Labor & Time

Can be installed in various weather conditions.

Inert in Long-Term Conditions

Does not contain leachates.



Geofoam Properties*		EPS12	EPS15	EPS19	EPS22	EPS29	EPS39	EPS46
Density, min.	lb/ft ³ (kg/m ³)	0.70 (11.2)	0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)	2.40 (38.4)	2.85 (45.7)
Compressive Resistance @ 1% deformation, min.	psi psf (kpa)	2.2 320 (15)	3.6 520 (25)	5.8 840 (40)	7.3 1050 (50)	10.9 1570 (75)	15.0 2160 (103)	18.6 2680 (128)
Compressive Resistance @ 5% deformation, min.	psi psf (kpa)	5.1 730 (35)	8.0 1150 (55)	13.1 1890 (90)	16.7 2400 (115)	24.7 3560 (170)	35.0 5040 (241)	43.5 6260 (300)
Compressive Resistance @ 10% deformation, min.	psi psf (kpa)	5.8 840 (40)	10.2 1470 (70)	16.0 2300 (110)	19.6 2820 (135)	29.0 4180 (200)	40.0 5760 (276)	50.0 7200 (345)
Water Absorption by total immersion, max.	volume%	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen Index, min.	volume%	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Buoyancy Force	lb/ft ³ (kg/m ³)	61.7 (990)	61.5 (980)	61.3 (980)	61.1 (980)	60.6 (970)	60.0 (960)	59.5 (950)

Barrier Fence

Grip-Rite Barrier Fence® is available in three grades and a variety of grid styles for use as a visual barrier for construction, recreation, crowd control, and lawn and garden applications. Produced from a blend of UV treated polypropylene and polyethylene, Grip-Rite Barrier Fence is flexible, strong, reusable, recyclable, and long lasting.

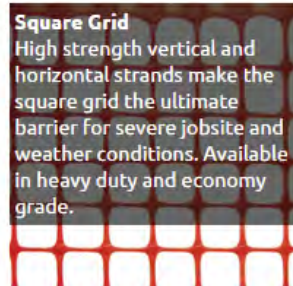


Introducing the new lightweight Economy Series Barrier Fence
Ideal for high-volume, budget conscious jobs, Grip-Rite Economy Barrier Fence is available in four new grid styles – Oriented, Warning, Square, and Diamond.

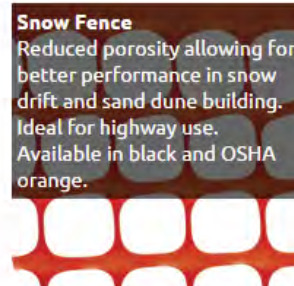
Diamond Grid
The durable, rigid favorite for construction barricades and crowd control. Exclusive safety edges protect materials and personnel on the jobsite during installation and removal. Available in premium, heavy duty and economy grade.



Square Grid
High strength vertical and horizontal strands make the square grid the ultimate barrier for severe jobsite and weather conditions. Available in heavy duty and economy grade.



Snow Fence
Reduced porosity allowing for better performance in snow drift and sand dune building. Ideal for highway use. Available in black and OSHA orange.



Garden Fence
Handy and attractive for landscape, lawn and garden applications.



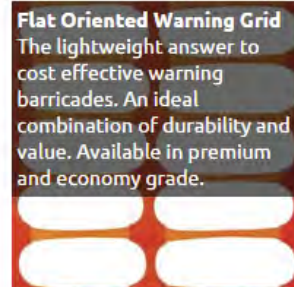
Hardware Cloth
A convenient substitute for metal cloth with the advantages of plastic.



Aviary Netting
For use as wire aviary netting substitute.



Flat Oriented Warning Grid
The lightweight answer to cost effective warning barricades. An ideal combination of durability and value. Available in premium and economy grade.



Flat Oriented Grid
High strength oriented grid provides cost effective high strength performance for construction sites, crowd control, and visual barricade applications. Available in premium and economy grade.



Description	Color	Roll Size W x L	Mesh Size W x L	Tensile* MD	Tensile* CD	Weight/ Roll	Rolls/ Pallet	SKU
Barrier Fence								
Diamond Grid	Orange	4 ft. x 50 ft.	1.75 in. x 2.0 in.	19	19	12.0 lb.	35	BFD450GR
Diamond Grid	Green	4 ft. x 50 ft.	1.75 in. x 2.0 in.	19	19	12.0 lb.	35	BFMP450E
Diamond Grid	Orange	4 ft. x 100 ft.	1.75 in. x 2.0 in.	19	19	25.0 lb.	20	BFD4100GR
Diamond Grid	Green	4 ft. x 100 ft.	1.75 in. x 2.0 in.	19	19	25.0 lb.	20	BFDG4100
Diamond Grid	Orange	6 ft. x 100 ft.	1.75 in. x 2.0 in.	19	19	39.0 lb.	9	BFD6100GR
Heavy Duty Diamond Grid	Orange	4 ft. x 50 ft.	1.75 in. x 2.0 in.	20	20	15.0 lb.	25	BFHD450GR
Heavy Duty Diamond Grid	Orange	4 ft. x 100 ft.	1.75 in. x 2.0 in.	20	20	30.0 lb.	15	BFHD4100GR
Snow Fence	Orange	4 ft. x 50 ft.	1.625 in. x 1.875 in.	30	15	8.0 lb.	72	BFSN450GR
Snow Fence	Orange	4 ft. x 100 ft.	1.625 in. x 1.875 in.	30	15	16.0 lb.	55	BFSN4100GR
Lightweight Square Grid	Orange	4 ft. x 50 ft.	2.0 in. x 2.0 in.	55	24	4.0 lb.	90	BF5450GL
Lightweight Square Grid	Orange	4 ft. x 100 ft.	2.0 in. x 2.0 in.	55	24	8.0 lb.	72	BF54100GL
Ultimately Quality Square Grid	Orange	4 ft. x 50 ft.	1.4 in. x 1.4 in.	31	20	15.0 lb.	25	BF5450GR
Ultimately Quality Square Grid	Orange	4 ft. x 100 ft.	1.4 in. x 1.4 in.	31	20	30.0 lb.	16	BF54100GR
Lightweight Economy Warning	Orange	4 ft. x 50 ft.	4.0 in. x 1.0 in.	30	15	3.4 lb.	150	BFW450E
Lightweight Economy Warning	Orange	4 ft. x 100 ft.	4.0 in. x 1.0 in.	-	-	6.8 lb.	100	BFW4100E
Lightweight Oriented Warning Grid	Orange	4 ft. x 50 ft.	3.75 in. x 1.25 in.	37	19	4.0 lb.	90	BFW450GR
Lightweight Oriented Warning Grid	Orange	4 ft. x 100 ft.	3.75 in. x 1.25 in.	37	19	8.0 lb.	72	BFW4100GR
Flat Oriented Grid	Orange	4 ft. x 50 ft.	3.25 in. x 1.75 in.	55	24	5.0 lb.	80	BFO450GR
Flat Oriented Grid	Orange	4 ft. x 100 ft.	3.25 in. x 1.75 in.	55	24	10.0 lb.	64	BFO4100GR
Flat Oriented Grid	Green	4 ft. x 100 ft.	3.25 in. x 1.75 in.	55	24	10.0 lb.	64	BFOG4100GR



2X4 SCREED HOOK

Used with 3/4" Steel Stake, 3/4" Screed Post with Pad, 3/4" Screed Post with Nail Point to support 2X4 lumber.



HEADER FORM BRACKET

Used with 3/4" dia. screed post to support 2X lumber.



SCREED POST W/ NAIL POINT

Used to nail onto wood deck. Use of 2x4 Screed Hook or Header Form Bracket recommended for screed support. Available in 3/4 dia. 18", 24", 36" and 48"



SCREED POST – SCREED PAD

Post and Pad work to support screed method on subgrade, concrete or wood decks. Post Available in 3/4" dia. With 1/2" NC thread. 18", 24", 30", 36". Pads are Aluminum with 1/2" NC thread



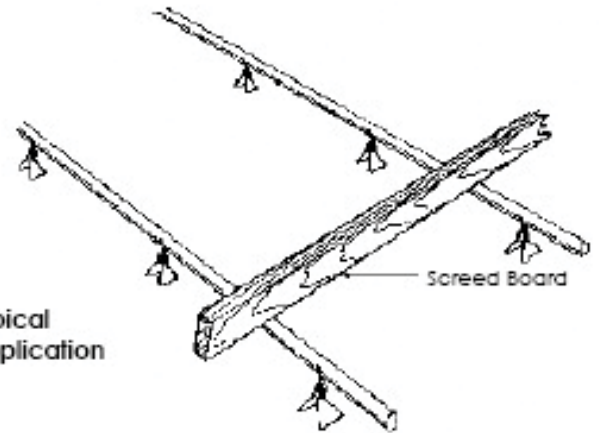
STAKE PULLER

Heavy Duty Stake Puller used to pull stakes up to 7/8" dia.



STEEL STAKES

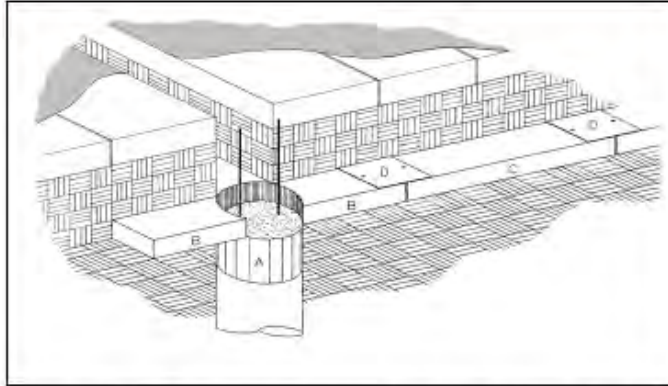
Round 3/4" with Chamfer Point and Nail Holes. Available in 12", 18", 24", 30", 36" and 48". Drawn point stakes are also available on request.



Typical Application



TrenchVoid™ Installation Instructions



- A. SureTop™
- B. ArcVoid®
- C. TrenchVoid™
- D. Seam Pads

These are general instructions for use with the TrenchVoid System. Always follow the structural drawings and details. Moisture destroys the strength of void forms to ensure the void space, and all forms must be kept dry until the concrete is placed. See the attachment "Selection and Care of SureVoid Products" for additional information and suggestions. Best results will be obtained by installing the products according to the following procedure:

1. Void forms have great strength to support vertically imposed loads but cannot bridge uneven areas. Grade the area where the void forms are to be used to an even plane. Remove rocks and other obstructions that may puncture the form or cause point loading. Working a 2x4 across the area will usually suffice.
2. As required, place SureRound PierVoid® at pier caps or pilasters and ArcVoid at the piers, butted tightly against each pier if it is poured above grade or at the pier perimeter if at grade. If ArcVoid is not being used, place the uncut end of a form with an End Cap installed at the pier per the structural drawings. Place ends barely on the pier so as not to severely reduce the contact surface between beam and pier or to allow an unintentional pier cap to be formed.
3. Tightly fit full modular forms between ArcVoid pieces, pier caps, or piers as space allows. Cover the seams between forms with Seam Pads, and attach them to the forms by taping in place or by pushing a small nail through the pad into the void form. (Taping the seams with a waterproof tape is an alternative to using Seam Pads.) Crosscut forms to fit into any area too small to place full-size pieces. Be sure to place an uncut end with an End Cap against any concrete exposure. Finish covering the seams.
4. Where bags or other methods of waterproofing are used, slice the bag or otherwise destroy the seal prior to placing concrete to assure the ability of moisture to penetrate the form and destroy the strength.
5. If steel is to be set on the void forms, a cover sheet should be placed at each contact point to prevent punctures from point loading.
6. Pour concrete along the top of the void forms to hold them in place before pouring at void form ends. This will prevent floating.
7. Take care not to puncture the form with the vibrator stinger when vibrating.
8. Protect the formed void space with a retainer prior to back-filling.

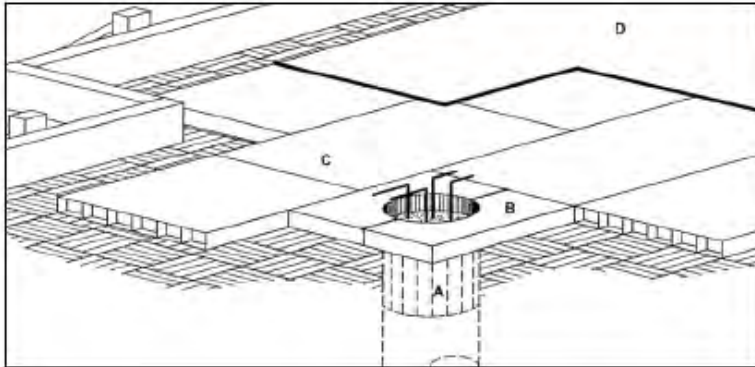


SureVoid
Products, Inc.

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TEXAS • (888) 803-VOID

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SlabVoid, Installation Instructions



- A. SureTop™
- B. SureRound PierVoid,
- C. SlabVoid,
- D. Cover Sheet

These are general instructions for use with the SlabVoid System. Always follow the structural drawings and details. Moisture destroys the strength of void forms to ensure the void space. Moisture must be allowed into the form after concrete placement, therefore bagging or wrapping should not be used. Where a moisture barrier is utilized on top of the forms, do not seal the vertical perimeter of the forms. All forms must be kept dry until the concrete is placed. See the attachment "Selection and Care of SureVoid Products" for additional information and suggestions. Best results will be obtained by installing the products according to the following procedure:

1. Void forms have great strength to support vertically imposed loads but cannot bridge uneven areas. Grade the area where the void forms are to be used to an even plane. Remove rocks and other obstructions that may puncture the form or cause point loading. Working a 2x4 across the area will usually suffice. A capillary break should not exist between the earth and the forms. If a poly moisture barrier is required this should be placed on top of the forms under the cover sheet. If a bedding layer is required to level the area, fine-grained material that will not create a capillary break should be utilized.
2. As required, place SureRound PierVoid, at piers, dropped panels, and pier caps. On dropped panels, it may be necessary to backfill the outside of the form. Place cover sheet over seams, and cut closely to match the pier cutout. Attach cover sheet to form with tape or staples as appropriate. On multi-piece SureRound PierVoid, tape the exposed seams in the pier cutout with waterproof tape.
3. Starting at the perimeter, place the SlabVoid forms so that the closed side of the box will be facing any liquid concrete around the edge. Place as many forms as possible this way to minimize the need for End Caps that cover the exposed interiors and prevent intrusion of liquid concrete into the form. Do not leave gaps between the forms. Continue to place the full forms wherever possible. Crosscut forms with a handsaw to fit into any area too small to place full-size pieces. Plan the cuts so that sealed edges face any exposure to liquid concrete. Do not use cut pieces that have inadequate interior supports.
4. Where bags or other methods of waterproofing are used, slice the bag or otherwise destroy the seal prior to placing concrete to assure the ability of moisture to penetrate the form and destroy the strength.
5. Cover sheet is used to cover the seams in the void forms, provide puncture protection, and to evenly distribute the working load. Cover sheet can be 1/8 – 1/4" hardboard, which is preferred, or in some instances, a fully waxed paper sheet. Please ask for our recommendations should you have questions. Begin cover sheet installation at a corner, positioning each sheet so that the seams do not match the seams between the void forms. You may have to cut one or both dimensions to accomplish this. Trim pieces may be utilized at the edge of the form as an End Cap or edge cover sheet. Tape or staple each piece into position as appropriate, then continue to place your sheets, cutting as required to gain full coverage. Tape all of the seams where desired or required. You should at least tape the corners together to prevent the pieces from sliding. If cover sheet is not required on the edge of the SlabVoid, tape all exposed seams and install End Caps to cover all cut and exposed interior sections. Although the steel that is normally supported by the void forms will prevent the forms from floating, it is better to cover some surface areas before pouring a thickened edge. Pour thick slabs, thickened edges and grade beams in lifts as necessary.



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SPEED DOWEL® FOR CONSTRUCTION JOINTS



SPEED DOWEL® provides a practical dowel alignment method for transferring loads across, and managing stresses within, concrete slab-on-ground joints, while facilitating the following recommendations of the American Concrete Institute:

"In areas subjected to wheeled traffic, heavy loads, or both, joints with load transfer devices are recommended. When positive load transfer is required, provisions should be made along the bulkhead to ensure proper alignment of the load-transfer device during construction and finishing operations." **ACI 360R-10 6.1.2**

"For dowels to be effective, they should be smooth, aligned, and supported so they will remain parallel in both the horizontal and the vertical planes during the placing and finishing operation. All dowels should be sawn and not sheared. Properly aligned, smooth dowels allow the joint to open as concrete shrinks." **ACI 302.1R-04 3.2.7**



American Concrete Institute®
Advancing concrete knowledge

"Dowels across pavement joints can provide load transfer while permitting the joints to move. When dowels are used, their correct alignment and lubrication is essential for proper joint function." **ACI 330R-08 3.8.2**

"The dowels should be centered on the joint. To permit horizontal movement, the dowels must not bond to the concrete on at least one side of the joint."

ACI 224.3R-95 (Reapproved 2008) 5.2.4.3

SIMPLE 3-STEP SPEED DOWEL® INSTALLATION METHOD

1. Attach base to edge form and tap on SPEED DOWEL® sleeve



2. Make first placement of concrete



3. Strip form and insert ungreased dowel into SPEED DOWEL® sleeve



TRUMPS CONVENTIONAL METHODS EVERY TIME!



- Drill dowel holes in lumber (edge form)
- Insert dowel into edge form
- Grease half of dowel
- Make first placement of concrete
- Hand align and position dowel
- Rotate dowel to loosen bond
- Remove dowel
- Strip edge form
- Reinsert dowel into oversized cavity
- Align and position dowel as needed

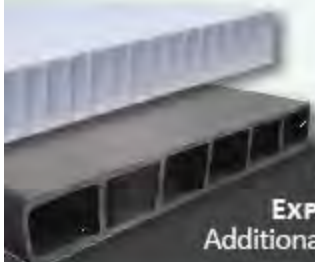
SPEED LOAD™ FOR EXPANSION JOINTS

SPEED LOAD™ is a single component dowel sleeve for use in expansion joints. **SPEED LOAD™** passes through pre-drilled expansion boards and has a self-locking design to securely position and align round dowels for positive load transfer. **SPEED LOAD™** is featured at left with our Polypropylene Expansion Board.



SPEED LOAD™
U.S. Patent D419,700

PRODUCT CODE	ROUND DOWEL SIZE	SLEEVE LENGTH
PSD1/2X5LT	1/2" X 10" Smooth Dowel	5"
PSD1/2X9LT	1/2" X 18" Smooth Dowel	9"
PSD3/4X5LT	3/4" X 10" Smooth Dowel	5"
PSD3/4X9LT	3/4" X 18" Smooth Dowel	9"
PSD3/4X12LT	3/4" X 24" Smooth Dowel	12"
PSD1X9LT	1" X 18" Smooth Dowel	9"
PSD125X9LT	1 1/4" X 18" Smooth Dowel	9"



SIKA GREENSTREAK POLYPROPYLENE AND HIGH DENSITY POLYETHYLENE EXPANSION BOARDS ARE IDEAL FOR SPEED LOAD™ APPLICATIONS.
Additional product data sheets available upon request.

SPEED PLATE®

Sika Greenstreak also offers **SPEED PLATE®**, a plate dowel system and economical method for achieving positive load transfer and dowel alignment in construction joints.



DOUBLE TAPERED Basket®

DOUBLE TAPERED BASKET® is the best choice for achieving positive load transfer in saw cut contraction joints.



Contact a Sika Greenstreak engineer for more information on all of our doweling systems.



STAKE WOOD

Wood stakes can be used for any number of jobs in construction, the home, and the garden. Whether used to define a piece of property or to stabilize plants in your garden, Universal Forest Products' wood stakes offer truly diverse uses. Universal Forest Products' wood stakes are made to be unassumingly useful, but amazingly adaptable.



Universal Forest Products manufactures an assortment of wood stakes that serve a multitude of uses. Available either chisel point or pencil-point varieties, we offer grade stakes, survey stakes, and tomato stakes in heights ranging from 12 inches to 6 feet. Put simply, they do whatever you need, for whatever you do.

Stake Wood

Universal offers wood grade stakes, survey stakes, and tomato stakes in heights ranging from 12 inches to 6 feet. Our grade stakes are available in all of the standard sizes, and in either chisel point or pencil-point varieties.

SKU	Description
29612	STAKE WOOD 12" (25/BDLE)
29618	STAKE WOOD 18" (25/BUNDLE)
29624	STAKE WOOD 24" (25/BUNDLE)
29630	STAKE WOOD 30" (25/BUNDLE)
29636	STAKE WOOD 36" (25/BUNDLE)
29642	STAKE WOOD 42" (25/BUNDLE)
29648	STAKE WOOD 48" (25/BUNDLE)
29650	STAKE WOOD 60" (25/BUNDLE)
29658	STAKE WOOD LATH 49" (50)



LUMBER

SKU	Description
45100	Wood 1' x 6' x 16'
45104	Wood 1' x 4' x 16'
45105	Wood 2' x 4' x 20'
45108	Wood 2' x 12' x 18'
45109	Wood 2' x 8' x 18'
45110	Wood 2' x 6' x 18'

If your project requires a nonstandard length, no problem. By precision end-trimming full units of lumber at a time, we can quickly fill an order for any length of lumber and eliminate the need for you to haul off waste. Less handling, more building. If you need a dimension other than the standard dimensions of 2 x 4 or 2 x 6, that's no problem either. Our facilities' re-manufacturing capabilities allow them to rip lumber to any width you need.



Plywood



SKU	Description
41542	Wood Plywood 1/2" CDX 4x8
41544	Wood Plywood 3/4" CDX 4 x 8

45145 Wood Plyform BBOES 3/4"



- 3/4" x4' x 8'
- 32 Sq Ft/sheet
- APA certified
- Oiled & edge sealed
- Will not absorb moisture from wet concrete
- Releases easier than standard forms
- Veneer grades B & B

45148 Wood Plywood MDO 3/4" 7PLY



With UFP Concrete Forming Systems, you have access to the nation's largest distribution network of concrete forming panels from the highest quality manufacturers in North America. You also have access to a team that knows more about the technology and evolution of concrete forming panels and overlays than any other in the industry. We'll ensure you pair the right panel and Nox-Crete Form™ Release Agent to achieve the desired finish and performance you expect.

Pine Plywood Options:
CDX, C+/C+, BCOES, BBOES & Shop Grades Panels

Doug Fir Plywood Options:
CDX, BBOES, MDO, HDO, HAO, PSF and BARRIER FILM

Multi-Ply Birch Options:
RIGA FORM, FINN FORM, CHUDO FORM, BETO FILM

Choose the correct concrete forming panel and form release for my project:

- [Olympic Panel – Concrete Forming Products](#)
- [Olympic Panel – How to Choose Concrete Form Matrix](#)
- [Nox-Crete™ Form Release Agents Guide \(Release Agent #10, Bio-Nox, Chembeton\)](#)



BB OES

Description: Raw B-grade face and back, oiled and edge-sealed
Available Species: Southern Yellow Pine, Douglas Fir, imported South American Pine
Thickness: 5/8" up to 3/4"
Concrete Finish: Prominent wood grain

Job Use: Economical, low re-use forming panel



MDO

Description: Medium Density Overlay
Available Species: Douglas Fir, Douglas Fir with dense hardwood face
Thicknesses: 3/8" up to 1-1/8"
2-Sided Availability: Yes
Concrete Finish: Matte finish, some wood grain transfer

Lay Up: 1-step or 2-step
Oversize Availability: Yes
Job Use: Higher re-usability and lower cost per pour compared to BB OES
Hardwood Face: Most consistent matte finish, pour range comparable to standard HDO 100/30
Made in USA



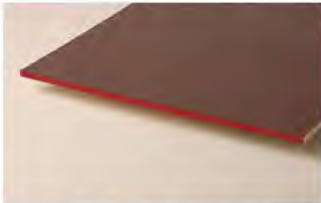
Plywood



HDO

Description: High Density Overlay
Available Species: Douglas Fir, Douglas Fir with dense hardwood face
Thicknesses: 3/8" up to 1-1/8"
2-Sided Availability: Yes
Concrete Finish: Gloss finish, minimal wood grain transfer

Lay Up: 1-step or 2-step
Upsize Availability: Yes
Job Use: Higher re-usability and lower cost per pour compared to MDO
Hardwood Face: Most consistent gloss finish, combine with 2-step 120/30 HDO for architectural concrete
Made in USA



HAO

Description: High Alkaline Overlay
Available Species: Douglas Fir, Douglas Fir with dense hardwood face
Thicknesses: 3/8" up to 1-1/8"
2-Sided Availability: Yes
Concrete Finish: Gloss finish, minimal wood grain transfer

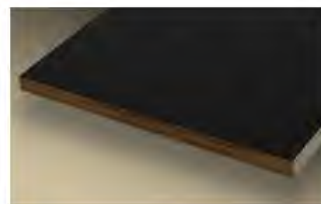
Lay Up: 1-step or 2-step
Upsize Availability: Yes
Job Use: Higher re-usability and improved concrete finish compared to HDO with aggressive concrete mixes.
Hardwood Face: Most consistent gloss finish, combine with 2-step lay up for architectural concrete with aggressive concrete mixes.
Made in USA



BARRIER FILM

Description: Phenolic and melamine overlay, impervious to alkalinity of concrete
Available Species: Douglas Fir with dense hardwood face
Thicknesses: 3/8" up to 1-1/8"
2-Sided Availability: Yes
Concrete Finish: Gloss finish, minimal wood grain transfer

Lay Up: 1-step or 2-step
Upsize Availability: Yes
Job Use: Highest re-usability of any concrete forming panel in production, 2-step lay up will produce smooth, consistent architectural concrete.
Made in USA



RIGA FORM

Description: 2-sided phenolic, multi-ply arctic birch
Thicknesses: 12mm, 15mm, 18mm, 19mm, 21mm
Overlay: 220/220
Lay Up: 2-step only
Upsize Availability: Yes
Concrete Finish: High gloss, architectural concrete

Wood Masonite



SKU	Description
45120	1/4" X 6" STRIPS
45122	1/4" X 12" STRIPS
45124	1/4" X 16" STRIPS
45135	1/8" X 4' X 8'
45140	1/4" X 4' X 8'

Wood Form Panel



SKU	Description
45170	12"X16'
45173	16"X16'
45177	24"X16'

Wood Bender Board

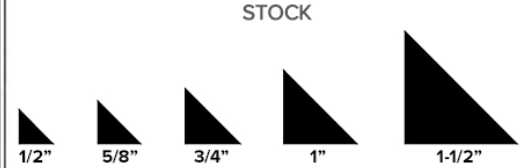


SKU	Description
45115	4"
45116	6"



Chamfer Concrete Formers

Product #	Code	Size (in.)	Coil Length (ft.)	Qty./Ctn.
Radius Former with nailing flange				
13225325	RF100	1"x7/8"	180	1
13225326	RF075	3/4"x5/8"	300	1
13225327	RF050	1/2"x1/2"	500	1
Chamfer with nailing flange				
13230328	CHN10	1"	150	1
13230329	CHN75	3/4"	250	1
13230330	CHN50	1/2"	250	1
Chamfer				
13235331	CH100	1"	170	1
13235332	CH075	3/4"	350	1
13235333	CH050	1/2"	100	5
13235334	CH200	2"	10	8
Drip Strip				
13240335	DO500	3/8"x1/2"	500	2
13240336	DO750	1/2"x3/4"	100	6
Double Chamfer 3/16" tapered middle slot				
13245337	VP663	1/2"x3/4"	100	4



CHAMFER AND REVEAL

Contact your closest UFP facility to see what species for chamfer and substrates for reveal are readily available in your region.

Chamfer: Available in Banak, Poplar or Pine and a variety of thicknesses and lengths. View our chamfer profiles below.

Reveal: We manufacture reveal in a various substrates such as MDF, MR (moisture-resistant) MDF, Hardwood Lumber or Plywood.

Flexible vinyl extrusions provide a smooth Chamfer or radius to the edges of concrete





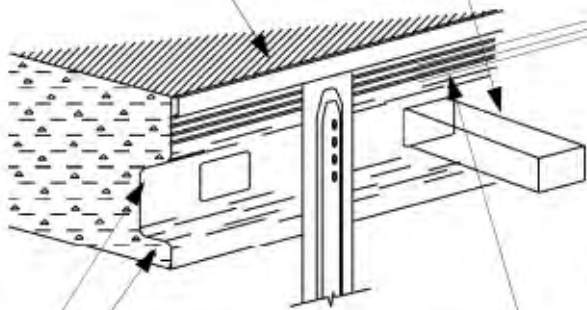
SPECIFICATION SHEET

07/2008

QuicKey™ (US Patent Number 6502359) Metal Keyed Control Joint System

Stake quickly interlocks at any point with key joint, reducing time to place stakes precisely.

Square dowel knockouts can be used for square or round dowel bars. Dowel knockouts are on 6" centers. Knockout sizes meet both ACI and PCA recommendations.



A 1:4 slope makes QuicKey™ the only metal key joint that meet both ACI and PCA recommendations.

Stiffening ribs are designed for increased strength and rigidity while installing.

The continuous edge on the key joint assures the positive interlock between the stake and key joint.



Inserting LOCKING TAB™ stakes produces an audible click which indicates the interlock between stake and key joint.



QuicKey™ removable cap yields straight void ready for sealing.



QuicKey™ non-removable cap seals the joint because it stays in place.

Advantages:

- QuicKey™ is the only galvanized joint system that features knockouts for square dowels, which provide better load transfer over round dowels and also reduce edge curl of the slab.
- Knockout sizes meet both ACI and PCA recommendations for the design of tongue and groove key joint.
- Tongue and groove design provides excellent load transfer characteristics for heavy, wheeled traffic and prevents uneven settling associated with aggregate interlock
- LOCKING-TAB™ stakes provide a positive interlock between stake and key joint that eliminates floating or rising from the stake, minimizing high spots. The stake profile features a non-twist design which allows the stake to be driven at a straight angle.
- Saves on installation time ... stake quickly interlocks at any point with key joint, reducing time to place stakes precisely.
- Eliminates costly form stripping and saw cutting. Replaces the slow and costly method of checker-board placement of concrete.

Installation:

- Space joints as indicated on drawings, as called for in specifications or as recommended by either ACI or PCA.
- With elevation checked by instrument, stretch a line the length of the joint and set the line at the finished elevation. If cap is used, drive stakes 3/16" deeper.
- Install intermediate stakes on 2' centers ... 5 stakes per 10' section. Drive stakes to bottom of the line. Additional stakes shall be used with the remaining slots for support if soil conditions require.
- Hang key joint on stakes and push downward. Locking tab stakes will produce an audible click indicating a positive interlock. Stake clips and splices are available if needed.
- With continuous placement, concrete shall be placed to full depth simultaneously on both sides of joint. When QuicKey™ is used as a bulkhead or in a construction joint, knockouts shall be bent at 45 degrees into the concrete.
- Finish the concrete flush to the top edge of the key joint. Be sure the concrete fills key without void or honeycomb.

Product Specifications:

General:

- Construction Joints
- Control Joints

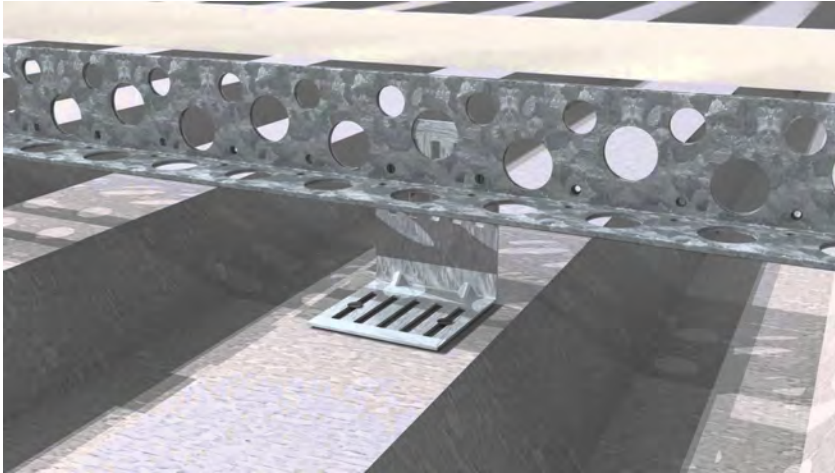
QuicKey™ is a stay in place metal keyed control joint former for use in concrete flatwork as a control or construction joint. When indicated on drawings or called for in specifications, the contractor shall furnish and install QuicKey™ joint system as manufactured by BoMetals, Inc., Carrollton, Georgia.

Material:

QuicKey™ is manufactured of 24 gauge, hot dipped, galvanized steel. It is furnished in 10' lengths for 4", 5", 6" and 8" and 10"-12" slabs. Each piece is punched on 6" centers with dowel rod knockouts and each piece has ribs formed into it for rigidity. Special manufacturing techniques produce a continuous edge that assures the key joint has a positive lock with the tab on the stake. LOCKING-TAB™ stakes are manufactured from 13 gauge HRPO steel and are available in 12", 15", 18", 24" and 30". The removable cap measures 13/32" x 1/2". The non-removable cap measures 5/8" x 5/8". Both are manufactured of PVC compounds.

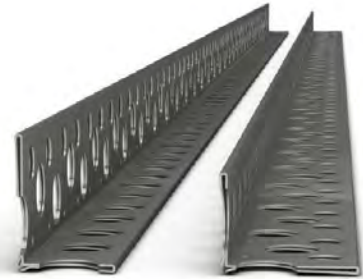
Dimensional Specifications:

Slab Thickness	A	B	C	Knockout Size
4"	3 1/8"	2"	3/4"	7/8" x 1 3/8"
5"	4 1/8"	2 1/2"	3/4"	7/8" x 1 3/8"
6"	5 1/8"	3"	3/4"	1 1/4" x 1 1/2"
8"	7 1/8"	4"	1"	1 1/4" x 1 1/2"
10" - 12"	9 1/8"	5"	1"	1 1/4" x 1 1/2"



UNIRAIL SCREED RAIL

A versatile, prefabricated leave-in-place screed rail system provides a guide for the mechanism being used to install the screed. The system ensures the straightness and flatness tolerances of screeds with depths from 40 mm to 120 mm and enables construction of superflat screeds. It is an easy to use, fast track installation system. With the addition of a plastic top extender, a stable base can be provided for running any type of screeding mechanism.



Materials:

Component	Material
Screed Rail	S250GD+Z275
Installation feet	S355MC
Top Extender	PVC DVE 252/007 Black

Dimensions:

Model	Height h1, h2 [mm]	Length L [mm]	Weight [kg]	Advisable slab depth [mm]
UNIRAIL 40-60	40, 60	2700, 3000	1.01	40 - 100

Model	Height h1, h2 [mm]	Length L [mm]	Weight [kg]	Advisable slab depth [mm]
UNIRAIL 70-120	70-90, 90-120	2700, 3000	1.13	70-120 (135 mm with 15 mm Top Extender)

UNIRAIL 40-60 and 70-120 are a cost-efficient screed rail system produced by precision forming from galvanized high-strength steel, providing excellent dimensional tolerances and stability during screeding operation. It is suitable for internal and external applications.

The system consists of the basic UNIRAIL 40-60 Screed Rail. The UNIRAIL model 70-120 can be created by adding installation feet to the UNIRAIL 40-60. The UNIRAIL 70-120 enables the depth of the screed to be continuously adjusted up to 120 mm.

UNIRAIL 40-60 and 70-120 provide a guide for the screeding mechanism, which can be a manually operated straight edge, vibrating screed machine with striker tubes. The UNIRAIL 40-60 and 70-120 permit the accurate passage of the screeding mechanism along their length, and the screed material placed between the rails is accurately leveled to the correct height and flatness.

A plastic top extender can be fitted to the top edge of the rail to provide a smooth, non-abrasive running face for any screeding mechanism and also to increase the overall height of the UNIRAIL 40-60 or 70-120.

Combiform

Combiform - The Contractors best friend who saves time and money.

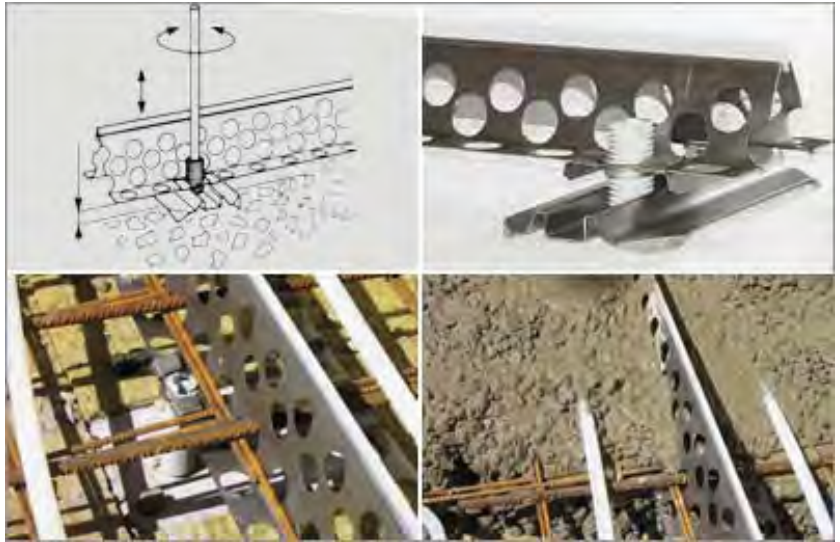
Combiform is used as a

- form system
- screed rail
- dowel bar holder
- construction joint

You save on setting up, you can pour concrete continuously, no breaking forms, no saw cutting needed and the floor is level.

The plastic strip and the Top Extender can be left in the joint which saves on caulking.

All in all a win - win product.

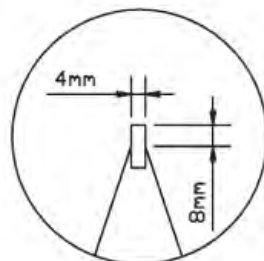
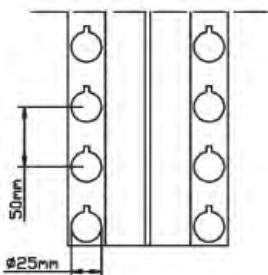
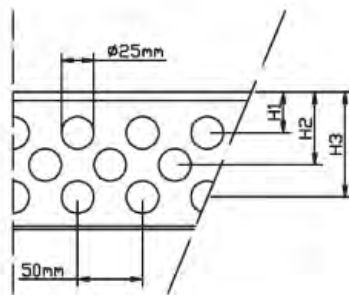
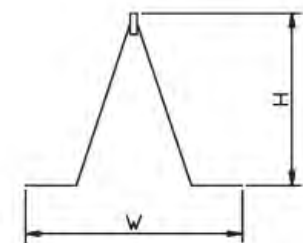


Product	Article nr	H (mm)	W (mm)	H1 (mm)	H2 (mm)	H3 (mm)	Weight (kg) / 2,2m Rail
C25	23C2522	25	80	---	---	---	1,8
C45	23C4522	45	90	30	---	---	2,0
C65	23C6522	65	105	28	47	---	2,3
C85	23C8522	85	115	31	49	67	2,8
C105	23C10522	105	130	32	53	88	3,5
C125	23C12522	125	135	32	64	109	4,2
C145	23C14522	145	160	32	75	127	5,0

Material: Rail - Coldrolled DC01, Top strip - Polyethylene

Important! Combiform have no load bearing function. Important to read manual before using Combiform. All Combiform products are patented.

**Solid Support
for Northern
California
Contractors
Working in
and Around
Concrete**



Bar size Imperial	Equivalent Soft Metric	Weight Lbs . Per LF	Weight per 20' length	Diameter in Inches
#3 (3/8")	#10	0.376	7.52	0.3759
#4 (1/2")	#13	0.668	13.36	0.5009
#5 (5/8")	#16	1.043	20.86	0.6259
#6 (3/4")	#19	1.502	30.04	0.7509
#7 (7/8")	#22	2.044	40.88	0.8759
#8 (1")	#25	2.670	53.40	1.0009
#9 (1-1/8")	#29	3.400	68.00	1.1289
#10 (1-1/4")	#32	4.303	86.06	1.2709
#11 (1-3/8")	#36	5.313	106.26	1.4109
#14 (1-3/4")	#43	7.650	153.00	1.6939
#18 (2-1/4")	#57	13.600	272.00	2.2579

Muller Construction Supply is often asked about rebar markings and how to identify and distinguish between grades.

On this 1 page file, we hope to provide you a "quick" reference sheet for some of the most commonly asked items in the reinforcing bar industry.

If you have any questions or need further information on these items, please feel to call us toll-free.

inch-pound grade	metric grade	Minimum Yield Strength	
		in pounds per square inch	in megapascals
Grade 40	Grade 280	40,000	280
Grade 60	Grade 420	60,000	420
Grade 75	Grade 520	75,000	520



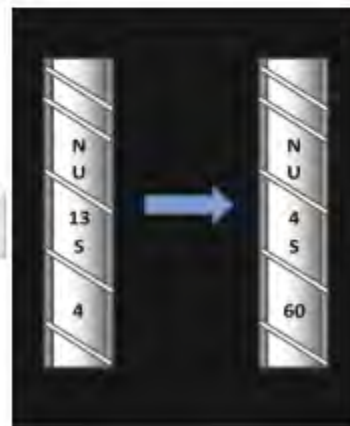
HARRIS
SUPPLY SOLUTIONS INC



HARRIS
SUPPLY SOLUTIONS INC



Old Markings →



← New Markings

"S" for Carbon Steel (A615)
 "W" for Low Alloy Steel (A706)

Rebar - Wire Mesh

STEEL REBAR

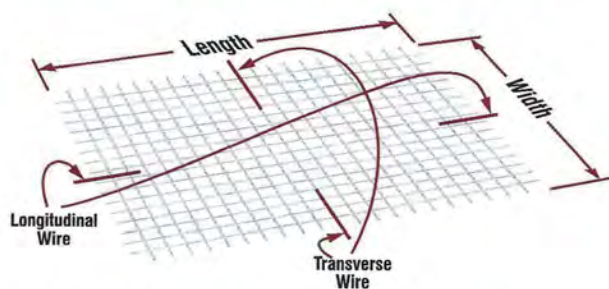
Reinforcing bar, or rebar, is a common steel bar that is hot rolled and is used widely in the construction industry, especially for concrete reinforcement. Steel rebar is most commonly used as a tensioning device to reinforce concrete and other masonry structures to help hold the concrete in a compressed state. Concrete is a material that is very strong in compression, but virtually without strength in tension. To compensate for this imbalance in a concrete slabs behavior, reinforcement bar is cast into it to carry the tensile loads.

Common steel or concrete reinforcement bar is supplied with heavy ridges to assist in binding the reinforcement to the concrete mechanically - this is commonly referred to as deformed bar.

Muller Construction Supply stocks a wide variety of rebar sizes, grades, and finishes including black rebar, epoxy coated rebar and fabricated rebar. We are committed to have what our customers need, when they need it. As a subsidiary of Nucor we have access to rebar across the US, and internationally if necessary, through Nucor Trading. We can find what you're looking for, whatever it is.

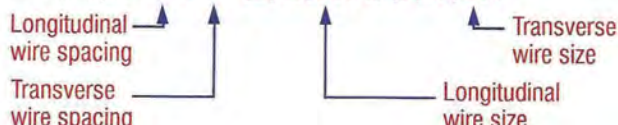


Welded Wire Reinforcement (WWR)



Industry Method for Designating Style:

Example: **6 x 6 - (D/W)2.1 x (D/W)2.1**



BLACK STEEL REMESH

Black steel remesh though commonly referred to as a fabric or mesh, welded wire reinforcement is actually considered structural reinforcement and, as such, is known by ASTM standards as Steel Reinforcement. WWR, conforms to the requirements of ASTM A185 or A497, and any further requirements of local building codes.

Nomenclature for black remesh has two sets of numbers, and letter prefixes describe the wires as plain or smooth. (For example: 4 x 12- D10 x D4). The first number (4) is the longitudinal spacing given in inches, while the second number (12) is the transverse spacing of the wires. The first letter/number combination is the type (D for deformed) and size (10 = 0.10 sq. in.) of the longitudinal wire. The second letter/number is the type (D for deformed) and size (4 = 0.04 sq. in.) of the transverse wire.

Common Styles of Welded Wire Reinforcement

Style Designation

	New Designation	Old Designation (By Steel Wire Gauge)	Approx. Weight/ 100 ft. ²
Sheets	6 x 6 - (D/W) 1.4x (D/W) 1.4	6 x 6 - 10 x 10	21 lb.
	6 x 6 - (D/W) 2.1x (D/W) 2.1	6 x 6 - 8 x 8	30 lb.
	6 x 6 - (D/W) 2.9x (D/W) 2.9	6 x 6 - 6 x 6	42 lb.
	6 x 6 - (D/W) 4 x (D/W) 4	6 x 6 - 4 x 4	58 lb.
	4 x 4 - (D/W) 2.9x (D/W) 2.9	4 x 4 - 6 x 6	62 lb.
	4 x 4 - (D/W) 4 x (D/W) 4	4 x 4 - 4 x 4	85 lb.
Rolls	6 x 6 - (D/W) 1.4x (D/W) 1.4	6 x 6 - 10 x 10	21 lb.
	6 x 6 - (D/W) 2.9x (D/W) 2.9	6 x 6 - 6 x 6	42 lb.

"D" - denotes deformed wire; conforms to ASTM A497

"W" - denotes smooth wire; conforms to ASTM A185

Wire for concrete reinforcement conforms to ASTM A1064



Wire - Ties - Twister / Bar - Mesh Supports



Bar Ties

SKU	Finish	Gauge	Length	Ties/ Roll	Rolls/ Bag
BT1765x1	Black Annealed	17	6 in.	1000	5
BT1785x1	Black Annealed	17	8 in.	1000	5

Tie Wire

SKU	Finish	Gauge	Weight/ Roll	Rolls/ Box
TW1612312	Black Annealed	16-1/23	.50 lbs	20
TWG1612312	Galvanized	16	3.50 lbs	20
TWH-DG16121	Hot Dipped Galvanized	16-1/23	.50 lbs	20
TWPV16312	PVC Coated	16-1/23	.50 lbs	20



Tie Wire Reel

SKU	Material	Pcs./Master Carton
TWRP	Plastic	5
TWREAR	Cast Aluminum	5

Wire

SKU	Finish	Gauge	Weight/ Roll
AWB910	Black Annealed	9	10 lbs
AWB9100	Black Annealed	9	100 lbs
AWG9100	Galvanized	9	100 lbs

Tie Twister Tool

SKU	Units/Master Carton
BTTWEAR	25 Tools



Automatic Twister

SKU	Units/Master Carton
BTTAER	10 Tools



- No tie or bar ties needed
- Strong, durable & lightweight
- I-beam design
- Fits #3 - #6 rebar
- Fits all mesh sizes

- Available in 1-4 in. heights
- 1-3 in. compatible with PROLOK Sandplate base
- Contributes to LEED® points

High Chair

SKU	Description	Size	Pcs/ Bag	Bag/ Pallet
GRPROLK41	PROLOK High Chair	Bar & Mesh #4-1 in.	500	26
GRPROLK415	PROLOK High Chair	Bar & Mesh #4-1.5 in.	500	26
GRPROLK42	PROLOK High Chair	Bar & Mesh #4-2 in.	500	26
GRPROLK425	PROLOK High Chair	Bar & Mesh #4-2.5 in.	500	21
GRPROLK43	PROLOK High Chair	Bar & Mesh #4-3 in.	500	21
GRPROLK44	PROLOK High Chair	Bar & Mesh #4-4 in.	300	12
GRPROLK515	PROLOK High Chair	Bar & Mesh #5-1.5 in.	500	21
GRPROLK52	PROLOK High Chair	Bar & Mesh #5-2 in.	500	21
GRPROLK525	PROLOK High Chair	Bar & Mesh #5-2.5 in.	500	16
GRPROLK53	PROLOK High Chair	Bar & Mesh #5-3 in.	500	16
GRPROLK54	PROLOK High Chair	Bar & Mesh #5-4 in.	300	12
GRPROLK615	PROLOK High Chair	Bar & Mesh #6-1.5 in.	400	21
GRPROLK625	PROLOK High Chair	Bar & Mesh #6-2.5 in.	400	16
GRPROLK63	PROLOK High Chair	Bar & Mesh #6-3 in.	400	16
GRPROLK64	PROLOK High Chair	Bar & Mesh #6-4 in.	300	12



- No tie wire or bar ties needed
- Strong, durable & lightweight
- I-beam design
- Fits #3 - #6 rebar
- Fits all mesh sizes

- Available in 1-4 in. heights
- Reflective for low light projects
- Contributes to LEED® point

Tilt-Up Chair

SKU	Description	Size	Pcs/Bag	Bag/ Pallet
GRPROTU41	PROLOK Tilt-up Chair	Bar & Mesh #4-1 in.	500	26
GRPROTU415	PROLOK Tilt-up Chair	Bar & Mesh #4-1.5 in.	500	26
GRPROTU42	PROLOK Tilt-up Chair	Bar & Mesh #4-2 in.	500	26
GRPROTU425	PROLOK Tilt-up Chair	Bar & Mesh #4-2.5 in.	500	21
GRPROTU43	PROLOK Tilt-up Chair	Bar & Mesh #4-3 in.	500	21
GRPROTU44	PROLOK Tilt-up Chair	Bar & Mesh #4-4 in.	500	12
GRPROTU515	PROLOK Tilt-up Chair	Bar & Mesh #5-1.5 in.	500	21
GRPROTU52	PROLOK Tilt-up Chair	Bar & Mesh #5-2 in.	500	21
GRPROTU525	PROLOK Tilt-up Chair	Bar & Mesh #5-2.5 in.	500	16
GRPROTU53	PROLOK Tilt-up Chair	Bar & Mesh #5-3 in.	500	16
GRPROTU54	PROLOK Tilt-up Chair	Bar & Mesh #5-4 in.	300	12
GRPROTU615	PROLOK Tilt-up Chair	Bar & Mesh #6-1.5 in.	400	21
GRPROTU625	PROLOK Tilt-up Chair	Bar & Mesh #6-2.5 in.	400	16
GRPROTU63	PROLOK Tilt-up Chair	Bar & Mesh #6-3 in.	400	16
GRPROTU64	PROLOK Tilt-up Chair	Bar & Mesh #6-4 in.	300	16

Threaded Rod



Threaded Rod

Size	Threads/ Inch	Weight/ piece	SKU
Zinc Plated ASTM F1941 FeZn3A			
1/4 in. x 6 ft.	20	0.71 lb.	ATZ14072
1/4 in. x 10 ft.	20	1.18 lb.	ATZ14120
1/4 in. x 12 ft.	20	1.41 lb.	ATZ14144
5/16 in. x 6 ft.	18	1.21 lb.	ATZ516072
5/16 in. x 10 ft.	18	2.02 lb.	ATZ516120
5/16 in. x 12 ft.	18	2.43 lb.	ATZ516144
3/8 in. x 6 ft.	16	1.69 lb.	ATZ38072
3/8 in. x 10 ft.	16	2.82 lb.	ATZ38120
3/8 in. x 12 ft.	16	3.39 lb.	ATZ38144
1/2 in. x 6 ft.	13	3.03 lb.	ATZ12072
1/2 in. x 10 ft.	13	5.06 lb.	ATZ12120
1/2 in. x 12 ft.	13	6.07 lb.	ATZ12144
5/8 in. x 6 ft.	11	5.06 lb.	ATZ58072
5/8 in. x 10 ft.	11	8.44 lb.	ATZ58120
5/8 in. x 12 ft.	11	10.13 lb.	ATZ58144
3/4 in. x 6 ft.	10	7.30 lb.	ATZ34072
3/4 in. x 10 ft.	10	12.17 lb.	ATZ34120
3/4 in. x 12 ft.	10	14.61 lb.	ATZ34144
7/8 in. x 6 ft.	9	10.00 lb.	ATZ78072
7/8 in. x 10 ft.	9	16.68 lb.	ATZ78120
7/8 in. x 12 ft.	9	20.01 lb.	ATZ78144
1 in. x 6 ft.	8	13.13 lb.	ATZ1072
1 in. x 10 ft.	8	21.89 lb.	ATZ1120
1 in. x 12 ft.	8	26.26 lb.	ATZ1144
1-1/8 in. x 6 ft.	7	20.84 lb.	ATZ118072
1-1/8 in. x 10 ft.	7	34.73 lb.	ATZ118120
1-1/8 in. x 12 ft.	7	41.70 lb.	ATZ118144
1-1/4 in. x 6 ft.	7	21.39 lb.	ATZ114072
1-1/4 in. x 10 ft.	7	35.64 lb.	ATZ114120
1-1/4 in. x 12 ft.	7	42.77 lb.	ATZ114144
1-1/2 in. x 6 ft.	6	30.31 lb.	ATZ112072
1-1/2 in. x 10 ft.	6	51.52 lb.	ATZ112120
1-1/2 in. x 12 ft.	6	60.62 lb.	ATZ112144
Bent Threaded Rod - Zinc Plated ASTM F1941 FeZn3A			
1/2 in. x 52 in.	8	2.74 lb.	BRTZ12528

Size	Threads/ Inch	Weight/ piece	SKU
Bright Unplated			
3/8 in. x 6 ft.	16	1.69 lb.	AT38072
3/8 in. x 10 ft.	16	2.82 lb.	AT38120
3/8 in. x 12 ft.	16	3.39 lb.	AT38144
1/2 in. x 6 ft.	13	3.03 lb.	AT12072
1/2 in. x 10 ft.	13	5.06 lb.	AT12120
1/2 in. x 12 ft.	13	6.07 lb.	AT12144
5/8 in. x 6 ft.	11	5.06 lb.	AT58072
5/8 in. x 10 ft.	11	8.44 lb.	AT58120
5/8 in. x 12 ft.	11	10.13 lb.	AT58144
3/4 in. x 6 ft.	10	7.30 lb.	AT34072
3/4 in. x 10 ft.	10	12.17 lb.	AT34120
3/4 in. x 12 ft.	10	14.61 lb.	AT34144
7/8 in. x 6 ft.	9	10.00 lb.	AT78072
7/8 in. x 10 ft.	9	16.68 lb.	AT78120
7/8 in. x 12 ft.	9	20.01 lb.	AT78144
1 in. x 6 ft.	8	13.13 lb.	AT1072
1 in. x 10 ft.	8	21.89 lb.	AT1120
1 in. x 12 ft.	8	26.26 lb.	AT1144
1-1/8 in. x 6 ft.	7	20.84 lb.	AT118072
1-1/8 in. x 10 ft.	7	34.73 lb.	AT118120
1-1/8 in. x 12 ft.	7	41.70 lb.	AT118144
1-1/4 in. x 6 ft.	7	21.39 lb.	AT114072
1-1/4 in. x 10 ft.	7	35.64 lb.	AT114120
1-1/4 in. x 12 ft.	7	42.77 lb.	AT114144
1-1/2 in. x 6 ft.	6	30.31 lb.	AT112072
1-1/2 in. x 10 ft.	6	50.52 lb.	AT112120
1-1/2 in. x 12 ft.	6	60.62 lb.	AT112144

Size	Threads/ Inch	Weight/ piece	SKU
Hot Dipped Galvanized ASTM A153 or F2329			
3/8 in. x 6 ft.	16	1.69 lb.	ATHG38072
3/8 in. x 10 ft.	16	2.82 lb.	ATHG38120
3/8 in. x 12 ft.	16	3.39 lb.	ATHG38144
1/2 in. x 6 ft.	13	3.03 lb.	ATHG12072
1/2 in. x 10 ft.	13	5.06 lb.	ATHG12120
1/2 in. x 12 ft.	13	6.07 lb.	ATHG12144
5/8 in. x 6 ft.	11	5.06 lb.	ATHG58072
5/8 in. x 10 ft.	11	8.44 lb.	ATHG58120

Size	Threads/ Inch	Weight/ piece	SKU
5/8 in. x 12 ft.	11	10.13 lb.	ATHG58144
3/4 in. x 6 ft.	10	7.30 lb.	ATHG34072
3/4 in. x 10 ft.	10	12.17 lb.	ATHG34120
3/4 in. x 12 ft.	10	14.61 lb.	ATHG34144
7/8 in. x 6 ft.	9	10.00 lb.	ATHG78072
7/8 in. x 10 ft.	9	16.68 lb.	ATHG78120
7/8 in. x 12 ft.	9	20.01 lb.	ATHG78144
1 in. x 6 ft.	8	13.13 lb.	ATHG1072
1 in. x 10 ft.	8	21.89 lb.	ATHG1120
1 in. x 12 ft.	8	26.26 lb.	ATHG1144
1-1/8 in. x 6 ft.	7	20.84 lb.	ATHG118072
1-1/8 in. x 10 ft.	7	34.73 lb.	ATHG118120
1-1/8 in. x 12 ft.	7	41.70 lb.	ATHG118144
1-1/4 in. x 6 ft.	7	21.39 lb.	ATHG114072
1-1/4 in. x 10 ft.	7	35.64 lb.	ATHG114120
1-1/4 in. x 12 ft.	7	42.77 lb.	ATHG114144
1-1/2 in. x 6 ft.	6	30.31 lb.	ATHG112072
1-1/2 in. x 10 ft.	6	50.52 lb.	ATHG112120
1-1/2 in. x 12 ft.	6	60.62 lb.	ATHG112144

Size	Threads/ Inch	Weight/ piece	SKU
Stainless Steel			
1/4 in. x 6 in.	20	0.78 lb.	ATSS14072
1/4 in. x 10 ft.	20	1.30 lb.	ATSS14120
1/4 in. x 12 ft.	20	1.56 lb.	ATSS14144
5/16 in. x 6 ft.	18	1.28 lb.	ATSS516072
5/16 in. x 10 ft.	18	2.13 lb.	ATSS516120
5/16 in. x 12 ft.	18	2.56 lb.	ATSS516144
3/8 in. x 6 ft.	16	1.86 lb.	ATSS38072
3/8 in. x 10 ft.	16	3.10 lb.	ATSS38120
3/8 in. x 12 ft.	16	3.73 lb.	ATSS38144
1/2 in. x 6 ft.	13	3.34 lb.	ATSS12072
1/2 in. x 10 ft.	13	5.56 lb.	ATSS12120
1/2 in. x 12 ft.	13	6.67 lb.	ATSS12144
5/8 in. x 6 ft.	11	5.57 lb.	ATSS58072
5/8 in. x 10 ft.	11	9.28 lb.	ATSS58120
5/8 in. x 12 ft.	11	11.14 lb.	ATSS58144
3/4 in. x 6 ft.	10	8.04 lb.	ATSS34072
3/4 in. x 10 ft.	10	13.39 lb.	ATSS34120
3/4 in. x 12 ft.	10	16.07 lb.	ATSS34144



Hex Nuts

Hex Nuts

SKU	Size	Width Across Flats Basic (F)	Width Across Flats Max (F)	Width Across Corners Max (G)	Width Across Corners Min (G)	Thickness of Hex Nuts Max (H)	Thickness of Hex Nuts Min (H)	Pcs/ Box
Bright Unplated								
HXNUTPL14	1/4 in.	7/16 in.	0.438 in.	0.505 in.	0.488 in.	0.226 in.	0.212 in.	9,000
HXNUTPL38	3/8 in.	9/16 in.	0.562 in.	0.650 in.	0.628 in.	0.337 in.	0.320 in.	4,000
HXNUTPL12	1/2 in.	3/4 in.	0.750 in.	0.866 in.	0.840 in.	0.448 in.	0.427 in.	1,800
HXNUTPL58	5/8 in.	15/16 in.	0.938 in.	1.083 in.	1.051 in.	0.559 in.	0.535 in.	800
HXNUTPL34	3/4 in.	1-1/8 in.	1.125 in.	1.299 in.	1.240 in.	0.665 in.	0.617 in.	500
HXNUTPL78	7/8 in.	1-5/16 in.	1.312 in.	1.516 in.	1.447 in.	0.776 in.	0.724 in.	300
HXNUTPL1	1 in.	1-1/2 in.	1.500 in.	1.732 in.	1.653 in.	0.887 in.	0.831 in.	190
HXNUTPL118	1-1/8 in.	1-11/16 in.	1.688 in.	1.949 in.	1.859 in.	0.999 in.	0.939 in.	140
HXNUTPL114	1-1/4 in.	1-7/8 in.	1.875 in.	2.165 in.	2.066 in.	1.094 in.	1.030 in.	100
Hot Dipped Galvanized ASTM 153								
HXNUTHG58	5/8 in.	15/16 in.	0.938 in.	1.083 in.	1.051 in.	0.559 in.	0.535 in.	800
HXNUTHG34	3/4 in.	1-1/8 in.	1.125 in.	1.299 in.	1.240 in.	0.665 in.	0.617 in.	500
HXNUTHG78	7/8 in.	1-5/16 in.	1.312 in.	1.516 in.	1.447 in.	0.776 in.	0.724 in.	300
HXNUTHG1	1 in.	1-1/2 in.	1.500 in.	1.732 in.	1.653 in.	0.887 in.	0.831 in.	190
HXNUTHG118	1-1/8 in.	1-11/16 in.	1.688 in.	1.949 in.	1.859 in.	0.999 in.	0.939 in.	140
Zinc Plated ASTM F1941 FeZn3A								
HXNUTZB14	1/4 in.	7/16 in.	0.438 in.	0.505 in.	0.488 in.	0.226 in.	0.212 in.	9,000
HXNUTZB38	3/8 in.	9/16 in.	0.562 in.	0.650 in.	0.628 in.	0.337 in.	0.320 in.	4,000
HXNUTZB12	1/2 in.	3/4 in.	0.750 in.	0.866 in.	0.840 in.	0.448 in.	0.427 in.	1,800
HXNUTZB58	5/8 in.	15/16 in.	0.938 in.	1.083 in.	1.051 in.	0.559 in.	0.535 in.	800
HXNUTZB34	3/4 in.	1-1/8 in.	1.125 in.	1.299 in.	1.240 in.	0.665 in.	0.617 in.	500
HXNUTZB78	7/8 in.	1-5/16 in.	1.312 in.	1.516 in.	1.447 in.	0.776 in.	0.724 in.	300
HXNUTZB1	1 in.	1-1/2 in.	1.500 in.	1.732 in.	1.653 in.	0.887 in.	0.831 in.	190
HXNUTZB118	1-1/8 in.	1-11/16 in.	1.688 in.	1.949 in.	1.859 in.	0.999 in.	0.939 in.	140
HXNUTZB114	1-1/4 in.	1-7/8 in.	1.875 in.	2.165 in.	2.066 in.	1.094 in.	1.030 in.	100

Hex Coupling Nuts

SKU	Size	Width Across Flats Basic (A)	Width Across Flats Min (A)	Width Across Flats Max (A)	Width Across Corners Min (B)	Width Across Corners Max (B)	Length Basic (L)	Length Min (L)	Length Max (L)	Pcs / Box
Regular Zinc Plated ASTM F1941 FeZn3A										
RCOUPZ14	1/4 in. -20	7/16 in.	0.428 in.	0.438 in.	0.488 in.	0.505 in.	7/8 in.	0.843 in.	0.906 in.	1,000
RCOUPZ38	3/8 in. -16	9/16 in.	0.551 in.	0.562 in.	0.628 in.	0.650 in.	1-3/4 in.	1.718 in.	1.781 in.	500
RCOUPZ12	1/2 in. -13	11/16 in.	0.675 in.	0.688 in.	0.769 in.	0.794 in.	1-3/4 in.	1.718 in.	1.781 in.	400
RCOUPZ58	5/8 in. -11	13/16 in.	0.798 in.	0.812 in.	0.910 in.	0.938 in.	2-1/8 in.	2.093 in.	2.156 in.	250
RCOUPZ34	3/4 in. -10	1 in.	0.982 in.	1.018 in.	1.119 in.	1.175 in.	2-1/4 in.	2.218 in.	2.281 in.	150
RCOUPZ78	7/8 in. -9	1-1/4 in.	1.206 in.	1.250 in.	1.375 in.	1.443 in.	2-1/4 in.	2.468 in.	2.531 in.	75
RCOUPZ1	1 in. -8	1-1/4 in.	1.206 in.	1.250 in.	1.375 in.	1.443 in.	2-1/2 in.	2.468 in.	2.531 in.	75
RCOUPZ118	1-1/8 in. -7	1-1/2 in.	1.450 in.	1.500 in.	1.653 in.	1.732 in.	3 in.	2.968 in.	3.031 in.	50
Economy Zinc Plated ASTM F1941 FeZn3A										
ECOUPZ14	1/4 in. -20	3/8 in.	0.365 in.	0.375 in.	0.416 in.	0.433 in.	7/8 in.	0.843 in.	0.906 in.	2,500
ECOUPZ38	3/8 in. -16	5/8 in.	0.614 in.	0.625 in.	0.700 in.	0.725 in.	1-1/8 in.	1.093 in.	1.156 in.	1,250
ECOUPZ12	1/2 in. -13	5/8 in.	0.614 in.	0.625 in.	0.700 in.	0.725 in.	1-1/4 in.	1.718 in.	1.781 in.	625



Flat Washers

SKU	Size	Nominal O.D.	Max O.D.	Min O.D.	Nominal I.D.	Max I.D.	Min I.D.	Thickness (TH) (Gauge)	Thickness Max (TH)	Thickness Min (TH)
USS Flat Washers Bright Unplated										
FWUSSPL58	5/8 in.	1-3/4 in.	1.780 in.	1.743 in.	11/16 in.	0.718 in.	0.681 in.	0.134 in.	0.160 in.	0.108 in.
FWUSSPL34	3/4 in.	2 in.	2.030 in.	1.993 in.	13/16 in.	0.842 in.	0.805 in.	0.148 in.	0.177 in.	0.122 in.
FWUSSPL78	7/8 in.	2-1/4 in.	2.280 in.	2.243 in.	15/16 in.	0.968 in.	0.931 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSPL1	1 in.	2-1/2 in.	2.530 in.	2.493 in.	1/16 in.	1.092 in.	1.055 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSPL118	1-1/8 in.	2-3/4 in.	2.780 in.	2.743 in.	1-1/4 in.	1.280 in.	1.243 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSPL114	1-1/4 in.	3 in.	3.042 in.	3.005 in.	1-3/8 in.	1.405 in.	1.368 in.	0.165 in.	0.192 in.	0.136 in.
USS Flat Washers Hot Dipped Galvanized ASTM A153										
FWUSSGB14	1/4 in.	3/4 in.	0.749 in.	0.727 in.	5/16 in.	0.327 in.	0.307 in.	0.065 in.	0.080 in.	0.051 in.
FWUSSGB38	3/8 in.	1 in.	1.030 in.	0.993 in.	7/16 in.	0.453 in.	0.433 in.	0.083 in.	0.104 in.	0.064 in.
FWUSSGB12	1/2 in.	1-3/8 in.	1.405 in.	1.368 in.	9/16 in.	0.577 in.	0.557 in.	0.109 in.	0.132 in.	0.086 in.
FWUSSGB58	5/8 in.	1-3/4 in.	1.780 in.	1.743 in.	11/16 in.	0.718 in.	0.681 in.	0.134 in.	0.160 in.	0.108 in.
FWUSSGB34	3/4 in.	2 in.	2.030 in.	1.993 in.	13/16 in.	0.842 in.	0.805 in.	0.148 in.	0.177 in.	0.122 in.
FWUSSGB78	7/8 in.	2-1/4 in.	2.280 in.	2.243 in.	15/16 in.	0.968 in.	0.931 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSGB1	1 in.	2-1/2 in.	2.530 in.	2.493 in.	1/16 in.	1.092 in.	1.055 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSHG118	1-1/8 in.	2-3/4 in.	2.780 in.	2.743 in.	1-1/4 in.	1.280 in.	1.243 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSHG114	1-1/4 in.	3 in.	3.042 in.	3.005 in.	1-3/8 in.	1.405 in.	1.368 in.	0.165 in.	0.192 in.	0.136 in.
USS Flat Washers Zinc Plated ASTM F1941 FeZn3A										
FWUSSZB14	1/4 in.	3/4 in.	0.749 in.	0.727 in.	5/16 in.	0.327 in.	0.307 in.	0.065 in.	0.080 in.	0.051 in.
FWUSSZB38	3/8 in.	1 in.	1.030 in.	0.993 in.	7/16 in.	0.453 in.	0.433 in.	0.083 in.	0.104 in.	0.064 in.
FWUSSZB12	1/2 in.	1-3/8 in.	1.405 in.	1.368 in.	9/16 in.	0.577 in.	0.557 in.	0.109 in.	0.132 in.	0.086 in.
FWUSSZB58	5/8 in.	1-3/4 in.	1.780 in.	1.743 in.	11/16 in.	0.718 in.	0.681 in.	0.134 in.	0.160 in.	0.108 in.
FWUSSZB34	3/4 in.	2 in.	2.030 in.	1.993 in.	13/16 in.	0.842 in.	0.805 in.	0.148 in.	0.177 in.	0.122 in.
FWUSSZB78	7/8 in.	2-1/4 in.	2.280 in.	2.243 in.	15/16 in.	0.968 in.	0.931 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSZB1	1 in.	2-1/2 in.	2.530 in.	2.493 in.	1/16 in.	1.092 in.	1.055 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSZB118	1-1/8 in.	2-3/4 in.	2.780 in.	2.743 in.	1-1/4 in.	1.280 in.	1.243 in.	0.165 in.	0.192 in.	0.136 in.
FWUSSZB114	1-1/4 in.	3 in.	3.042 in.	3.005 in.	1-3/8 in.	1.405 in.	1.368 in.	0.165 in.	0.192 in.	0.136 in.

Fender Washers

SKU	Size	Basic I.D.	Min I.D.	Max I.D.	Basic O.D.	Min O.D.	Max O.D.	Max (TH)	Min (TH)
Fender Washers Zinc Plated ASTM F1941 FeZn3A									
FWFEN14114	1/4 in.	9/32 in.	0.276 in.	0.294 in.	1-1/4 in.	1.243 in.	1.269 in.	0.067 in.	0.051 in.
FWFEN14112	1/4 in.	9/32 in.	0.276 in.	0.294 in.	1-1/2 in.	1.493 in.	1.520 in.	0.067 in.	0.051 in.
FWFEN38114	3/8 in.	13/32 in.	0.401 in.	0.417 in.	1-1/4 in.	1.243 in.	1.269 in.	0.067 in.	0.051 in.
FWFEN38112	3/8 in.	13/32 in.	0.401 in.	0.417 in.	1-1/2 in.	1.493 in.	1.520 in.	0.067 in.	0.051 in.
FWFEN382	3/8 in.	13/32 in.	0.401 in.	0.417 in.	2 in.	1.993 in.	2.018 in.	0.067 in.	0.051 in.
FWFEN12200	1/2 in.	17/32 in.	0.526 in.	0.542 in.	2 in.	1.993 in.	2.018 in.	0.067 in.	0.051 in.



Anchor Bolt with Nut & Round SAE Washer

Size	SKU
Nut & Round SAE Washer: Bright ASTM A153 Class C	
3/8 in. x 6 in.	386AB50
3/8 in. x 8 in.	388AB50
1/2 in. x 6 in.	126AB50
1/2 in. x 8 in.	128AB50
1/2 in. x 10 in.	1210AB50
1/2 in. x 12 in.	1212AB50
1/2 in. x 14 in.	1214AB50
1/2 in. x 16 in.	1216AB50
1/2 in. x 18 in.	1218AB50
5/8 in. x 8 in.	588AB25
5/8 in. x 10 in.	5810AB25
5/8 in. x 12 in.	5812AB25
5/8 in. x 14 in.	5814AB25
5/8 in. x 16 in.	5816AB25
3/4 in. x 10 in.	3410AB20
3/4 in. x 12 in.	3412AB20
3/4 in. x 14 in.	3414AB20
3/4 in. x 15 in.	3415AB20
3/4 in. x 18 in.	3418AB20

Hot Dipped Galvanized ASTM A153 Class C	
1/2 in. x 6 in.	126GAB50
1/2 in. x 8 in.	128GAB50
1/2 in. x 10 in.	1210GAB50
1/2 in. x 12 in.	1212GAB50
1/2 in. x 14 in.	1214GAB50
1/2 in. x 16 in.	1216GAB50
1/2 in. x 18 in.	1218GAB50
5/8 in. x 8 in.	588HGAB25
5/8 in. x 10 in.	5810HGAB25
5/8 in. x 12 in.	5812HGAB25
5/8 in. x 14 in.	5814HGAB25
5/8 in. x 16 in.	5816HGAB25



Square Washer

Size	Washer Size	SKU
Square Washer: Bright		
1/2 in.	2 in. x 2 in. x 3/16 in.	12PW100
1/2 in.	2 in. x 2 in. x 3/16 in.	12PW
5/8 in.	2 in. x 2 in. x 3/16 in.	58PW100
5/8 in.	2 in. x 2 in. x 3/16 in.	58PW
5/8 in.	2-1/2 in. x 2-1/2 in. x 1/4 in.	58PW212
3/4 in.	2-3/4 x 2-3/4 in. x 5/16 in.	34PW
3/4 in.	3 in. x 3 in. x 5/16 in.	34PW50
7/8 in.	3 in. x 3 in. x 5/16 in.	78PW
1 in.	3-1/2 in. x 3-1/2 in. x 3/8 in.	1PW
Square Washer: Hot Dipped Galvanized ASTM A153		
3/4 in.	2-3/4 in. x 2-3/4 in. x 5/16 in.	34HGPW
3/4 in.	2 in. x 2 in. x 3/16 in.	34HGPW80
1/2 in.	2 in. x 2 in. x 3/16 in.	12HGPW100
1/2 in.	2 in. x 2 in. x 3/16 in.	12HGPW
1/2 in.	3 in. x 3-1/4 in. x 1/2 in.	12HGPW3
5/8 in.	2 in. x 2 in. x 3/16 in.	58HGPW100
5/8 in.	2 in. x 2 in. x 3/16 in.	58HGPW
5/8 in.	2-1/2 in. x 2-1/2 in. x 1/4 in.	58HGPW212
5/8 in.	3 in. x 3 in. x 1/4 in.	58HGPW3



Supergrit® Safety Treads

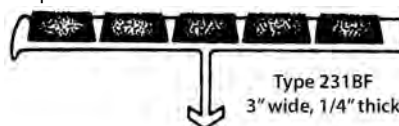
Supergrit® Safety Treads Provide

A heat-treated, corrosion resistant, extruded aluminum base with satin lacquered finish. The use of diamond

hard aluminum oxide in the filler assures long tread life under heavy pedestrian traffic use. Supergrit® is appropriate for both inside and outside use.

Supergrit® Features:

- Extruded aluminum base - abrasive filler.
- Lengths to order - up to 12'0" max.
- High content of aluminum oxide abrasive
- 11 standard colors - Colors extend throughout filler
- Noncombustible
- Protective tape available



Supergrit® Specifications

- Provide Supergrit type 231BF safety nosings as manufactured by Wooster Products Inc for interior and exterior stairs.
- Nosing base shall be type 6063-T5 extruded aluminum.
- Anti-slip filler shall contain not less than 65% virgin grain Aluminum Oxide abrasive.
- Nosings shall be noncombustible as tested under Federal Test Method Standard No. 501a. Method 6411
- Type of anchor shall be specified.
- Nosings shall terminate not more than 4" from ends of steps for poured concrete stairs; for concrete filled steel pan stairs, nosings shall be full length of steps less 1/8" clearance.
- Color shall extend uniformly throughout the filler; black color will be furnished if no other color is specified.
- Nosings shall finish flush with the top of the traffic surface.

Spectra® Safety Treads



A high content of aluminum oxide abrasive grit for long life and lasting beauty. Spectra's safety surface has easy maintenance features and insures greatest protection from liability of falls and injuries.

Spectra® Features:

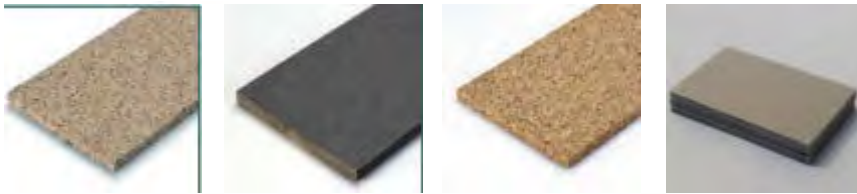
- Extruded aluminum base - abrasive filler.
- Lengths to order - up to 10'0" max.
- Anti-slip abrasive extending over radius of nose
- High content of aluminum oxide abrasive
- 18 standard colors - Colors extend throughout
- Clean architectural lines
- Protective tape available

Spectra® Specification:

- Provide Spectra® type WP2JT safety nosings as manufactured by Wooster Products Inc. for interior and exterior stairs.
- Nosing base shall be type 6063-T5 extruded aluminum.
- Anti-slip filler shall contain not less than 60% virgin grain Aluminum Oxide abrasive.
- Binder is to be a fully cured resilient type epoxy; epoxy binder to filler ratio to be 13% minimum for improved cleanability.
- Epoxy/abrasive filler shall extend over the curved front edge of nosing.
- Type of anchor shall be specified.
- Nosings shall terminate not more than 4" from ends of steps for poured concrete stairs; for concrete filled steel pan stairs, nosings shall be full length of steps less 1/8" clearance.
- Color shall extend uniformly throughout the filler; black color will be furnished if no other color is specified.
- Nosings shall finish flush with the top of the traffic surface.

Expansion Joint Filler

EXPANSION JOINT FILLER



Cork
Self-Expanding

Sponge
Rubber

Cork

Ceramar®

SELF-EXPANDING CORK EXPANSION JOINT

SELF-EXPANDING CORK EXPANSION JOINT is formed and compressed under heat and pressure to permit expansion up to 140% of original thickness after installation, which permits the filler to compensate for concrete shrinkage. Normal humidity conditions after installation activate the self-expanding properties of the cork.

SELF-EXPANDING CORK EXPANSION JOINT is used where high resiliency is needed, such as in sewage plants, floodwalls, spillways, filtration plants and in numerous commercial and industrial applications. SELF-EXPANDING CORK is especially desirable where a constant friction-fit is required.

SPONGE RUBBER EXPANSION JOINT

SPONGE RUBBER EXPANSION JOINT is produced to a uniform thickness and density from gray-colored, top-quality, blown sponge rubber. It is easily compressed and has a recovery of 95% or more of the original thickness and a density of not less than 30 pounds per cubic foot (480.56 kg per cubic meter).

SPONGE RUBBER EXPANSION JOINT is frequently used on bridge structures and sewage treatment plants that undergo rapid changes in temperature. Because of its excellent recovery capability during wide temperature variations, SPONGE RUBBER is used around supporting pillars, drains, hydrants, lamps and signposts, as well as in isolation applications or between materials having dissimilar coefficients of expansion.

CORK EXPANSION JOINT

CORK EXPANSION JOINT Filler is produced from clean, selected, granulated cork bonded with a phenolic resin. It is highly resilient, will compress without extrusion and recover to 95% of its original thickness after 50% compression.

CORK EXPANSION JOINT is used where high resiliency is needed, such as in sewage plants, floodwalls, spillways, filtration plants and in numerous commercial and industrial applications.

FIBRE EXPANSION JOINT

FIBRE EXPANSION JOINT is composed of cellular fibers securely bonded together and uniformly saturated with asphalt to assure

longevity. FIBRE EXPANSION JOINT is versatile, resilient, flexible and non-extruding. When compressed to half of its original thickness, it will recover to a minimum of 70% of its original thickness.

FIBRE EXPANSION JOINT is ideal for use on highways, streets, airport runways, sidewalks, driveways, flatwork and scores of commercial and industrial applications.

DECK-O-FOAM®

DECK-O-FOAM expansion joint filler is a flexible, lightweight, non-staining, polyethylene, closed-cell expansion joint filler. It is a chemical-resistant, ultraviolet stable, non-absorbent, low-density, economical, compressible foam that offers an extended service life in both interior and exterior applications.

DECK-O-FOAM is supplied with a convenient pre-scored "removable" strip to provide a uniform sealing reservoir in the joint. It also serves as a sealant bond-breaker and provides an economical alternative as an expansion joint in all concrete paving projects. It is compatible with all currently available cold-applied sealants.

DECK-O-FOAM is ideal for use as an expansion, contraction and/or isolation joint in swimming pool decks, curb and gutter work, floor slabs, pavement patch repair, sidewalks, driveways, plazas, parking decks, highways and airport runways.

CERAMAR®

CERAMAR flexible foam expansion joint filler is composed of a unique synthetic foam of isomeric polymers in a very small, closed-cell structure. Gray in color, CERAMAR is a lightweight, flexible, highly resilient material offering recovery qualities of over 99%. The compact, closed-cell structure will absorb almost no water.

CERAMAR flexible foam expansion joint filler provides an excellent joint filler and back-up material for use in either horizontal or vertical applications where expansion and contraction movements must be accommodated.

CERAMAR is compatible with all currently popular cold-applied sealants, caulks and hot-pour joint sealing compounds. It is lightweight and easy to cut or form in the field without waste.

CERAMAR compresses easily for use with shrinkage-compensating concrete and it may be used to relieve stress and pressure in concrete pavements.

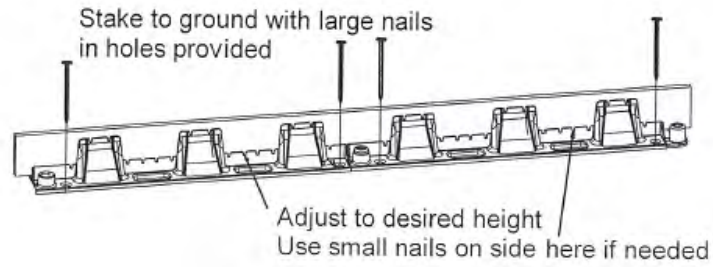
Control Joint Specification Data and Size Information

Type	Conforms to or Meets Specifications	Thickness Widths*	Slab Widths	Standard Lengths
Fiber	ASTM D 1751 AASHTO M 213 FAA Spec. Item P-610-2.7 Corps of Engineers CRD-C 508 Fed. Spec. HH-F-341 F, Type I	1/4" (6.35mm) 3/8" (9.53mm) 1/2" (12.7mm) 3/4" (19.05mm) 1" (25.4mm)	36", 48" (914.4mm, 1.22m)	10' (3.05m) Also available 5', 6', 12' (1.5, 1.83, 3.66m)
Ceramar	ASTM D 1752, Sec. 5.1 through 5.4 with the compression requirement & modified to 10 psi (.069 MPa) minimum and 25 psi (.173 MPa) maximum	1/4" (6.35mm) 3/8" (9.53mm) 1/2" (12.7mm) 3/4" (19.05mm) 1" (25.4mm)	48" (1.22m)	10' (3.05m)
Sponge Rubber	ASTM D 1752, Type I Fed. Spec. HH-F-341 F, Type II, Class A AASHTO M 153, Type I FAA Spec. Item P-610-2.7 Corps of Engineers CRD-C 509, Type I	1/4" (6.35mm) 3/8" (9.53mm) 1/2" (12.7mm) 3/4" (19.05mm) 1" (25.4mm)	36" (914.4mm)	10' (3.05m)
Cork	ASTM D 1752, Type II Fed. Spec. HH-F-341 F, Type II, Class B AASHTO M 15.3, Type II FAA Spec. Item P-610-2.7 Corps of Engineers CRD-C 509, Type II	1/4" (6.35mm) 3/8" (9.53mm) 1/2" (12.7mm) 3/4" (19.05mm) 1" (25.4mm)	36" (914.4mm)	10' (3.05m)
Self-Expanding Cork	ASTM D 1752, Type III Fed. Spec. HH-F-341 F, TYPE III, Class C AASHTO M 153, Type III FAA Spec. Item P-610-2.7 Corps of Engineers CRD-C 509, Type III	1/2" (12.7mm) 3/4" (19.05mm) 1" (25.4mm)	24" (610 mm)	3' (.91m)

* Pre-cut joint furnished in any desired width

Expansion Joint Holder

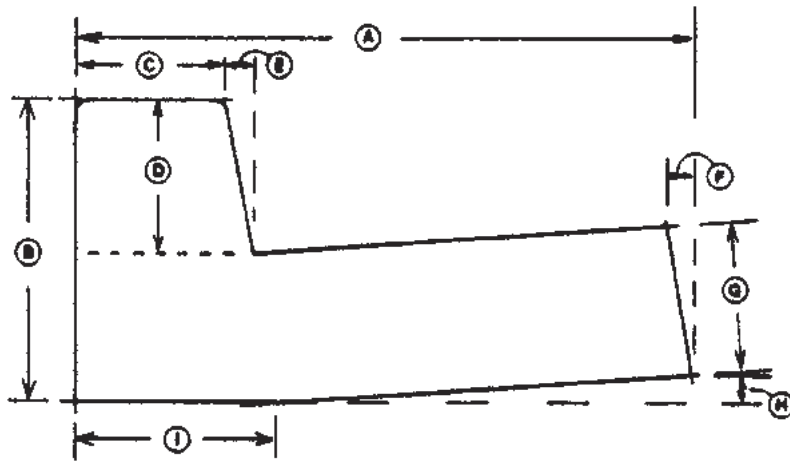
The GHC Products expansion joint holder is stable, expandable and dependable to our line of tilt-up concrete products. GHC's expansion joint holder comes in two foot sections enabling unlimited lengths to be set. This product is highly recommended on site concrete or wherever an expansion joint is called for during construction.



Order in 2-foot sections.
All sections connectible for any length desired.

Curb & Gutter Expansion Joint Ordering Guide

Use this reference to order MCS Custom Cut Curb and Gutter Expansion Joint



PACKAGING	(Standard Size Rolls)
1/4" x 3" x 100' 6.4 mm x 76.2 mm x 30.5 m	20 rolls/bale
1/4" x 4" x 100' 6.4 mm x 101.6 mm x 30.5 m	15 rolls/bale
1/4" x 6" x 100' 6.4 mm x 152.4 mm x 30.5 m	10 rolls/bale
1/4" x 8" x 100' 6.4 mm x 203.2 mm x 30.5 m	7 rolls/bale
1/4" x 48" x 100' 6.4 mm x 1.22 m x 30.5 m	1 roll/bale
1/2" x 3" x 50' 12.7 mm x 76.2 mm x 15.2 m	20 rolls/bale
1/2" x 3 1/2" x 50' 12.7 mm x 88.9 mm x 15.2m	17 rolls/bale
1/2" x 4" x 50' 12.7 mm x 101.6 mm x 15.2 m	15 rolls/bale
1/2" x 5" x 50' 12.7 mm x 127 mm x 15.2 m	12 rolls/bale
1/2" x 6" x 50' 12.7 mm x 152.4 mm x 15.2 m	10 rolls/bale
1/2" x 8" x 50' 12.7 mm x 203.2 mm x 15.2 m	7 rolls/bale
1/2" x 48" x 50' 12.7 mm x 1.22 m x 15.2 m	1 roll/bale

*Special sizes available upon request.

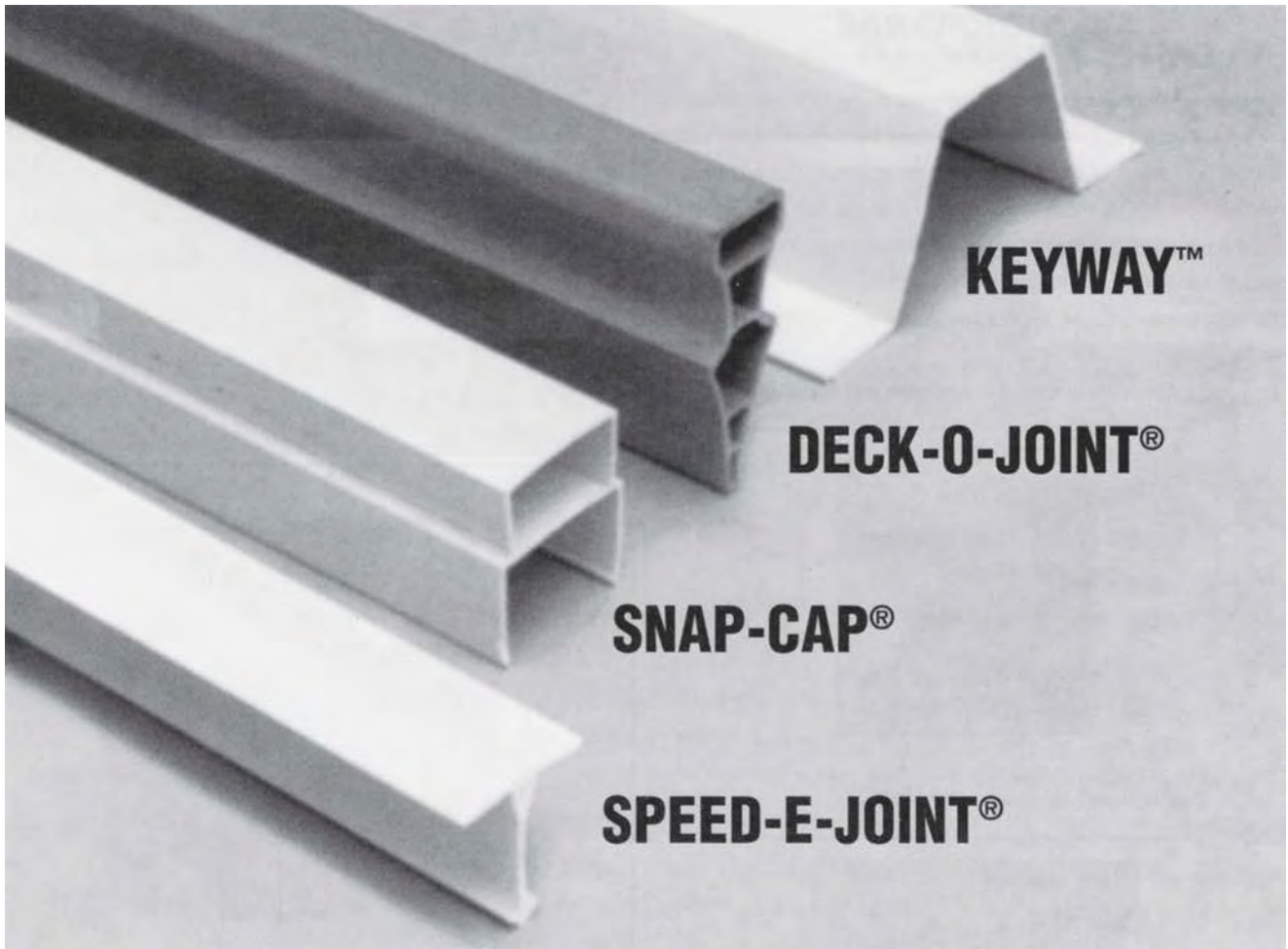
DECK-O-FOAM® Expansion Joint Filler

DECK-O-FOAM expansion joint filler is a flexible, lightweight, non-staining, polyethylene, closed-cell expansion joint filler. It is a chemical resistant, ultraviolet stable, non-absorbent, low density, cost-effective, compressible foam that offers an extended service life in both interior and exterior applications.

- Pre-scored strip is easily removed.
- Economical alternative to expansion joints.
- Controls amount of sealant needed and acts as a bond breaker.
- Eliminates costly sawing and routing.
- Flexible, lightweight, and can be formed around curved objects.
- Easy to install.
- Can be used in interior or exterior applications.



Expansion Joints



KEYWAY PVC Tongue and Groove Joint Form

KEYWAY is lightweight, flexible and an easy way to mold a keyed tongue and groove construction joint. KEYWAY resists impact and will not whip or warp. It strips quickly and can be reused or left in place.

DECO-O-JOINT PVC Expansion Joint

DECK-O-JOINT is a decorative expansion joint for use wherever concrete is placed. It is economical, long lasting and trouble-free. DECK-O-JOINT resists acids, alkali, chlorine, etc. A light hose down keeps it bright and clean. Colors: Stone Gray, Desert Tan and Dura-White.

SNAP-CAP Expansion Joint Cap

SNAP-CAP provides a time and cost-saving method for forming straight, uniform and debris-free joints of the proper configuration, ready to seal. The top of SNAP-CAP pulls free and can be discarded. The exposed concrete surfaces assure balanced adherence to the sides. It is ideal for both horizontal and vertical concrete projects. SNAP-CAP is available in four widths.

SPEED-E-JOINT® Preformed Contraction Joint

SPEED-E-JOINT consists of two solid pieces that have been pre-assembled for easy handling and installation. It is a rigid preformed contraction joint that produces a straight-line crack on the surface of concrete slabs and locks into the aggregate just below the surface. SPEED-E-JOINT is strong, economical and eliminates waste in providing straight lines. It is quick and easy to install. The top section pulls free once the joint has been placed correctly in the wet concrete.

Plastic Joint Materials Size Information

TYPE	WIDTH	DEPTH	LENGTH
SPEED-E-JOINT	NA	1" (25.4 mm); 1-1/2" (38.1 mm); 2" (50.8 mm)	10' (3.05m)
DECK-O-JOINT	5/8" (15.88mm)	1-5/8" (41.3mm)	10' (3.05m)
KEYWAY	2-1/2", 3-1/2"	3-1/2" (88.9mm)	10' (3.05m)
SNAP-CAP	3/8" (9.53mm); 1/2" (12.7mm); 1/2" (12.7mm); 3/4" (19.05mm); 1" (25.4mm)		10' (3.05m)

ACCESSORIES

We feature a variety of accessories designed to make your job easier. Our line includes our patented, shock-absorbing tampers, our new, lightweight, hand-held billy banger tamper, touch-up wheels, joint texture strips, decorative concrete texture rollers, and more. These convenient accessories help you simplify the process while enhancing your expertise.



12" Tamper



16" Tamper



Billy Banger
Hand Tamper



Joint Texture
Strip Thin



Joint Texture
Strip Regular



Joint Texture
Strip Wide



Contractor
Name Stamp



Granite
Texturing
Roller 4.5"



Granite
Texturing
Roller 9"



Stone
Texturing
Roller 4.5"



Stone
Texturing
Roller 9"



Touch up
wheel-
Hammered
Edge



Touch up
wheel- V
Groove



Touch up
wheel- 1/4
inch
flat



Touch up
wheel- 1/18
inch flat



Touch up
wheel- 3/8
round



Touch up
wheel- 1/4
inch
round



Touch up
Wheel- 3/8
inch
textured



Touch up
wheel- 1/2
inch
textured



Touch up
wheel- 3/8
inch
flat



4" Standard
Chisel



8" Standard
Chisel



12" Hammered
Edge Chisel



S-Curve Chisel



Post Tension 1
Oval 3.5" X 6.5"



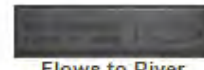
Post Tension 2
Rectangle
4.75" x 7.5"



Post Tension 3
Rectangle 6" X
11"



Buried Cable



Flows to River
(with Fish)



Drains To
Waterway



Fire Lane



Numbers 0-9
2" High



Numbers 0-9
3" High



Numbers 0-9 6
" High



Alphabet
Letters Set of
A - Z 2" high



Alphabet
Letters Set A -
Z 3" high

CONCRETE STAMPS

Seamless Skins

Proline is the innovator of the Seamless Texturing system. The very first Seamless Texture to roll out of a production line was Proline's Old Granite Cleft Stone. It was followed by Roman Slate, especially designed for Caesar Palace in Las Vegas. Now, these are the standards in the industry. All others are imitations of the original. All Proline skins are made of the highest grade urethane in a unique process that results in highly durable stamping tools. Proline tools are carefully hand-built and represent life-like stone and texture. As an applicator, you will appreciate how light and easy our mats are to use. All Seamless Textures include handles, with the exception of touch up mats. All patterns are available in approximately 5' x 5', 4' x 4', 3' x 3', 2' x 4' and 20" x 20" for touch up. We also offer our touch up mats in a super-flex material for added flexibility in tight places. You can have the look of natural stone, with the durability and low cost of concrete. Check out our many patterns. Easy to install - the only hard part is choosing between all the beautiful patterns. (For tool layout, see placement guides. Stamps/Placement guides)



Seamless Old Granite Cleft Stone



Seamless Italian Slate



Seamless Belgium Slate



Seamless Sandstone Light



Seamless Sandstone Course



Seamless Coquina Stone



Seamless Coquina Stone with Sea Shells



Seamless Limestone



Seamless Flamed Granite



Seamless Quartzite



Seamless Blue Stone



Seamless Roman Slate 5' X 5'



Seamless Cracked Mud



Seamless Travertine



Seamless Forest Floor



Coarse Groutable Travertine



Quarry Stone Seamless Texture

EZ-Tique Water-Based Antiquing Wash

EZ-Tique Water Based Acrylic Antiquing Wash is taking the industry by storm. This versatile coloring agent is easily applied and will hold fast to any textured concrete surface. This powder is designed to mix with water and be applied as a liquid wash coat. EZ-Tique can be used to revitalize a weathered concrete surface or add an antique color to a freshly textured surface. It goes on quickly and easily and can be removed readily for greater control of the coloring process. This product is water-based, non-hazardous and zero V.O.C. EZ-Tique comes in 42 standard colors, as does Proline's Color Hardener and Antique Release. It comes in a 3 lb. pail and covers about 2,000 - 3,000 square feet per container, making this product eXtremely affordable.

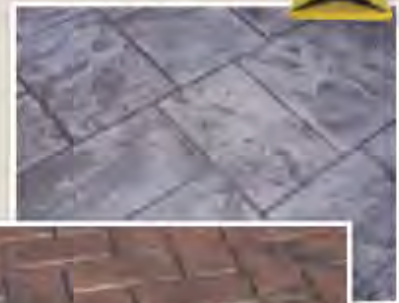
TEXTURE MATS/STAMPING



BRICKFORM manufactures the largest selection of texturing tools worldwide. Over 175-patterns, from Rough Cut Ashlar to Random Stone, and used brick textures to wood plank, are available in various sizes, joints, grout lines, and configurations. 21 seamless skins are feather-edged to produce continuous texture with no grout or joint lines.

Over 30-textures have been designed to recreate the look and feel of natural materials. All tools, from random fieldstone to coarse wire-cut brick, heavily textured stone to the smooth look of Mexican tile are created with strict attention to detail.

The resilient material used to create each texture is designed to retain pattern "memory." Consistent, well-defined, uniform texture is transferred, in every detail, onto the concrete surface imprint after imprint.



Color Hardener is manufactured with the finest UV-resistant pigments and premium aggregates. BRICKFORM Color Hardener is designed to work with imprinting tools to produce clear, sharp impressions that enhance the finished appearance of any hardscape. When properly applied and troweled into newly placed, fresh concrete, it forms a colored concrete surface that is resistant to weathering, wear and normal abrasion. 42 standard colors.



Antique Release imparts a second color while serving as a bond breaker for stamping. It is made from a finely ground formula that creates beautifully antiqued and textured concrete surfaces. Antique Release is available in 42 standard colors to match or contrast with BRICKFORM Color Hardener. Custom colors and color matching are also available.



Powdered Integral Color is a powdered-based pigment designed to color the cement paste in a concrete mixture. Powdered Color can be used for cast-in-place, pre-cast, and tilt-up, concrete block, pavers, and textured concrete.



Liquid Release is a colorless bond-breaker, formulated and recommended for use with all BRICKFORM Texture Mats. Liquid Release forms a lubricating barrier that prolongs the life of the imprinting tools by decreasing the friction between the mats and the concrete.



Antique-It is a water soluble antiquing agent designed to impart a secondary color or highlight over stamped concrete or textured overlays. Antique-It is easy to apply, dries fast and provides a durable color that closely resembles the look of release powder.



Decorative Concrete



Stains

Blush-Tone Acid Stain reacts with minerals that exist in newly cured or existing concrete, penetrating the very top layer of the concrete surface with color that will not chip, crack, or peel. The colors produced in each section of concrete will be unique with captivating, multi-colored intensities that become a permanent part of the concrete.

FreestylePRO is a revolutionary concrete stain that penetrates and bonds with concrete surfaces in a way that no other coloring product can. This water-based, opaque stain is excellent for restoring, changing colors on previously colored surfaces, or rejuvenating old, discolored concrete. **Highlighter** is applied over FreestylePRO Solid Color Stain to create an antiqued look on textured concrete surfaces.

Liquid **Pro-Dye** penetrates the surface of concrete, creating a layer of translucent color that dries quickly and will not chip, crack, or peel. Pro-Dye is packaged in liquid form to be mixed in proportion with acetone. Pro-Dye is designed to work with the Professional Concrete Polishing System for the coloring process in polishing floors. Pro-Dye is also excellent in vertical applications, stencils, and logos because it dries so quickly.

Durable Sealers

BRICKFORM sealers bring out the natural beauty of the textures and color unique to a decorative surface. At the same time, these superior, durable sealers protect the finish from sun damage, yellowing, scuffing and premature wear. Stamping, coloring and sealing make up the dependable Brickform systems approach for success.

UreMax WB, Matte finish, water-based, high build sealer
Poly-Astic, High-gloss, high build, poly-aspartic sealer
DecoPoxy, Water-based, high build sealer, low VOC epoxy sealer
Stealth Seal, Penetrating, non-film forming water and oil repellent sealer
Gem-Seal, High-gloss sealer
Poly-Seal, Medium-to-high sheen, solvent-based sealer
Safety-Seal with traction grip, low-sheen slip-resistant sealer
Satin-Seal, Satin-finish "natural look" sealer
Matte-Magic, Gloss-reducing, sealer additive
Tinta-Seal, Color tint-pack additive for solvent-based sealers

Gem Cure & Seal is a medium-to-high gloss, solvent based, clear acrylate co-polymer curing compound, dust proofer and sealer all in one.

Satin Cure & Seal is a water based, clear acrylic co-polymer curing compound, dust proofer and sealer all in one.

Resurfacing Products

Micro-Topping is used on interior or exterior cured concrete to create a durable surface that can be colored or stained. It is available as a white or gray dry powder in Smooth grade, and mixed with Brickform Liquid Polymer. The Smooth Grade is applied over SM Professional Grade for a smooth finish when desired.

SM Professional Grade is a white, sprayable cementitious overlay that is designed to be mixed with Brickform Liquid Polymer and applied with a hopper gun. It can be integrally colored using BRICKFORM Overlay Liquid Colorant. BRICKFORM SM Professional Grade can be used to create the look of brick, stone, tile or other unique specialty finishes.

Vertical Mix is a lightweight vertical overlay mix designed for texturing vertical surfaces up to 2" and creating simulated stone, rock, tile, slate and other natural surfaces. It is composed of cement, polymers, lightweight aggregates and admixtures. It may be applied to vertical surfaces such as wood, drywall, concrete, blocks etc.

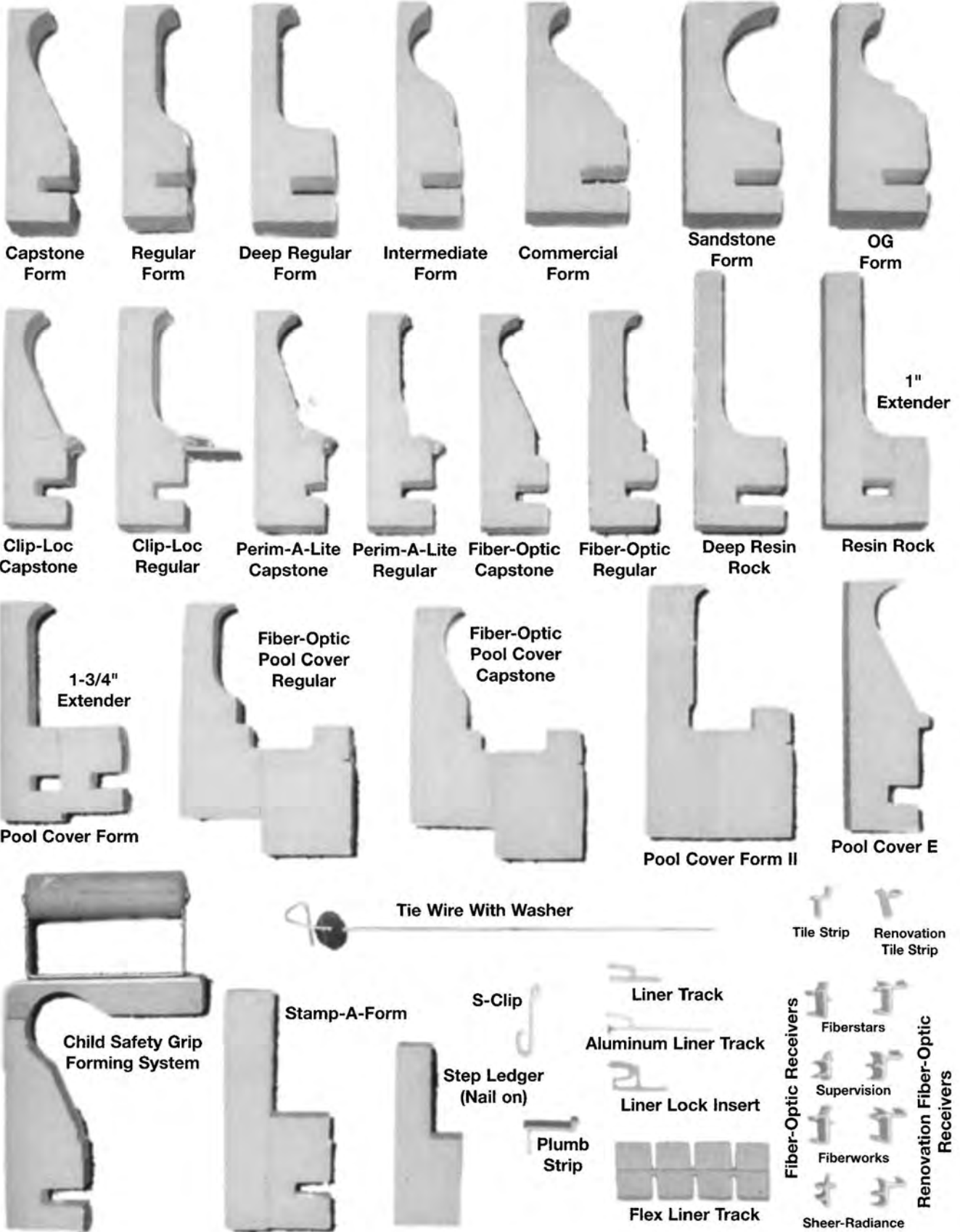
Stampable Overlay "White" is a single component (add water only) blend of white cement and special materials that forms a thin, concrete coating. BRICKFORM Stampable Overlay is specially designed to work with BRICKFORM Overlay Liquid Colorant.

Stampable Overlay "Gray" is a premixed blend of special materials that, when mixed with water, forms a thin, concrete coating. This overlay is intended for use with Color Hardener and Antique Release.

Overlay Liquid Colorant is specifically designed for Brickform Micro-Topping, SM Professional Grade and Stampable Overlay (SC-60, White Mix). Use one bottle per bag.

Finishing Aid

Lythic **DAY1** Troweling Aid, Densifier and Curing Agent is a colloidal silica-based topical additive that makes concrete flatwork finishing easier and faster, and produces a better result. Applied during floating and troweling, Lythic DAY1 lubricates the surface for easier, faster finishing.



Decorative Forms - Wall Caps

WALL CAP FORMS

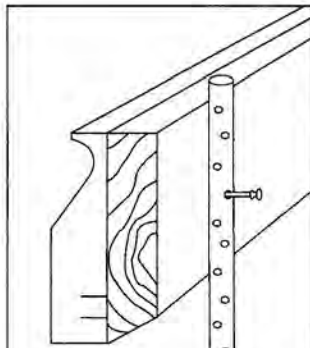
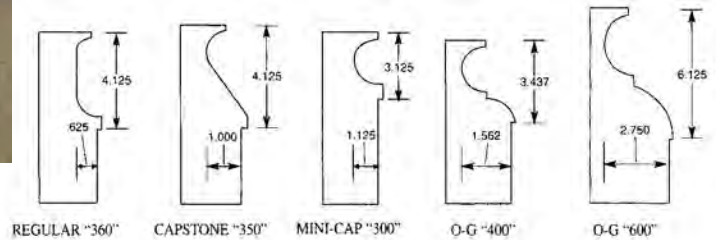
Wall Cap Forms are reusable foam forms used in forming and pouring concrete caps on block walls, glass block walls, and planters. Wall Caps are lightweight and are held in place with reusable spring clamps. Wall Caps are available in several classic profiles in addition to the traditional swimming pool cantilever styles. Wall Cap forms provide a cast-in-place solution to many precast problems.



Wall Cap Forms 80' per carton	Wall Cap Part Number
Regular "360"	REG-360
Capstone "350"	CAP-350
Mini-Cap "300"	MC-300
O-G "400"	OG-400
O-G "600"	OG-600

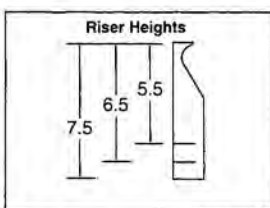


Spring Clamps
Part # SPR-CLP
Packaged 10 per carton



Available in 8 ft.
or 4 ft. lengths
4 ft. lengths can
be shipped U. P. S.

Product	Length	Part no.	Quantity
Capstone	4 ft.	9STP40	40 LF
Capstone	8 ft.	9STP80	80 LF
Safety Tread	4 ft.	19STP40	40 LF
Safety Tread	8 ft.	19STP80	80 LF
Regular	4 ft.	1STP40	40 LF
Regular	8 ft.	1STP80	80 LF
Intermediate	4 ft.	2STP40	40 LF
Intermediate	8 ft.	2STP80	80 LF
Commercial	4 ft.	3STP24	24 LF
Commercial	8 ft.	3STP48	48 LF
Sandstone	4 ft.	17STP40	28 LF
Sandstone	8 ft.	17STP80	56 LF



STEP LINERS



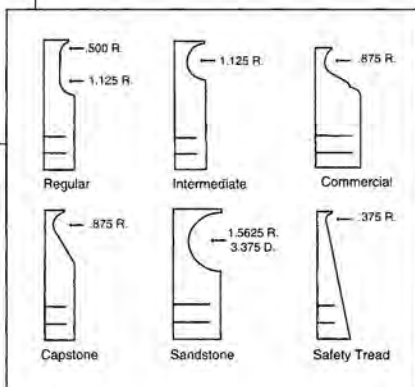
With Stegmeier Foam Step Liners, shaping overhangs becomes a Snap.

Use spray adhesive and/or roofing tacks to fasten Step Liners to the inside of formwork.

Radius steps may be set using bender board or masonite siding instead of rigid wooden forms.

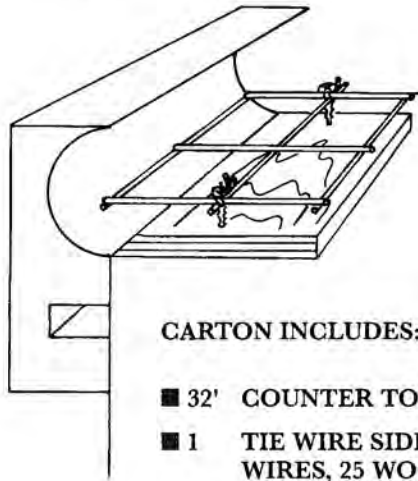
Break-away slots allow for three (3) riser heights.

Step Liners may be stripped and finished much earlier than conventional forms because it acts as a foam cushion against concrete.



COUNTER TOP FORMS

"For Poured in Place Concrete Counter Tops"



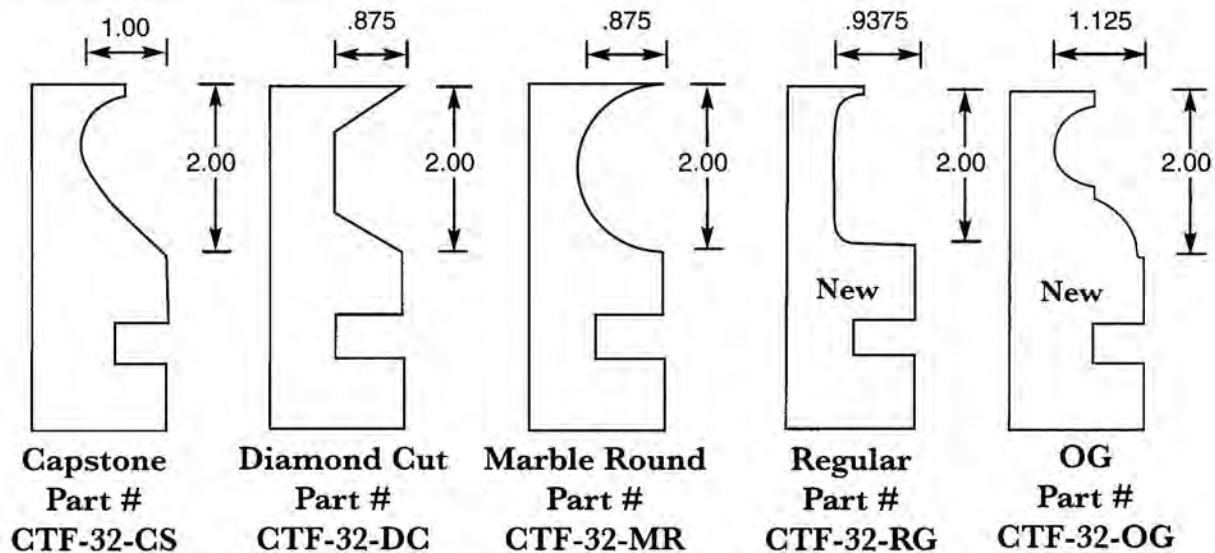
CARTON INCLUDES:

- 32' COUNTER TOP FORMS
- 1 TIE WIRE SIDE KIT (25 TIE WIRES, 25 WOOD SCREWS, AND 1 ROLL OF BENDING TAPE)
- 1 FOAM PROFILE EDGING TOOL
- 1 INSTRUCTION SHEET

Stegmeier's Counter Top Forms are the answer to installing the popular counters found in many contemporary kitchens, baths, and commercial sites such as restaurants and bars. These short 2"-thick profiles are the perfect height for most applications and can be shaped or mitered to any angle.

Counter Top Forms have a smooth even texture allowing them to be stripped early while there is ample time for finishing.

If 3"-thick counters are desired see Sandstone form.



CONCRETE COUNTER MIX

GFRC Mix Materials

Buddy Rhodes GFRC products allow artisans to create strong and lightweight concrete objects. Great for use with concrete countertops, concrete furniture, concrete fireplace surrounds, architectural concrete elements, and concrete art. Gaining flexural strength from glass fibers, GFRC is capable of being made in much thinner sections than traditionally cast concrete, while having improved flexural strength. GFRC can be sprayed into the molds, forcing out the air and producing a dense and tight finish. GFRC can also be directly cast into molds in certain applications.

Buddy Rhodes Studio Concrete Mix

BR Concrete Counter Mix (patent pending) is a refined combination of sand, cement, marble and our own secret ingredients that have given Buddy Rhodes' pre-cast concrete its warm quality and versatility for over 20 years. The counter mix can be cast directly on cabinets with a prepared sub-top or pre-cast upside down in molds for a veined finish. Use the bone white mix as is, or add one of our liquid colors to the mix water. Due to its rich consistency and plasticity, the mix can be used on vertical as well as horizontal surfaces.



One 70 lb. bag yields approximately 2/3 cubic foot or 5 square feet of counter at 1.5" thick.

Bigger bags for bigger jobs are also available.

The Buddy Rhodes All in One System



New! Dry Pigment

Ultra-Fine Pigments will make your projects easier to mix without waste, easier to measure, and easier to reproduce. The new pigments are also more efficient to ship and to store. One bag of dry pigment colors two bags Mix.

Natural Look Penetrating Sealer

BR Penetrating Sealer "natural look" is designed to impart water repellency and reduce water absorption. Sold in quart, gallon and 5 gallon containers.

Satin Sealer

BR Satin Sealer is a water-based and ultra violet resistant acrylic micro-emulsion. It will help protect the finished surface from oil and water-based stains and enhances the colors. Sold in quart, gallon and 5 gallon containers.



Food Grade Beeswax

BR Food Grade Beeswax helps prevent stains and enhances the color of concrete surfaces. It may be used for maintenance over the life of the concrete project. Just apply a thin coat and buff out. Sold in 1 lb. jars.

Color Paste

BR Color Paste is formulated to match all BR Liquid Colors. The paste is used as a slurry to fill air holes or the voids in BR signature veined finish. Voids may be filled with matching or one or more contrasting colors. Available in 8 lb. re-sealable buckets.



Acrylic Additive

BR Acrylic Additive is a liquid acrylic polymer emulsion specifically designed as an admixture for concrete projects. This optional additive reduces shrinkage, promotes curing and improves abrasion and stain resistance. Sold in 5 gallon containers.

Buddy Rhodes Reusable Edge Forms

BR Edge Forms are made from 1/4" extruded styrene and may be clamped onto a cabinet for molding the edging of cast-in-place counter tops. They may be mitered on a chop saw for returned edges. Sold in 8' lengths.



RECEDING 1.5" TH



PENCIL 1.5" TH



EXTENDED 2" TH



CHAMFER 1.5" TH

WATERSTOP-RX®

EXPANDING CONCRETE JOINT WATERSTOP

DESCRIPTION

WATERSTOP-RX is a hydrophilic strip waterstop designed to stop water infiltration through cast-in-place concrete construction joints by expanding upon contact with water to form a positive seal against the concrete. The key to WATERSTOP-RX's effectiveness is its superior expansion to seal and fill voids and cracks in the concrete. WATERSTOP-RX is an active bentonite/butyl-rubber based waterstop that is designed to replace passive PVC/Rubber dumbbell waterstops, thereby eliminating the requirement of special pieces, split-forming and seam welding. WATERSTOP-RX has been successfully tested by independent testing firms to over 60 meters (200 feet) of hydrostatic water pressure, under both continuous immersion and wet/dry cycling.

WATERSTOP-RX is available in three sizes and shapes (see Product Table). WATERSTOP-RX 101 is produced in a rectangular shape measuring 25 x 19 mm (1" x 3/4"). WATERSTOP-RX 101T is produced in a trapezoidal shape measuring 31 x 12 mm (1-1/4" x 1/2") with a reinforcing plastic scrim embedded in the top surface for high tensile strength. The patented trapezoidal shape distributes the expansive force over a greater area and allows the concrete to flow more readily over the product during placement. WATERSTOP-RX 102 is produced in a half-circle (Crescent) shape measuring 19 x 9 mm (3/4" x 3/8").

Though WATERSTOP-RX possesses good resistance to many chemicals, the waterstop is not intended to be used as the primary joint sealant for chemical containment vessels. Consult manufacturer for guidance regarding chemical compatibility for secondary chemical containment applications. Additionally, WATERSTOP-RX is not an expansion joint sealant; contact CETCO for expansion joint applications.

APPLICATIONS

Applications include both vertical and horizontal non-moving concrete construction joints, new to existing concrete construction, irregular surfaces, and around through-wall

penetrations, such as plumbing and utility pipes. Additionally WATERSTOP-RX can seal around concrete piling and steel H-piles passing through the slab. WATERSTOP-RX works in both continuous hydrostatic and intermittent hydrostatic conditions.

WATERSTOP-RX products are designed for reinforced structural concrete with a minimum of 20N/mm² (3,000 psi) compressive strength. RX-101 and RX-101T are designed for concrete 200 mm (8") thick or greater with two rows of reinforcing steel. RX-102 is designed for vertical concrete 150 mm (6") thick or greater; and horizontal concrete no less than 100 mm (4") thick. RX-102 should be used in concrete with one row of steel reinforcement, concrete curbs, planter walls, fountains, and lightweight structural concrete.

WATERSTOP-RX is a reliable, cost-effective means to stop water infiltration through concrete cold joints. It can also be used around pipe and structural penetrations

INSTALLATION

Surface preparation: Surfaces should be clean and dry. Remove all dirt, rocks, rust or other construction debris. Do not install WATERSTOP-RX in standing water or on an iced substrate.

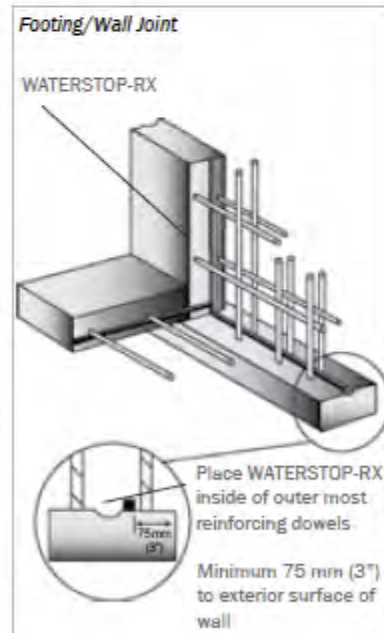
Adhesive: Apply a continuous bead of CETSEAL along the substrate where WATERSTOP-RX will be installed. Assure proper 75 mm (3") concrete coverage will be maintained. Keep the nozzle tip pressed against the concrete at a 45° angle during application.

Installation: After applying a continuous bead of CETSEAL, remove release paper, then firmly press the entire length of WATERSTOP-RX onto the adhesive. For vertical and overhead applications, firmly press a minimum of 15 seconds to assure adhesion. For best results apply WATERSTOP-RX within 15 minutes of adhesive installation. WATERSTOP-RX must be placed into adhesive prior to CETSEAL skinning over and curing. CETSEAL may be applied to damp surfaces, but not in standing water.

Tightly butt coil ends together to form a continuous waterstop - do not overlap coil ends. Place in maximum practical lengths to minimize coil end joints. Where required, cut coils with a sharp knife or utility blade to fit coil ends together. Make horizontal to vertical transitions by abutting product coil sections together, no special accessory pieces are required.

At structural and pipe penetrations, cut into strips to fit around the penetration. Apply to adhesive and abut coil ends together.

On irregular surfaces such as stone or rough concrete, make sure WATERSTOP-RX remains in direct contact with the substrate along the entire installation. There should not be any air gap between the WATERSTOP-RX and the substrate.



General Application Detail

CETCO®

WATERSTOP-RX® EXPANDING CONCRETE JOINT WATERSTOP



Installation with REVO-FIX: REVO-FIX is a steel mesh used to mechanically secure WATERSTOP-RX 101 into position using the accompanying supplied fasteners. Remove release paper and place the WATERSTOP-RX on the concrete substrate. Then place REVO-FIX strips over the WATERSTOP-RX, lapping the strip ends by 25 mm (1") maximum. Nail through LAP with fastener supplied, and install one fastener 300 mm (12") on center along the REVO-FIX.

End-to-end or end-to-side REVO-FIX junctions are created by simple butt joints pressed firmly together. Start at junctions; do not stretch WATERSTOP-RX to fit. Do not overlap waterstop.

LIMITATIONS

WATERSTOP-RX is not a self-adhering product. CETSEAL or REVO-FIX is required to secure WATERSTOP-RX to concrete, metal, or PVC (Pipe) surfaces. Mechanical fasteners should be used with REVO-FIX to secure WATERSTOP-RX 101; and fasteners can be used in conjunction with CETSEAL. Mechanical fasteners should not be used to

secure WATERSTOP-RX alone. Do not use any other adhesive or construction sealant, except CETSEAL, to secure WATERSTOP-RX.

WATERSTOP-RX is not designed, nor intended to function as an expansion joint sealant. For precast concrete applications, contact manufacturer for product suitability and for any special installation requirements.

WATERSTOP-RX products are designed for structural concrete with a minimum of 20N/mm² 3,000 psi compressive strength. WATERSTOP-RX 101 and RX-101T require a minimum of 3" (75 mm) of concrete coverage. WATERSTOP-RX 102 requires a minimum concrete coverage of 2" (50 mm). WATERSTOP-RX should only be used in applications where the product is completely encapsulated within the concrete.

WATERSTOP-RX should not be prehydrated by being subjected to submersion or remain in extended contact with water prior to encapsulation in concrete. If the product exhibits considerable swell prior to encapsulation in the concrete, it must be replaced with new material.

In conditions where severe ground water chemical contamination exists, or is expected, consult manufacturer for product chemical compatibility information.

PACKAGING

RX-101: 30 m (100 ft./box)

RX-101T: 36 m (120 ft./box)

RX-102: 60 m (200 ft./box)

CETSEAL and REVO-FIX are packaged separately.

ACCESSORY PRODUCTS

CETSEAL is a multi-purpose, single component polyether moisture cure adhesive used to secure WATERSTOP-RX into position. Apply a continuous bead of CETSEAL to substrate then install WATERSTOP-RX before CETSEAL skins over and cures. Adhesive yield will vary with use, substrate and application.

WATERSTOP-RX PRODUCT TABLE					
PRODUCT	SIZE	ROLL LENGTH	CROSS-SECTION SHAPE	UNIT QTY/CARTON	MIN CONCRETE COVERAGE
RX-101	25 x 19 mm (1" X 3/4")	5 m (16' 8")	Rectangle	30 m (100 LF)	75 mm (3")
RX-101T	31 x 12 mm (1-1/4" X 1/2")	6 m (20')	Trapezoid with Poly Scrim Reinforcement	36 m (120 LF)	75 mm (3")
RX-102	19 x 9 mm (3/4" x 3/8")	10 m (33' 4")	Half-Circle	60 m (200 LF)	50 mm (2")

Synko-Flex Waterstop SF302

This self-sealing, non-swelling preformed joint sealant provides a lasting, watertight bond on both fresh and cured concrete surfaces. Synko-Flex® Waterstop achieves a watertight seal within cold joints at footings, walls and slabs. Rain and moisture resistant, Synko-Flex® Waterstop is also a simple, long-term solution for sealing pipes, sleeves, and collars embedded or cast into concrete structures.

Features

- Eliminates split forming, wiring to rebar, heat welding of splices
- Unaffected by rain or moisture during installation
- Offers excellent chemical resistance
- Bonds to most substrates

Synko-Flex Solvent Based Primer SF311

Synko-Flex® Solvent Based Primer penetrates concrete pores and seals concrete surfaces to provide an optimal surface for the adhesion and bonding of Synko-Flex®, Hydro-Flex® Waterstops and Ram-Nek® Concrete Joint Sealant Products.





Durajoint[®]

Concrete Accessories

PVC Waterstop

All Rolls Are 50 Feet

Ribbed Centerbulb			Ribbed with Centerbulb				
	APPROX. WT. LBS. PER LIN. FT.	HEAD OF WATER FT.	Expansion/Contraction Joints		APPROX. WT. LBS. PER LIN. FT.	HEAD OF WATER FT.	Expansion/Contraction Joints
Type 3 3/16" w/ 1/2" OD x 4"	0.50	65		Type 7D1 3/8" w/taper 7/8" OD x 9"	2.10	150+	
Type 3A 3/16" w/taper 3/8" OD x 4"	0.40	65		Type 7F 3/8" w/ 2 1/4" OD x 9"	3.01	150+	
Type 3B 3/16" w/ 3/4" OD x 4"	0.74	65		Type 8A 1/2" w/taper 1" OD x 9"	2.70	150+	
Type 4 3/16" w/ 1/2" OD x 6"	0.89	100		Type 9 3/8" w/ 7/8" OD x 6"	1.50	150	
Type 4A 1/4" w/taper 1 1/16" OD x 6"	0.98	100		Type 9A 1/2" w/taper 1 5/16" OD x 6"	1.90	150	
Type 4B 3/16" w/taper 1/2" OD x 6"	0.70	100		Type 10 3/8" w/ 1" OD x 9"	2.45	175	
Type 4C 3/16" w/taper 5/8" OD x 6"	0.77	100		Type 10B 3/8" w/ 1 3/8" OD x 9"	2.73	150	
Type 4D 3/16" w/ 9/16" OD x 6"	0.87	100		Type M3 1/4" w/taper 5/8" OD x 9"	1.40	125	
Type 5 3/8" w/taper 5/8" OD x 6"	1.14	125		Type 30 3/16" w/ 7/16" OD x 12"	1.58	150	
Type 5A ONT. Hydro 3/8" w/taper 5/8" OD x 6"	1.65	175		Type 31 3/8" w/taper 1" OD x 12"	3.21	250+	
Type 5BR 3/8" w/taper 1 1/16" OD x 6"	1.235	125		Type 32 1/2" w/ 1 1/8" OD x 12"	3.80	225	
Type 5C 3/8" w/ 1" OD x 6"	1.52	125		Type 33 1/2" w/ 1 1/4" OD x 12"	4.50	225	
Type 6 3/16" w/taper 1/2" OD x 9"	1.335	100		Type 48 1/4" w/ 1" OD x 7"	1.35	100	
Type 7 3/8" w/taper 5/8" OD x 9"	1.54	175		Type 52 3/16" w/ 1" OD x 6"	0.98	N/A	
Type 7BR 3/8" w/taper 1 1/2" OD x 9"	2.65	150+		Type 71 1/2" w/taper 1 1/2" OD x 13 3/4"	3.81	340	
Type 7C 3/8" w/taper 1 1/4" OD x 9"	2.24	150+		Type 75 1/2" w/taper 1 3/8" OD x 12"	3.60	225	

Above profiles are available in split except for Type 3A, 4B, 4C, 6. Diagrams are not to scale.



DESCRIPTION Durajoint PVC Waterstop is a product designed for use in concrete construction containing joints, one side of which is subject to hydrostatic pressure. The material is gray in color. Durajoint is used as a barrier within the joint to prevent the passage of liquid through or across the joint. It is embedded in the concrete on both sides of the joint and spans the joint. It is designed to accommodate lateral and transverse movement which can cause a joint to open, close or misalign.

TYPES OF JOINTS

- **Working Joints** – Large amount of movement occurs.
- **Non-Working Joints** – Little or no movement occurs.
- **Control Joints** – Purposely created planes of weakness to predetermine the location of cracks caused by contraction during the curing of concrete. Usually these joints have lateral movement.
- **Expansion or Isolation Joints** - Separates or isolates abutting concrete structures, such as walls, slabs, columns or footings. Movement can be both lateral and transverse.
- **Construction Joints** - Placed at the interruptions in the placement of concrete.

NOTE: Head pressure ratings are for reference only. Actual ability to resist head pressure depends on the quality of concrete and placement.

Flat Ribbed without Centerbulb			
	APPROX WT. LBS. LIN. FT.	HEAD OF WATER FT.	Construction Joint
Type 2 3/16" x 4"	0.39	65	
Type 11 3/8" x 6"	1.46	125	
Type 11A 3/8" x 9"	2.19	150	
Type 11B 3/16" x 6"	0.83	100	
Type 11C 3/16" x 9"	1.14	150	
Type 110 3/8" w/taper x 9"	2.15	175	
Type 12 3/16" Flares Thicker x 6"	1.07	65	
Type 13 3/8" Flares Thicker x 6"	1.59	125	
Type 14 3/8" Flares Thicker x 9"	2.46	175	
Type 15 3/8" w/taper x 6"	1.29	125	

Dumbbell with Centerbulb			
	APPROX WT. LBS. LIN. FT.	HEAD OF WATER FT.	Expansion/Contraction Joint
Type DB-6 3/8" w/ 1 1/2" OD x 9" w/ 1" DB	2.92	150	
Type DB-9 3/8" w/ 3/4" OD x 9" w/ 1/2" DB	2.10	100	
Type DB-10 1/4" w/ 1 1/8" OD x 6" w/ 5/8" DB	1.33	125	
Type DB-11 3/8" w/ 2 3/4" OD x 9" w/ 1" DB	3.65	150	

Dumbbell without Centerbulb			
	APPROX WT. LBS. LIN. FT.	HEAD OF WATER FT.	Construction Joint
Type DB-1 1/4" x 5" w/ 1/2" dumbbell	0.83	65	
Type DB-2 3/8" x 6" w/ 3/4" dumbbell	1.53	100	
Type DB-3 3/8" x 9" w/ 3/4" dumbbell	2.21	100	
Type DB-4 3/8" x 9" w/ 1" dumbbell	2.34	100	
Type DB-5 3/16" x 6" w/ 3/8" dumbbell	0.76	90	
Type DB-7 1/4" x 6" w/ 1/2" dumbbell	0.98	100	
Type DB-8 3/16" x 4" w/ 3/8" dumbbell	0.50	65	
Type DB-12 3/8" x 12" w/ 13/16" dumbbell	2.99	200	
Type DB-13 3/16" x 9" w/ 9/16" dumbbell	1.19	100	

Above profiles are available in split. Diagrams are not to scale.

PVC Waterstop

TYPES OF WATERSTOP




- Ribbed with Centerbulb** – the most common and versatile type used. It is used in expansion, contraction and construction joints, particularly where a large amount of movement is expected. The greater the expected movement, the larger the bulb that should be used.
- Ribbed w/o Centerbulb** – used in construction joints where little or no movement is expected. The ribs provide better watertight sealing than do non-ribbed types.
- Dumbbell w/o Centerbulb** – primarily used in below-grade joints where little or no movement is anticipated.
- Dumbbell with Centerbulb** – used for selected applications where movement, even if transverse or longitudinal, is present.
- Split Ribbed and Dumbbell** – used to eliminate split form work.
- Baseal® Joint Seals** – designed for ongrade installation at the bottom of concrete slabs to prevent upward seepage of ground water through joints, or in thin slab construction, or to waterproof joints at wall/slab junctions.

NOTE: All profiles are available in TPER-Durajoint Thermoplastic Elastomeric Rubber.

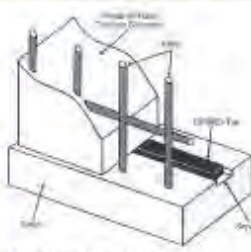
Special Shapes			Baseal® Joint Seals		
	APPROX. WT. LBS. LIN. FT.	HEAD OF WATER FT.	APPROX. WT. LBS. LIN. FT.	HEAD OF WATER FT.	
Type 17 9" x 3/16" high right angle	1.25	50			
Type M1 5" x 1/4" high right angle	0.58	N/A			
Type M2 8 1/2" x 1/4" - "L" shape with a 2 1/2" high stem	1.70	N/A			
Tear Web			Slab Ongrade Joint		
	APPROX. WT. LBS. LIN. FT.	HEAD OF WATER FT.			
Type 16 1/8" x 5"	1.10	N/A	Type 60 1/8" x 7 1/4" without tear web	0.80	N/A
Type 27 1/8" x 6"	0.78	N/A	Type 60A 1/8" x 7 1/4" with tear web	0.80	N/A
Type 28 1/8" x 9"	1.00	N/A	Type 61 3/16" x 9" without tear web	1.52	N/A
Type 270 3/8" x 9"	2.87	150	Type 62 3/16" x 7 1/4" with tear web	1.64	N/A
Crack Inductors			Type 66 1/8" x 6" without tear web		
	APPROX. WT. LBS. LIN. FT.	HEAD OF WATER FT.			
			Type 67 5/32" x 9 27/32" with tear web	1.46	150
Type 45 4" x 1/8" inductor	1.25	N/A	Type 70 1/2" x 9" U - Shape	4.46	N/A
Type 55 6" x 1/8" inductor	1.24	100	Type 320 .118"/3 mm x 9.84"/250mm w/ribs with tear web	1.95	150
Type 325 6" x .118" inductor	2.545	150	Type 420 .118"/3 mm x 9.84"/250mm w/ribs without tear web	1.885	150
			Labyrinth		
	APPROX. WT. LBS. LIN. FT.	HEAD OF WATER FT.			
			Type 25 3 1/4" x 1 5/8" with 3 inside legs	0.95	N/A
			Type 26 4 7/16" x 1 5/8" with 5 inside legs	1.26	N/A

Diagrams are not to scale.

Retro-Fit Waterstop

	APPROX. WT. LBS. LIN. FT.	HEAD UP INCHES FL.	New Concrete Meets Existing Concrete
Type 18 Kit 3/8" T w/ 2 5/8" H stem x 3 3/16" H x 6" W T Shape - 10' sect., 2 - Baton Bars, Screws and Epoxy	2.80	N/A	
Type 18-9 Kit 1/2" T w/ 5 11/16" H stem x 6 3/8" H x 9" W T Shape - 10' sect., 2 - Baton Bars, Screws and Epoxy	4.29	N/A	
Type 29 Kit 3/16" w/ 3" stem x 3" L Shape - 10' sect. Baton Bars, Screws, Epoxy	0.82	N/A	

Hydrophilic Waterstop • EXPAND-Tite



Available in three sizes:

Part #EXP100
3/4" x 1" x 16" roll (6 rolls/carton)
- 100 linear ft./carton

Part #EXP200
3/8" x 3/4" x 25" roll (8 rolls/carton)
- 200 linear ft./carton

Part #EXP150
1/2" x 1-1/4" x 16" roll (6 rolls/carton)
- 100 linear ft./carton

Durajoint EXPAND-Tite is a flexible concrete construction joint waterstop that is easy to install in **non-moving joints**. It is composed of bentonite clay and butyl rubber to withhold its physical integrity after expanding.

EXPAND-Tite expands in a controlled fashion when exposed to moisture and will not expand beyond a point where the hydration process reduces the effectiveness of the waterstop.

When installing **EXPAND-Tite** the concrete surface needs to be dry and free of contamination, **EXPAND-Tite Primer** is also recommended before the placement of the waterstop.

Description	Method	EXPAND-Tite
Color		Black
Specific Gravity	ASTM D-71	1.35±5
Hydrocarbon Content	ASTM D-4	47% min.
Volatile Matter	ASTM D-6	1% max.
Penetration, cone @77°F, 150gm; 5 sec	ASTM D-217	40±5
Application Temp.		-10° to 125°F (-22° to 52°C)
Service Temp.		-30° to 130°F (-34° to 82°C)

Non-Hydrophilic Waterstop • SEAL-Tite



Available in two sizes:

Part #SEA100
3/4" x 1" x 16" roll (6 rolls/carton)
- 100 linear ft./carton


Part #SEA200
1" x 3/8" strips (30 strips/carton)
- 90 linear ft./carton

Durajoint SEAL-Tite is a flexible concrete construction joint waterstop that is easy to install. **SEAL-Tite** will not shrink, oxidize, or harden with age and is rugged in temperatures from 30°F to +200°F.

When installing **SEAL-Tite** the concrete surface needs to be clean, dry and free of contamination. **SEAL-Tite Primer** is also recommended when installing on wet concrete, when temperatures are below 40°F, or in vertical joints.


Description	Method	SEAL-Tite
Color		Black
Specific Gravity	ASTM D-71	1.15-1.50
Hydrocarbon Content	ASTM D-4	50% min.
Volatile Matter	ASTM D-6	2% max.
Penetration, cone @77°F, 150gm; 5 sec	ASTM D-217	50-100
Flash Point, C.O.C., °F	ASTM D92	350°F min.
Fire Point, C.O.C., °F	ASTM D92	375°F min.
Ductility, °F	ASTM D113	5.0 min.
inert Mineral filler % by weight	AASHTO	30% max.

JPS STANDARD WATERSTOP SPLICING IRONS AND PEEL AND STICK TEFLON® COVERS




SMALL WATERSTOP SPLICING IRON
Our most popular waterstop splicing iron. The JP214 is small and lightweight, and capable of welding all but the largest waterstop profiles.

12214 part number 110 volts 1"x2"x14"
12415 part number 220 volts 1"x2"x14"



LARGE WATERSTOP SPLICING IRONS
Large waterstop irons for large profiles.

12414 part number 110 volts .75"x4.5"x14"
12415 part number 220 volts .75"x4.5"x14"
12614 part number 110 volts .75"x6"x14"
12615 part number 220 volts .75"x6"x14"
12620 part number 110 volts .75"x6"x20"
12621 part number 220 volts .75"x6"x20"
12919 part number 110 volts .75"x9"x9"



PEEL AND STICK TEFLON® COVERS
We factory cut our high-quality Teflon® replacement covers, so all you have to do is peel off the release paper and adhere it to the warm iron. No trimming is required.

12213 part number fits JP214 iron
12413 part number fits JP414 iron
12613 part number fits JP614 iron
12619 part number fits JP620 iron
12916 part number fits JP919 iron



Concrete Accessories
Corporate Office

10421 Industrial Drive • Garrettsville, OH 44231
(888) 833-8308 (Toll-Free) or (330) 527-4308 • Fax: (330) 527-2440

LIMITED WARRANTY: Durajoint warrants that its products will be free from defects and will perform in accordance with each product profile specifications, subject to the following conditions: first, the product is applied in accordance with Durajoint's recommendations, and second, the Buyer has selected the proper product profile for the specific application. Durajoint disclaims any responsibility for Buyer's selection of a particular product profile. Product profile selection is the sole responsibility and decision of the Buyer. The suitability of any profile for a specific application requiring fluid resistance is best determined by specific testing for that application. Durajoint encourages the Buyer to conduct its own site application testing. **LIMITATION ON LIABILITY:** Therefore, Durajoint's liability to the Buyer or any third party for any losses or damages, whether direct or otherwise, arising out of the purchase of its product shall be limited to a full refund of the purchase price to the Buyer. In no event shall Durajoint be liable for any incidental or consequential damages.

THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The Buyer and all users of Durajoint product are deemed to have agreed to the terms of this Limited Warranty, which may not be modified except by a written agreement signed by Four Seasons Industries.

0602J

Curing Blankets

Curing Blankets

Grip-Rite concrete curing blankets have the cold weather cure for your climate, your jobsite needs, and your budget.

Curing Blanket Specifications								
Top Cover			Bottom Cover				Insulation	
Style	Material	Test Method: ASTM D751		Material	Test Method: ASTM D751		Foam	Bubble
		Tensile	Tear		Tensile	Tear		
Premium Foam	8 x 8 black 68 g/m ² 550 denier	36 lb./ft. ²	19 lb./ft. ²	8 x 10 red/black 95 g/m ² 650 denier	49 lb./ft. ²	36 lb./ft. ²	1.8 mm/layer	n/a
Premium Bubble	8 x 8 black 68 g/m ² 550 denier	36 lb./ft. ²	19 lb./ft. ²	8 x 10 red 95 g/m ² 550 denier	47 lb./ft. ²	34 lb./ft. ²	0.1 mm/layer	3.5 mm/layer
Economy	8 x 8 black 58 g/m ² 550 denier	34 lb./ft. ²	17 lb./ft. ²	8 x 8 silver 58 g/m ² 550 denier	34 lb./ft. ²	17 lb./ft. ²	1.5 mm/layer	3.5 mm/layer
Buttonless Foam	8 x 8 orange 58 g/m ² 550 denier	49 lb./ft. ²	18 lb./ft. ²	8 x 8 white 85 g/m ² 550 denier	49 lb./ft. ²	18 lb./ft. ²	4 mm/layer	n/a



Product Features:

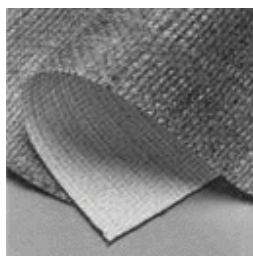
- Grip-Rite concrete curing blankets provide proven jobsite performance in maintaining heat of hydration, particularly during the critical early stages of concrete curing
- Available in three styles, Grip-Rite is the only blanket on the market with a low 0.87 Perm rating, providing superior vapor block during curing
- Each blanket individually wrapped in weather resistant poly tarp and secured with banding
- These blankets stack, ship and store better than any blanket on the market
- Foam blankets: Z-folded and packed 2 per bale
- Bubble blankets: Rolled and packed 1 per bale
- Black polyethylene top and red or silver polyethylene bottom (not aluminized)
- Logo printing and custom colors available

Space Age Concrete Curing Blankets

Curelap - Poly Coated Burlap: Space Age technology combines poly and burlap to give you a summer concrete curing blanket. Midco Burlap Blankets are a combination of 10 oz. burlap and 5 mil white opaque poly. The 5 mil polyethylene is extruded onto the 10-ounce burlap. The result is a lightweight summer curing blanket that can be used over and over again. The burlap layer distributes the water evenly over the covered surface, while the white opaque poly reflects the intense rays of the sun. In this way, the concrete is allowed to cure... perfectly.

Midco Burlap Blankets need no rewetting, no resealing and can be used over and over again. After each use, expose burlap side to the sun or air. In this way, the burlap will dry and be ready to use again quickly.

Blankets available in the following widths: 3 1/2', 5', 6 2/3', 8 1/3', 10', 13 1/2', 15', 16 2/3', 20'. Less seaming allowances of 2" per seam. Meets state specifications and A.A.S.H.T.O - M182 Class II.



FORM COATINGS



DUOGARD®

DUOGARD multi-reactive form release is composed of an organic chemical that reacts with the alkali content of concrete to form a release film that effectively prevents the bonding of the concrete to the form. In addition, the product also contains a high molecular weight and a non-reactive, chemically inert ingredient to assist in clean, quick

form release and removal. These exclusive ingredients combine the effectiveness of a chemically reactive type and an inert barrier type to provide a doubly effective separation ... DUO ... and the ultimate in form release. DUOGARD meets the maximum VOC content limit of 450 g/L for form release compounds as required by the U.S. EPA Architectural Coatings Rule.

DUOGARD can be used on various types of forms (wood, steel, fiberglass, aluminum, as well as fiber tubes.) Wood forms should be saturated prior to first use. DUOGARD increases the life of wood forms by penetrating into the wood to waterproof and prevent deterioration. It also reduces maintenance requirements on metal forms by forming a rustproof film that makes the metal form essentially self-cleaning and rust-free.

DUOGARD should be applied to fiber tube forms, even though they may be pre-coated. Tubes will strip much easier, even 60 to 90 days later. If tubes are stripped in 5 to 10 days, hand rubbing is greatly facilitated when tubes are coated with DUOGARD.

DUOGARD also cuts machine clean up time because it minimizes concrete build-up. Pavers, trucks, mixers, spreader-finishers, buggies, chutes and other types of equipment should be sprayed daily with DUOGARD for easy clean up and rust prevention.

DUOGARD can be applied on forms for pre-stressed and pre-cast concrete to produce a better and cleaner cast. The product will not stain or discolor concrete.

DUOGARD Specifications

VOC Compliant Form Release Agent

Packaging

5 Gallon (18.93 Liter) Pails

55 Gallon (208.20 Liter) Drums

Coverage

600-1500 sq. ft./gal. (14.7-36.8 sq. m/L), depending on the type and porosity of the form surface.

Specifications

DUOGARD meets maximum VOC content of 450 g/L for Form Release Compounds as required by the U.S. EPA Architectural Coatings Rule.



DUOGARD II

DUOGARD II form release agent is composed of organic chemicals emulsified in water, which react with the alkali content of concrete to form a release film that effectively prevents the bonding of the concrete to the form. In addition, the product also contains a high molecular weight, non-reactive, chemically inert ingredient to assist

in clean, quick form release and removal. This exclusive combination of physical and chemical reactive components provides a doubly effective separation ... DUO ... and the ultimate in form release efficiency. DUOGARD II meets the maximum VOC content limit of 450 g/L for form release compounds as required by the U.S. EPA Architectural Coatings Rule.

DUOGARD II form release agent can be used on various types of forms (wood, steel, as well as fiberglass, aluminum and fiber tubes.) DUOGARD II increases the life of wood forms by penetrating into the wood to waterproof and prevent deterioration. It reduces maintenance requirements on metal forms because it forms a rustproof film that makes the metal form essentially self-cleaning and rust-free.

DUOGARD II should be applied to fiber tube forms even though they may be pre-coated. Tubes will strip much easier, even 60 to 90 days later. If tubes are stripped in 5 to 10

days, hand rubbing is greatly facilitated when tubes are coated with DUOGARD II.

DUOGARD II cuts machine cleanup time and minimizes concrete build-up. Pavers, trucks, mixers, spreader-finishers, buggies, chutes, and other types of equipment should be sprayed daily.

DUOGARD II can be applied on forms for pre-stressed and pre-cast concrete to produce a better and cleaner cast. The product will not stain or discolor concrete.

DUOGARD II Specifications

Water-Base Form Release Agent

Packaging

5 gallon (18.93 Liter) Pails

55 gallon (208.20 Liter) Drums

Coverage

600 to 1,500 sq. ft./gal. (14.73 to 36.82 sq.m./L), depending on the type and porosity of the form surface.

The following coverage rates are approximate:

Form Surface	sq. ft./gal.
Hard & Smooth	1,500 (approx.)
Pre-Oil Plywood	1,000 (approx.)
Untreated Plywood	600 (approx.)

Specifications

DUOGARD II meets maximum VOC content limits of 450 g/L for Form Release Compounds as required by the U.S. EPA Architectural Coatings Rule.

CONCRETE CURING COMPOUNDS



1100-CLEAR

The 1100-CLEAR series of water-base concrete curing compounds are formulated from hydrocarbon resins and may be used on interior, exterior, vertical and horizontal concrete surfaces. Once applied, the compound forms a liquid membrane that retains an optimum amount of water present

in freshly placed concrete to allow complete hydration of the cement. When the curing cycle is complete, the membrane will eventually dissipate from the surface.

The 1100-CLEAR series meets maximum Volatile Organic Compound (VOC) content limit of 350 g/L for concrete curing compounds, as required by the U.S. EPA Architectural Coatings Rule.

The 1100-CLEAR series has been used on both interior and exterior applications where paint, resilient tile or resilient flooring was applied later.

1100-CLEAR Series Specifications

Resin-Base, Water-Base Concrete Curing Compounds

Packaging

5 gallon (18.93 Liter) Pails

55 gallon (208.20 Liter) Drums

Coverage

Approximately 200 sq. ft./gal. (4.91sq. m/L).

Specifications

ASTM C 309, Type 1, Classes A & B

(Type 1-D also available)

AASHTO M 148, Type 1, Classes A & B

(Type 1-D also available)



1200-WHITE

The 1200-WHITE series of water-base, white pigmented curing compounds are resin-base dispersions with selected white pigment. When properly applied, the compound provides an impermeable film, which optimizes water retention. The white pigment

reflects the sun's rays to help keep the concrete surface cooler and helps prevent excessive heat build-up.

1200-WHITE meets the maximum VOC content limit of 350 g/L for concrete curing compounds as required by the U.S. EPA Architectural Coatings Rule.

1200-WHITE is ideal for application on exterior, horizontal surfaces, such as highways, airports, and street and curb paving – the product provides excellent curing when protection from the sun's heat is desired.

1200-WHITE SERIES Specifications

Water-Base, Resin-Base Concrete Curing Compounds

Packaging

5 gallon (18.93 Liter) Pails

55 gallon (208.20 Liter) Drums

Coverage

Approximately 200 sq. ft./gal. (4.91 sq. m/L).

Specifications

ASTM C 309, Type 2, Class B

AASHTO M 148, Type 2, Class B

F.A.A. Item P-610-2.11 (e)

Formulated specifically for Federal, State, County and Municipal highway and airport paving projects



MED-CURE™

MED-CURE concrete curing compound was specially formulated to supplement the W. R. MEADOWS line of curing compounds and provide the contractor with a good, general purpose curing compound for construction applications

where economy is of prime importance. It contains no wax, resin or acids. MED-CURE meets the maximum VOC content limit of 350 g/L for concrete curing compounds as required by the U.S. EPA Architectural Coatings Rule.

MED-CURE is ideal for curing, hardening and dustproofing exposed concrete floor slabs, sidewalks, driveways, beams, columns, etc. It can be used to provide a hard, dust-free surface on concrete floors to be painted or covered by resilient, carpeted, wood or synthetic flooring.

MED-CURE Specifications

Concrete Curing Compound & Hardener

Packaging

5 gallon (18.93 liter) Pails

55 gallon (208.20 liter) Drums

Coverage

Broomed Surface: 400 sq.ft./gal. (9.82 sq.m/L)

Troweled Surface: 600 sq.ft./gal. (14.73 sq.m/L)

Specifications

MED-CURE meets maximum VOC content limits of 350 g/L for Concrete Curing Compounds as required by the U.S. EPA Architectural Coatings Rule.

CURING AND SEALING



VOCOMP-30

VOCOMP-30 is a ready-to-use, 30% solids, concrete curing and sealing compound formulated of special acrylic polymers in a true water-base carrier. VOCOMP-30 provides improved resistance to rain, sun, freezing temperatures, most acids and industrial chemicals, petroleum, de-icing salts, cleaning agents (except aromatic

solvents), diluted caustics and other pollutants.

Color-wise, VOCOMP-30 appears "milky-white" in the container and when first applied, leaves a "bluish" cast on the concrete for easy visual coverage. VOCOMP-30 dries clear to provide a transparent sheen finish. This sheen can be controlled by the number of coats applied. VOCOMP-30 meets the maximum VOC content limit of 700 g/L for concrete curing and sealing compounds as required by the U.S. EPA Architectural Coatings Rule.

VOCOMP-30 may be used wherever a thicker film, with a medium to high sheen, is desired to bring out the natural beauty of concrete without discoloring, checking or peeling. When properly applied, VOCOMP-30 provides an impermeable seal for superior moisture protection. It may be applied to simultaneously cure, seal and dustproof new and old, interior and exterior, and horizontal and vertical concrete surfaces. VOCOMP-30 is ideal for curing, sealing and dustproofing driveways, sidewalks, patios, swimming pool areas and commercial and industrial floors. Horizontal surfaces protected with VOCOMP-30 offer excellent wearing qualities for foot and vehicular traffic. If, after prolonged usage, traffic patterns appear, the surface can be washed clean and recoated to restore the original beauty.

VOCOMP-30 Specifications

Water-Base Acrylic Concrete Curing And Sealing Compound

Curing and Sealing

Packaging

- 1 Gallon (3.79 Liter) Units (4 per case)
- 5 Gallon (18.93 Liter) Pails
- 55 Gallon (208.20 Liter) Drums

Coverage

- Broomed Surface: Approximately 300 sq.ft./gal. (7.35 sq.m/L).
- Troweled Surface: Approximately 500 sq.ft./gal. (12.26 sq.m/L).

Specifications

- ASTM C 1315, Type I, Class A
- ASTM C 309, Type 1, Class B
- AASHTO M 148, Type 1, Class B
- USDA Accepted



VOCOMP®-25

VOCOMP-25 water-base acrylic concrete curing and sealing compound is formulated of special acrylic polymers in a true water-base carrier. VOCOMP-25 provides improved resistance to rain, sun, freezing temperatures, most acids and industrial chemicals, petroleum, de-icing salts, cleaning agents

(except aromatic solvents), diluted caustics and other pollutants.

Color-wise, VOCOMP-25 appears "milky-white" in the container and when first applied, leaves a "bluish" cast on the concrete for easy visual coverage. VOCOMP-25 dries clear to provide a transparent sheen finish. This sheen can be controlled by the number of coats applied. VOCOMP-25 meets the maximum VOC content limit of 700 g/L for concrete curing and sealing compounds, as required by the U.S. EPA Architectural Coatings Rule.

VOCOMP-25 may be used wherever a medium to high sheen is desired to bring out the natural beauty of concrete without discoloring, checking or peeling. It may be applied to simultaneously cure, seal and dustproof new and old, interior and exterior and horizontal and vertical concrete surfaces. VOCOMP-25 is ideal for curing, sealing and dustproofing driveways, sidewalks, patios, swimming pool areas and commercial and industrial floors. Horizontal surfaces protected with VOCOMP-25 offer excellent wearing qualities for foot and vehicular traffic. If, after prolonged usage, traffic patterns appear, the surface can be washed clean and recoated to restore the original beauty.

VOCOMP-25 Specifications

Water-Base Acrylic Concrete Cure & Seal

Packaging

- 1 gallon (3.79 Liter) Units (4 per case)
- 5 gallon (18.93 Liter) Pails
- 55 gallon (208.20 Liter) Drums

Coverage

- Broomed Surface: Approximately 300 sq.ft./gal. (7.35 sq.m/L).
- Troweled Surface: Approximately 500 sq.ft./gal. (12.26 sq.m/L).

Specifications

- ASTM C 1315, Type I, Class A
- ASTM C 309, Type 1, Class B
- AASHTO M 148, Type 1, Class B
- USDA Accepted



VOCOMP-20

VOCOMP-20 water-base acrylic curing and sealing compound is formulated of special acrylic polymers in a true water-base carrier. Once properly applied, VOCOMP-20 provides an impermeable seal for efficient moisture retention.

Color-wise, VOCOMP-20 appears "milky white" in the container and, when first applied, leaves a "bluish" cast on the concrete for easy, visual identification of coverage. VOCOMP-20 dries clear to provide a transparent sheen finish. This sheen can be controlled by the number of coats applied. VOCOMP-20 resists yellowing due to ultraviolet degradation and provides a durable, long-lasting finish that offers improved resistance to chemicals, petroleum and abrasives.

VOCOMP-20 will minimize hair checking, premature cracking, dusting and spalling. VOCOMP-20 meets the maximum VOC content limit of 350 g/L for concrete curing compounds as required by the U.S. EPA Architectural Coatings Rule.

VOCOMP-20 water-base acrylic curing and sealing compound may be quickly and easily applied to simultaneously cure and/or seal new, interior and exterior and vertical and horizontal concrete surfaces. It is ideal for application on commercial and industrial floors, sidewalks, basement and garage floors, multi-level parking decks, patios, driveways and parking areas. VOCOMP-20 dries very quickly to protect and enhance the natural appearance of concrete.

VOCOMP-20 Specifications

Water-Base Acrylic Curing And Sealing Compound

Packaging

- 1 gallon (3.79 liter) Containers
- 5 gallon (18.93 liter) Pails
- 55 gallon (208.20 liter) Drums

Coverage

- Approximately 300 sq. ft./gal. (7.36 sq m/L).
- Coverages may vary due to porosity and condition of the concrete.

Specifications

- ASTM C 309, Type 1, Class B
- AASHTO M 148, Type 1, Class B
- USDA Accepted
- Complies with the ultraviolet light degradation – yellowing classification of ASTM C 1315, Class A, Section 6.4.1.

CC-309-1WS

CC-309-1WS water-base concrete curing compound is formulated from hydrocarbon resins and may be used on interior, exterior, vertical and horizontal concrete surfaces. Once applied, it forms a liquid membrane that retains an optimum amount of water present in freshly placed concrete to allow complete hydration of the cement. When the curing cycle is complete, the membrane will eventually wear off the surface. This process usually takes another three to five weeks under normal traffic and weathering conditions.

CC-309-1WS meets the maximum Volatile Organic Compound (VOC) content limit of 350 g/L for concrete curing compounds as required by the U.S. EPA Architectural Coatings Rule.

CC-309-1WS has been used on both interior and exterior applications where paint, resilient tile or resilient flooring was applied later.

CC-309-1WS Specifications

Water Base, Resin Base, Concrete Curing Compound

Packaging

- 5 gallon (18.93 L) pails
- 55 gallon (208.20 L) drums
- 275 gallon (1040.99 L) drums

Coverage

- Approximately 200 sq. ft./gal. (4.91 sq. m/L).

Specifications

- ASTM C 309, Type 1, Classes A & B (Type 1-D also available)
- AASHTO M 148, Type 1, Classes A & B (Type 1-D also available)
- CALTRANS System 4

CC-309-2WS

CC-309-2WS water-base, white pigmented curing compound is a resin-base dispersion with selected white pigments. When properly applied, the product provides an impermeable film, which optimizes water retention. The white pigment reflects the sun's rays to help keep the concrete surface cooler and helps prevent excessive heat build-up.

CC-309-2WS meets the maximum Volatile Organic Compound (VOC) content limit of 350 g/L for concrete curing compounds as required by the U.S. EPA Architectural Coatings Rule.

CC-309-2WS is designed for application on exterior, horizontal surfaces such as highways, airports and street and curb paving – the product provides excellent curing when protection from the sun's heat is desired.

CC-309-2WS Specifications

Water Base, Resin Base, Concrete Curing Compound

Packaging

- 5 gallon (18.93 L) pails
- 55 gallon (208.20 L) drums
- 275 gallon (1040.99 L) drums

Coverage:

- Approximately 200 sq. ft./gal. (4.91 sq. m/L).

Specifications

- ASTM C 309, Type 2, Class B
- AASHTO M 148, Type 2, Class B
- CALTRANS System 2
- FAA Spec. Item 610-2.11(e)
- Formulated specifically for federal, state, county and municipal highway and airport paving projects

CONCRETE HARDENING



LIQUI-HARD®

LIQUI-HARD concrete densifier and chemical hardener compound is a ready-to-use, colorless liquid, consisting of active chemicals that deeply penetrate the surface of concrete. LIQUI-HARD is specifically designed to produce hardened, dustproofed and improved chemically resistant surfaces wherever it is applied. Through a chemical reaction process, LIQUI-HARD penetrates progressively through the concrete and chemically solidifies all the component parts into a homogenous concrete mass. Besides its densifying and hardening action, LIQUI-HARD solidifies the concrete, eliminating dusting, rotting and pitting.

LIQUI-HARD meets the maximum VOC content limit of 400 g/L for concrete protective coatings as required by the U.S. EPA Architectural Coatings Rule.

LIQUI-HARD is recommended for use wherever hardening, dustproofing and improved chemically resistant surfaces are required. Ideal applications include floors in industrial plants and warehouses, storage silos, sewage plants, chemical processing facilities, refineries and heavy pedestrian floor traffic areas, such as civic centers, sports arenas, stadiums, hospitals, airports and museums. LIQUI-HARD can successfully be used in conjunction with shake-on hardeners.

LIQUI-HARD Specifications

Concrete Densifier And Chemical Hardener

Packaging

- 5 gallon (18.93 Liter) Pails
- 55 gallon (208.2 Liter) Drums

Coverage/Application Rate

Type of Surface	sq. ft./gal.	sq. m/L
Broomed:	200-300	4.91-7.36
Troweled:	300-500	7.36-12.27
Fresh (New):	200-300	4.91-7.36
Existing (Old):	150-250	3.68-6.14

Specifications

- LIQUI-HARD meets maximum VOC content limits of 400 g/L for Concrete Protective Coatings as required by the U.S. EPA Architectural Coatings Rule.

We Deliver

CURE

PREP & CLEAN

SEAL & PROTECT

For Newly Poured Concrete

Use **ConCure** immediately after new concrete is poured. Allow approximately 28 days for new concrete to cure prior to applying any GST Sealer.



Where Efflorescence, Rust or Cement Scale is Present

Use **Efflorescence Remover** to eliminate the white, chalky deposits.

Use **Clean Concrete** to remove rust, cement staining and efflorescence.



Where Cleaning is Needed or Efflorescence Remover Has Been Used

Use **Pro-Grade Cleaner** to thoroughly clean and prepare the surface prior to applying any of the GST sealers.

Use **ProGrade Cleaner** to neutralize pH where **Efflorescence Remover** or **Clean Concrete** was used.

Choose an Invisible or Appearance Enhancing Sealer

To be applied after the surface is clean and dry.

Choose an Appearance Enhancing Sealer:

- Low Sheen Wet Look Lacquer
- High Gloss Wet Look Lacquer
- Lock 'N Seal
- Satin Seal
- Stone Enhance
- Ultacryl
- Final Coat

Choose an Invisible Sealer:

- Water Block
- Stain Block Elite



Product Characteristics:

Use with:

Product Guide

	High Gloss	Low Sheen	Satin	Invisible	Light Enhancement	Heavy Enhancement	Repels Water	Repels Grease and Oil	Resists Stains	Resists Efflorescence	Removes Oil, Grime	Removes Rust, Efflorescence	Indoor applications	Outdoor applications	Porous Surfaces	Dense Surfaces	Concrete, Exposed Aggregate	Pavers and Slabs	Concrete Block Walls	Brick, Masonry	Natural Stone & Travertine	Manufactured Stone	Synthetic Floors	Tiles
High Gloss Wet Look	✓				✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Sheen Wet Look		✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High Gloss Low VOC	✓				✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Sheen Low VOC		✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lock n Seal			✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Satin Seal			✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ultacryl	✓				✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Final Coat	✓				✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stain Block Elite				✓			✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stone Enhance					✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water Block				✓			✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pro-Grade Cleaner											✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Efflorescence Remover												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean Concrete											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

All products are available in standard one gallon and five gallon sizes. 55 gallon drums and 275 gallon totes are also available upon request.

Curing and Sealing



SURE-STEP™

SURE-STEP slip-resistant additive is a finely ground polymer material for addition to concrete sealers for slip resistance. This additive can be added to most film-forming water and solvent-based sealers, including the CS-309™, SEAL-CURE™ and VOCOMP series, as well as TIAH and DECRA-SEAL™ from W. R. MEADOWS. Please consult sealer manufacturer prior to using, if using a product not listed above.

SURE-STEP provides improved chemical and abrasion resistance, and is more comfortable to bare feet on treated surfaces than sand or aggregate additives. The product's low density and insolubility characteristics will help reduce settling and provide optimum performance in its various applications, without changing the viscosity. Due to its low density, SURE-STEP stays suspended in thin materials.

SURE-STEP is perfect for use on areas where a non-slip surface is desired. This includes walkways, driveways, garage floors, patios and other surfaces.

SURE-STEP™ Specifications

Slip-Resistant Additive

Packaging: 16 oz. Containers (12/carton)

Coverage : The 16 oz. container is recommended for five gallon pails.

TOP-STOP™

TOP-STOP is a spray-applied, water-soluble surface retarder designed to slow the set of surface mortar in concrete to expose the aggregate. It temporarily halts the set of Portland cement at the surface while the concrete below the surface cures normally. TOP-STOP is economical and easy-to-use, producing beautiful exposed aggregate concrete flatwork with consistent results. It is non-flammable and VOC compliant.

TOP-STOP may be used to produce an architectural finish on concrete slabs by exposing the natural color and texture of the aggregate. TOP-STOP exposes the aggregate on floor slabs, sidewalks and tilt-up and pre-cast panels or any normal horizontal concrete application. It produces roughened bonding surfaces for subsequent concrete toppings and roughens horizontal surfaces for construction joints in power plants, dams and other civil engineering projects. The rough finish obtained from using TOP-STOP may be used as a mechanical key for later concrete lifting or rendering.

TOP-STOP™ Specifications

Spray-Applied, Water-Soluble Surface Retarder

Packaging: 1-gallon (3.79 L) container; 5-gallon (18.93 L) pails

Coverage**: Approximately one gallon per 150-300 sq. ft. to retard the exposed aggregate to a depth of 1/8" (0.32 cm) to 3/16" (0.48 cm).

**Coverage may vary due to porosity and condition of the concrete



MASTERKURE ER50

Evaporation Reducer

DESCRIPTION

MasterKure ER 50 evaporation reducer reduces surface moisture evaporation from freshly placed concrete, especially in rapid drying conditions, such as high concrete surface or ambient temperatures, low humidity, high winds, direct sunlight, or work in heated interiors during cold weather.

YIELD

One gallon (3.8 L) of MasterKure ER 50 mixed with nine gallons (34.1 L) of water yields 10 gallons (37.9 L) of sprayable solution. 10 gallons of MasterKure ER 50 solution (1 to 9) should cover 2,000–4,000 ft² (186–372 m²) of fresh concrete. If more than one application is required, e.g., in adverse drying conditions, additional material will be required.

Packaging

1 gallon (3.8 L) cans
5 gallon (18.9 L) palls
55 gallon (208 L) drums



Shelf Life

1 year when properly stored

Storage

Store in unopened containers in a clean, dry area between 40 and 90 degrees Fahrenheit (4 and 32 degrees Celsius). Keep from freezing.

For Best Performance

- Do not apply MasterKure ER 50 as a final finishing aid or work it into the surface of cast-in-place concrete or cementitious repair applications.
- MasterKure ER 50 evaporation reducer is not a curing agent. Concrete treated with this product must still be cured.
- BASF is not responsible for compatibility or results when MasterKure ER 50 evaporation reducer is used with other manufacturers' products.
- MasterKure ER 50 reduces evaporation only while concrete is plastic. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membrane curing compounds.
- Protect MasterKure ER 50 from freezing. Extreme cold may cause segregation, from which the product cannot be reconstituted.

- Do not allow any spills or residue of MasterKure ER 50 concentrate to dry on the surface of hardened concrete. Wipe up immediately, then rinse the surface with water. If the concentrate residue dries on hardened concrete, a reddish-brown stain may appear.

- For a detailed technical discussion about the action of monomolecular films typified by MasterKure ER 50, refer to the Journal of the American Concrete Institute, Volume 62, pp. 977–985.
- MasterKure ER 50 product may be used in precast/prestressed concrete applications, such as drainage structures, double-tee beams, bridge girders and concrete piles, to prevent/minimize tearing and improve surface finish.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of product data sheet and SDS are being used; visit www.master-builders-solutions.basf.us to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

Features

- Does not affect concrete strength (early and ultimate), abrasion resistance, and durability
- Reduces or eliminates crusting, stickiness, and underlying sponginess resulting in a consistent surface
- Allows reduced slump and water content in concrete to facilitate proper hydration of high-strength mixtures
- Reduces surface moisture evaporation approximately 80% in wind and approximately 40% in sunlight to reduce plastic shrinkage cracking and wind crusting
- Prolongs surface plasticity for longer working time in hot, dry, or windy conditions

Benefits

- Does not alter concrete strength (early and ultimate), abrasion resistance, and durability
- Helps prevent unevenness and poor surface texture
- Facilitates proper hydration of high-strength mixes
- Reduces plastic shrinkage cracking and wind crusting

- Makes air entrainment possible in rapid-drying conditions
- Allows for longer working time in hot, dry, or windy conditions; timing of finishing is less critical, reducing overall cost

Where to Use APPLICATIONS

- Concrete surfaces where the evaporation rate exceeds the bleed rate
- Air-entrained and non-air-entrained concrete
- Silica-fume concrete
- Concrete containing fly ash

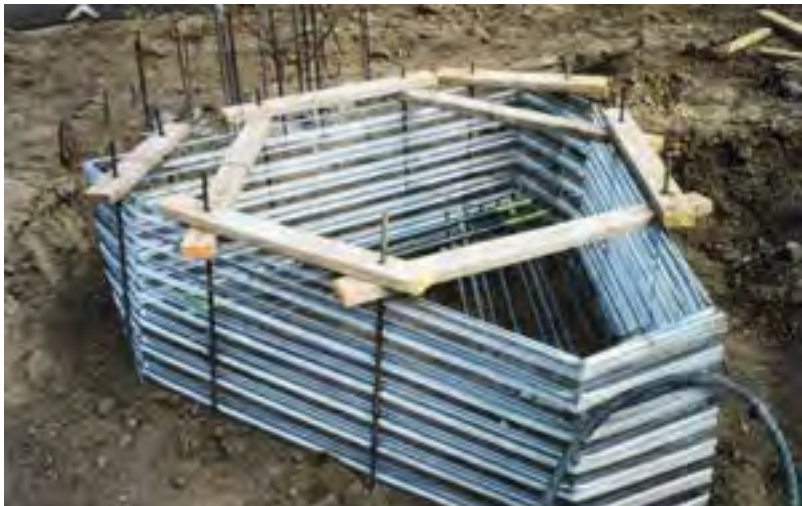
LOCATION

- Horizontal and vertical surfaces
- Interior or exterior

How to Apply Application

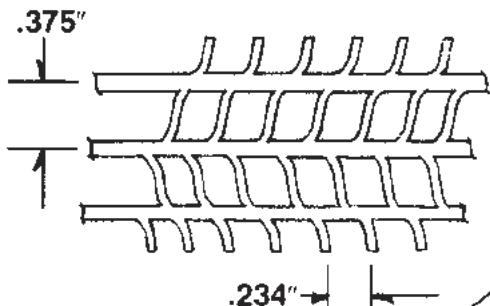
1. Agitate MasterKure ER 50 before mixing with water. Depending on the application, mix at a ratio of up to 1 part MasterKure ER 50 concentrate to 9 parts water. Re-agitate mixed materials before applying.
2. Apply with a constant-pressure or industrial sprayer.
3. MasterKure ER 50 forms a monomolecular film when sprayed onto the concrete surface immediately after screeding or between finishing operations (as needed). The protective shield of MasterKure ER 50 usually lasts as long as the concrete remains plastic, despite succeeding floating operations. When applying surface hardeners using the delayed application method, use MasterKure ER 50 after screeding. When applying surface hardeners using the early application method, use MasterKure ER 50 only after the specified quantity of dry shake has been incorporated into the concrete by floating and after the first floating operation, if necessary.
4. Treated surfaces are easily distinguished from untreated surfaces because of the greenish-yellow color of the film in the presence of moisture and light. The fluorescent tint of the film disappears completely upon drying. The residue remaining on the surface of hardened concrete does not impair bonding or alter color.

Expanded Metal Rib

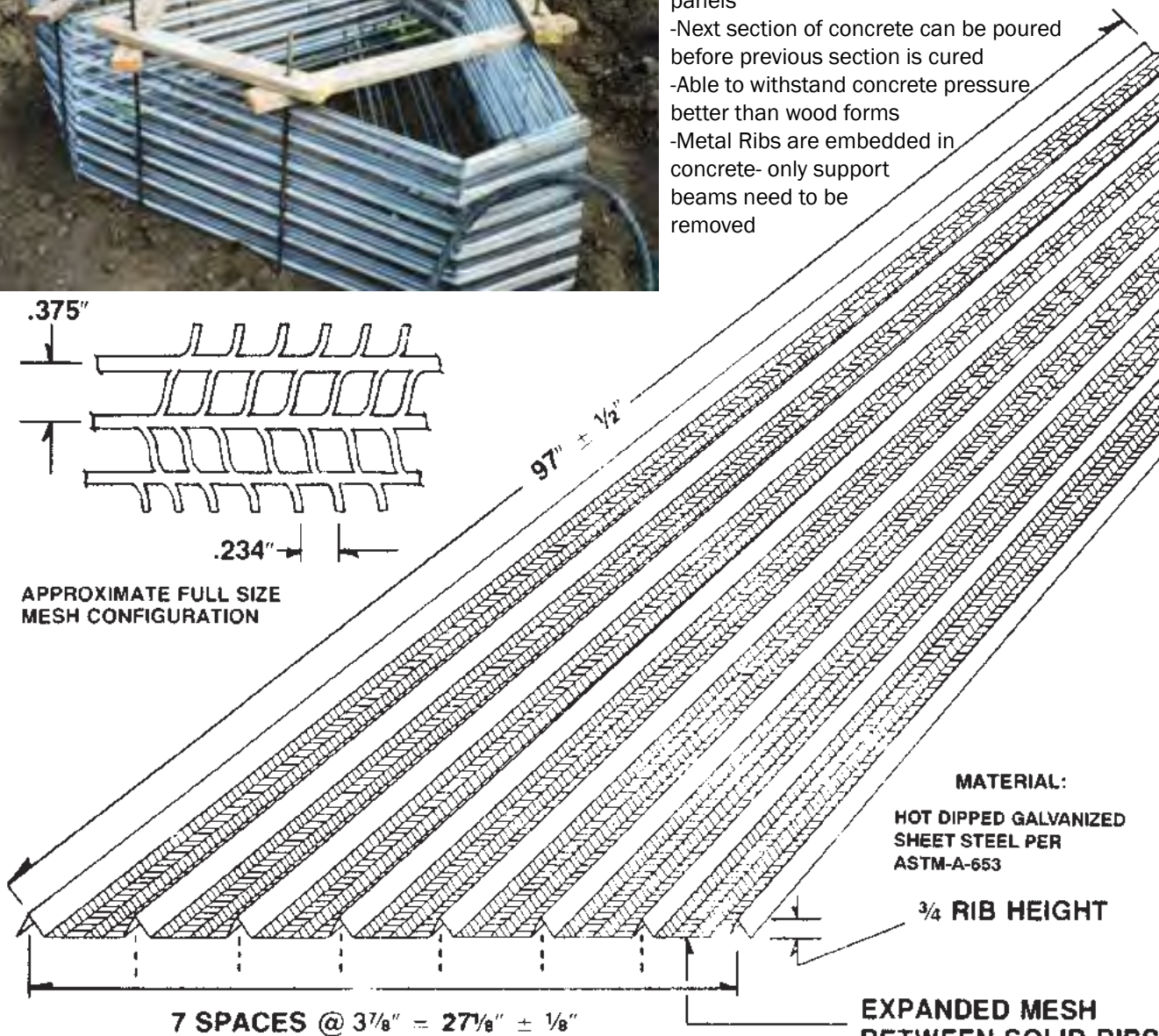


Metal Ribs are leave in place, concrete forms that are effective in shaping for bulkheads, pile caps, grade beams, column and beam posts and construction joints.

- More efficient than conventional plywood forming panels
- Next section of concrete can be poured before previous section is cured
- Able to withstand concrete pressure better than wood forms
- Metal Ribs are embedded in concrete- only support beams need to be removed



APPROXIMATE FULL SIZE MESH CONFIGURATION

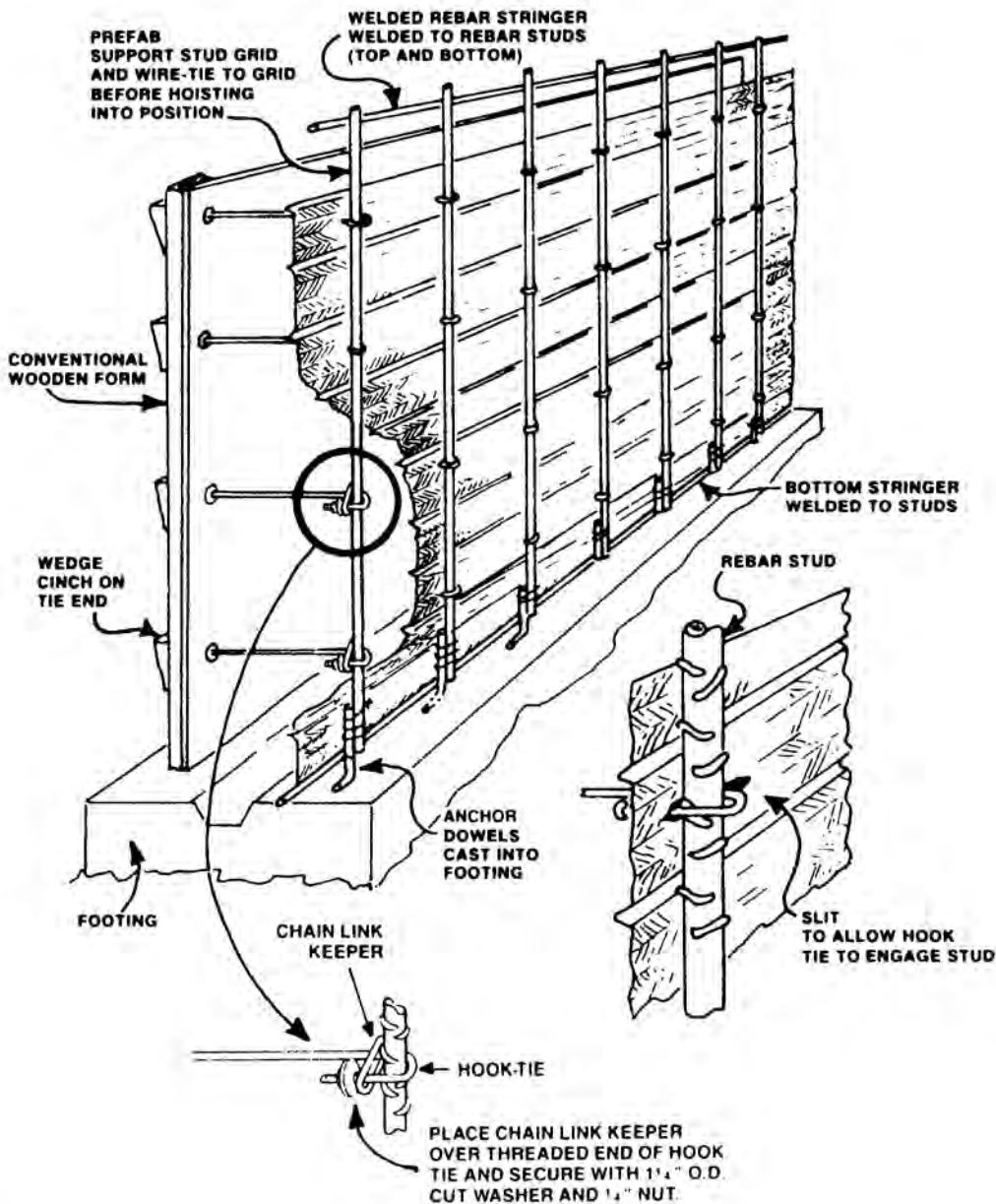


Properties	Metal Rib
Sheet Size, Surface Sheet	27" x 97", 18 Sq. Ft.
Qty Per Pallet	250 Sht.
Rib Space, Overlap	3.8, 3" at Overlap
Tire Wire Spacing, Support Spacing	6", 24" at 210 psf
Weight per Sq. Ft, Sheet Thickness	.66 lb, 26 Ga.

Expanded Metal Rib

GUIDE-LINE LOADING SPECIFICATIONS
Support Spacing (Running Perpendicular to Stay-Form Ribs)

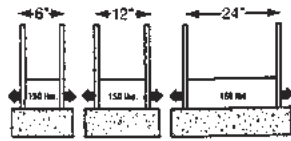
Support Spacing	40 in. On Center		30 in. On Center		24 in. On Center		16 in. On Center	
St Type	#66	#77	#66	#77	#66	#77	#66	#77
Lateral Loading (psf)	212	250	391	460	612	720	1360	1600
Liquid Head (ft.)	1.4	1.7	2.6	3.1	4.1	4.8	9.1	10.7
Pour Rate (ft./hr.)	0.3	0.6	1.3	1.7	2.6	3.2	6.1	10.7
Maximum Deflection (in.)	2.54	2.54	1.42	1.42	0.92	0.92	0.43	0.43



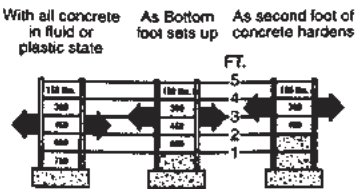
Forming hardware available for rental, please call or email us for details

General & Technical Information

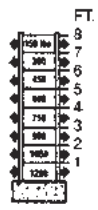
Points to Remember



Fluid or plastic concrete exerts the same side pressure on forms regardless of their width.

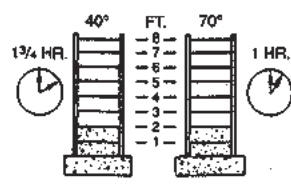


As concrete hardens, lateral pressure on forms decreases.



As you add more fluid or plastic concrete to forms, the pressure will build up toward the bottom at about the rate of 150 pounds per foot of depth. This will be true as long as all concrete remains in a plastic state.

Example: Eight feet of fluid or plastic concrete bears on the bottom foot of forms with a pressure of 8 x 150 pounds or 1200 pounds per square foot.

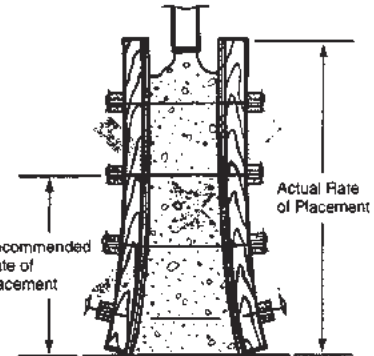


Concrete sets up or hardens faster with an increase in temperature.

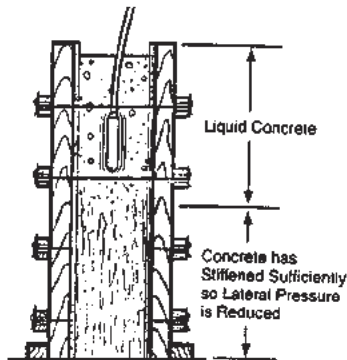
Example: At 70°F concrete sets in approximately 1 hour. At 40°F concrete will set up in about 1-3/4 hours.

1. Do not exceed the recommended rate of placement and do not continue to place concrete in the bottom if the form is still in a liquid state. A form failure may result.
2. Do not use forming accessories with underrated working parts.
3. All forming accessories and related hardware must be of proper length, diameter and capacity. If a greater safety factor is necessary for any reason, the user must reduce the safe working load accordingly.
4. Extreme caution must be used when welding any forming system item. Welding may effect material properties resulting in lower product performance. It is necessary to have a good working knowledge of materials, heat treating and welding procedures before welding any forming accessory.

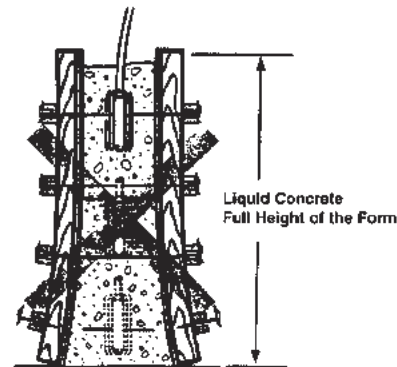
Wrong



Right



Wrong



Wall Form Hardware - Available For Rent

- Snaptie Wedges • Snaptie Wrench • Single Waler Forming Systems • Gang Form Hardware • Taper Ties •
 Waler Rods • Nut Washer • Waler Brackets • Column Clamps • Corner Locks • Ellis Shore Clamps
 Form Aligner Braces • Scaffold Jacks • Safety Rail Brackets • Bridge Overhang Brackets

There's more to this tie than meets the eye.

Sansoe Snapties are manufactured from the highest grade materials under rigid quality control to ensure outstanding performance. With the quality and service you have come to expect from Sansoe Products, you can be sure of getting the breaks when you need them.



For single water systems, too.

Sansoe quality is also available in a flat end tie designed to break with the clamp in place. Available in low strength only.



Wall Form Design Pressure Chart
Maximum Lateral Pressure PSF for Design of Wall Form

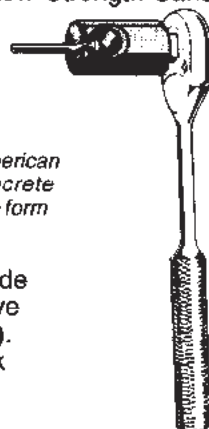
Rate of Placement ft/hr	1	2	3	4	5	6	7	8	9	10
Maximum	90F 250	350	450	550	650	750	850	881	912	943
Lateral Pressure	80F 262	375	488	600	712	825	938	973	1008	1043
PSF for Temperature Indicated	70F 278	407	536	664	793	921	1050	1090	1130	1170
	60F 300	450	600	750	900	1050	1200	1246	1293	1340
	50F 330	510	690	870	1050	1230	1410	1466	1522	1578
	40F 375	600	825	1050	1275	1500	1725	1795	1865	1935

NOTE: For wall forms do not use design pressure over 2000 PSF
ACI Publication SP-4-ACI 347-68

Specifications

High Strength Sansoe Snapties are manufactured from 4 gauge high carbon spring wire with heat treated head washers and 1 X 1 plastic spreader cones made of high impact styrene plastic. High Strength Sansoe Snapties provide a safe working load of 3500 lbs. with an average ultimate load of 7000 lbs. **Adequate end clamps are required to develop safe working loads.**

Low Strength Sansoe Snapties are manufactured from medium high carbon wire with standard head washers and 1 X 1 plastic spreader cones made of high impact styrene plastic. Low Strength Sansoe Snapties provide a safe working load of 2250 lbs. with an ultimate average load of 4500 lbs. **Adequate end clamps are required to develop safe working loads.**



Safe working loads stated above are based on the American Concrete Institute's recommended practice for concrete formwork. A safety factor of 2:1 is required for all concrete formwork applications.

Sansoe Snaptie Wrenches are custom made hardened steel sockets that will fit on 1/2" drive ratchet handles (ratchet handles not included). Sansoe Snaptie Wrenches are designed to break both High Strength and Low Strength Sansoe Snapties.

Standard Snaptie

Long and Short End



Waterseal Snaptie



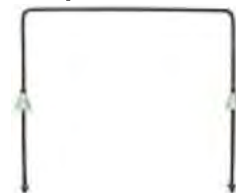
Spandrel Snaptie



Blockwall Snaptie



Blindwall Snaptie



Expanded Metal Snaptie



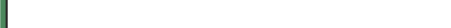
Threaded Snaptie

Available with breakbacks



Architectural Snaptie

with 1" or 2" Rubber Sleeves



Inner Rods



J-Rods



Engineering Fabric Pin



Feed Thru Snaptie

Commonly used in Gang Form applications. The cones are shaped like a football to allow easy feed thru after forms are set in place.



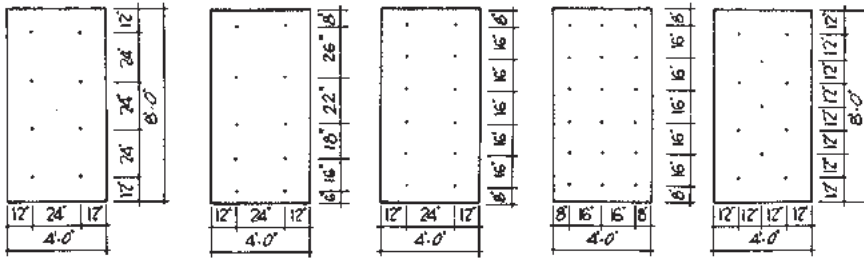
Cones Available

3/4" x 1" - 1" x 1" - 1" x 1 1/2" - 1 1/4" x 1 1/2" - 1" x 2"

Available in black, galvanized, and stainless steel

Custom sizes available

SNAP-TIE SPACING



8 HOLE 24"x24" tie spacing uses the fewest ties and is for low walls, slow rate of pour, or where the work is backfilled.

STAGGERED SYSTEM uses only 10 ties. Suitable for fast pours to 8' heights. Mark panels for one-way up erection.

16"x24" spacing is for all purpose work. Most pours can be done using this tie spacing.

16"x16" SPACING is for fast pour rates or architectural finishes.

THE ELEVEN HOLE ADAPTATION ON THE 24"x24" snap-tie layout shown at left retains the advantages of the eight-hole layout and permits faster rates of pour with any height walls. It is the most versatile and economical snap-tie spacing.

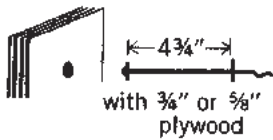
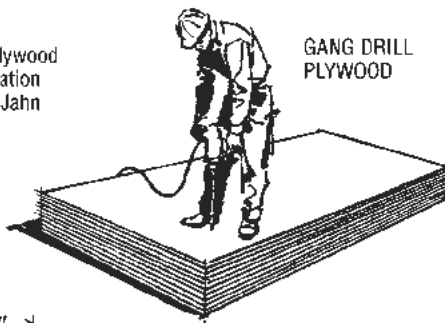
Panels drilled with eight holes now in use may be adapted to this eleven-hole layout and the panel may then be used as a 8, 9, 10, or 11-hole, depending on pressures. The panels may be used horizontally or vertically in any combination.

In practice, rarely more than 9 or 10 ties are needed per 4'x8' panel.

SNAP-TIE SPACING WILL DEPEND ON THE TEMPERATURE, RATE-OF-POUR AND PLYWOOD THICKNESS. WHEN IN DOUBT, CONSULT YOUR RATE-OF-POUR CHARTS.

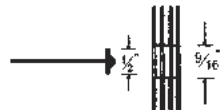
PREPARATION:

Gang drilling of plywood is the only preparation required with the Jahn Forming Method.



5/8" or 3/4" plywood may be used. Although 5/8" is slightly lower in cost, 3/4" is stronger, lasts longer, uses fewer ties and brackets and is more economical in the long run.

NOTE: 11/16" eccentric take-up on Bracket allows 4 7/8" tie to be used with either 3/4" or 5/8" plywood.



Holes 1/8" larger than tie end.

Holes should be drilled 1/8" larger than tie-end. This will usually be 9/16" or 5/8"

3. INSTALL TIES AND "A" BRACKETS



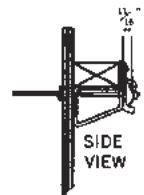
Insert snap ties. Any standard 4 7/8" end 3000# snap tie will work with the Jahn "A" Bracket and 3/4" plywood. Use 4 3/4" end ties with 5/8" plywood.

Two men can do this job with speed and economy if one installs the ties and the other puts on the Jahn "A" Brackets.

4. JAHN "A" BRACKET FEATURES



Positive Snap-Tie lock



Jahn Brackets, employing the patented eccentric, are the only brackets that positively will not vibrate loose under internal vibration. Note the following features: (1) Brackets can be installed either before or after the walers are in place. (2) The bracket slots slip easily over the tie end. No laborious threading through a hole in the body. (3) The tie seats positively in the slot end. (4) The radial action of the eccentric has a drawing instead of a shearing action against the tie head. (5) The offset fastening of the eccentric on the body helps keep the eccentric from loosening under vibration. (6) Pressure of the bracket body is against the 2x4 instead of the plywood.

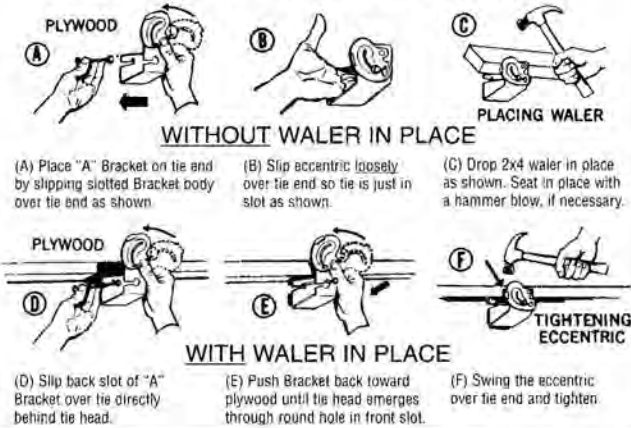
SNAP-TIE BREAKBACK

For best results, break off snap-tie ends using the Sansoe snap-tie socket wrench.

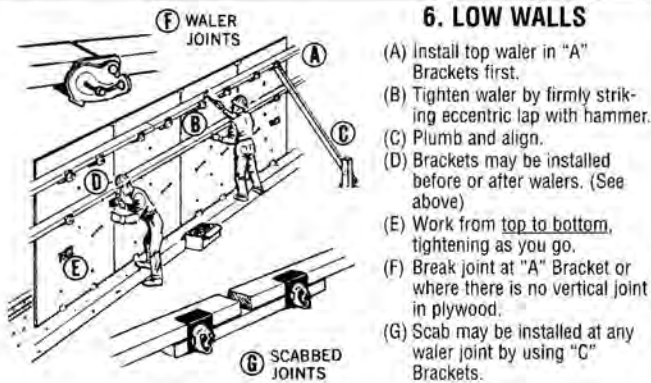
A function of plastic cones is to aid in the breakback operation, therefore Sansoe Concrete Specialties cannot guarantee that no-cone ties will consistently provide proper breakback.

In all cases, break off ends of snap-ties as the concrete has hardened.

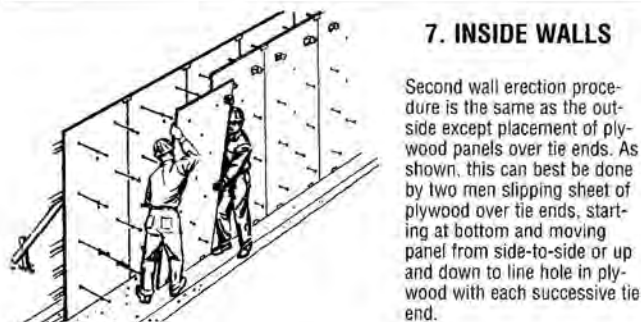
5. PROPER "A" BRACKET INSTALLATION



6. LOW WALLS



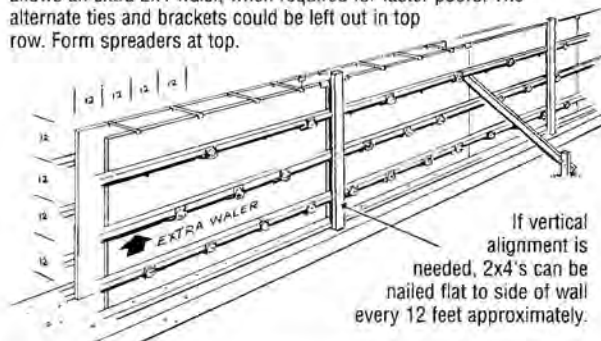
7. INSIDE WALLS



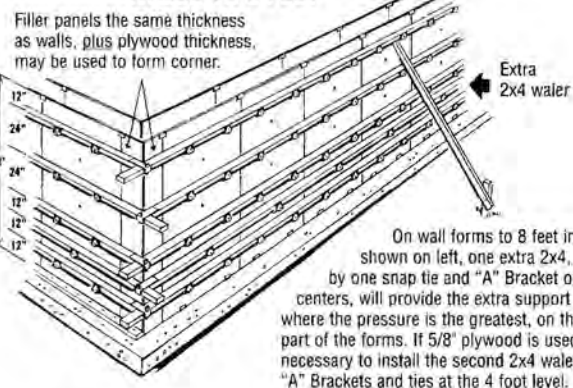
LOW WALL APPLICATIONS

WALLS TO 4 FEET

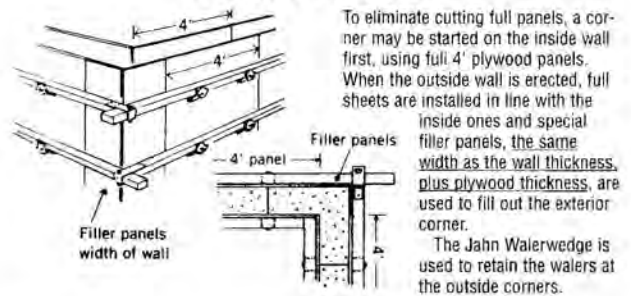
With 4x8 plywood panels horizontal, the eleven-hole tie spacing allows an extra 2x4 waler, when required for faster pours. The alternate ties and brackets could be left out in top row. Form spreaders at top.



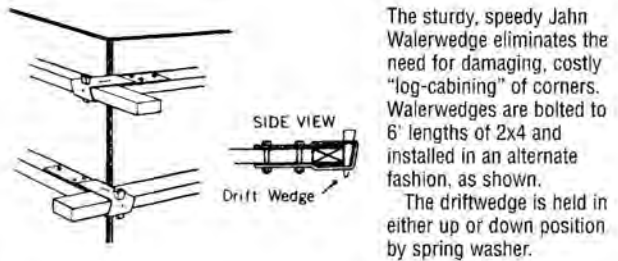
WALLS TO 8 FEET



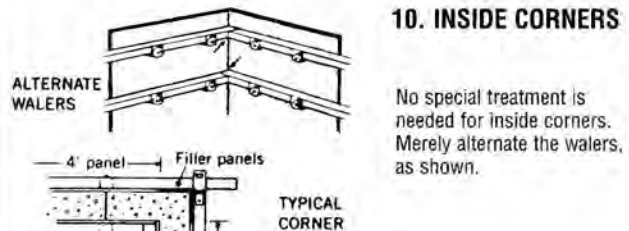
8. OUTSIDE CORNERS



9. JAHN WALERWEDGE
Discontinued



10. INSIDE CORNERS

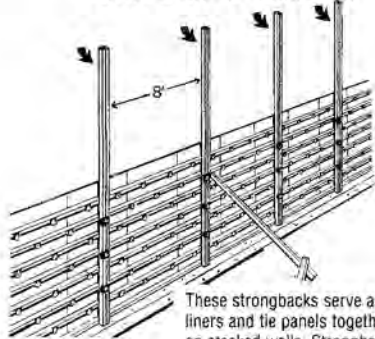


TURN PAGE FOR FURTHER INFORMATION

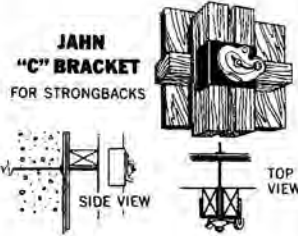
HIGH WALL APPLICATIONS

1. ERECT STRONGBACKS

WITH JAHN "C" BRACKETS

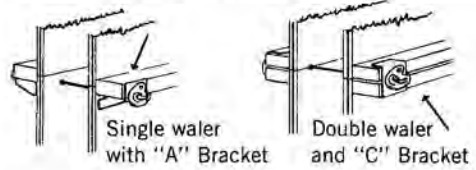


These strongbacks serve as liners and tie panels together on stacked walls. Strongbacks should be spaced every 8' on the average work, using Jahn "C" Brackets with Jahn Tie Extenders or standard 8 1/2" end 3000# snap ties. Loose 2x4's are used for the strongbacks with Jahn "C" Brackets and do not require any nails or spacers (5/8" spacing between walers allows for snap tie).

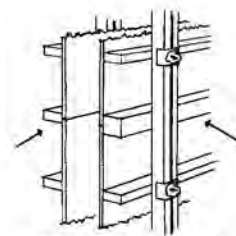


FOR USE WITH JAHN "C" BRACKETS Form strongbacks anywhere on wall. Eliminates need for special ties where strongbacks are used on one side only.

3. INSTALL JOINT COVER

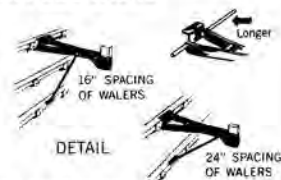
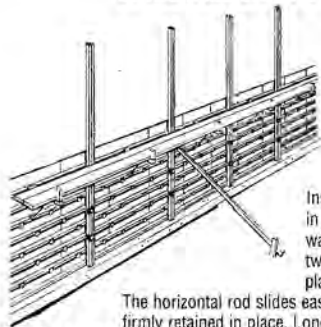


Above are two suggested methods of covering joint when stacking plywood. With single waler, drill holes down 1 1/8" in bottom sheet and put tie, 'A' Bracket and waler in place before adding second plywood sheet. Tack top sheet to waler.



Single loose 2x4 or 4x4 joint coverage: Tack waler to lower plywood sheet and hold in place with strongbacks on 6' to 8' centers.

2. INSTALL JAHN SCAFFOLD JACKS

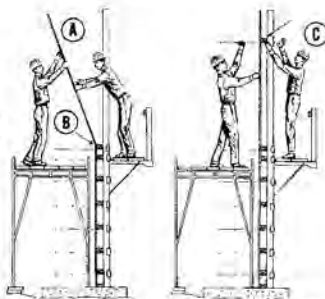


Install Scaffold Jacks after strongbacks are in place but prior to installing joint cover walers. The Jahn Scaffold Jack will hold two 2x10 planks for a comfortable working platform.

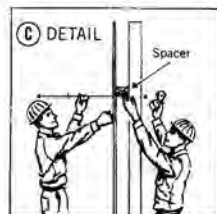
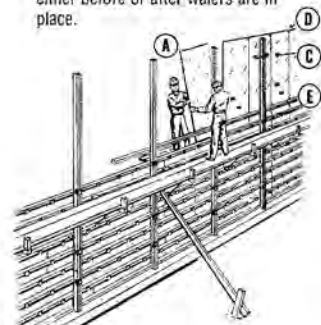
The horizontal rod slides easily through the "A" Bracket body and is firmly retained in place. Long end of rod should be slipped in first. The Scaffold Jack has an adjustable support leg for use with either 16' or 24' tie and waler spacing. A safety guard rail socket is provided. Safety nailing holes are provided for securing Jack to both top and bottom support waler.

4. INSTALL SECOND LIFT OF PLYWOOD

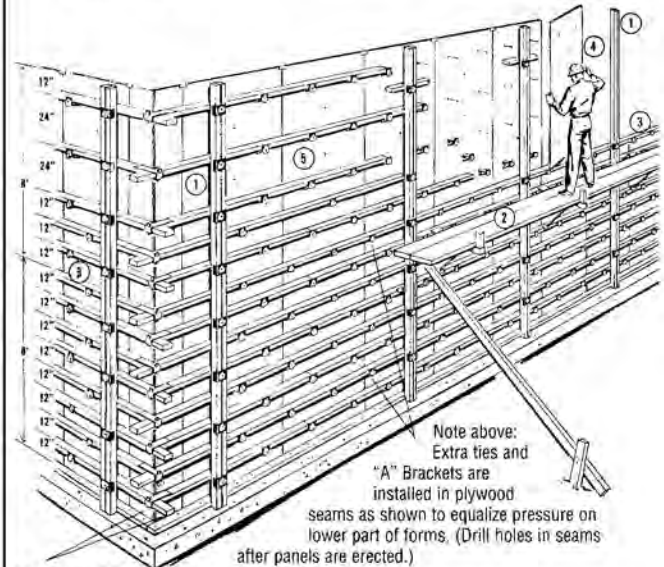
- Lift plywood sheet in place.
- Tack bottom to joint cover waler.
- Hold plywood in place with short 2x4 spacer and Jahn "C" Bracket.
- Set additional panels, tacking to joint cover waler and securing to previously installed panel with Jahn Ply Holders.
- Install snap ties, brackets, and walers, working from bottom to top. Brackets can be installed either before or after walers are in place.



Spacer may be used to hold plywood in place.



- ERECT STRONGBACKS (SEE ILLUSTRATION, UPPER LEFT)
- INSTALL SCAFFOLD JACKS (SEE ILLUSTRATION, LEFT)
- INSTALL JOINT COVER (SEE ILLUSTRATION, UPPER RIGHT)
- INSTALL SECOND LIFT OF PLYWOOD (SEE ILLUSTRATION, LOWER LEFT)



OPTIONAL CORNER FILLER PANELS

(5) NOTE ABOVE: FEWER TIES AND WALERS ARE REQUIRED IN THE TOP 5' OF FORMS WHEN 3/4" PLYWOOD IS USED, AS THE FORM PRESSURE STARTS DECREASING HERE.

SuperTie™

Fiberglass Formtie Systems



SuperTie™ System Overall Advantages

SuperTie™ systems are appropriate for use in all forming applications but are especially beneficial in situations such as architectural finishes because an aesthetically pleasing finish is attained with tremendously reduced labor expenditures. The systems also reduce costs in battered-wall and "odd-sized" tie situations because the rod is cut to the length required at the jobsite.

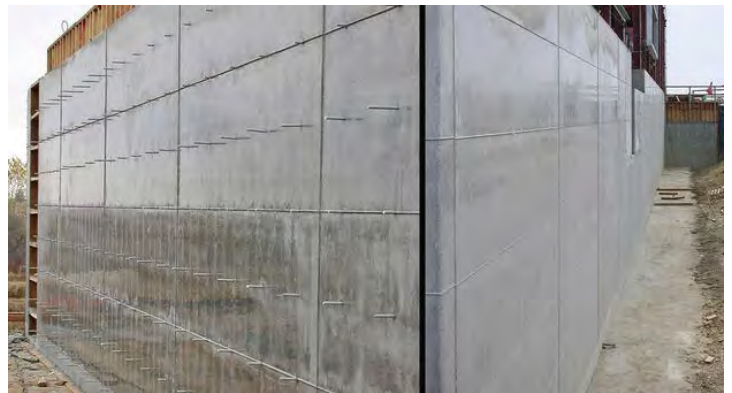
- Superior Finishes: Improved architectural finishes, without patches or rust.
- No Corrosion: The fiberglass form tie material cannot rust, eliminating the need to have a break-back and the need for subsequent plugging and patching to forestall rust.
- Saves Money: Saves dramatically on labor costs. Reduces form-tie-related costs as much as 70%.
- Reduced Inventory: One size fits all jobs. Bulk lengths are cut to the working measurements at the jobsite.
- Extends Form Life: All forms and form liners strip easily from the structure without damage to the ties.
- Natural Insulator: Fiberglass tie, which is left in the structure, is electromagnetically transparent, making it ideal for special situations where magnetic or electrical interference is undesirable. Fiberglass will not promulgate radio frequency and shields nuclear energy.
- Compatibility: SuperTie™ systems are compatible with all job-built and commercially available form systems.

SuperTie™ Smooth Rod Series

SuperTie™ patented fiberglass form tie systems are used to secure concrete formwork during concrete placement and initial hydration, without the inherent limitations and rusting of previously popular steel form tie systems. RJD SuperTie™ can be manufactured in a broad array of colors. The RJD fiberglass tie will never rust therefore no break-back removal or snap-tie cone patching is ever required, creating superior architectural finishes. Significant reduction of wall forming labor costs when using the SuperTie™ fiberglass form tie system, and works well with any hand set wall form to crane set gang form systems.

SuperTie™ Coil Rod Series

SuperTie Coil Rod™ secures concrete formwork during concrete placement. The fiberglass coil threaded rod will never rust, therefore removal from a structure (as with steel threaded rod) is not necessary. Fiberglass Coil Rod is available in ½", ¾" and 1" diameters, offering ultimate strengths of up to 15,000, 30,000, and 34,000 pounds. Material is stocked in fully threaded 8 foot lengths and is easily cut to shorter lengths. Longer lengths can be special ordered with only the ends threaded.



Available in 12ft and 20ft lengths



SuperTie™ 6K (.308" Rod) GND6000

SuperTie™ 15K (.5" Rod) GND15000

SuperTie™ 50K (1" Rod) G50K

SuperTie™ RockGrip 6K & 15K Systems

SuperTie™ CRFF 0500 (1/2")

SuperTie™ CRFF 1000 (1")

Ties - Hooks - Coils

Multipurpose Ties for Difficult Forming Problems

Steel Dog® Transition Ties™ provide a way to connect standard form panels to industry-standard 1/2" threaded coil rod. These strong, versatile ties are the key components of a growing system of accessories to provide solutions for:

- One-sided forming
- Adjustable-length ties
- Blind-side forming with Stay-Form®
- Long tie substitutes, using Steel Dog® Rebar Hooks
- Battered walls
- Bulkheads



LC-6 Loop-Coil Tie (For Steel Ply and equivalent modular form systems)



RC-6 Snap-Coil Tie (For 1-1/8" plywood forming systems)



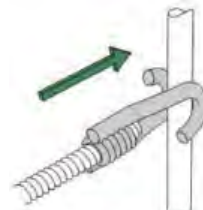
SC-64 Snap-Coil Tie (For job-built plywood forming systems)



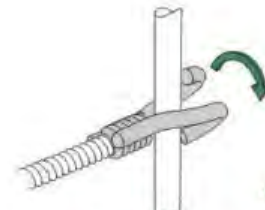
AC-6 Aluma-Coil Tie (For residential aluminum forming systems)

RH Rebar Hooks

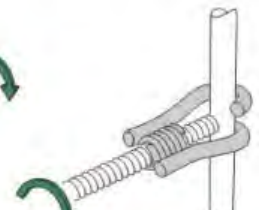
- Universal connectors for coil rod to rebar
- Four standard Rebar Hooks available, for 1/2", 3/4" coil rod and 15mm euro rod
- No extra hardware required for attachment
- Low labor cost: fast connection is quickly made with gloved hands
- Fits in tight spaces: little clearance around rebar needed for attachment
- Connects anywhere along length of rebar
- Welded to rigorous standards using computer-controlled equipment
- Use with Transition Ties™ for Stay-Form® blindside walls
- Up to 3000 lbs Safe Working Load (2-to-1 safety factor)



1. Push onto rebar

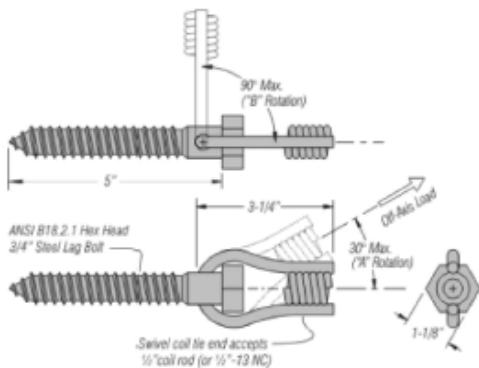


2. Twist hook



3. Tighten coil rod

The Steel Dog® RH Rebar Hooks are multipurpose couplers for making a fast field connection between threaded rod and rebar up to #8 in size. A simple "push and twist" action is all that is needed to make the connection; the coil rod itself keeps the Rebar Hook in place on the rebar.



	SCL-4	SCL-4NC	<p>SCL-4: Accepts 1/2" coil rod only.</p> <p>SCL-4NC: Coil is lapped to accept both 1/2" coil rod AND 1/2"-13NC machine threads</p> <p><i>*For Coil-Lag itself at approximately 2-to-1 Safety Factor. ACTUAL ALLOWABLE LOAD WILL DEPEND ON INSTALLATION AND TYPE OF WOOD. SEE TABLES BELOW.</i></p>
Product Code	SCL-4	SCL-4NC	
Safe Working Load*	3000 lbs		
Lag Screw Size	3/4"		
Lag Screw Length	5"		
Accepts Threaded Rod:	1/2" coil rod	Yes	Yes
	1/2"-13 NC	No	Yes
Box Quantity	50		
Box Weight	37 lbs		

Standard Rebar Hooks	RH-6 RH-6NC		RH-48 RH-48NC		RH-8	RH-8D
Product Code	RH-6	RH-6NC	RH-48	RH-48NC	RH-8	RH-8D
Safe Working Load (lbs)	1800	3000	3000	3000	3000	3000
Max. Size Rebar "D"	#6	#8	#8	#8	#8	#8
Threaded Rod Type	1/2" coil 1/2"-13NC	1/2" coil 1/2"-13NC	1/2" coil 1/2"-13NC	1/2" coil 1/2"-13NC	1/2" coil 1/2"-13NC	15mm*
Projection length "L" (see dwg)	2-1/4"	3-1/4"	3-1/4"	3-1/4"	3-1/4"	3-1/4"
No. Of Coil Turns	6	8	8	8	8	8
Box Quantity	100	50	50	50	50	50
Box Weight	40	40	44	44	44	44

*such as Dwywidag THREADBAR or Dayton D/R Thread Bar

SCL Coil-Lag

For securing formwork to timber structures

- 3/4" hex head lag bolt with swiveling loop coil tie
- Available for 1/2" coil rod or 1/2"-13NC machine thread
- Useful for one-sided walls against wood lagging
- 3000 lbs Max. Safe Working Load (see load tables)

The Steel Dog® Coil-Lag™ is designed to provide at Emporary means of attaching formwork to wood timbers. Typical application: one-sided forming against soldier piles with wood lagging, or other timber retaining walls.

Wood Species	Specific Gravity ¹	Axial Lag Withdrawal Load In Different Thickness Wood ^{1,2}					
		1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
Oak, Red	0.62	1590	2120	2660	3190	3720	4250
Western Larch	0.53	1260	1680	2100	2520	2940	3360
Douglas Fir	0.50	1150	1540	1920	2310	2690	3080
Western Hemlock	0.48	1090	1450	1810	2170	2530	2890
South. Yellow Pine	0.48	1090	1450	1810	2170	2530	2890
Eastern White Pine	0.37	730	980	1220	1470	1710	1960



Column Forming



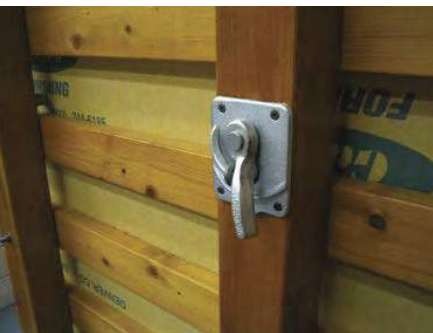
Cam Lock

- Camlock Bracket
- 2x4 or 2x6 Stiffback Clamp
- Safety Rail Post
- All Hardware Galvanized
- Self Centering Cushion Cone Ties
- 1", 1-1/2", 2" BB
- Metal Flat Washer Ties



Lok Fast Column Clamp

- Recognized as best gang clamp on the market
- 1/4 x 3"x4" angle
- 3 standard sizes:
 - 8x24
 - 12x36
 - 24x48
- Each clamp has 1 operator angle with locking unit (shown), 1 pin angle, and two identical back angles



#5 Anchor Lock

Medium Duty Anchor Lock-gang forming- shown in the closed position.

Features: 2'x2' tie spacing. Lock mounted (fixed) on vertical 4x4 Pass through ties. Anchor Lock TMS5 wire ties, taper ties, or she bolts and 3/8" inner ties. Plastic tie hole sleeve for easy tie hole cleaning. 6-7# per square ft.



Column Forming

Scissor Clamp Spacing Chart

Concrete Pressure (psf)	Distance from top (ft)	U S - Spacing In Inches								
		Clamp Size								
		36"			48"			60"		
	0	Column Size - Inches								
Top Clamp	→	16	20	24	24	30	36	30	36	42
(150)	1 ft.		2	2	2	2	2	2	2	2
(300)	2	28	28	28	28	28	28	28	28	26
(450)	3									
(600)	4	24	24	24	24	24	18	24	24	17
(750)	5						11			12
(900)	6	20	20	18	20	12	11	20	15	10
(1050)	7						9			9
(1200)	8	18	18	14	18	12	9	16	14	8
(1350)	9						7			8
(1500)	10	16	16	13	12	10	7	14	10	6
(1650)	11						7			6
(1800)	12	16	16	11	12	9	6	12	10	6
(1950)	13						6			6
(2100)	14	16	13	10	12	8	6	8	8	5
(2250)	15						6			
(2400)	16	15	13	9	12	8	6	11	8	
		15	13	9	10	7		10	7	
		14	11	8	10	6		10	7	
		13	11	8	9	6		9	6	
		13	9	7	9	6		8	6	
		12	9	7	8	6		8	6	
		12	9	6	8			8		
		12	8	6	7			7		

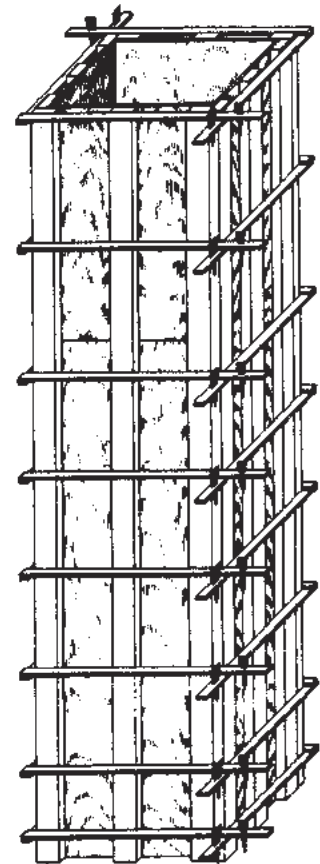
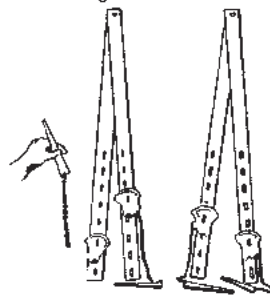
SCISSOR CLAMPS

Spacing based on:

- 3/4" (19mm) plywood with flat 2x4's (38mm) x 89mm on 6" (150mm) centers
- Plywood deflection between clamps limited to L/360 or 1/16" (1.6mm)
- Full liquid head of concrete (pour rate must be restricted in shaded area)
- Column Clamp safety factor = 2, deflection limited to 1/4" (6.3mm)

SCISSOR CLAMPS

HINGED BAR TYPE
2 Hinged Units Per Set



SCISSOR CLAMPS

- For columns of net concrete size from 6" to 46" (153mm to 1169mm).
- Clamps are adjustable to fractions of an inch — no blank spots.
- No parts to lose, clamps are complete — no needless delays.
- Hammer is only tool needed to tighten and remove.
- Units are symmetrical and interchangeable — open either way, either side up.
- Automatically squares the column.

Order No.	U.S. SYSTEM		
	(151) 27-137	(151) 27-149	(151) 27-161
Clamp Size	36"	48"	60"
Bar Size	5/16" x 2-1/2" x 36"	3/8" x 2-1/2" x 48"	3/8" x 3" x 60"
Clamp Opening	10-1/2" to 28"	14" to 40"	24-1/2" to 50-1/2"
Weight/Clamp *	40 lbs.	56 lbs.	85 lbs.
Column Size **	6" to 23-1/2"	9-1/2" to 35-1/2"	20" to 46"



Sonoco Commerical Concrete Forms

More water resistant than paper forms, these concrete forms easily withstand 72 hours or more of rainfall. They also offer improved strength and tear resistance and stand up to full liquid head pressures of heights up to 20 feet.

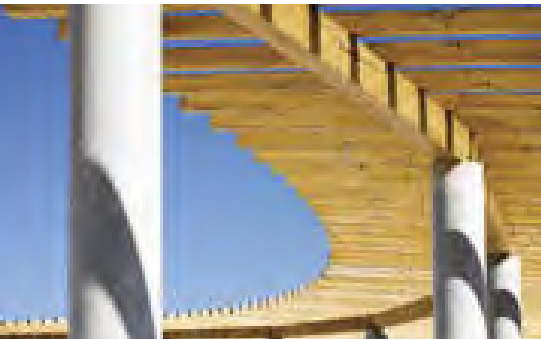
- Full liquid head up to 20 ft
- Will not rust or warp
- Easy to cut to length or drill at the job site
- No crane required to move it

Sonoco Finish Free Concrete Forms

Sonotube Finish Free concrete tube produce exceptionally smooth columns that require no manual finishing.

How? Sonoco applies a patented Duraglass coating to the inside of its Finish Free tubes, eliminating spiral marks and seams that would otherwise be left on the finished surface of the concrete. This results in significant cost saving through the elimination of the labor and materials required to finish columns.

Easier form removal: StripCord stripping filament eliminates the time-consuming process of cutting the form away
Rain resistance: Rain Guard technology to stand strong even in wet weather
Industry-leading technology and value: prevent blowouts and may eliminate the need to use a crane during setup



Sonotube® Round Concrete Forms Size Chart

Forms are available in lengths up to 60' with diameters ranging from 6" to 60"

Concrete Requirements (Expressed in cubic yards for columns of various heights)

Diameter (in.)	Height of Column						
	3ft.	6ft.	8ft.	10ft.	12ft.	16ft.	20ft.
6	0.022	0.044	0.058	0.073	0.088	0.117	0.146
8	0.039	0.077	0.103	0.129	0.155	0.206	0.258
10	0.061	0.121	0.162	0.202	0.242	0.323	0.404
12	0.087	0.176	0.233	0.291	0.349	0.466	0.582
14	0.119	0.238	0.317	0.396	0.475	0.634	0.792
16	0.155	0.31	0.414	0.517	0.62	0.827	1.034
18	0.196	0.392	0.523	0.654	0.785	1.046	1.31
20	0.242	0.485	0.646	0.808	0.97	1.293	1.616
22	0.293	0.587	0.782	0.978	1.173	1.565	1.956
24	0.349	0.698	0.931	1.164	1.397	1.862	2.328
26	0.41	0.82	1.093	1.366	1.639	2.186	2.732
28	0.475	0.95	1.27	1.584	1.901	2.534	3.17
30	0.545	1.091	1.454	1.818	2.182	2.909	3.636
32	0.621	1.241	1.655	2.069	2.483	3.31	4.138
34	0.701	1.401	1.868	2.335	2.802	3.736	4.67
36	0.785	1.571	2.094	2.618	3.142	4.189	5.236
40	0.97	1.939	2.586	3.232	3.878	5.171	6.464
42	1.069	2.138	2.85	3.563	4.276	5.701	7.126
48	1.396	2.792	3.723	4.654	5.585	7.446	9.308
54	1.767	3.534	4.712	5.89	7.069	9.424	11.78
60	2.181	4.363	5.817	7.272	8.727	11.634	14.544

(Cut to size Available)

Sonoco Standard Raingear Concrete Forms

Sonoco has leveraged over a century of paper-making experience to re-engineer its Sonotube concrete column forms. The outcome is a proprietary fiber form with improved strength, toughness, and durability in wet conditions that has resulted in superior strength-to-weight properties and the virtual elimination of "blowouts".

- Easier to setup and brace
- Heat resistance eliminates form deformation during the pour
- No cleaning, reassembling, or return freight costs
- Set and pour multiple columns at one time

Round Column Forms

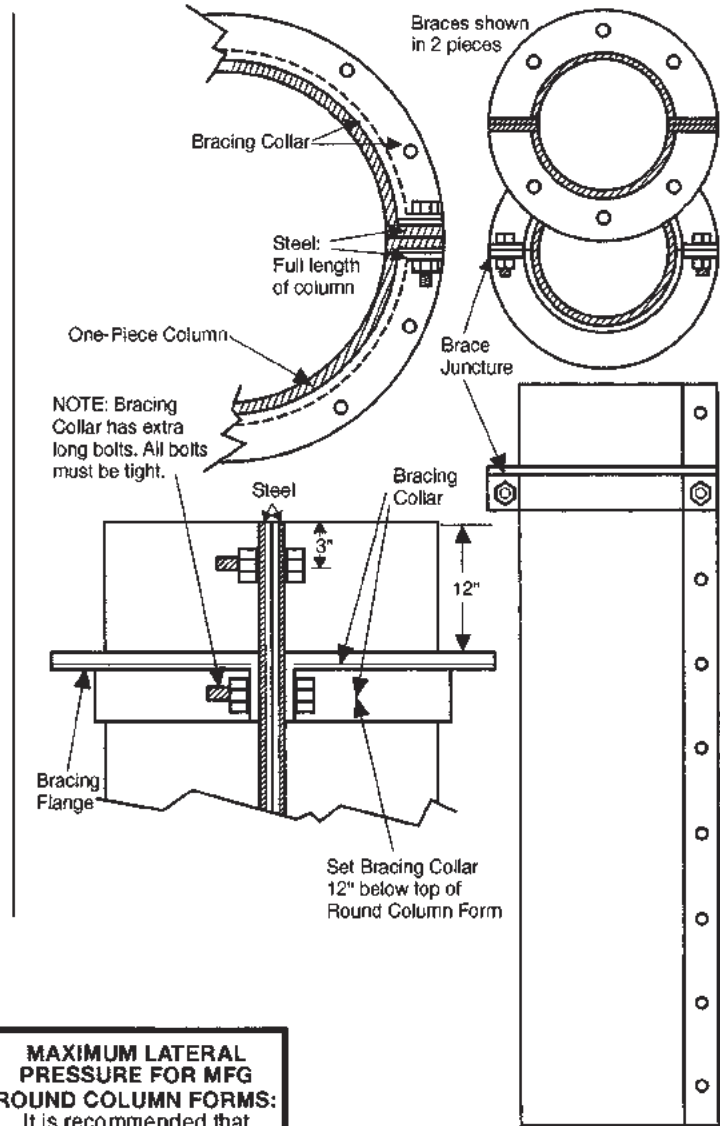
The MFG Construction Products Company name has become synonymous with the manufacture of one-piece, fiberglass reinforced plastic round column forms (RCFs). This RCF material selection makes them cost-effective and easier to handle in the field verses more traditional materials. MFG One-Piece RCF's are available in several standard sizes with diameters ranging 12" to 48" and lengths to 20' long.

Feature **Benefit**
Lightweight Fewer workers can handle forms with minimal effort
 Simple set up and removal
 Lower shipping costs

Strong and durable Resist dents, sags, rot and weather

Designed for repeat use
 MFG One-Piece RCFs are "nest-able"
 Requires less storage and shipping space.

- Virtually maintenance-free
- Easy to clean
- Smooth finish/one vertical seam
- Produces a beautiful concrete finish
- Can accommodate both architectural and standard concrete finish requirements



Sizes

Column Diameter	Length Up To	Approx. Wt. Per Lineal Ft.	Approx. Vol. of Concrete Per Lineal Ft.
12"	20'	9.9 lbs.	.8 cu. ft.
14"	20'	10.0 lbs.	1.0 cu. ft.
16"	20'	11.1 lbs.	1.4 cu. ft.
18"	20'	12.3 lbs.	1.8 cu. ft.
20"	20'	13.1 lbs.	2.2 cu. ft.
22"	20'	14.2 lbs.	2.6 cu. ft.
24"	20'	15.2 lbs.	3.1 cu. ft.
26"	20'	16.2 lbs.	3.6 cu. ft.
28"	20'	17.3 lbs.	4.2 cu. ft.
30"	20'	18.4 lbs.	4.9 cu. ft.
32"	20'	19.5 lbs.	5.5 cu. ft.
34"	20'	20.5 lbs.	6.3 cu. ft.
36"	20'	21.5 lbs.	7.0 cu. ft.
38"	20'	22.6 lbs.	7.9 cu. ft.
40"	20'	23.7 lbs.	8.7 cu. ft.
42"	20'	24.8 lbs.	9.6 cu. ft.
44"	20'	25.8 lbs.	10.6 cu. ft.
46"	20'	26.8 lbs.	11.5 cu. ft.
48"	20'	27.9 lbs.	12.6 cu. ft.

MAXIMUM LATERAL PRESSURE FOR MFG ROUND COLUMN FORMS:
 It is recommended that maximum lateral pressure should not exceed 2,250 psf.

MAXIMUM RATE OF POUR:
 Based on Table 5-5, page 5-13, Formwork For Concrete Sixth edition, Maximum Rate Of Pour would be:

- At 90° F: 20 feet per hour
- At 80° F: 18 feet per hour
- At 70° F: 16 feet per hour
- At 60° F: 14 feet per hour
- At 50° F: 11 feet per hour
- At 40° F: 9 feet per hour

Applies only for normal weight concrete made with Type 1 cement, no admixtures or pozzolans, slump no more than 4 inches, and vibration depth limited to 4 feet or less.

Molded Fiber Glass Construction Products produces fiberglass domes and waffle forms for the construction of architectural, concrete ceilings. Fiberglass domes are lightweight, economical to use and produce an attractive finish. And, MFG Construction Products Company maintains the largest inventory of standard forms, MFG custom forms can be made in almost any shape. The cost is relatively low and the shape possibilities are limited only by the designer's imagination.



D250SCA Bar Lock® S/CA Series Couplers

The Bar Lock S/CA Series Couplers (D250SCA) are designed for use in most tension and compression applications. They are available in rebar sizes #4 through #18 and exceed 135% of specified yield of the rebar.



D250L Bar Lock® L-Series Couplers

The Bar Lock L-Series Coupler (D250L) is similar to the D250SCA, but is designed for use when higher loads are required, such as extreme tension/compression applications and/or seismic loading conditions.



D250XL Bar Lock® XL-Series Couplers

The D250XL Bar Lock XL-Series Coupler is similar to the L-Series Coupler but is designed for higher loads and higher strength rebar. XL-Series couplers are available in rebar sizes #4 through #18 and exceed Type 2 performance.



D260 Bar Lock® Structural Steel Connectors

Bar Lock Structural Steel Connectors (weldable) are designed to provide welded connections to structural steel members such as piles, weld plates, beams, columns, etc.



D251 Bar Lock® End Anchors

Bar Lock End Anchors are designed to provide anchorage of structural steel. End Anchors are fabricated with a structural steel connector, factory-welded to round plate steel. They are available in rebar sizes #4 through #18 in the L-Series.

D250SCA Bar Lock S/CA-Series Couplers

Product Code		Coupler Designation	Bar Size Designation			Barrel Stamp Identification	Product Specifications			Bolt Specifications			Meets or Exceeds		
Black	Epoxy		US	Metric (mm)	CN (M)		Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min % Fy**	CAL TRANS Service	ICC Type 1
400200	400210	3 S/CA	#3	[10]	—	3S...CA	1.3	3.9	1.24	4	0.5	40	135	YES	YES
400200	400210	4 S/CA	#4	[13]	[10]	4S...CA	1.3	3.9	1.24	4	0.5	40	135	YES	YES
400201	400211	5 S/CA	#5	[16]	[15]	5S...CA	1.7	4.5	2.11	4	0.5	80	135	YES	YES
400202	400212	6 S/CA	#6	[19]	[20]	6S...CA	1.9	6.3	3.57	6	0.5	80	135	YES	YES
400203	400213	7 S/CA	#7	[22]	—	7S...CA	1.9	8.0	4.30	8	0.5	80	135	YES	YES
400204	400214	8 S/CA	#8	[25]	[25]	8S...CA	2.4	10.2	6.10	8	0.625	180	135	YES	YES
400205	400215	9 S/CA	#9	[29]	[30]	9S...CA	2.9	9.0	11.88	6	0.75	350	135	YES	YES
400206	400216	10 S/CA	#10	[32]	—	10S...CA	2.9	11.5	15.17	8	0.75	415	135	YES	YES
400207	400217	11 S/CA	#11	[36]	[35]	11S...CA	3.1	14.0	20.50	10	0.75	415	135	YES	YES
400208	400218	14 S/CA	#14	[43]	[45]	14S...CA	3.5	16.5	27.57	12	0.75	475	135	YES	YES
400209	400219	18 S/CA	#18	[57]	[55]	18S...CA	4.3	27.2	62.00	20	0.75	475	135	YES	YES

Note in place of the "...", each Bar Lock Coupler is marked with a tracking code used for full manufacturing traceability.

* Foot pounds.

** When used in conjunction with epoxy-coated Grade 60 rebar, 125% Fy strength is developed.

D250L Bar Lock L-Series Couplers

Product Code		Coupler Designation	Bar Size Designation			Barrel Stamp Identification	Product Specifications			Bolt Specifications			Meets or Exceeds			
Black	Epoxy		US	Metric (mm)	CN (M)		Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min % Fy**	CAL TRANS Service	ICC Type 1	ICC Type 2
400327	144988	3 L	#3	[10]	—	3L...	1.3	4.0	1.67	4	0.5	40	160	YES	YES	YES
400226	400235	4 L	#4	[13]	[10]	4L...	1.3	5.5	1.67	6	0.5	40	160	YES	YES	YES
400227	400236	5 L	#5	[16]	[15]	5L...	1.7	6.3	2.90	6	0.5	80	160	YES	YES	YES
400228	400237	6 L	#6	[19]	[20]	6L...	1.9	8.0	4.44	8	0.5	80	160	YES	YES	YES
400229	400238	7 L	#7	[22]	—	7L...	1.9	9.8	5.10	10	0.5	80	160	YES	YES	YES
400230	400239	8 L	#8	[25]	[25]	8L...	2.4	12.3	8.94	10	0.625	180	160	YES	YES	YES
400231	400240	9 L	#9	[29]	[30]	9L...	2.9	11.5	15.07	8	0.75	350	160	YES	YES	YES
400232	400241	10 L	#10	[32]	—	10L...	2.9	14.0	18.50	10	0.75	415	160	YES	YES	YES
400233	400242	11 L	#11	[36]	[35]	11L...	3.1	16.5	23.75	12	0.75	415	160	YES	YES	YES
400234	400243	14 L	#14	[43]	[45]	14L...	3.5	19.1	31.60	14	0.75	475	160	YES	YES	YES
142996	142996	18 L	#18	[57]	[55]	18L...	4.3	32.2	97.80	24	0.75	475	160	YES	YES	YES

Note in place of the "...", each Bar Lock Coupler is marked with a tracking code used for full manufacturing traceability.

* Foot pounds.

** When used in conjunction with epoxy-coated Grade 60 rebar, 135% Fy strength is developed.

D250XL Bar Lock XL-Series Couplers

Product Code			Coupler Designation	Bar Size Designation			Barrel Stamp Identification	Product Specifications			Bolt Specifications			Meets or Exceeds			
Black	Epoxy	Galvanized		US	Metric (mm)	CN (M)		Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min % Fu**	CAL TRANS Service	ICC Type 1	ICC Type 2
145314	145324	145147	4 XL	#4	[13]	[10]	4XL...	1.3	10.2	3.10	12	0.5	40	100	YES	YES	YES
145315	145325	145148	5 XL	#5	[16]	[15]	5XL...	1.7	11.5	5.29	12	0.5	80	100	YES	YES	YES
145316	145326	145149	6 XL	#6	[19]	[20]	6XL...	1.9	13.2	7.33	14	0.5	80	100	YES	YES	YES
145317	145327	145150	7 XL	#7	[22]	—	7XL...	1.9	15.0	7.81	16	0.5	80	100	YES	YES	YES
145318	145328	145151	8 XL	#8	[25]	[25]	8XL...	2.4	18.7	13.59	16	0.625	180	100	YES	YES	YES
145319	145329	145152	9 XL	#9	[29]	[30]	9XL...	2.9	19.1	25.03	14	0.75	350	100	YES	YES	YES
145320	145330	145153	10 XL	#10	[32]	—	10XL...	2.9	21.6	28.54	16	0.75	415	100	YES	YES	YES
145321	145331	145154	11 XL	#11	[36]	[35]	11XL...	3.1	24.1	34.69	18	0.75	415	100	YES	YES	YES
145322	145332	145155	14 XL	#14	[43]	[45]	14XL...	3.5	29.1	48.14	22	0.75	475	100	YES	YES	YES
145323	145333	145156	18 XL	#18	[57]	[55]	18XL...	4.3	44.8	136.06	34	0.75	475	100	YES	YES	YES

Note in place of the "...", each Bar Lock Coupler is marked with a tracking code used for full manufacturing traceability.

* Foot pounds.

** When used in conjunction with epoxy-coated Grade 75/80 rebar, 135% Fy strength is developed.

Ellis
MANUFACTURING CO., INC.

SAFETY
ECONOMY
ADAPTABILITY
SPEED

On concrete forming jobs, your assembly goes up and down fastest with Ellis Methods of Suspended Reinforced Concrete. Use inexpensive Ellis products on your next job.

FOR SLAB CONSTRUCTION

ELLIS CLAMPS

Used with 2x4, 3x4, 4x4, 4x6 and 6x6 lumber to make an Ellis Shore that fits your requirements



ELLIS SLIP-IN SHORE HOLDER
Wire Type



ELLIS SLIP-IN SHORE HOLDER
Cup Type



ELLIS PURLIN SPLICER



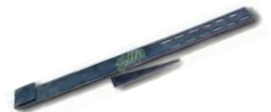
ELLIS RED HEAD



ELLIS JACK WRENCH
Original Design



ELLIS COLUMN CLAMP
Single Bar Type 12" to 84"



ELLIS T-HEAD



ELLIS RESHORE SPRING
Holds a pressure of 190 lbs.



ELLIS COLUMN CLAMP
Scissor Type 3 sizes available: 36" 48" & 60"



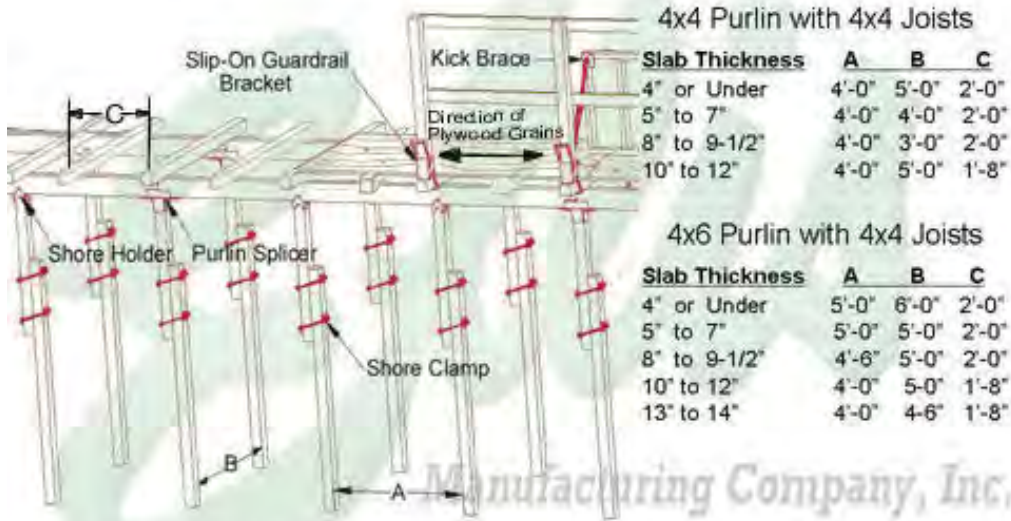
4x4 ELLIS SCREW JACK



6x6 ELLIS SCREW JACK

Ellis Manufacturing Co. has been in business since 1951, and have added, through the years the following hardware to make forming concrete more affordable, creating more profits for the contractor.

Recommended Spacing of Shores, Purlins and Joists for Different Slab Thicknesses



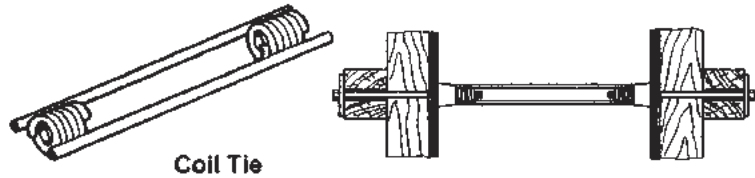
Douglas Fir, Construction Grade Joists and Purlins. 3/4" Plywood grain should run parallel to the span between the joists as pictured above. Maximum deflection L/360.



Total Shore Height (Ft.)	Lower Shore Member Length (Ft.)	Clamp Spacing (Ft.)	Ellis Shore Maximum Safe Working Load (lbs.)					
			2x4	3x4	4x4	4x6	6x4	6x6
18'	7'	18"	0	0	0	3,200	3,200	7,200
16'	7'	18"	0	0	0	3,200	5,600	10,400
14'	7'	18"	0	0	3,000	4,000	7,200	13,600
12'	6'	12"	600	2,000	4,400	6,000	9,600	13,600
10'	6'	12"	1,000	3,000	6,000	8,000	12,000	16,000
8'	6'	12"	1,500	4,000	6,000	9,600	16,000	16,000
6'	4'	12"	1,800	5,000	6,000	9,600	16,000	16,000

COIL TIES (a.k.a. Superior 2/04 to 2/1Q Tyscru)

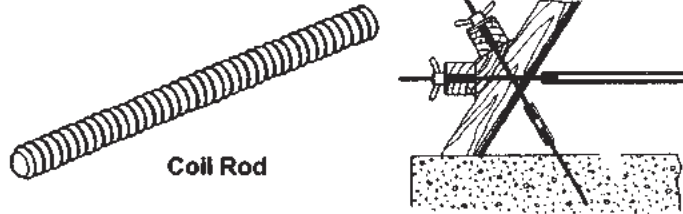
Dayton Superior Coil Ties are strong, resistance welded ties designed for medium and heavy forming applications. Coil tie products are available in two or four struts, with screw-on plastic cones and water-resistant versions. 1/2", 3/4", 1" and 1 1/4" diameters are available.



Coil Tie

COIL ROD (a.k.a. Superior 2/25 Continuous Threaded Lagstud)

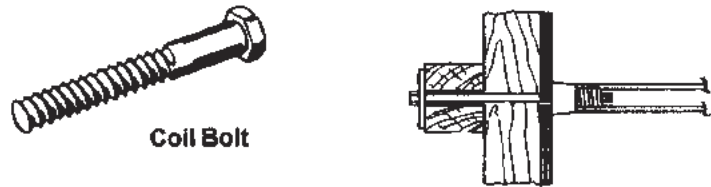
Dayton Superior Continuous Threaded Rod is continuous coil threaded rod available in 1/2" to 1 1/4" diameters in 1/4" increments. Available in special cut-to-length sizes or in standard 12' lengths, Continuous Threaded Rod is used with other coil tie products in many different combinations and applications.



Coil Rod

COIL BOLT (a.k.a. Superior 2/20 Tylag)

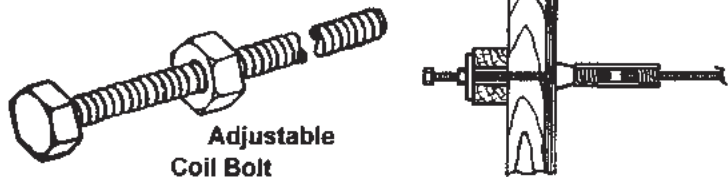
Dayton Superior Coil Bolts are hex head, cone-pointed bolts threaded for the contour of the coil tie helical coil. Available in 1/2", 3/4", 1" and 1 1/4" diameter and length as required in 1" increments.



Coil Bolt

ADJUSTABLE COIL BOLT (a.k.a. Superior 2/22 Adjustable Tylag)

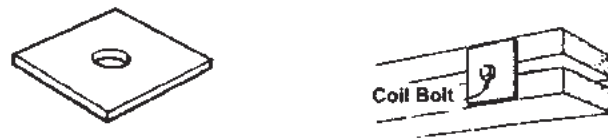
Dayton Superior Adjustable Coil Bolt is adaptable for special applications at corners, batter walls, etc., where one-size Adjustable Coil Bolt may replace several different lengths of the standard Coil Bolt.



Adjustable Coil Bolt

FLAT WASHER (a.k.a. Superior 2/35 Flat Washer)

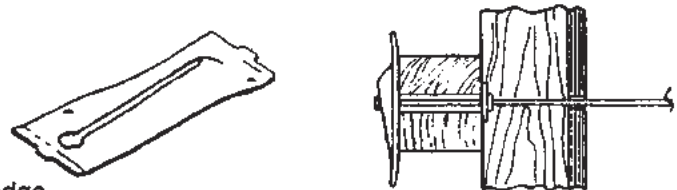
Dayton Superior Flat Washers are made from high carbon, flat steel plate in sizes to fit all coil bolt, she-bolt and taper tie applications.



Flat Washer

SNAP TIE WEDGE (a.k.a. Superior 1/50 Tywedge)

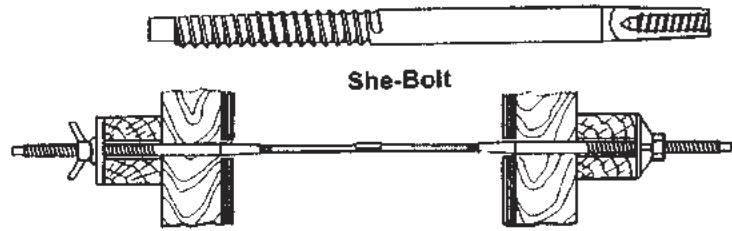
Dayton Superior Heavy Steel Wedge is used with any standard or heavy Dayton Richmond Snap Tie to provide a quick and easy wedging action to securely hold the tie and formwork in place.



Heavy Steel Wedge

COIL TIES (a.k.a. Superior 10/05 She-Bolt)

Dayton Superior She-Bolts are high strength units suitable for heavy concrete construction. Manufactured with either Acme or Coil external threads, they provide a positive system for use with gang and/or steel forms. She-Bolts are used in conjunction with inside tie rods, below.

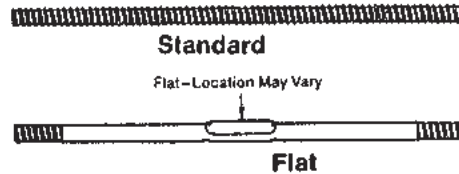


INSIDE TIE RODS (a.k.a. Superior 10/24 thru 10/32 She-Bolt Inside Rods)

Dayton Superior Inside Tie Rods for She-Bolts are manufactured in three styles; plain, with flats and continuous threaded. Positive stops and/or water-resistant models are available.



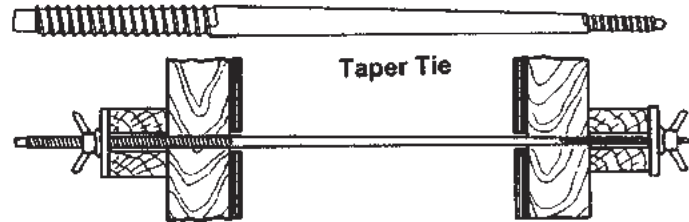
Standard



Flat

TAPER TIES (a.k.a. Superior 10/45 Taper-Ty)

Dayton Superior Taper Ties are used where specifications permit complete removal of the form tie from the concrete. They are manufactured with either Acme or coil thread and with up to 75" of taper.



Taper Tie

JAHN "A" BRACKET (a.k.a. Superior 1/62 Single Water Bracket)

Dayton Superior Jahn "A" Bracket is designed to be used with any standard Dayton Superior short-end snap tie. This durable bracket can be used with horizontal walers or vertical studs.



A-81 Jahn "A" Bracket

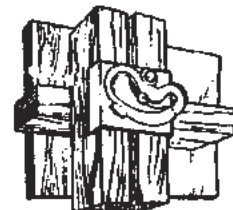


JAHN "C" BRACKET

Dayton Superior Jahn "C" Bracket is used to attach vertical strongbacks to the formwork for added strength and alignment.

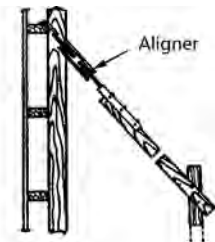
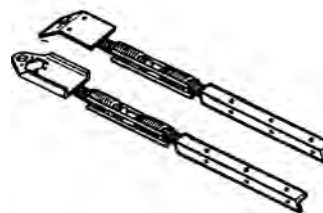


Jahn "C" Bracket



A27 Turnbuckle Form Aligner

Dayton Superior's A27 Turnbuckle Form Aligner is designed to align and position all types of vertical forms. It is combined in the field with any size stud to allow easy adjustment for final form positioning and alignment.



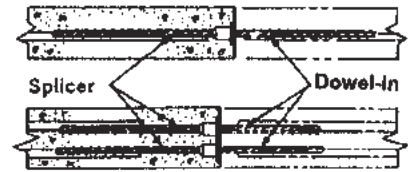
Aligner

DB-SAE SPLICER (a.k.a. Superior DB-SAE Dowel Bar Splicer)

Dayton Superior DB-SAE Splicer is a one-piece forged unit made from grade 60 rebar and is supplied with NC or UNC threads depending on size. Available in bar sizes #4 through #11 in straight, hooked, double-ended and bolt-headed configurations.



DB-SAE Splicer

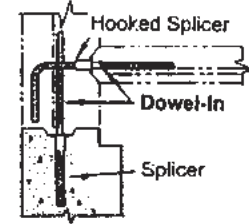


DOWEL-IN (a.k.a. Superior Dowel-In)

Dayton Superior Dowel-In is manufactured from grade 60 rebar material and is available in sizes #4 through #11 for use with the DB-SAE Splicer shown above. Dowel-Ins are available in straight, 90° hooked, 180° hooked and double-ended configurations.

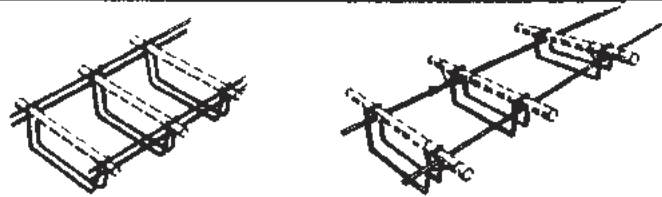


Dowel-In



DOWEL BASKETS

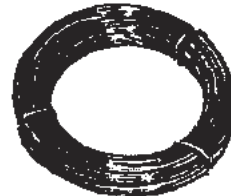
Dayton Superior Dowel Baskets are used for expansion and contraction joints in 6" to 9" concrete slabs. Dowel baskets and their accessories are available in several styles to meet individual project specifications.



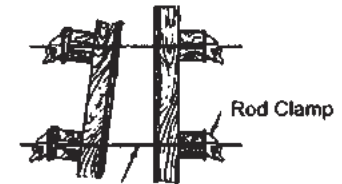
Dowel Baskets

PENCIL ROD (a.k.a. Superior 1/86 Pencil Rod)

Dayton Superior D-12-A Pencil Rod is available in .225" and .375" mild steel smooth rod for use with the rod clamps shown below. Pencil rod is available in rolls or straightened and cut to length.



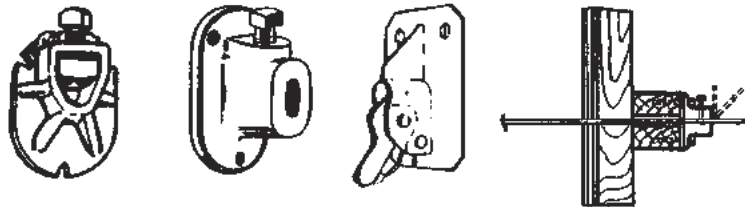
Pencil Rod



D-12-A

ROD CLAMPS

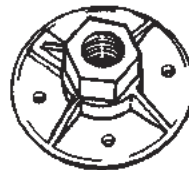
Dayton Superior Rod Clamps are available for use with .225" through .500" smooth or deformed rod to tie various types of concrete forms. Rod clamps are especially useful on battered and curved wall applications.



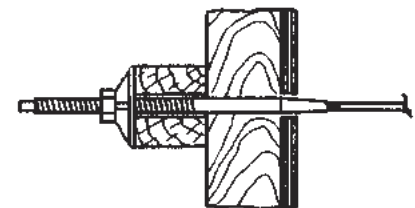
Rod Clamps

NUT WASHERS

Dayton Superior Nut Washers are one-piece ductile steel designs combining the washer and nut in a single unit. Nail holes are provided to secure the washer to the formwork. Nut Washers are furnished with coil thread in 1/2" through 1" diameters for use with any coil thread device. The D-6 Nut Washer has 3/4" Acme thread and is used with the D-2 She-Bolt.

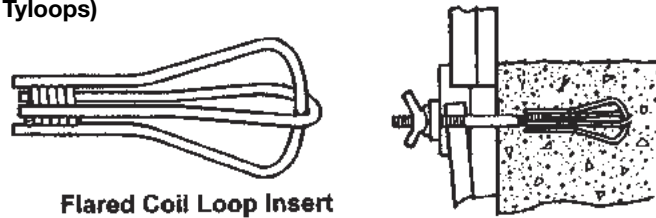


Nut Washer



FLARED COIL LOOP INSERTS (a.k.a. Superior 2/15 Tyloops)

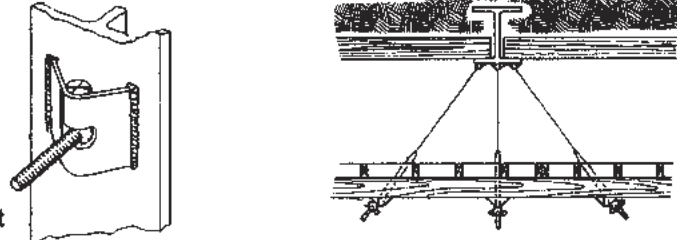
Dayton Superior Flared Coil Loop Inserts are used with coil thread bolts to effectively anchor formwork. Available in several configurations with 3/4", 1", 1 1/4" and 1 1/2" diameter coil thread.



Flared Coil Loop Insert

ADJUSTABLE WELD ANGLE BRACKET (a.k.a. Superior 10/50 Pivot Bracket)

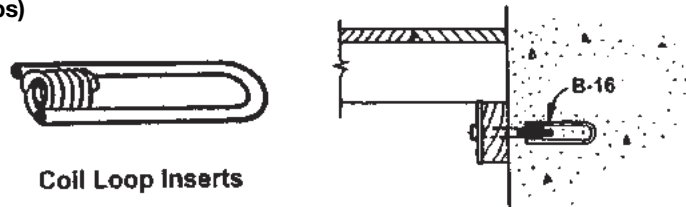
Dayton Superior D-24 Adjustable Weld Angle Bracket is designed to tie single-sided forming to steel piles, metal beams, etc. The brackets provide 110° of bolt adjustability and are available in 1/2", 3/4" and 1" diameters.



Adjustable Weld Angle Bracket

COIL LOOP INSERTS (a.k.a. Superior 2/15 Tyloops)

Dayton Superior Coil Loop Inserts are made of a single looped wire welded to a helic coil. They are available in 1/2" to 1" diameters suitable for many concreting applications.



Coil Loop Inserts

THIN SLAB FERRULE INSERT (a.k.a. Superior 6/30 Thin Slab Ferrule Insert)

Dayton Superior Thin Slab Ferrule Insert is used where the dept of embedment is limited. It's specially designed to develop good working loads in very thin concrete slabs. Available in 1/4" through 1" diameter, in 1/8" increments, closed ferrules.



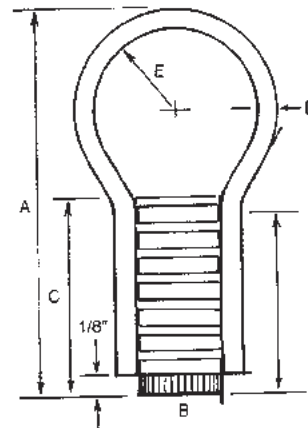
Thin Slab Ferrule Insert

FERRULE LOOP INSERT

The Ferrule Loop Insert consists of a closed bottom, national coarse threaded ferrule welded to a wire loop. It is primarily used for the anchorage of wall panels, suspended ceilings, sprinkler systems, plumbing and heating pipes and ductwork and other miscellaneous anchoring. Please refer to the chart for sizes available. Popular sizes are in stock in all MCS locations.

LOOP FERRULE INSERT SELECTION CHART

Bolt Dia. (NC Thread)	Safe Working Load Tension (lbs.)	Concrete Strength P.S.I.	Minimum Edge Distance	Maximum Bolt Engagement	Dimensions				
					A	B	C	D	E
1/4"	500	3,000	5"	3/4"	2 3/4"	9/16"	1 1/2"	.240"	1/2"
3/8"	1,500	3,000	5"	3/4"	2 3/4"	9/16"	1 1/2"	.240"	1/2"
1/2"	1,800	3,000	5"	1"	2 3/4"	11/16"	1 5/8"	.240"	1/2"
5/8"	1,800	3,000	5"	1 1/8"	3 1/4"	7/8"	1 5/8"	.262"	3/4"
3/4"	1,800	3,000	5"	1 1/8"	3 1/4"	1"	1 5/8"	.262"	3/4"
7/8"	4,000	3,000	8"	1 1/8"	6"	1 1/4"	1 5/8"	.375"	1 1/4"
1"	4,000	3,000	8"	1 1/8"	6"	1 3/8"	1 5/8"	.375"	1 1/4"



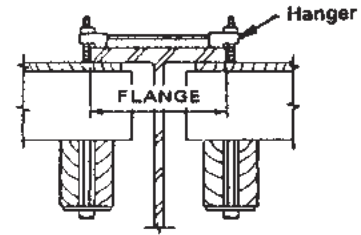
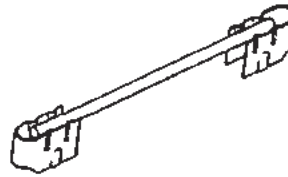
Safe Working Loads are based on 1/2" setback from face of concrete.

Safe Working Loads provide a safety factor of approximately 4 to 1 in normal weight concrete.

Information in these charts is provided for general insert selection only. Your MCS rep can provide the Dayton Superior Precast-Prestress Concrete Handbook for more detailed information.

PRES-STEEL HANGER, TYPE 1

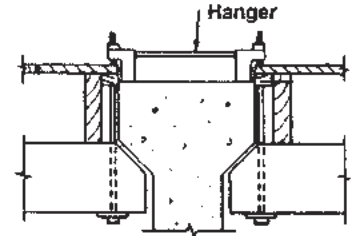
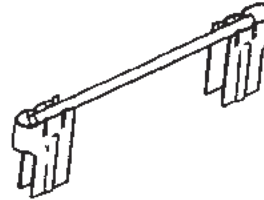
Dayton Superior C-60 Pres-Steel Hanger, Type 1 permits installation and adjustment from above the deck. C-60 Pres-Steel Hanger, Type 1 has a nominal $\frac{3}{8}$ " setback and is used to support deck formwork on interior bridge beams.



Pres-Steel Hanger, Type 1

PRES-STEEL HANGERS, TYPE 2 & 7

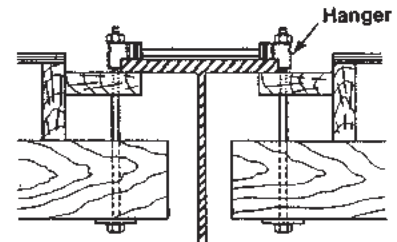
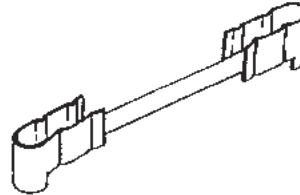
Dayton Superior Pres-Steel Hangers, Type 2 and Type 7 are similar to Type 1 hanger, above, except Type 2 and 7 hangers provide for 1" and 1½" haunch conditions, respectively.



Pres-Steel Hanger, Type 2 & 7

PRES-STEEL HANGER, TYPE 4

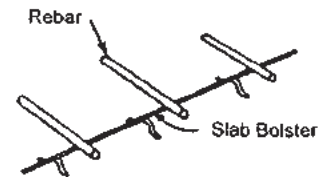
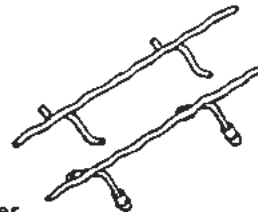
Dayton Superior Pres-Steel Hangers, Type 4 are used on steel interior bridge beams to support deck formwork. The hanger's end sections extend over the edge of the beam to resist shifting.



Pres-Steel Hanger, Type 4

SLAB BOLSTER

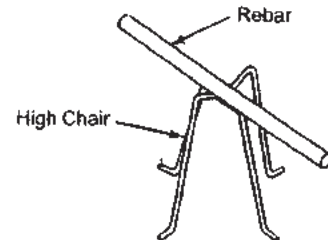
Dayton Superior Slab Bolster is used to support lower slab steel from the slab form. Legs are spaced on 5" centers. Available in $\frac{3}{4}$ " to 3" heights in 5' lengths and in bright basic, galvanized, plastic protected or stainless steel protected.



Slab Bolster

INDIVIDUAL HIGH CHAIR

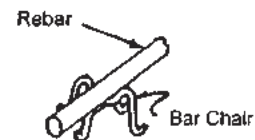
Dayton Superior Individual High Chair is used to support upper steel directly or by means of a carrier bar. Available in 2" to 15" heights in bright basic, plastic protected, galvanized and stainless steel protected.



Individual High Chair

BAR CHAIR

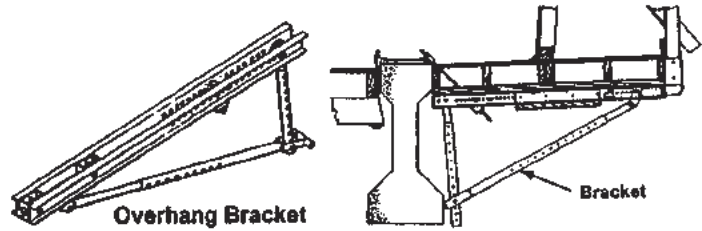
Dayton Superior Bar Chair is used to support wide spaced light steel in slab construction. Available in $\frac{3}{4}$ " to 2" heights in bright basic, galvanized and stainless steel protected.



Bar Chair

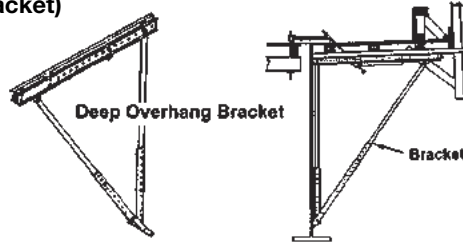
BRIDGE OVERHANG BRACKET (a.k.a. Superior 3/27 Adjustable Fascia Overhang Bracket)

Dayton Superior Bridge Overhang Bracket supports bridge deck fascia formwork. They can be mounted to steel or concrete girders using an appropriate hanging device. Standard brackets have an approximately 3,000 pounds safe working load.



BRIDGE OVERHANG BRACKET FOR DEEP GIRDERS (a.k.a. Superior 3/31 Deep Adjustable Fascia Overhang Bracket)

Dayton Superior Bridge Overhang Bracket for Deep Girders supports bridge deck fascia formwork. They have been designed to mount to deep steel or concrete girders, using an appropriate hanging device. Standard brackets have an approximately 4,200 pounds safe working load.



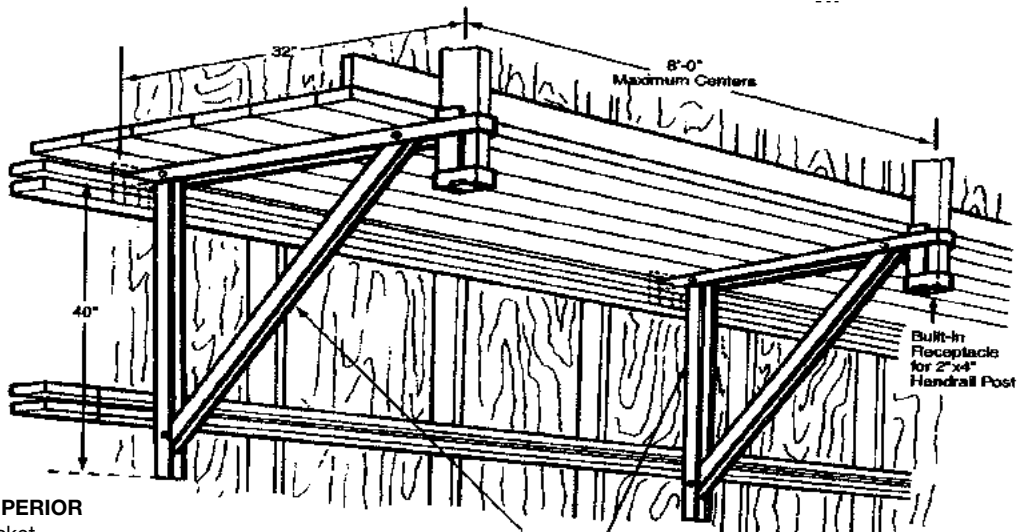
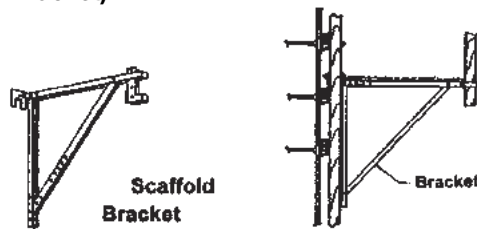
HEAVY DUTY BRIDGE OVERHANG (Approx. 8,000 lbs. SWL)

Dayton Superior Heavy Duty Bridge Overhang Brackets support bridge deck fascia framework. The bracket, available in 72" or 90" versions, can be utilized on steel or concrete girders using the appropriate 3/4" hanging device. The C-89 bracket has an approximately 8,000 pounds safe working load.



SCAFFOLD BRACKET (a.k.a. Superior 2/65 Scaffold Bracket)

Dayton Superior Scaffold Bracket is used to support scaffolding on nearly any type of formwork. They can be flush mounted or adjusted to fit the various size vertical or horizontal walers or stronbacks. The Scaffold Bracket has a safe working load of approximately 2,000 pounds.



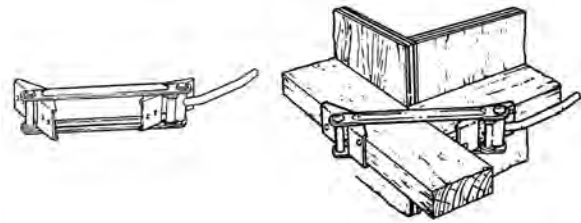
DAYTON SUPERIOR Scaffold Bracket



PLASTIC COIL LOOP PROTECTORS

MUST BE COATED WITH FORM RETARDER FOR REMOVAL

SIZE	WEIGHT	PACKAGED
1/2" DIA.	4.7/C	250/BOX
3/4" DIA.	7.8/C	250/BOX
1" DIA.	15.1/C	150/BOX



CORNER LOCK BRACKETS

Saves time in forming wall corners.

THIS PRODUCT
REQUIRES PROPER
ENGINEERING

WEIGHT	PACKAGED
2.0/EA	20/BOX

TILT-UP BRACES, D1, D4, & D5

- WIDE RANGE OF ADJUSTMENT
- VERSATILE
- GREAT AVAILABILITY



TYPE	LENGTH	WEIGHT
D1 - LOW WALL	8'1" TO 14'5"	95.0/EA
D4 - STANDARD	14' TO 23'6"	130.0/EA
D5 - LONG	23' TO 39'	208.0/EA

THIS PRODUCT REQUIRES PROPER ENGINEERING

THREADED PLASTIC SETTING PLUGS

SIZE	WEIGHT
3/8"	0.5/C
1/2"	0.6/C
5/8"	0.8/C
3/4"	1.0/C
7/8"	1.7/C
1"	2.0/C



TILT-UP BRACES, SUPER, D8, D9, & D10

- HEAVY DUTY
- LIGHTWEIGHT
- 18" OF ADJUSTMENT



TYPE	LENGTH	WEIGHT
D8 - SUPER	21'3" TO 22'9"	130.0/EA
D9 - SUPER W/5' EXT.	26'3" TO 27'9"	195.0/EA
D10 - SUPER W/10' EXT.	31'3" TO 32'9"	218.0/EA

THIS PRODUCT REQUIRES PROPER ENGINEERING

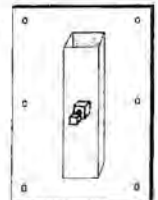
WIRE SCREED HOOKS

CODE	TYPE	WEIGHT	PACKAGED
WIRSCH	WIRE	.2/EA	100/BOX

HEADER FORM BRACKET

- FOR SUPPORTING HEADERS ON 3/4" ROUND OR SQUARE STAKES

WEIGHT	PACKAGED
1.0/EA	EACH

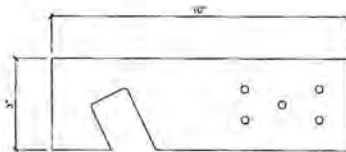


FALSEWORK ACCESSORIES

BEAM CLIPS

WEIGHT	PACKAGED
1.5/EA	EACH

THIS PRODUCT REQUIRES PROPER ENGINEERING



PUSH-FIT CONES

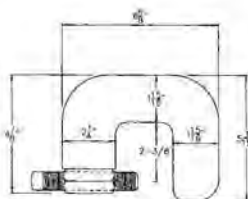
THIS SPREADER CONE IS USED WITH 3/4", CLASS 200 PVC PIPE, TO ALLOW THREADED ROD TO PASS THROUGH THE CONCRETE UNTOUCHED. CONES ARE REUSABLE.

WEIGHT	PACKAGED
1.25/C	2000/BOX



C-CLAMPS, HEAVY

WEIGHT	PACKAGED
6.5/EA	EACH

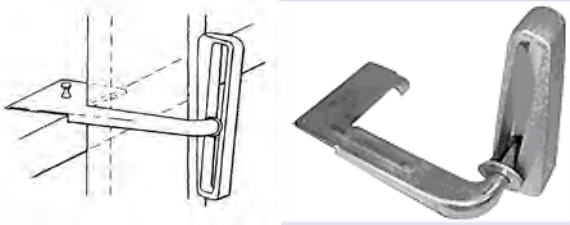
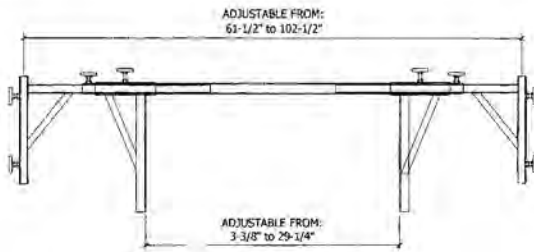


FORM HANGER BRACKET, SCHOOL BRACKET

- ONE PIECE ADJUSTABLE FORM HANGER
- SAVES ON LABOR AND MATERIALS
- MEETS REQUIREMENTS FOR SCHOOL AND MILITARY PROJECTS
- HIGH RE-USE FACTOR



WEIGHT 35.0/EA
PACKAGED EACH



LINER CLAMPS

Liner Clamps are specifically designed for use as a single 2x4 strongback clamp.

WEIGHT 1.3/EA
PACKAGED 25/BOX

THIS PRODUCT REQUIRES PROPER ENGINEERING

COIL COUPLERS

Positive Stop in center



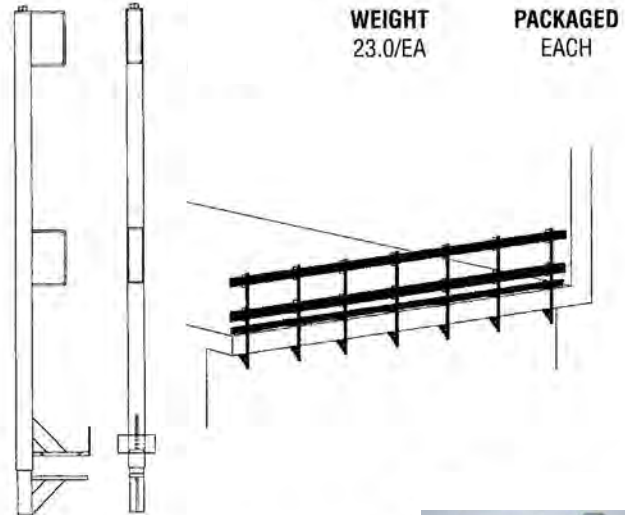
SIZE	WEIGHT
1/2" X 2-1/2"	20.0/C
3/4" X 3"	40.0/C
1" X 4-1/2"	150.0/C
1-1/4" X 5-1/2"	280.0/C
1-1/2" X 7"	430.0/C



THIS PRODUCT REQUIRES PROPER ENGINEERING

GUARD RAIL POSTS

The De Cristo Guard Rail Post is a versatile and durable clamp-on post, for use on open-sided floors, decks, and platforms of thickness from 3" to 36". The many features include a square telescoping tube, providing a uniform top rail height of 42", closed loops for 2x4 or 2x6 wood rails, and fast threading coil rod for easy adjustment.

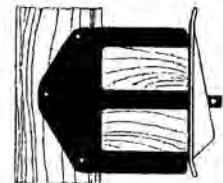


DOUBLE WALER BRACKETS

Designed for double 2x4 or 2x6 strongbacks, used with a heavy duty snaptie wedge.

SIZE	WEIGHT	PACKAGED
2X4	.88/EA	25/BOX
2X6	1.0/EA	25/BOX

THIS PRODUCT REQUIRES PROPER ENGINEERING

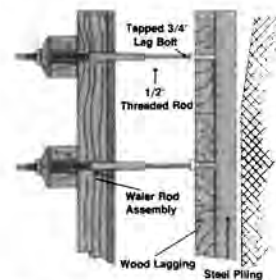
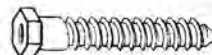


TAPPED LAG BOLTS

TIMBER SIZE	*SAFE WORKING LOAD 2:1	PILOT HOLE SIZE
2" X 10"	1575 LBS	9/16"
3-3/4" or 4" X 12" TREATED	3500 LBS.	9/16"

*QUALITY OF LUMBER WILL AFFECT STRENGTH

- SIMPLIFIES FOUNDATION WALL FORMING
- SPEEDS CONCRETE POURS
- REDUCES EXTERNAL BRACING



SIZE	WEIGHT	PACKAGED
3/4" X 5" N.C.	.67/EA	EACH
3/4" X 5" COIL	.67/EA	EACH

THIS PRODUCT REQUIRES PROPER ENGINEERING

Concrete Forming Accessories

Footing Tie

Description:

Footing ties are manufactured from high strength steel.

Application:

They are used to form footers or grade beams up to 42" wide.

Features:

Footing ties provide an economical way to support concrete forms from bowing or collapsing while concrete is being poured.



Product Code	Description	Weight
129857	6"	0.13 LB
129858	8"	0.17 LB
129859	10"	0.2 LB
129860	12"	0.24 LB
129861	14"	0.27 LB
129862	16"	0.3 LB
129863	18"	0.33 LB
129864	20"	0.36 LB
129865	24"	0.43 LB
129866	30"	0.5 LB
129867	36"	0.63 LB
129868	48"	0.82 LB



COIL NUTS

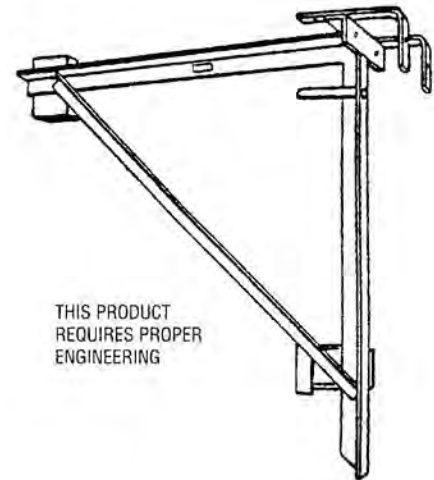
SIZE	WEIGHT	PACKAGED
1/2"	7.0/C	1000/BOX
5/8"	10.7/C	1000/BOX
3/4"	18.0/C	500/BOX
1"	44.1/C	150/BOX
1-1/4"	75.8/C	270/BOX
1-1/2"	128.3/C	50/BOX

THIS PRODUCT REQUIRES PROPER ENGINEERING

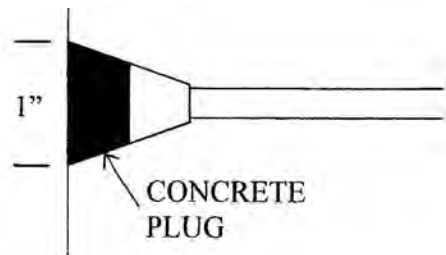
DELUXE SCAFFOLD BRACKETS

The Deluxe Scaffold Bracket hooks over 2x4 or 2x6 walers, to provide safe, solid scaffolding on wall forms. Waler hooks are removable for flush wall mount applications as well.

WEIGHT	PACKAGED
23.0/EA	EACH



THIS PRODUCT REQUIRES PROPER ENGINEERING



Snapplugs

Snapplugs are precast, high strength cement compound plugs designed to plug tie cone holes in concrete. They provide faster installation with less mess and waste.

They are gray in color with a smooth surface and can be painted or sealed. They are watertight and can be used interior or exterior, above or below grade. Available in 3 styles to fit most application requirements.

PRODUCT CODE	DESCRIPTION	PACKAGING
304121	Snapplugs® Flush Gray 1 inch	1000
304122	Snapplugs® Reveal Gray 1 inch	2000
304124	Snapplugs® Reveal Gray 1 1/4 inch	500
303004	Snapplugs® Bonder	12 pint (0.47 L) jugs Per case

The Safety Boot Guardrail

System is superior to any job or shop built temporary railing system.

Make your work place safe as required by OSHA by installing the Safety Boot Guardrail System on every multilevel job site. Providing and maintaining guardrail systems on job sites is the responsibility of the prime contractor/builder even if all construction work is subcontracted. Fast, Flexible and Affordable.

The reusable Safety Boot allows you to quickly construct freestanding railings for stairways, ramps, walkways, balconies and/or roofs. Utilizing job site tools, specified fasteners and construction grade 2x4s, the durable Safety Boot Guardrail System is the most cost effective solution for temporary railings. And, since the Safety Boot requires no bracing, the Safety Boot Guardrail System can remain in place throughout construction, including drywall!



Protect Your Employees, Subcontractors and Assets. Government Regulations and common law require you to protect your employees and subcontractors by offering a safe working environment. Because of the influence of OSHA in recent years, OSHA's standards are now the criteria used in litigation to determine a "reasonably safe work place." The Safety Boot has been certified by a national engineering testing firm as exceeding all OSHA regulations and requirements in order to assure compliance. The Safety Boot Guardrail System is fast, efficient and strong, and can keep up with the pace of construction on any commercial or residential project.



Simple and Cost Effective

Two 2x4s are inserted into the center core to form a rigid post. No bracing is needed. The Safety Boot anchors securely in most subfloor structures with standard power tools and fasteners. (The type of specified fastener is determined by the subfloor material.) Built-in flanges allow toeboards to be inserted without using fasteners. Toeboards, which are required by OSHA, can be lifted out temporarily to bring up material and for clean-up. When the permanent railings are installed, each Safety Boot, with post attached, can be removed easily for use at another construction site.

Confidence and Reliability

The Safety Boot Guardrail System is superior to any job or shop built temporary railing system and is currently being used by thousands of builders and contractors. The Safety Boot protects you with a full one year replacement guarantee. In fact, most contractors reuse each Safety Boot at least 5 to 6 times the first year alone, with several years of reuse. The National Association of Home Builders' Fall Protection Compliance Kit, explaining new fall protection standards, features the Safety Boot Guardrail System in the guardrail portion of the videotape.

Perimeter Safety System

Smarter

Our Perimeter Safety System deploys standardized post-screw components that work on all base plates.

Our posts are inserted and removed in just 11 seconds - 109 times faster than using angle irons.

These posts are all re-usable.



Two cable guides are mounted on each post. Just two twists of the wrist is all it takes to string each cable to a post - six times faster than with angle irons. And it's six times faster to unstring those same cables.

Our base plates are permanently installed. Thus they can be used for tie-off during initial construction and on roofs they can be reused for any later maintenance for tie-off with our various D-ring anchor points.



Safer

The Perimeter Safety System components meet and often exceed OSHA safety standards for passive fall restraint guardrail systems or when used as a personal fall arrestor anchor point.

All posts exceed OSHA's 200-pound side load requirement. And all anchor points exceed OSHA's 5,000-pound tie-off load requirement.



Since our base plates are either welded at the fabricator or installed with two-part epoxy, no fire watch is required. There is not cutting torch. No fire danger. No hazard to your workers. No need for fire extinguishers and safety glasses.

Angle iron removal involves a cutting torch or grinder. This creates the danger of knee, eye or finger injury, or of burns. It can result in curtain wall damage. With Perimeter, there are no angle irons to remove. The dangers are eliminated.

In a slab-grabber configuration, they can get loose, creating the danger of a fall. You cannot tie off to the angle iron. With Perimeter, you can tie-off with the post while drastically reducing the time exposed at the edge of the building.

Greener

For a typical 30-story steel frame construction job, thanks to the re-usability of our posts, you eliminate fully 27 tons of iron angle waste.



Perimeter Protection Accessories



**42" Standard Post
(1965-10)**

Our 42" Post screws into any of our base plates to provide a support stanchion for cables at 42" and 21" heights. Cable height can be adjusted using appropriate base plates. Posts provide an OSHA compliant 200-pound side load and a 5,000 pound tie-off point provided base plates are attached appropriately. Locking cable guides accept cable up to 1/2" in diameter. Plastic sheath is provided to allow easy removal of post in situations where concrete is poured around post. No tools are required, allowing for fast installation and removal. Cable, turn buckles and crosby clamps are to be supplied by others.



**Corner Posts
(1965-80: 42")
(1965-85: 60")**

EZ Corner Posts are available in two different heights and are designed to be used anywhere a cable needs to be terminated. Typical applications include roof level corners, around elevator shafts, around stairwell openings, and on straight, long runs that require intermediate termination points. Attachment points and braces swivel to adjust to any angle. Braces transfer tension loads back into the building. Each Corner Post includes brace units.



**2-in-1 Parapet Wall/Slab Clamp
(1965-110)**

Can be attached to parapet walls or rotated 90 degrees and attached to the edge of concrete floors. Accommodates walls and floors from 6" to 14" thick.



I-Beam Clamp, 8"-12" (1965-130)

Designed for use on bridge structures. Allows attachment to steel I-beam without welding or drilling. Accommodates I-beams from 8" to 12" wide and up to 2 1/2" thick.



**54" Post w/adjustable
cable guides
(1965-605)**

This post features adjustable guides. As the deck and slab increase in height the cable guides are moved higher always maintaining the OSHA 21"/42" standards.

The top handle is removable to accommodate for a d-ring and toe board accessories.

Warning - System does not allow for a tie-off to the cable

Cable, turn buckles, crosby clamps to be supplied by others. Base Plate not included.

THIS POST IS ALSO AVAILABLE IN 66".



**Heavy Duty D-Ring Fall Arrestor (10" Shaft)
(1965-260)**

This new and improved D-Ring is a redesign of our original D-Ring, but now allowing for easier use in an increased number of applications, and extra tall. D-Ring screws into a base plate to provide a 5,000 pound tie-off point. Can be used during the construction phase on all floor levels, and on the roof following construction.



**D-Ring Fall Arrestor with Roof
Support
(1965-30)**

D-Ring screws into a base plate to provide a 5,000 pound load tie-off point. Can be used during the construction phase on all floor levels, and on the roof following construction.



**Post Concrete
Protective Tube
(1965-100)**



**Column Anchored Cable Support
(1965-70)**

The cable support clip provides an alternative to welding a nut or washer to columns on lower floors. Clips attach to structure using standard Tek #5 screws, concrete fasteners, or by welding in place. Clips allow for quick and easy cable installation and removal, and are designed to accommodate up to 1/2" diameter cable.

Perimeter Protection Accessories



I-Beam Clamp, 12"- 24" (1965-135)

Designed for use on bridge structures. Allows attachment to steel I-beam without welding or drilling. Accomm



Wall Attached Base Plate (1965-140)

Attaches to an existing wall by welding or using substrate-appropriate fasteners.



Clamp on D-Ring (1965-240)

This D-Ring attaches to our standard post at the 22" level. It may be used as a tie-off if base plate or embed are installed to support a 5,000 lb. load.



Standard 5" Base Plate (1965-20)

For use in steel construction. Can be welded to steel beams in fabrication shop or in the field. Allows for easy removal and re-use of posts.



Steel Deck Base Plate (1965-185)

Fits over steel deck and attaches with substrate-appropriate screws.



Clamp on Wood Rail Bracket/Toeboard (1965-60C)

Clamps onto a standard post. Will accommodate 2" x 4", 2" x 6", 2" x 10" and 2" x 12" boards.



Tilt-Up Concrete Base Plate (1965-155)

Designed to be embedded into panel during ground fabrication. Can be used as a tie-off point with an anchor, or used in a guard rail system with a post.



WET CONCRETE EMBED Part Number 1965-505

This item is designed to press into wet concrete during the pour. The top steel plate will level embed and the floor finish machine can run over the plate. The plate is removed with a Phillips head screwdriver after the cure. Our Post will then screw directly into the embed. There is no need for tie wire and chairs.



Clamp on Corner Bracket for Wood (1965-280)

Clamps onto a standard post. Will accommodate 2" x 4", 2" x 6", 2" x 10" and 2" x 12" boards.

Brace Length and Safe Working Loads

How to Calculate Brace Length

D = Elevation — top of panel above floor slab
(not necessarily same as panel height).

W = Wall insert dimension = $2/3 D$

F = Floor insert dimension = $3/4 W$

B = Brace length = $5/4 W$

The brace dimension (W) must be a minimum of 5% of the panel's overall height above the panel's geometric and mass center of gravity. After the locations of the braces are determined, the panel structure should be checked to verify that it is strong enough to resist temporary wind loads.

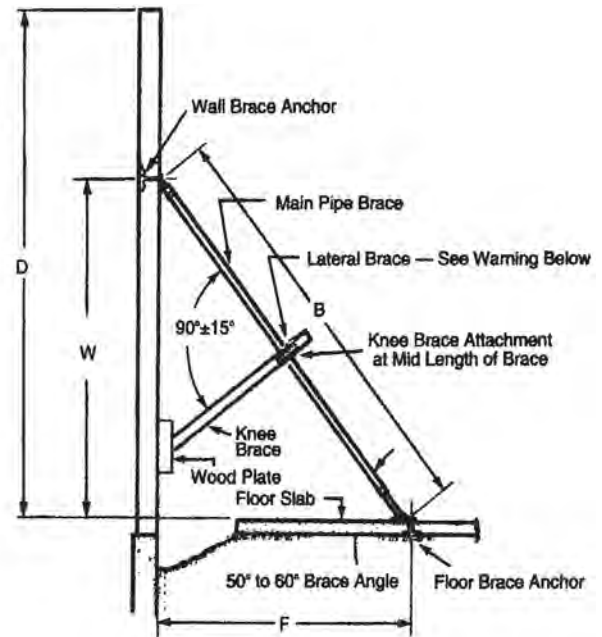
Brace locations other than those shown may drastically increase brace loads. Brace angles over 60° from the horizontal result in poor mechanical advantage and excessive vertical kick, while brace angles under 50° decrease brace buckling strength due to greater length and excessive sag.

Without knee brace means that brace type can be adjusted for various lengths of "B" shown, and brace may be used without knee, lateral or end bracing.

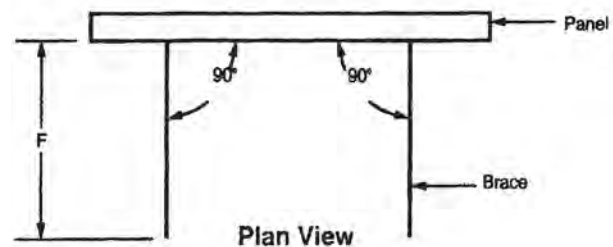
With knee brace means that brace type can be adjusted for various lengths of 'B' shown and requires the use of knee, lateral and end bracing to obtain the SWL listed.

Danger! Bracing must be installed at $90^\circ \pm 5^\circ$ to plane of panel or brace safe working load will be greatly reduced.

The following is a quick "Rule of Thumb" to use in determining if a brace is installed at $90^\circ \pm 5^\circ$ to the panel: The brace may be skewed left or right 1 inch for every 1 foot that the brace anchor is located away from the wall. For example: If your dimension "F" is 15 ft. then your braces may be skewed 15" left or right and still stay within the required 5° tolerance. See panel layout sheets for proper "F" dimension.



Note: End braces to ground and/or cross braces must be installed every 100 ft. to prevent lateral movement of braces and to provide total brace stability.

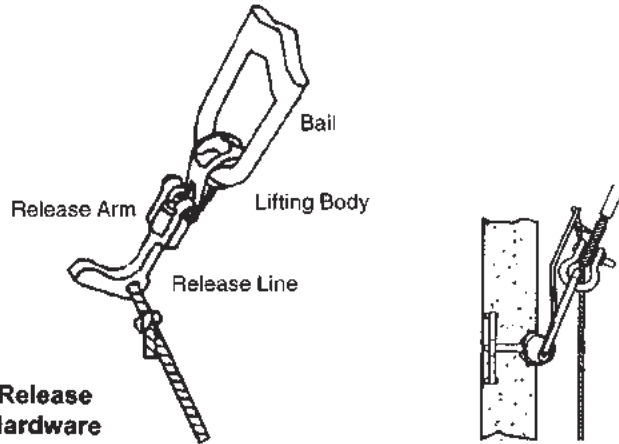


T-14 Tilt-Up Pipe Brace Selection Chart

Type	Description	Minimum and Maximum Brace Length
B-1	On-Site Pipe Brace	7'-6" to 8'-10"
B-2	Regular Pipe Brace	13'-0" to 20'-6"
B-4	Heavy Duty Regular Pipe Brace	14'-6" to 23'-6"
B-5	Heavy Duty Long Pipe Brace	22'-6" to 39'-0"
B-6	Short Pipe Brace	10'-0" to 14'-0"
B-7	Short Jumbo Brace	17'-0" Fixed Length
B-8	Jumbo Brace	22'-0" Fixed Length
B-9	Jumbo Brace with 5'-0" Extension	27'-0" Fixed Length
B-10	Jumbo Brace with 10'-0" Extension	32'-0" Fixed Length
B-11	Tm-ltt Brace	25'-6" to 40'-0"
B-12	Jumbo 5-1/2"	32'-0" Fixed Length
B-14	5-12 Jumbo Brace, 10'-0" Extension	42'-0" Fixed Length
B-15	8-12 Jumbo Brace, 20'-0" Extension	52'-0" Fixed Length
B-16	5-12 Jumbo Brace, 5'0" Extension	37'-0" Fixed Length

GROUND RELEASE LIFTING HARDWARE

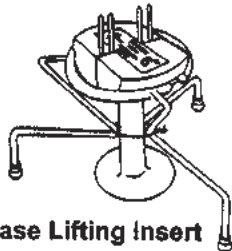
Dayton Superior T-43-R Ground Release Lifting Hardware is designed to lift and place tilt-up wall panels quickly and efficiently. The unit offers high safe working loads, ease of operation and a positive ground release.



**T-43-R
Ground Release
Lifting Hardware**

GROUND RELEASE LIFTING INSERT

Dayton Superior T-41 is a 4-ton insert designed to accommodate the T-43-R Lifting Hardware shown above. The insert is complete with plastic void and plastic or plastic protected base.



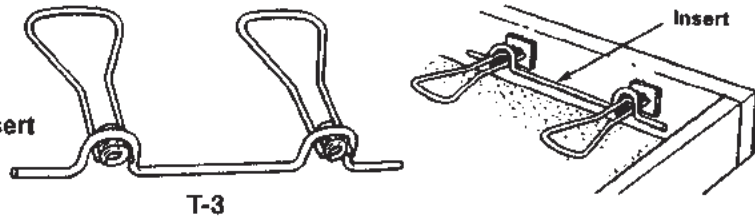
Ground Release Lifting Insert

T-41 Single Ground Release ^{II} Insert Selection Chart							
Structural Panel Thickness	5"	5½"	6"	6½"	7"	7½"	8"
Ground Release ^{II} Anchor Length	3¾"	4¼"	4¾"	5¼"	5¾"	6¼"	6¾"
Insert Safe Working Load (lbs.)	8,000	10,000	12,000	13,500	15,000	15,000	15,000

COIL EDGE LIFT INSERTS

Dayton Superior single or double edge lift inserts are available for the erection of concrete panels.

Coil Edge Lift Insert

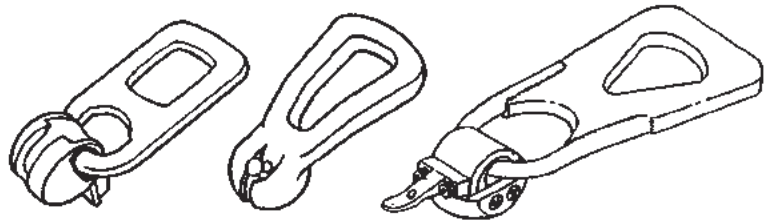


T-3

SWIFT LIFT LIFTING EYES (a.k.a. Superior 9/05 Gyro Lift Hardware)

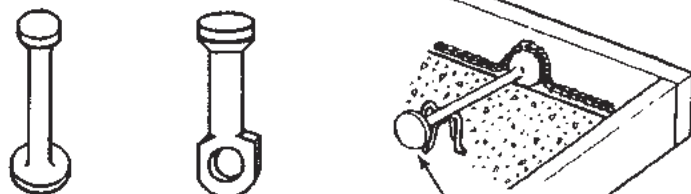
Dayton Superior Swift Lifting Eyes are used with the Swift Lift Anchors below to lift, handle and place precast concrete elements. Available in 1, 2, 4, 8 and 16 ton models.

Swift Lift Lifting Eyes



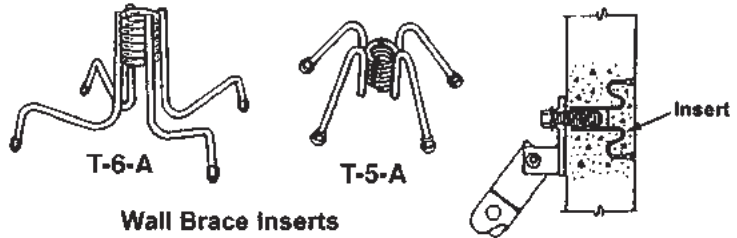
SWIFT LIFT ANCHORS (a.k.a. Superior 9/07 Gyro Lift Anchors)

Dayton Superior Swift Lift Anchors are used with the Swift Lift hardware above to lift and handle precast concrete elements. They are available in various configurations to meet the varied requirements and applications of the precast industry.



BRACE INSERTS

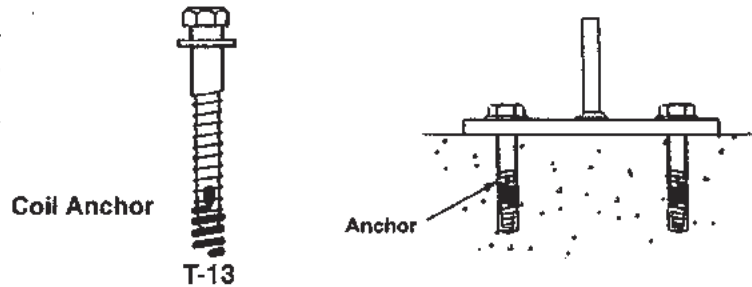
Dayton Superior brace inserts are available in several versions. They are designed to be cast-in-place and used to anchor the tilt-up wall braces during the construction sequence.



Wall Brace Inserts

COIL ANCHOR

Dayton Superior Coil Anchor is a drill-in anchor designed for use in the floor slabs of tilt-up buildings to attach and anchor wall braces during panel erection or to secure emergency lift plates.



Coil Anchor

T-13

SWIVEL LIFT PLATES (a.k.a. Superior 8/70 Duo Swivel and 8/72 Swivel Lift Plates)

Dayton Superior Swivel Lift Plates are designed for use with 3/4" through 1 1/2" lifting bolts to attach to coil lift inserts cast in a tilt-up wall panel.

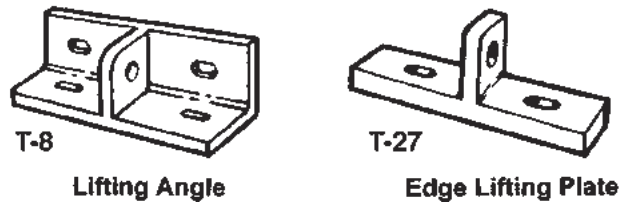


T-12

T-26

LIFTING ANGLE, EDGE LIFTING PLATE (a.k.a. Superior 8/68 Lifting Bracket)

Dayton Superior Lifting Angle and Edge Lifting Plate are designed for use with 3/4" or 1" tandem lifting inserts to lift and position tilt-up panels.



T-8

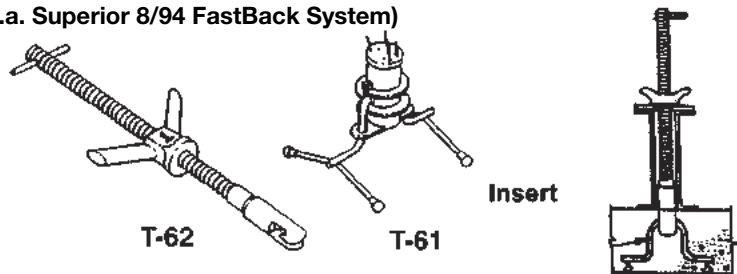
T-27

Lifting Angle

Edge Lifting Plate

QUICK RELEASE STRONGBACK SYSTEM (a.k.a. Superior 8/94 FastBack System)

Dayton Superior Quick Release Strongback System, including insert, hardware and aluminum strongback, is designed to quickly attach and release tilt-up wall panel strongbacks to speed up the setting sequence.



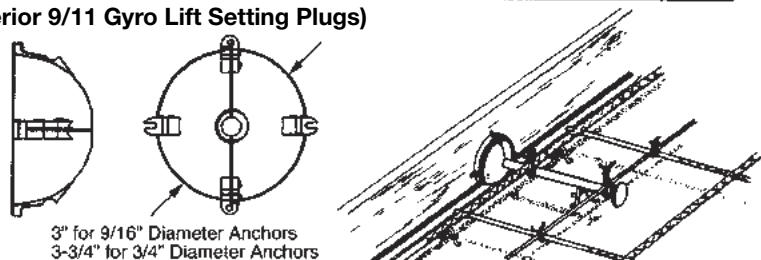
T-62

T-61

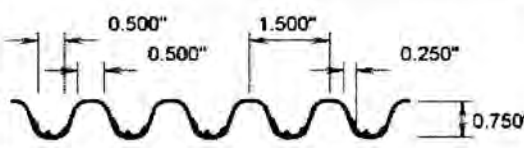
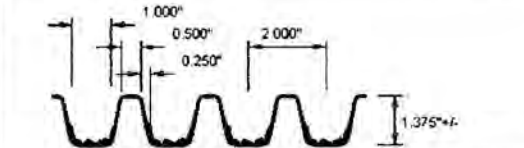
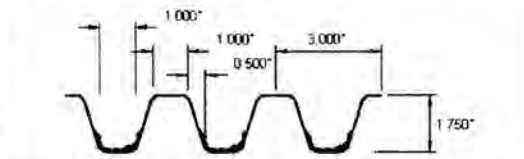
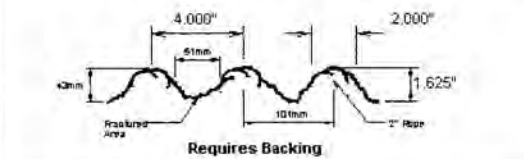
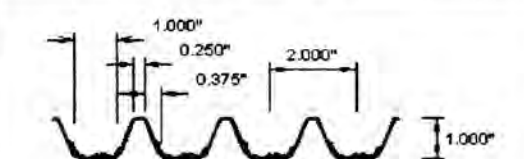
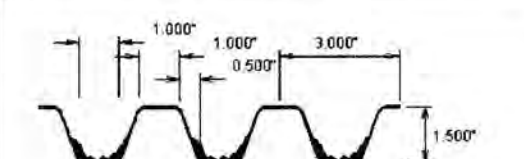
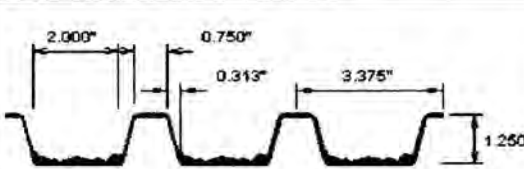
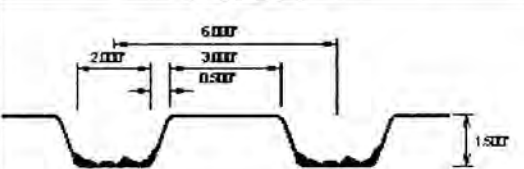
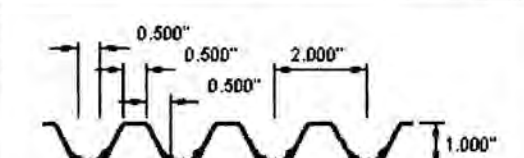
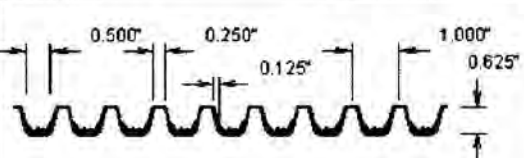
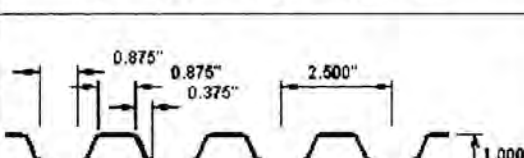
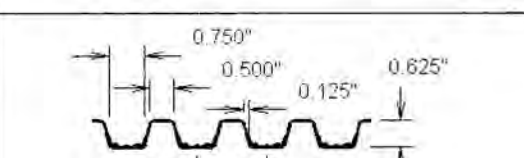
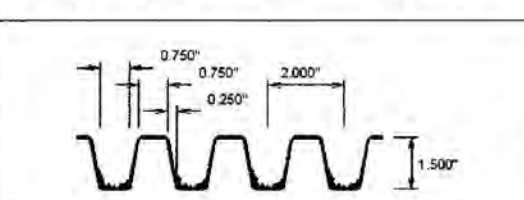
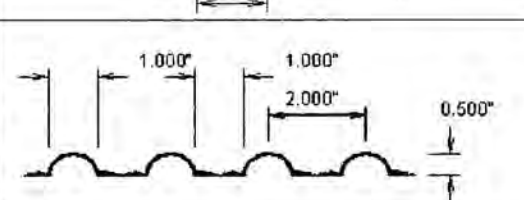
Insert

SWIFT LIFT RECESS MEMBERS (a.k.a. Superior 9/11 Gyro Lift Setting Plugs)

The Dayton Superior P-54 Swift Lift Recess Plug is fabricated from high density polyethylene plastic in two sizes to accommodate the P-52 anchor. The two-piece design snaps together to securely hold the anchor. Built-in tabs are provided on the plug to hold the P-59 Swift Link Shear Bar.

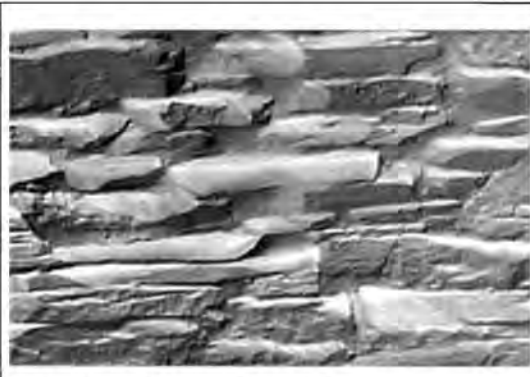
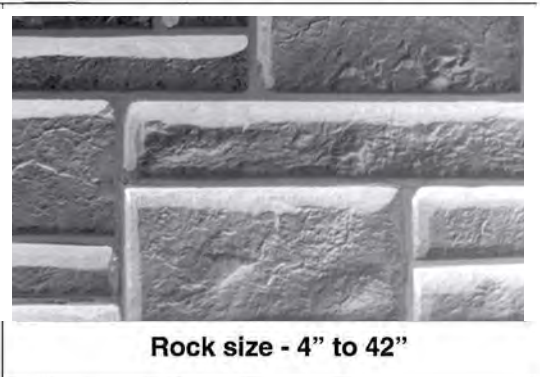

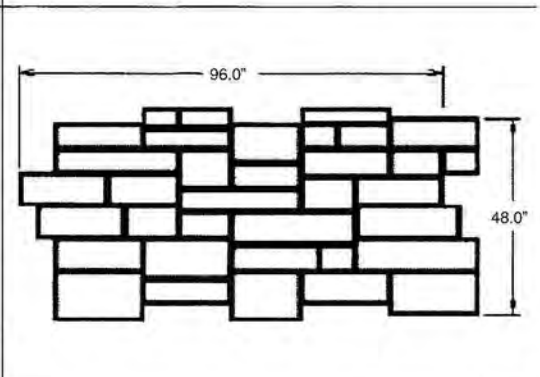
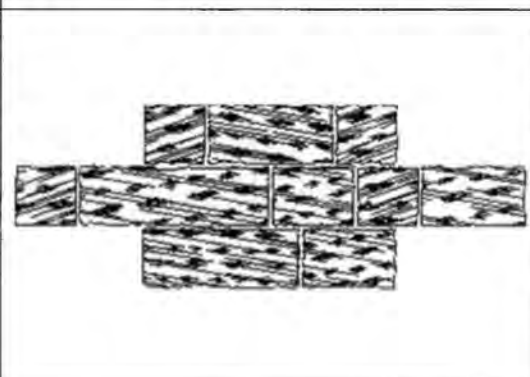





3" for 9/16" Diameter Anchors
3-3/4" for 3/4" Diameter Anchors

<p>1101 Standard Spec Rib</p>		<p>1108 Washington Rib</p>	
<p>1102 Corea Flute</p>		<p>1109 Abilene Rope <small>Plastic Material Requires Backing</small></p>	
<p>1103 Stanton Rib</p>		<p>1110 Bush Rib</p>	
<p>1104 Denver Rib</p>		<p>1111 Harbor Rib</p>	
<p>1105 Las Vegas Rib</p>		<p>1112 JLD Flute</p>	
<p>1106 Dover Rib</p>		<p>1113 Coming Soon</p>	
<p>1107 Mission Flute</p>		<p>1114 1/2" Fractured Rope Rib</p>	

We Provide Tilt up Panel Detailing

Panel layouts clearly specify each lifting anchor position to provide the safest and best balanced lift, erection, and placement for each panel. Detail drawings are provided in organized drawing books that includes a detail sheet for each panel along with Bills of Material and manufacturers hardware instructions and specifications.

<p>1501 Dry Stack Fieldstone Rock Sizes 3"-18" Max Depth 1.25"</p>		<p>1506 Cut Block Ashlar Stone</p>	 <p>Rock size - 4" to 42"</p>
<p>1502 Ashlar Stone Rock Sizes 2 1/2"-9" Max Depth 1.25"</p>		<p>1507 Ashlar Stone Max. Relief 2" Mortar Depth 3/4" to 1"</p>	
<p>1504 Bedford Cut Stone 4 1/2" Relief-24" to 72" Stone Sizes Four 2' x 8' panels</p>		<p>1508 Large Dry Stack Fieldstone Rock Sizes 3" to 24" Maximum Depth 1 1/4"</p>	
<p>1505 Madera Flagstone 2" max relief, Large irregular stone</p>		<p>1509 South Forty Fieldstone Stone Sizes 4"-12" Max Relief 2"</p>	

Sure-Lift WB (J-6)

Premium Cure and Bond Breaker

PRODUCT DESCRIPTION:

Sure-Lift is a premium-grade concrete curing compound and bond breaker for tilt-up construction from Dayton Superior Corporation. Sure-Lift is a long chain chemically reactive compound that is unique in the marketplace because it contains no silicones, resins, or waxes. Sure-Lift will not interfere with the bondability of paints and coatings designed for exterior concrete when applied according to their manufacturer's instructions. The organic compounds in Sure-Lift react with the free lime in the concrete. During the chemical reaction, a gel is produced in the pores of the concrete that forms a water impermeable barrier. This impermeable barrier restricts mix water (which is needed for hydration) from being absorbed into the casting slab. The resulting downside surface of the panel will be stronger and have a more uniform, cleaner appearance. Sure-Lift contains a fugitive dye to aid in the application. Once an application of Sure-Lift is dry, it resists light abrasion caused by foot traffic during construction and the setting of reinforcing steel.

PUROPOSE:

Sure-Lift is a combination curing compound and a bond breaker for tilt-up and lift slab construction. As a bond breaker, Sure-Lift is unsurpassed in providing a clean, easy lift. In performance testing, Sure-Lift required less pounds of pressure to release and lift panels than the other major competitors. Sure-Lift contains no resins or waxes that might stain concrete panels. Properly applied, Sure-Lift will not transfer to the panels. Painting of the panels can be performed as soon as the moisture content in the concrete is at an acceptable level for the paint manufacturer.

Sure-Lift, because it is chemically reactive, is also more resistant to rain and weather than resin-based bond breakers.

ADVANTAGES

- Chemically reactive
- Panels lift easier than those treated with competitive products
- Resists rain and weather- less reapplication
- Clean panels, no resin stains

CURE & SEALS

SAFE CURE & SEAL

Cure, Seal, and Dust Proofer

Percent Solids Available: 18% (J-18), 30% (J-19)

Safe Cure & Seal is a water based acrylic copolymer containing 18% or 30% solids offering outstanding curing, sealing, and dust proofing for freshly finished concrete surfaces. The high solids contents forms a long lasting surface coating, a high gloss finish and excellent cure performance.

This product dries to produce a non-yellowing, durable, clear film on concrete. Safe Cure & Seal is ideal for interior applications because it is free of noxious fumes and is non flammable.

- Reduces waiting period for painting
- Resists construction foot traffic
- Saves money, covers more square feet per gallon than typical membrane forming bond breakers
- Contains a fugitive dye for ease of application

APPLICATION INSTRUCTIONS:

Curing New Concrete:

Cure the entire casting slab with Sure-Lift immediately after final steel troweling and surface water has disappeared.

Coverage should be 400 square feet per gallon or to the point of rejection for smooth, steel troweled surfaces. For rough or light broom finishes, increases the application rate up to 200 square feet per gallon. On broom surfaces, spray in the same direction as the brooming was applied to the surface. If the broom strokes go north or south on the panel, then move the sprayer wand in the same direction. However, smooth steel troweled surfaces will provide the best results for bond breaking. Even though this coat is applied as a cure, this is the first and most important bond breaker coat. It is absolutely necessary for Sure-Lift to remain at the surface of the slab and not be absorbed down into the pores. Heat, low humidity and wind make it more imperative to apply Sure-Lift immediately after finishing. The solvents in Sure-Lift are lighter than water so the cure and bond breaker will float and remain on the surface of the slab if applied soon enough. The entire slab must be completely covered. **DO NOT OVER OR UNDER APPLY.**



Meets Specifications:

- ASTM C-1 56 (Method of testing for ASTM C-309)
- ASTM C-309 Type 1, Class A&B
- AASHTO M-148, Type 1, Class A&B

Note:Federal Specification TT-C-800A has been replaced by ASTM C-309. Safe Cure & Seal: 30% (J-19) meets the obsolete specification TT-C-800A.

PATCHCRETE

PRODUCT DESCRIPTION

PATCHCRETE is a two component polymer modified concrete repair, topping, and underlayment material. The **PATCHCRETE** liquid is a high solids content Acrylic Polymer. The **PATCHCRETE Powder #1005** is a portland cement based mix with graded silica and special chemical additives. Polymer modified concrete gives improved bonding, improved chemical resistance, improved water resistance and improved tensile, compressive and flexural strengths.

This high strength portland cement/acrylic polymer combination provides a smooth durable semi-resilient surface which can be used as a finished floor in most applications. **PATCHCRETE** is easy to mix and apply, requiring no special tools. It is suitable for use as a screedable topping and underlayment, or as a floor, wall or overhead repair material when mixed to a stiffer trowelable consistency. **PATCHCRETE** has been approved by the USDA for use in most processing plants and may be used where there is exposure to potable water. Use of **PATCHCRETE** can help your project earn LEED Credits. Contact factory for details.

PRODUCT APPLICATIONS

PATCHCRETE is designed to be used both as a topping or underlayment and as a wall, floor, and overhead patching and repair material when mixed to a stiffer consistency. For use as an underlayment, mix to the consistency of a thick pancake batter. Use **PATCHCRETE** to level and smooth rough or rained on concrete. **PATCHCRETE** may be used to level low areas inside or outside. It will bond to and may be used to level virtually any concrete surface.

Mixed as a repair material, **PATCHCRETE** may be used to repair walls, floors, tilt panels, driveways, sidewalks, precast members, etc. **PATCHCRETE** may be applied from featheredge to 2-1/2 inches. Suitable for interior or exterior applications. Suitable for application where there is rubber tired forklift and vehicle traffic.

PRODUCT TEST RESULTS

WORKING TIME: Approximately 25 minutes
COLOR: Light Gray, also available in White
INITIAL SET: 4 Hours

SCREEDABLE CONSISTENCY: (1 bag to 1 gallon)
Compressive Strength (ASTM C-109, Air Cured)
7 Days - 4120 PSI 28 Days - 5500 PSI

Flexural Strength (ASTM C-348, Air Cured)
7 Days - 1260 PSI 28 Days - 1535 PSI

Slant Shear Bond (ASTM C-1042, Air Cured)
28 Days - 1250 PSI

TROWELABLE CONSISTENCY: (1 bag to .8 gallon)
Compressive Strength (ASTM C-109, Air Cured)
7 Days - 4550 PSI 28 Days - 6000 PSI

Flexural Strength (ASTM C-348, Air Cured)
7 Days - 1360 PSI 28 Days - 1720 PSI

Slant Shear Bond (ASTM C-1042, Air Cured)
28 Days - 1550 PSI

PAVECRETE PLUS

PRODUCT DESCRIPTION

PAVECRETE PLUS is a polymer modified, one component portland cement based product. It has selected aggregates to provide a smooth finished surface and special additives for ease of finishing, bonding and moisture retention. **PAVECRETE PLUS** has a smooth rich texture making it easy to apply and finish. It has the internal drying feature permitting quick application of sealer, paint or coatings. **PAVECRETE PLUS** is light gray to blend with existing concrete. Use of **PAVECRETE PLUS** can help your project earn LEED Credits. Contact factory for details.

PRODUCT APPLICATIONS

Use **PAVECRETE PLUS** to rub and finish tilt wall panels, repair voids, honeycombs and form marks in poured concrete walls or precast members. Repair and resurface concrete, vertical or horizontal applications. Use to repair sidewalks, curbs, gutters, floors and walls. **PAVECRETE PLUS** may be featheredged and may be used at 1/8" thickness for light and moderate traffic. Use it as a fine finish, quick turnaround underlayment.

APPLICATION - FLOORS, UNDERLAYMENTS AND HORIZONTAL REPAIRS

Apply with trowel working material into surface to get good bond. Trowel or broom finish, avoiding excessive use of water. Use from featheredge to 1/4" for cosmetic repairs and from 1/8" to 1/4" for light to moderate traffic. Always seal **PAVECRETE PLUS** to protect the surface and avoid marking. When used for heavier traffic application such as driveways, apply at 1/4" thickness and replace 1/2 of mixing water with **PATCHCRETE Acrylic Polymer #1003** or 1/3 of mixing water with **ACRYLIC-BOND**. **PAVECRETE PLUS** may also be used as a fine finish, quick turnaround underlayment, applied from featheredge to 1/4" thick.





Our experienced sales staff keeps up to date on the most recent product developments and we can provide the technical data sheets and application information you need.



ARDEX CD™

Concrete Dressing

- Resurface worn and spalled concrete to provide a "new concrete" finish
- Easy to apply
- Hardens quickly
- Freeze-thaw resistant
- Suitable for foot and rubber tire traffic on commercial and residential applications
- Use for interior and exterior floors and walls

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 2.75 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

Mixing Ratio:	5 quarts (4.75 L) of water per one 40 lb. (18 kg) bag; for smaller batches, mix 2.75 parts powder to 1 part water by volume.
Approximate Coverage:	Up to 120 sq. ft. per bag at 1/16" (11.1 sq. m at 1.6 mm) Up to 60 sq. ft. per bag at 1/8" (5.5 sq. m at 3.2 mm) Application methods and the texture of the concrete being coated will affect these rates.
Compressive Strength (ASTM C109/mod – Air cure only):	4000 psi (27.6 N/mm ²) at 28 days
Pot Life:	30 minutes
Working Time:	Approx. 10-15 minutes
Walkable:	Approx. 2 hours
Install Waterborne Coating:	When hard (approx. 2 hours)
Cure Time to Receive Traffic:	Consult sealer manufacturer
Color:	Gray
VOC:	0
Packaging:	40 lb./ 18 kg net weight bag
Storage:	Store in a cool, dry area. Do not leave bags exposed to sun.
Shelf Life:	1 year, if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.

ARDEX OVP™

Finishing Compound for Overhead and Vertical Concrete Walls

exterior overhead and vertical concrete or masonry surfaces prior to sealing or painting

- Portland cement-based

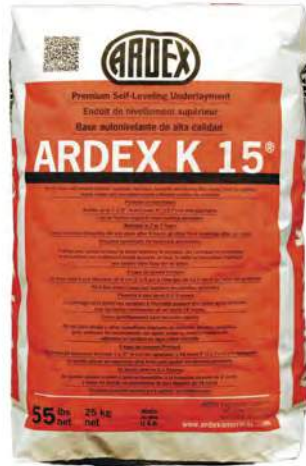
- High yield
- Easy to mix and apply
- Long pot life for large jobs
- Non-shrinking
- Sandable



MASTEREMACO T 310CI FORMERLY KNOWN AS EMACO

MASTEREMACO T 310CI formerly known as EMACO R310 is a polymer-modified, fast-setting patching and resurfacing mortar for horizontal applications.

SKU	Description
54120	R310CI
54110	R300CL



ARDEX K 15®

ARDEX K 15® is the original and the most specied self-leveler in North America.

Install over: interior concrete, terrazzo, ceramic and quarry tile, epoxy coating systems, wood, metal and non-water soluble adhesive residue on concrete; can be installed over concrete treated with certain curing compounds.



Test Data

PROPERTY	RESULTS			
	6 Hours psi (MPa)	1 Day psi (MPa)	7 Days psi (MPa)	28 Days psi (MPa)
Compressive Strength (ASTM C 109)	350 (2.4)	2,500 (17.2)	5,500 (37.9)	7,500 (51.7)
Direct tensile bond strength (ACI 503R, Appendix A)	–	150 (1.0)	175 (1.2)	200 (1.4)
Direct shear bond strength (Michigan DOT)	–	150 (1.0)	250 (1.7)	300 (2.1)
Slant shear bond strength (ASTM C 882, Modified ¹)	–	980 (6.8)	1,750 (12.1)	2,100 (15.2)
Splitting tensile strength (ASTM C 496)	–	375 (2.6)	450 (3.1)	600 (4.1)
Flexural strength (ASTM C 348)	–	800 (5.5)	1,000 (6.9)	1,500 (10.3)
Drying shrinkage, % , at 28 days (ASTM C 157, Modified ²)				0.09
Modulus of elasticity , at 28 days (ASTM C 469), psi (GPa)				2.9 x 10 ⁶ (20.0)
Rapid chloride permeability , coulombs, at 28 days (ASTM C 1202 / AASHTO T 277)				850

PROPERTY	RESULTS	TEST METHODS
Freeze/thaw resistance, % RDM , at 300 cycles	92.0	ASTM C 666, Procedure A
Salt scaling resistance , 50 cycles	None	ASTM C 672
Abrasion resistance , depth of wear, in (mm)		ASTM C 779A
30 min	0.008 (0.21)	
60 min	0.033 (0.84)	

¹No epoxy-bonding agent used; air cured according to ASTM C 1042.

²CRI Guideline No. 03733, 1 by 1 by 10" (25 by 25 by 250 mm) prism, air cured

Results were obtained when material was mixed with 0.8 gallons (3.0 L) of water per bag and cured at 70° F (21° C). Expect reasonable variations, depending upon application methods, test methods, and curing conditions.

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 3.5 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

Mixing Ratio:	7 quarts (6.6 L) of water per 55 lb. (25 kg) bag
Coverage:	30 sq. ft. per bag at 1/4" (2.8 m ² at 6 mm) 15 sq. ft. per bag at 1/2" (1.4 m ² at 12 mm)
Flow Time:	10 minutes
Initial Set (ASTM C191):	Approx. 30 minutes
Final Set (ASTM C191):	Approx. 90 minutes
Compressive Strength (ASTM C109/mod – Air cure only):	5500 psi (385 kg/cm ²) at 28 days
Flexural Strength (ASTM C348):	1000 psi (70 kg/cm ²) at 28 days
Flammability (ASTM E84):	Flame Spread -0- Fuel Contribution -0- Smoke Development -0-
Walkable:	2 to 3 hours
Install Flooring:	Moisture-insensitive tile and stone: 6 hours Other floor coverings: 16 hours
VOC:	0 g/L, calculated SCAQMD 1168
Packaging:	55 lb. (25 kg) net weight bags
Storage:	Store in a cool dry area. Do not leave bags exposed to sun.
Shelf Life:	1 year if unopened.
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies. Also eligible for the ARDEX/HENRY SystemOne™ Warranty when used in conjunction with select HENRY Flooring Adhesives.



ARDEX GS-4™

Self-Leveling Repair Underlayment for Distressed Gypsum and Wood Subfloors

- Blend of high strength gypsum and Portland cements
- Pour with the Rover® or pump with the AMP®
- Interior use
- Use above grade
- Mixes with water

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 4 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	4 quarts (3.8 L) of water per one 50 lb (22.7 kg) bag
Coverage:	22 sq. ft. per bag at 1/4" (2 m ² at 6 mm) 11 sq. ft. per bag at 1/2" (1 m ² at 12 mm)
Flow Time:	10 minutes
Initial Set (ASTM C191):	Approx. 30 minutes
Final Set (ASTM C191):	Approx. 60 minutes
Compressive Strength (ASTM C109/mod – Air cure only):	4000 psi (281 kg/cm ²) at 28 days
Flexural Strength (ASTM C348):	1500 psi (105 kg/cm ²) at 28 days
Walkable:	3 hours
Install Floor Covering:	Minimum 3 days at 70°F (21°C)/50% RH
VOC:	0 g/L, calculated, SCAQMD 1168
Packaging:	50 lb/22.7 kg net weight bags
Storage:	Store in a cool dry area. Do not leave bags exposed to sun.
Shelf Life:	One year if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.



ARDEX SD-P®

Self-Drying, Fast Setting Concrete Underlayment

- Portland cement-based
- Provides a smooth surface prior to floor covering installation
- Mixes with water only – no primer required over concrete, no latex additive necessary
- Easy to mix and apply
- Exceptional bond strength

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 3.5 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	4 quarts (3.8 L) of water per one 40 lb. (18 kg) bag 2 quarts (1.9 L) of water per 20 lb (9 kg) bag For smaller batches, use 3.5 parts powder to 1 part water
Coverage:	50 sq. ft. (4.6 m ²) per 40 lb. bag at 1/8" (3 mm) 25 sq. ft. (2.3 m ²) per 40 lb. bag at 1/4" (6 mm) 25 sq. ft. (2.3 m ²) per 20 lb. bag at 1/8" (3 mm) 12.5 sq. ft. (1.16 m ²) per 20 lb. bag at 1/4" (6 mm)
Initial Set (ASTM C191):	Approx. 15 minutes
Final Set (ASTM C191):	Approx. 60 minutes
Compressive Strength: ASTM C109/mod – Air cure only	4200 psi (295 kg/cm ²) at 28 days
Flexural Strength: (ASTM C348)	1000 psi (70 kg/cm ²) at 28 days
Install Floor Covering:	60 minutes
VOC:	0 g/L, calculated SCAQMD 1168
Packaging:	40 lb (18 kg) net weight bags 20 lb (9 kg) net weight bags
Storage:	Store in a cool dry area. Do not expose bags to sun. Protect unused material by removing air from bag and sealing tightly.
Shelf Life:	Nine months if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty



ARDEX SD-M™

Designer Floor Finish™

- Use over concrete, terrazzo and existing tile and all ARDEX underlayments and toppings
- Provides a smooth, permanent, durable finish
- Easy to mix and apply
- Mixes with water only, no additives necessary
- Outstanding coverage with excellent bond
- Mold and mildew resistant
- Portland cement-based
- Use for interior floors only

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 2.5 parts powder to 1 part water by volume at 70°F (21°C).

Mixing Ratio:	2 quarts (1.9 L) of water to one 10 lb bag (4.5 kg) For smaller batches, use 2.5 parts powder to 1 part water by volume for the scratch and finish coat, or 3.5 parts powder to 1 part water for filling small spalls
Coverage:	80 to 100 sq. ft. per bag in 2 coats (Actual coverage may vary)
Initial Set (ASTM C191):	Approx. 45 minutes
Final Set (ASTM C191):	Approx. 90 minutes
Compressive Strength (ASTM C109/mod – Air cure only)	5000 psi at 28 days 352 kg/cm ²
Flexural Strength (ASTM C348)	1200 psi at 28 days 84 kg/cm ²
Walkable:	2 hours
Install Sealer:	Waterborne: When hard (approx. 2 hours) Solvent-borne or 100% solids epoxy (less than 20 mils): 24 hours High build polymer coating (greater than 20 mils): 3 to 5 days
Colors Available:	Gray and White
Packaging:	10 lb (4.5 kg) bag net weight
Storage:	Store in a cool dry area. Do not leave bags exposed to sun. Protect unused material by removing air from bag and sealing tightly.
Shelf Life:	Six months if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.



ARDEX CP™

Concrete Patch.

- Portland cement-based concrete patch and fill
- Repair, re-slope and re-form all concrete surfaces
- Easy to apply and hardens quickly
- Installs from 1/4" to 1/2" (6 to 12 mm) neat, and up to 2" (5 cm) with aggregate
- Freeze-thaw resistant
- Suitable for foot and rubber tire traffic
- Suitable for commercial and residential applications
- Use for interior and exterior floors and walls

Technical Data According To ARDEX Quality Standards

All data based on a mixing ratio of 2.75 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	5 quarts (4.75 L) water bag For smaller batches, use 2.75 parts powder to 1 part water by volume
Material Requirements on Smooth Substrate (approx.):	22.5 sq. ft. per bag at 1/4" (2.1 m ² at 6 mm) Application methods and the texture of the concrete being coated will affect this rate.
Compressive Strength (ASTM C109/mod – Air cure only):	3600 psi (253 kg/cm ²) at 28 days
Working Time:	30 minutes
Pot Life:	30 minutes
Walkable:	Light foot traffic in 2 hours
Coat or Seal:	Apply ARDEX CD in 4 hours Apply ARDEX CG in 24 hours
VOC:	0 g/L, calculated, SCAQMD 1168
Packaging:	40 lb (18 kg) net weight bags
Storage:	Store in a cool dry area. Do not leave bags exposed to sun.
Shelf Life:	One year if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.



ARDEX ENGINEERED CEMENTS

Ardex Engineered Cements develops and manufactures specialty cements used by flooring and building professionals for substrate preparation, flooring installation and concrete repair and resurfacing. The company provides products to both the commercial and retail trades throughout North America and the world. To learn more about Ardex products, please visit www.ardex.com

New ARDEX Proper Prep™

Ardex Engineered Cements has taken its 30-year commitment to jobsite success to the next level with the new ARDEX Proper Prep™ Program. As part of the ongoing goal to provide the best product choices and recommendations, this program builds on Ardex' Engineered Product Technology, the value of installer interaction and hands-on training, and the full support of the Ardex Sales Professional network and Technical Service Department.

Every experienced contractor knows that all substrates are different, and that jobsite conditions vary tremendously, so a strong background in substrate preparation is essential to determine the correct preparation procedures for any installation.

Applying Proper Prep techniques is imperative for success with difficult substrates, especially such challenges as heavy cutback residue, curing compounds, sealers and solidly bonded floor finishes — and Ardex stands behind its recommendations. For more information, please call 888-512-7339 or your local Ardex Sales Professional.

SELF-LEVELING CONCRETE UNDERLAYMENTS

For fast-track leveling and smoothing of substrates prior to the installation of finished floor covering. These underlayments seek their own level and produce a smooth, flat, hard surface that hardens quickly and dries fast without shrinking, cracking or spalling.

	Pumpable	Over concrete	Over wooden floors	Over cutback adhesive residue	Over ceramic tile and terrazzo	Over Metal	Over above-grade gypsum	Max. installation thickness without aggregate	Max. installation thickness with aggregate	Curing time before installation of flooring	Compressive strength psi (ASTM C109/mod air cure only)	Portland cement-based	Water resistant
ARDEX SD-L™ SELF-LEVELING FLOORING UNDERLAYMENT A self-drying, self-leveling concrete for same day installation of flooring.	●	●	●	●	●	●	N/A	1/2"	N/A	when hard (2-3 hrs)	4700	●	●
#1 specified underlayment in North America ARDEX K 15® SELF-LEVELING UNDERLAYMENT CONCRETE High-strength, fast setting. Recommended and specified by major flooring manufacturers and architects.	●	●	●	●	●	●	N/A	1 1/2"	5"	16 hrs	4100	●	●
ARDEX LU-100™, SELF-LEVELING FLOORING UNDERLAYMENT Smooth new or existing concrete, VCT and existing patching, leveling or fill materials. (ABOVE GRADE ONLY)	●	●	N/A	●	N/A	N/A	N/A	2"	5"	2-3 days	4100	N/A	N/A
ARDEX V 1200™ SELF-LEVELING FLOORING UNDERLAYMENT Hardens quickly and dries fast without cracking or spalling.	●	●	N/A	●	●	N/A	N/A	1 1/4"	N/A	1-3 days	4000	●	●
ARDEX GS-4™ SELF-LEVELING UNDERLAYMENT FOR DISTRESSED GYPSUM AND WOOD SUBFLOORS An underlayment used for repairing gypsum and wood substrates prior to installing new flooring. (ABOVE GRADE ONLY)	●	N/A	●	N/A	N/A	N/A	●	2"	5"	2-3 days	4000	N/A	N/A



MOISTURE CONTROL SYSTEMS

ARDEX MC™ MOISTURE CONTROL SYSTEM

A two-coat epoxy resin system with sand broadcast to suppress excessive moisture vapor. Solvent-free, alkali resistant, low viscosity. For new or existing concrete substrates to receive ARDEX Underlayments and Toppings. Finished system reduces emissions from 20 lbs. or 95% RH to less than 3 lbs. overnight.

ARDEX S 21™ SMOOTHING COMPOUND/PATCH

Completely water and frost resistant. Specially formulated for use with the ARDEX MC™ MOISTURE CONTROL SYSTEM. For interior and exterior concrete on all grades.

SELF-DRYING UNDERLAYMENT PATCHES

Portland cement-based self-drying underlayments for rapid flooring installations. ARDEX FEATHER FINISH® and ARDEX SD-P® mix with water only – no latex or additives are necessary.

	Trowelable	Over concrete	Over wooden floors	Over cutback adhesive residue	Over ceramic tile and terrazzo	Max. installation thickness without aggregate	Max. installation thickness with aggregate	Curing time before installation of flooring	Compressive strength psi (ASTM C109/mod air cure only)	Portland cement-based	Water resistant	Self-drying
ARDEX SD-P® Trowelable, high-strength underlayment for smoothing, repairing, ramping and transitioning concrete floors. Hardens within 1 hour.	●	●	N/A	N/A	●	1"	3"	when hard (1 hr)	4200	●	●	●
ARDEX FEATHER FINISH® Install up to virtually any thickness with no primer or additives. No need to sand or grind surface.	●	●	●	●	●	any (in well defined areas)	N/A	when hard (½ hr)	4200	●	●	●

SELF-LEVELING CONCRETE TOPPING

For fast track installation of concrete wear surfaces in warehouses, utility rooms and light manufacturing. Use ARDEX SD-T® when installing ARDEX Designer Floors™ in areas such as retail, television studios and all interiors requiring such a surface.

	Pumpable	Over concrete	Max. installation thickness without aggregate	Max. installation thickness with aggregate	Curing time before covering or sealing	Compressive strength psi (ASTM C109/mod air cure only)	Portland cement-based	Water resistant	Self-drying	Recommended sealer	Able to take foot traffic
ARDEX SD-T® SELF-DRYING, SELF-LEVELING TOPPING Fast-track wear surface. Install and seal the same day. See ARDEX Designer Floors™.	●	●	2"	5"	when hard (2-3 hrs)	6100	●	●	●	ARDEX CG™	2 hrs
ARDEX K 500™ SELF-LEVELING CONCRETE TOPPING Self-leveling cementitious topping for resurfacing and leveling indoor concrete such as warehouse floors, utility areas and hallways.	●	●	1½"	5"	24 hrs	5300	●	●	N/A	ARDEX CG™	2 hrs

DESIGNER FLOORS™ & WALL FINISHES

ARDEX Designer Floors™ offer unlimited design possibilities – from natural cement gray to brilliant integral and topical colors, unique design patterns and custom logos.	ARDEX SD-T® SELF-DRYING, SELF-LEVELING TOPPING <ul style="list-style-type: none"> • Fast track indoor wear surface • Install and seal the same day • Color can be applied integrally and/or topically • Use with additional design elements, such as metal or wooden insets, or stencil blasted relief effects • Available in gray or white 	ARDEX SD-M™ DESIGNER FLOOR FINISH™ <ul style="list-style-type: none"> • Self-drying cementitious topping that provides a smooth surface at a minimum of only 20 mils thick • No primers or latex additives necessary • Micro-powder technology allows for greater coverage with excellent bond • Color can be applied integrally and/or topically • Available in gray or white 	ARDEX W 1™ DECORATIVE WALL FINISHING COMPOUND <ul style="list-style-type: none"> • Use for producing decorative wall and ceiling finishes for a faux-finish, stucco or plaster look • Outstanding adhesion to all common interior building surfaces • Rapid drying, non-cracking, white Portland cement-based • Can be textured before sealing by tooling, burnishing, polishing or stenciling
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PRIMERS

ARDEX EP 2000™ SUBSTRATE PREPARATION EPOXY PRIMER

A two-component epoxy formulated for use with ARDEX underlayments and toppings for critical substrates. Suited for concrete and non-porous substrates. Required primer for ARDEX DESIGNER FLOORS™.

ARDEX P 51™ PRIMER

For use over standard absorbent concrete. Seals the substrate and improves the bond of ARDEX underlayments and toppings. Non-toxic, non-flammable. Ready to install ARDEX underlayments or toppings in as little as 3 hours.

ARDEX P 82™ ULTRA PRIME

For non-porous concrete, ceramic tile, terrazzo, wood, cutback and metal substrates. High-strength and solvent-free. Improves bond of ARDEX underlayments. Ready to install ARDEX underlayments in as little as 3 hours.

CONCRETE RESTORATION & REPAIR

Repair and resurface damaged concrete surfaces such as parking decks, sidewalks, drieways and walls. (Freeze/thaw resistant.)

	Wear surface	Max. installation thickness without aggregate	Max. installation thickness with aggregate	Pot life	Sandable	Compressive strength psi (ASTM C109/mod air cure only)	Portland cement-based	Water resistant	Self-drying	Recommended sealer or topping	Curing time before painting or sealing
ARDEX CP™ CONCRETE PATCH Cementitious topping for filling and repairing outdoor and indoor concrete.	●	1/2"	1"	30-45 min.	N/A	3600	●	●	N/A	ARDEX CG™	24 hrs
										ARDEX CD™ or CD FINE™	4 hrs
ARDEX CD™ / ARDEX CD FINE™ CONCRETE DRESSING No primers or pre-wetting necessary before applying. Easily applied by trowel or squeegee.	●	1/4"	N/A	30 min.	N/A	4000	●	●	N/A	ARDEX CG™	when hard (2-3 hrs)
The ARDEX Wall Patching and Finishing System™ Wall patching and finishing products for use on interior/exterior overhead and vertical concrete and masonry surfaces prior to painting or sealing											
ARDEX TWP™ FINISHING COMPOUND For fast-track, small area repairs. High-yield that dries quickly.	N/A	unlimited (in well defined areas)	N/A	15-20 min.	●	N/A	●	●	●	ARDEX CG™	when hard (1/2 hr)
ARDEX OVP™ FINISHING COMPOUND For large area repairs. Long pot life with high-yield.	N/A	unlimited (in well defined areas)	N/A	90 min.	●	N/A	●	●	●	ARDEX CG™	when hard (2-3 hrs)

SEALERS

ARDEX CG™ CONCRETE GUARD™

A high-solids water-based acrylic concrete sealer for interior and exterior use. Easy to apply and quick drying. UV stable and non-flammable. Resists peeling and flaking. Available in clear or concrete gray.

ARDEX STONE OIL™ SEALER

Creates a water resistant surface. Intended for interior use over ARDEX SD-T® and ARDEX W 1™ in residential and commercial applications. Environmentally safe. Economical and easy to maintain.

• Charts are intended for selection purposes only. Please refer to each product's technical brochure and packaging for installation details, or visit www.ardex.com



MIRACLEBOND 1450



DESCRIPTION Miracle Bond 1450 is a multipurpose, high strength, slower curing epoxy bonding and repair adhesive system. Its specially formulated non-sag system is perfect for overhead and vertical repairs.

PROPERTIES Gel Time: 20 minutes @ 75°F
Tack Free Time: 100 minutes for ¼" film @ 75°F
Consistency: Non Sag Paste

COLOR	
Part A	Off White
Part B	Dark Gray
Mixed	Light Gray
Mix Ratio	1 : 1

GENERAL USES and APPLICATIONS

- ❖ Bonding fresh concrete to hardened concrete
- ❖ Bonding hardened concrete to hardened concrete
- ❖ Capping Paste around ports for Crack injection sealer
- ❖ Non-sag patching material for non-moving cracks and spalls. Great for overhead and vertical repair.
- ❖ Bonds to a multitude of substrates

ADVANTAGES and FEATURES

- ❖ Ideal as a bonding agent for almost any material including metal, concrete, brick, wood, stone, block and other substrates.
- ❖ 100% solids, solvent-free system with zero VOC content
- ❖ Ceramic blend formula that has high strength and high modulus.
- ❖ Moisture insensitive system for usage on damp surfaces

PACKAGING of MB 1450

BULK only	Part #
Quart Kit	B1Q-MB1450
Gallon Kit (102 fl. oz.)	BUG-MB1450

AVAILABILITY ATC Miracle Bond products are available through select distributors who can provide you with all your construction needs. Please contact ATC at (800) 892-1880 for a distributor near you.

WEBSITE www.ATC.ws

SHELF LIFE / STORAGE 24 month shelf life when stored in unopened containers in dry conditions and stored 40°F--95°F

Miracle Bond 1450 Technical Data				
Properties		ASTM		77°F
Gel time 60 gm sample @ 77°F	minutes	C881		20
Tack Free Time @ 77°F ¼" thick	minutes		100 (w / peak exotherm 90°F)	
Cure Free Time @ 77°F ¼" thick	hours		3 hours	
Tack Free Time @ 77°F 2" thick	minutes		22 (w / peak exotherm 240°F)	
Cure Free Time @ 77°F 2x2x2" cube	minutes		30 minutes	
Compressive Strength / Modulus - psi	1 hour		6,290 / 726,000	
Compressive Strength / Modulus - psi	3 hours		7,833 / 911,500	
Compressive Strength / Modulus - psi	24 hrs		11,211 / 1,207,400	
Compressive Strength / Modulus - psi	7 day	D695	12,761 / 1,341,800	
Bond Strength - psi	2 day	C882		
Bond Strength - psi	14 day	C882		
Shore D Hardness 2x2x2" cube in 1 hr.		D2240		80
Consistency or Viscosity		C881		Non-sag paste
Water Absorption		C413		0.14 %
Volatile Organic Compounds (VOC)	mixed			0 g / l

Miracle Bond can be used to replace a pool tile underwater. Apply adhesive to the dry tile and adhere to side wall or bottom surface of the pool. Hold in place for a few minutes. MB1450 is heavier than water and is not recommended for vertical crack or spall repair underwater.

LEED:
Certificate is available upon request

Adhesives



SET-XP High-Strength Anchoring Adhesive for Cracked and Uncracked Concrete

SET-XP® is a 1:1 two-component, high-solids, epoxy-based anchoring adhesive formulated for optimum performance in both cracked and uncracked concrete. SET-XP® adhesive has been rigorously tested in accordance with ICC-ES AC308 and 2009 IBC requirements and has proven to offer increased reliability in the most adverse conditions, including performance in cracked concrete under static and seismic loading.



Ultrabond 4CC AC-308 Approved Epoxy Anchoring Adhesive

Ultrabond 4cc is a high performance epoxy adhesive for anchoring and doweling applications in both Cracked and Un-Cracked concrete. It's TESTED IN ACCORDANCE TO ICC-ES AC-308 and Meets 2009 IBC requirements. Refer to ICC-ES ESR-3218 Evaluation Report.

- Anchoring threaded rods, bolts and fasteners into grout filled masonry, solid brick, or concrete
- Anchoring rebar dowels and smooth dowels into pavement/concrete
- Suitable for long term sustained loads and seismic bracing
- Can be used dry, water-saturated or water-filled and submerged applications with no load reductions
- Airport runways and taxi-way expansions, stadium seating, pallet racking
- Concrete traffic barriers to concrete bridge decks

Crack Kit

Our new and improved Crack-Kit with a patented T-Port System and observation windows is everything you need to perform crack injection and concrete repair to multiple applications.

General Uses:

- Crack injection
- Concrete crack and spa II repair
- Bonding concrete to concrete
- Patching Material
- Primer for industrial coatings
- Healer Sealer
- Epoxy Grouting
- Gravity fed structural crack repair
- Mortar when mixed with sand
- Capping paste sealer
- Fix cracks
- Repair Rotted wood
- Fix Loose railing
- Fix Broken steps
- Fix Broken Concrete



Kit Includes:

- 3ea. 6.1 oz. LR-321 Injection Resin
- 1ea. Qt. Kit Miracle Bond



Crackbond CSR (Rapid Cure Polyurethane Crack/Spall Repair)

General Uses

- Repairing cracks and spalls in high traffic areas
- Rebuild spa lied floor joints and concrete edges
- Repair concrete on bridge & parking decks
- Repair of interior and exterior hairline cracks
- Repair floors prior to floor grinding/polishing

Advantages and Features

- Penetrating super low viscosity provides high bond strength
- Reaches 4,900 psi in 1 hour
- (!) Use in temperatures down to 0°F
- Cures in 20 minutes
- Self-leveling
- Provides excellent results when polished
- Add aggregate for use as mortar



Ultrabond HS200 (Epoxy Anchoring Adhesive)

HS-200 Epoxy Anchoring Gel is a two component (2:1 ratio), 100% solids, high modulus, structural epoxy gel. It is a solvent free, no odor, high strength, moisture insensitive, non-sag epoxy system. HS-200 has a long working time (20 minutes at 75° F), while providing an anchor that can be loaded in as little as 4 hours. HS-200 has been tested in accordance with ICC - AC58 and is acceptable for long term tensile loads. It may also be used for short term tensile load anchors, which includes wind and seismic forces.



Crackbond JF-311 (Polyurea Joint Filler)

Crackbond JF-311 is a two component, rapid curing 1:1 ratio, polyurea joint filler used to fill control joints or new construction saw joints on horizontal concrete surfaces.

General Uses

- joint filler for control joints or new construction saw joints
- Specifically formulated for industrial floor applications receiving heavy-duty vehicle traffic.

Advantages and Features

- Self leveling
- 100% solids
- Flexible system that provides 10-15% movement of installed joint width
- Can be used at temperatures between -40°F- 120°F
- Rapid cure allows repaired joints to be opened to traffic within 90 minutes (at 72°F)

REZI-WELD™ 1000

Multi-Purpose, Medium Viscosity Construction Epoxy

Description

REZI-WELD 1000 is a medium-viscosity, two-component, construction-grade structural epoxy adhesive. It is moisture-insensitive and resistant to many chemicals. High modulus, high strength REZI-WELD 1000 is color coded to assure proper mixing and is self-leveling and easy to apply.

Packaging

- 1 Quart (.95 Liter) Units
- 1 Gallon (3.79 Liter) Units
- 2 Gallon (7.58 Liter) Units
- 10 Gallon (37.9 Liter) Units

Coverage

One gallon (3.79 L) neat yields 231 cubic inches (3785 cm³)

Specifications

- AASHTO M 235, Type I, II, IV & V, Grade 2, Classes B & C
- ASTM C 881, Type I, II, IV & V, Grade 2, Classes B
- Various Departments of Transportation Approvals



REZI-WELD™ GEL PASTE STATE

Construction Epoxy

Description

REZI-WELD GEL PASTE STATE is a high viscosity, high modulus, rapid-setting, thixotropic, structural, epoxy-based, chemical anchoring/bonding adhesive and injection gel. REZI-WELD GEL PASTE STATE provides high mechanical properties and bond strength to concrete and various other substrates. REZI-WELD GEL PASTE STATE is a two-component, moisture insensitive construction epoxy, which can be troweled, brushed, injected, or pumped.

Packaging

- 10 Gallon Units
- 9 Ounce Universal Cartridge, 12/case
- 22 Ounce Unitized Cartridge, 12/case

Coverage

- 22 oz. cartridge yields 21.2 fluid oz. / 38 cu. inches (627 ml)
- 9.0 oz cartridge yields 8.3 fluid oz. / 14.9 cu. inches (245 ml)
- 10-gal. unit yields 2,310 cubic inches (37.85 L)

Specifications

- ASTM C 881, Type I, II, IV, & V, Grade 3, Classes A, B & C
- AASHTO M 235, Type I, II, IV & V, Grade 3, Classes A, B & C
- I.C.C. AC-58 ER #4996



MasterEmaco® ADH1090RS

Liquid bonding adhesive with high early strength

DESCRIPTION

MasterEmaco ADH 1090RS is a two-component, 100% solids liquid epoxy bonding adhesive. It is used in areas where high early strength is required.

PRODUCT HIGHLIGHTS

- 1 to 1 mix ratio makes it easy to mix and use
- High early strength for rapid return to service
- Bonds to damp concrete surfaces
- Excellent adhesion to most rigid building materials makes it ideal for anchor-bolt applications in horizontal surfaces

APPLICATIONS

- Interior and exterior
- Bonding fresh concrete to existing concrete
- Grouting bolts, dowels, and rebar into concrete, stone, and masonry
- Filling joints and voids in masonry
- Bonding concrete to dissimilar materials like steel and wood



Test Data

PROPERTY	RESULTS	TEST METHOD
Tensile strength , psi (MPa)	5,000 (34.5)	ASTM D 638
Elongation at break , %, minimum	1	ASTM D 638
Compressive yield strength , psi (MPa)	11,500 (79)	
Compressive modulus , psi (MPa)	3.2 × 10 ⁵ (2.2 × 10 ⁹)	ASTM D 695
Slant shear strength , psi (MPa)		ASTM C 882
2 day wet / wet	2,000 (13.8)	
14 day wet / wet	2,400 (16.5)	
Water absorption , %	0.67	ASTM D 570

Test specimens were cured 7 days at 77° F (25° C) and tested at same temperature. Properties listed are typical and may be used as a guide for determining suitability for particular applications.

MasterEmaco® ADH 1490

General-purpose paste bonding adhesive

DESCRIPTION

MasterEmaco ADH 1490 is a two-component 100% solids nonsag epoxy adhesive. It is used for vertical and overhead bonding, patching applications, and for horizontal anchoring.

PRODUCT HIGHLIGHTS

- High early strength cure reduces downtime
- Nonsag consistency for overhead patching
- Moisture insensitive bonds to damp or dry surfaces
- Versatile formulation allows extension with properly graded sand.

APPLICATIONS

- Interior and exterior
- Horizontal and vertical
- Pinning loose or broken masonry
- Bonding concrete and other rigid materials
- Anchoring dowels and rebar
- Fairing uneven surfaces, filling gaps and joints
- As a rigid, pick-proof security sealant

Test Data

PROPERTY	RESULTS	TEST METHOD
Tensile strength , psi (MPa)	5,030 (34.5)	ASTM D 638
Elongation at break , %	1.8	ASTM D 638
Compressive yield strength , psi (MPa)	9,800 (67.6)	ASTM D 695
Compressive modulus , psi (MPa)	4.2 × 10 ⁵ (2.9 × 10 ⁹)	ASTM D 695
Slant shear strength , psi (MPa)	6,000 (41.4)	AASHTO T-237
Damp-to-damp concrete	100% concrete failure	AASHTO T-237
Flexural bond strength , psi (MPa)	580 (4.0)	ASTM C 293
Bond strength , psi (MPa), at 2 days	3,000 (20.7)	ASTM C 882
Pot life , min; 60 g, at 77° F (25° C)	70	
Water absorption , %	0.39	ASTM D 570

Test specimens cured 7 days at 77° F (25° C) and tested at same temperature. Properties listed are typical and may be used as a guide for determining suitability for particular applications.

MasterEmaco® ADH 327

Paste epoxy concrete bonding adhesive with long pot life

DESCRIPTION

MasterEmaco ADH 327 is a two-component 100% solids non-sag epoxy adhesive. It is designed for use in vertical and overhead bonding and patching applications and for anchoring.

PRODUCT HIGHLIGHTS

- Non-sag gel ideal for vertical and overhead applications
- Very long working time
- Moisture insensitive bonds to damp concrete surfaces
- May be extended with properly graded sand for more economical applications

APPLICATIONS

- Interior and exterior
- Horizontal, vertical, and overhead surfaces
- Pinning loose or broken masonry
- Bonding rigid materials like metal, concrete, stone
- Bonding flexible materials like plastics, foam, rubber
- Fairing uneven surfaces, filling gaps and joints
- Bonding fresh to existing concrete
- Grouting bolts, dowels, and rebar into concrete, stone, and masonry
- As a rigid, pick-proof security sealant use

Test Data

PROPERTY	RESULTS	TEST METHOD
Tensile strength , psi (MPa)	2,000 (13.8)	ASTM D 638
Elongation at break , %	4	ASTM D 638
Compressive yield strength , psi (MPa)	8,000 (55.2)	ASTM D 695
Compressive modulus , psi (MPa)	4.0 × 10 ⁵ (2.8 × 10 ⁹)	ASTM D 695
Heat deflection temperature , 28 day cure, ° F (° C)	128 (53)	ASTM D 648
Slant shear strength , psi (MPa)	> 5,000 (34.5)	AASHTO T-237
Bond strength , at 14 days, psi (MPa)	1,500 (10.3)	ASTM C 882

Test Temperature: 77° F (25° C), cured 7 days. Properties listed are typical and may be used as a guide for determining suitability for particular applications.

**LIQUID
NAILS®**
ADHESIVE

HEAVY DUTY

CONSTRUCTION ADHESIVE

LN-903/LNP-903

Interior & Exterior

Features

- ✓ VOC compliant...
- ✓ Strong and versatile
- ✓ Low odor...
- ✓ High solids
- ✓ Nonshrinking
- ✓ Fast curing
- ✓ High strength
- ✓ Long open time
- ✓ Will not freeze

Where to Use

- Treated and untreated lumber
- Foam insulation
- Brick
- Metal
- Concrete
- Masonry
- Most rigid building materials
- Interior and exterior

Benefits

- ✓ Environmentally friendly
- ✓ Permanently bonds together almost anything
- ✓ Safe to use indoors or out
- ✓ No odor complaints
- ✓ Replaces solvent-based adhesives
- ✓ Excellent coverage
- ✓ Does not crack or lose bond
- ✓ Permanent overnight bond
- ✓ Stronger than many substrates it joins together
- ✓ Up to 3 times the strength of conventional adhesives
- ✓ Flexibility in repositioning, user friendly
- ✓ Can be applied to frozen lumber
- ✓ Suitable in hot and cold environments

For Best Performance

- Wear gloves during application of adhesive; once cured, material cannot be removed.
- Not intended for applications with continuous submersion.
- If adhesion to a substrate is questionable, a test application must be conducted.



Surface Preparation

- Surfaces must be structurally sound, dry, clean, and free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofings, curing and parting compounds, and membrane materials

Method of Application

- Apply by caulking gun or trowel
- Wearing gloves during application is highly recommended. Once material has cured it cannot be removed
- Because of Liquid Nails Adhesive's high strength, do not apply it as heavily as you would a conventional adhesive. Cut the smallest possible opening in the spout to render the appropriate-sized bead. Be certain to fill all gaps between materials.
- Materials may be repositioned without loss of adhesive strength up to 1 hour after application.
- Use mechanical fasteners to hold materials in place until adhesives has fully cured.

Curing Time

- Liquid Nails Adhesive forms a tenacious bond overnight. Cure time varies with temperature, humidity, and the porosity of the materials joined.

Clean Up

- Clean all tools and equipment immediately after use with a dry cloth. Cured material must be mechanically removed.



ROADWARE 10 MINUTE CONCRETE MENDER™

Roadware 10 Minute Concrete Mender is a two-part polyurethane that penetrates deep into concrete to make permanent repairs. Nearly thin as water at less than 8cps, Concrete Mender™ actually injects itself into the matrix of the concrete and shores up the existing concrete as well as making the repair. Concrete Mender™ eliminates the bond-line as it

Microdowels into the concrete.



Roadware MatchCrete™ Clear (MCC)

Roadware MatchCrete Clear is a two component aliphatic polyurethane for repairing cracks, spalls, and joints in concrete subject to UV exposure from sunlight. This material is clear in appearance when applied and cured. Colored sand and pigments may be added to create color stable repairs that match most any decorative style or shade of concrete surface. MCC will not significantly change color with exposure to sunlight over time. Use for repairing floor imperfections prior to concrete polishing or repairing damaged polished concrete.

Roadware MatchCrete™ Clear (MCC) is used to quickly repair cracks and spalls in concrete that is exposed to sunlight and a color compatible appearance over time is desired.

Roadware Flexible Cement II,

Roadware Flexible Cement II, the advanced concrete repair material that is easy to apply and stays in place permanently under thermal or shock movement.

This moisture tolerant two part urethane is great for repairing cracks and control joints subject to deflection, movement, and thermal expansion or contraction. Flexible Cement is perfect for protecting saw-cut control joints in new concrete construction.



FSTR Adhesives

We want to save you time and frustration when installing or bonding things to concrete.

We do this by making innovative adhesives using the latest developments in polymer technology. New breakthroughs in "green" polyurethanes allow us to produce better products with improved performance using renewable materials.

Weld-Crete®

Weld-Crete bonds new concrete, stucco, tile setting beds and terrazzo to any structurally sound surface, interior or exterior. Use Weld-Crete's® open time to your advantage in bonding to concrete shear walls when you need a time lapse between application of bonding agent, placement of reinforcement steel, placement of formwork and placement of concrete.





All Purpose Gravel - used to extend and strengthen cement mixes 50# bag



QUIKRETE® 5000 High Early Strength Concrete Mix #1007

Technical Data

QUIKRETE 5000 meets or exceeds the compressive strength requirements of ASTM C387 for high early strength concrete. Typical compressive strengths are:

- 24 hr - 1500 psi (10.4 MPa)
- 3 days - 2500 psi (17.3 MPa)
- 7 days - 3500 psi (24.2 MPa)
- 28 days - 5000 psi (34.5 MPa)

Also from QUIKRETE®

Hydrated Lime - used as an admixture for mortar mixes.
50# bags

Sand - 12, 20, 30, 60 Mesh

Blacktop Patch Repair

Mortar Mix

Rock Salt



QUIKRETE® Mason Mix #1136

Product Description

QUIKRETE Mason Mix is a contractor grade mortar mix designed for laying brick, concrete masonry units and stone.

Application Standards

American Society for Testing & Materials (ASTM)

- ASTM C270-97 - Standard Specification for Mortar for Unit Masonry
- ASTM C387-95 - Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete



QUIKRETE® Concrete Mix #1101

Physical/Chemical Properties

QUIKRETE Concrete Mix exceeds the compressive strength requirements of ASTM C387

White Cement - 94# bags
type I cement

Plastic Cement - 94#
bags - used mainly for plastering applications - air entrained for workability.



Concrete Mix Patch and Repair



Rapid Set® Cement All™

Fast Setting, High Strength, Multi-Purpose, Non-Shrink Grout

Product Description: When mixed with water Cement All™ produces a workable, high quality repair material that is ideal where rapid strength gain, high durability and low shrinkage are desired. Apply Cement All™ in thicknesses from featheredge to 4-inches. Durable in wet environments. SETS IN 15 MINUTES & IS READY FOR TRAFFIC IN 1-HOUR. One 55 lb. bag of Rapid Set® Cement All™ yields approximately 0.5 cubic feet.

Uses: Cement All™ is a multipurpose product that can be used for general concrete repair, doweling and anchoring, industrial grouting, formed work, airport projects, and highway repair.



Rapid Set® Concrete Mix

Very Fast Setting Concrete

Product Description: When mixed with water Concrete Mix produces a workable, high quality concrete material that is ideal where fast strength gain, high durability and low shrinkage are desired. Apply Concrete Mix in thicknesses from 2-in to 24-in. Durable in wet environments. SETS IN 15 MINUTES & IS READY FOR TRAFFIC IN 1-HOUR. One 60-lb. bag of Rapid Set® Concrete Mix will yield approximately 0.5 cubic feet.

Uses: Concrete Mix is a multipurpose, fast setting product that can be used for repair and construction of pavements, formed work, footings, setting posts, industrial floors, machine bases, and concrete repair.



Wunderfixx® Concrete Patching Compound

Product Description: WunderFixx® Concrete Patching Compound is a durable, fast setting, one component concrete patching material formulated with a premium grade hydraulic cement, high performance polymers, and a finely ground aggregate. When mixed with water WunderFixx® produces a workable, easy to apply mixture with excellent bonding characteristics. Trowel WunderFixx® over existing concrete in thicknesses from feather-edge to 1/2" to achieve a smooth and uniform concrete appearance. After application, WunderFixx® may be sanded to achieve an ultra smooth finish.

Uses: Use WunderFixx® for patching and detailing on tilt-up panels, pre-cast concrete, concrete block, and other concrete surfaces. It is suitable for moist environments on interior and exterior projects.



Rapid Set® Mortar Mix

Fast Setting, High-Strength Mortar

Product Description: When mixed with water Mortar Mix produces a workable, high quality mortar that is ideal where rapid strength gain, high durability and low shrinkage are desired. Apply Mortar Mix in thicknesses from 1/2-in to 6-in. Durable in wet environments. **SETS IN 15 MINUTES & IS READY FOR TRAFFIC IN 1-HOUR.** One 55 lb. bag of Rapid Set® Mortar Mix will yield approximately 0.5 cubic feet.

Mortar Mix is a versatile product that can be used for general concrete repair, stucco & plaster repair, one-coat exterior plaster, mortar beds, underlayments, and formed work. Mortar Mix is suitable for vertical and overhead applications. Rapid Set® Mortar Mix is a high performance blend of Rapid Set® hydraulic cement and quality sand. Mortar Mix is non-metallic and no chlorides are added. Rapid Set® Mortar Mix is similar in appearance to portland cement based mortars and may be applied using similar methods.



MASTEREMACO T Traffic area repair

One-component, high early strength mortars allow for versatile and durable repairs in horizontal patching and formed vertical applications. One product allows rubber tire traffic within 45 minutes, while another will accept a polymer topping in as little as four hours after placement at 70°F (23°C).

Technical Data

		MASTEREMACO T415	MASTEREMACO T430	MASTEREMACO T545	MASTEREMACO T545HT
Supply form		powder	powder	powder	powder
Application temperature	°F (°C)	20 to 85 (-7 to 29)	20 to 100 (-7 to 38)	20 to 85 (-7 to 29)	40 to 100 (-4 to 38)
Pot life (minutes)	@72°	12	45	10	22
Initial set (minutes)	@72°	14 to 21	65 to 75	10 to 15	25 to 35
Final set (minutes)	@72°	20 to 36	80 to 90	12 to 20	20 to 40
Compressive strength, psi (MPa)	1 hour			2,000 (13.8)	
	2 hour	1,500 (10)			
	3 hour		1,000 (7)	5,000 (34.5)	3,000 (20.7)
	1 day	4,500 (30)	4,500 (31)	6,000 (41.4)	6,000 (41.4)
	7 day	8,000 (55)	7,800 (54)		
	28 day	9,000 (62)	9,000 (62)	8,500 (58.6)	8,000 (55.2)
Flexural strength, psi (MPa)	28 day	1,100 (7.6)	1,150 (7.9)	1,125 (7.8)	1,125 (7.8)
Slant shear bond strength, psi (MPa)	28 day	3,100 (21.4)	3,360 (23.2)		
Freeze/thaw resistance	28 day	>98%	>88%	>80%	>80%
Rapid chloride permeability	Coulombs	960 (very low)	990 (very low)	122 (very low)*	836 (very low)*

Data obtained from neat materials, except * with aggregate extension.

Product Comparison

Product	Description	Layer Thickness			Working Time			Application		
		Horizontal	Horizontal (with siliceous pea gravel)	Vertical	Fast	Med	Long	Corrosive Environment	Low Temperature	Over-Coatable with Resins
MASTEREMACO T415	Very rapid hardening cementitious patching and repair mortar that offers high early strengths.	1/4 to 1 in. (6 to 25 mm)	>1 in. (25 mm)	1/4 to 1 in. (6 to 25 mm)	*				*	*
MASTEREMACO T430	Rapid hardening and high early strength cementitious repair and overlay mortar.	1/4 to 1 in. (6 to 25 mm)	>1 in. (25 mm)	1/4 to 1 in. (6 to 25 mm)			*			*
MASTEREMACO T545	Ultra high early strength magnesium phosphate-based patching and repair mortar.	1/2 to 1 in. (12 to 25 mm)	1 to 4 in. (25 to 100 mm)*	1/2 to 1 in. (12 to 25 mm)	*			*	*	
MASTEREMACO T545HT	High early strength magnesium phosphate-based patching and repair for mortar for large applications and hot weather conditions.	1/2 to 1 in. (12 to 25 mm)	>1 (25 mm)*	1/2 to 1 in. (12 to 25 mm)		*		*		

MASTEREMACO T545HT is recommended for deep placement.

MASTEREMACO S Structural Repair

A complete range of one component, rheoplastic, cement-based mortars that offer shrinkage compensation, excellent bond, low permeability and corrosion inhibition. Different products allow for varied application techniques in vertical and overhead installations, such as low pressure spray, hand trowel and form and pour to achieve labor savings.

Product Comparison

Product	Description	Layer Thickness			Strength Development		Application			
		Vertical	Overhead	Horizontal	Med	Fast	Spray	Trowel	Pump	Form & Pour
MASTEREMACO S488CI	Thixotropic, trowel or spray applied repair mortar that is fiber reinforced and silica fume-modified to offer high strength and shrinkage compensation	3/8 to 2 in. (10 to 50 mm)	3/8 to 1-1/2 in. (10 to 40 mm)			*	*	*		
MASTEREMACO S477CI	Very flowable, rheoplastic repair mortar that is silica fume-modified to offer high strength and shrinkage compensation	3/8 to 1-1/2 in. (10 to 40 mm)	3/8 to 1-1/2 in. (10 to 40 mm)		*	*	*	*	*	*
MASTEREMACO S466CI	Flowable, rheoplastic repair concrete that is silica fume-modified to offer corrosion resistance and shrinkage compensation	1 in. (25 mm) to full depth	1 in. (25 mm) to full depth	1 in. (25 mm) to full depth	*				*	*

Technical Data

		MASTEREMACO S488CI	MASTEREMACO S477CI	MASTEREMACO S466CI
Supply form		powder	powder	powder
Compressive strength, psi (MPa)	1 day	3,500 (24.1)	3,400 (23.5)	2,500 (17.2)
	7 day	8,000 (55.2)	8,000 (55.2)	6,000 (41.4)
	28 day	11,000 (75.8)	12,000 (82.8)	8,000 (55.2)
Flexural strength, psi (MPa)	28 day	1,300 (9.0)	1,450 (10.0)	770 (5.3)
Slant shear bond strength, psi (MPa)	28 day	3,000 (20.7)	3,100 (21.4)	3,300 (22.8)
Modulus of elasticity, psi (GPa)	28 day	5.0 x 10 ⁶ (34.5)	4.9 x 10 ⁶ (33.8)	5.9 x 10 ⁶ (40.7)
Rapid chloride permeability	Coulombs	772 (very low)	870 (very low)	650 (very low)*

MASTEREMACO NCI

Surface Renovation

A complete range of one-component, polymer-modified, cement-based repair mortars offering good workability, very low permeability, corrosion inhibition, shrinkage compensation and fast strength gain for quick turnaround. Different products within the range allow for resurfacing distressed concrete on vertical, horizontal or overhead areas, both interior and exterior.

Technical Data

		MASTEREMACO N300CI	MASTEREMACO N310CI	MASTEREMACO N320CI	MASTEREMACO N350CI
Supply form		powder	powder	powder	powder
Color		Concrete gray	Concrete gray	Concrete gray	Concrete gray
Compressive strength, psi (MPa)	1 day	2,000 (13.8)	2,500 (17.2)	1,800 (12.4)	1,500 (10.4)
	7 day	5,000 (34.5)	5,500 (37.9)	5,000 (34.5)	3,500 (24.2)
	28 day	7,000 (48.3)	7,500 (51.7)	7,000 (48.3)	5,000 (34.5)
Flexural strength, psi (MPa)	28 day	1,200 (8.3)	1,500 (10.3)	1,450 (10.0)	900 (6.2)
Slant shear bond strength, psi (MPa)	28 day	2,100 (14.5)	2,100 (15.2)	2,300 (15.9)	1,500 (10.4)
Modulus of elasticity, psi (GPa)	28 day	2.7 x 10 ⁶ (18.6)	2.9 x 10 ⁶ (20.0)	3.2 10 ⁶ (22.1)	2.0 x 10 ⁶ (14.0)
Rapid chloride permeability	Coulombs	1,087 (very low)	850 (very low)	n/a	300 (very low)

Product Comparison

Product	Description	Layer Thickness			Strength Development		Application			
		Vertical	Overhead	Horizontal	Med	Fast	Spray	Trowel	Pump	Form & Pour
MASTEREMACO N300CI	Polymer-modified leveling and skim coat mortar for vertical and horizontal applications	up to 1 in. (25 mm)		up to 1/4 in. (6 mm)	•		•	•		
MASTEREMACO N310CI	Polymer-modified fast-setting patching and resurfacing mortar for horizontal applications.	1/4 to 1 in. (6 to 25 mm)		1/4 to 1 in. (6 to 25 mm) or 1 to 3 in.* (25 to 76 mm)		•		•	•	
MASTEREMACO N320CI	Polymer-modified, fiber-reinforced patching and resurfacing mortar for vertical and overhead applications.	1/4 to 1-1/2 in. (6 to 38 mm)	1/4 to 1-1/2 in. (6 to 38 mm)		•		•		•	•
MASTEREMACO N350CI	Polymer-modified, lightweight high-build patching mortar for vertical and overhead applications.	0 to 2-1/4 in. (0 to 70 mm)	0 to 2-1/4 in. (0 to 70 mm)		•		•			•

* with pea gravel

MASTEREMACO T545

Chemical action repair mortar

MASTEREMACO T545 is a one-component concrete repair and anchoring material which sets in 15 minutes and takes rubber tire traffic 45 minutes after placement. This product bonds to both concrete and masonry and can be used indoors and outdoors for a variety of highway and heavy industrial repair jobs. It comes in two formulations- MASTEREMACO T454 Regular for use in ambient temperatures below 85 degrees F (29 degrees C) and MASTEREMACO T545HW for use in ambient temperatures ranging from 85 to 100 degrees F (29 to 38 degrees C).

Note: Regardless of temperature, MasterEmaco T454HW formula with aggregate should be used for deep placements

Technical Data

Performance Data:

Typical Compressive Strengths: psi (MPa) (Materials and Curing Times at Specified Temperatures) ASTM C 109 (Modified)
 (All tests were performed with neat (no aggregate) material.)

	Plain Concrete		MasterEmaco T545		MasterEmaco T545		MasterEmaco T545HW	
	@72°F (22°C)		@72°F (22°C)		@36°F (2°C)		95°F (35°C)	
1 hour	-	-	2,000 (13.8) ³		-	-	-	-
3 hour	-	-	5,000 (34.5)		-	-	3,000 (20.7)	
6 hour	-	-	5,000 (34.5)		1,200 (8.3)		5,000 (34.5)	
1 day	500 (3.5)		6,000 (41.4)		5,000 (34.5)		6,000 (41.4)	
3 day	1,900 (13.1)		7,000 (48.3)		7,000 (48.3)		7,000 (48.3)	
28 day	4,000 (27.6)		8,500 (58.6)		8,500 (58.6)		8,500 (58.6)	

Only MasterEmaco T454, tested at 72 degrees F (22 degrees C), obtains 2,000 psi (13.8 MPa) compressive strength in one hour.

- Easy-to-use—just add water
- Wide temperature use range—from below freezing to hot weather exposure
- Rapid, high-early strength—when 2 in. (51 mm) cubes are tested, the results show approximately 2,000 psi (13.8 MPa) compressive strength in one hour
- Superior bonding—no bonding agent is needed
- Resistant to freeze/thaw cycles and deicing chemicals.
- Thermal expansion/contraction rate similar to that of plain, Portland cement concrete
- Virtually no drying shrinkage
- Only air-curing required

MASTERFLOW® 928

High-precision, nonshrink natural aggregate grout with extended working time

Description

MASTERFLOW® 928 grout is a high-precision, nonshrink natural aggregate grout with extended working time. It is ideally suited for grouting machines or plates requiring precision load-bearing support. This specially formulated precision grout can be placed at a variety of consistencies – from fluid to damp-pack – over a wide temperature range, 45 to 90°F (7 to 32°C). MASTERFLOW® 928 grout meets the requirements of ASTM C 1107 and the Army Corp of Engineers' CRD C 621, Grades B and C.

Features/Benefits

- Meets ASTM C 1107 and CRD C 621, Grades B and C, requirements at a fluid consistency over a temperature range of 45 to 90°F (7 to 32°C) over a 30-minute working time
- Can be mixed at a wide range of consistencies to ensure proper placement under a variety of application conditions
- Extended working time to ensure sufficient time for placement
- Hardens free of bleeding, segregation, or settlement shrinkage
- Contains high-quality, well-graded quartz aggregate for optimum strength and workability
- Sulfate resistant
- Freeze/thaw resistant

Flexural Strength (ASTM C 78) ¹		
	psi	MPa
3 days	1,000	6.9
7 days	1,050	7.2
28 days	1,150	7.9

Modulus of Elasticity (ASTM C 469, Modified) ²		
	psi	MPa
3 days	2.82 x 10 ⁶	1.94 x 10 ⁵
7 days	3.02 x 10 ⁶	2.08 x 10 ⁵
28 days	3.24 x 10 ⁶	2.23 x 10 ⁵

Coefficient of Thermal Expansion (ASTM C 531) ³	
6.5 x 10 ⁻⁶ in./in./°F (11.7 x 10 ⁻⁶ mm/mm/°C)	

Split Tensile and Tensile Strength (ASTM C 496 and ASTM C 190) ⁴				
	Split Tensile		Tensile	
	psi	MPa	psi	MPa
3 days	575	4.0	490	3.4
7 days	630	4.5	500	3.4
28 days	675	4.7	500	3.4

¹ 100-125% flow on flow table per ASTM C 230
² 125-145% flow on flow table per ASTM C 230
³ 25 to 30 seconds through flow cone per ASTM C 939

⁴ Test conducted at a fluid consistency
 Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Technical Data

Compliances

- Meets ASTM C 1107 and CRD 621, Grade B and C requirements at a fluid consistency over a temperature range of 40 to 90°F (4 to 32°C).

	Typical Compressive Strengths (ASTM C 109, ASTM C 942, Modified) ¹					
	Consistency					
	Plastic ¹		Flowable ²		Fluid ³	
	psi	MPa	psi	MPa	psi	MPa
1 day	4,500	31	4,000	28	3,500	24
3 days	6,000	41	5,000	34	4,500	31
14 days	7,500	52	6,700	46	6,500	45
28 days	9,000	62	8,000	55	7,500	52

	Volume Change (ASTM C 1090) ⁴		
	Requirement per ASTM C 1107, %		
	Plastic ¹	Flowable ²	Fluid ³
1 day	0.0	0.0	0.0-0.30
3 days	0.04	0.0	0.0-0.30
14 days	0.05	0.0	0.0-0.30
28 days	0.06	0.0	0.0-0.30

	Setting Time (ASTM C 191) ⁵		
	Consistency		
	Plastic ¹	Flowable ²	Fluid ³
Initial Set (Hr./Min.)	2:30	3:00	4:30
Final Set (Hr./Min.)	4:00	5:00	6:00

MASTERFLOW® 555

Fluid, nonshrink, natural aggregate grout

Description

MASTERFLOW® 555 grout is a fluid, nonshrink, natural aggregate grout. It is ideally suited for grouting machines or plates requiring optimum load-bearing support. MASTERFLOW 555 grout meets the requirements of ASTM C 1107 and the Army Corps of Engineers CRD C 621, Grades B and C at a fluid consistency.

Recommended for

- Nonshrink grouting of
 - Machinery and equipment - baseplates and soleplates
 - Precast wall panels, beams and columns, curtain walls, concrete systems, and other structural and nonstructural building members
 - Anchor bolts, reinforcing bars and dowel rods
- Repairing concrete, including grouting voids, rock pockets and large cracks
- Applications requiring high one-day and later-age compressive strengths
- Applications requiring nonshrink grout to achieve maximum bearing for optimum load transfer

Features/Benefits

- Meets ASTM C 1107 and CRD C 621, Grades B and C requirements at a fluid (30 to 40 second flow) consistency over a temperature range of 50 to 90°F (10 to 32°C)
- Fluid consistency and good working time provides excellent handling and placement capabilities
- Can be installed over a temperature range of 50 to 90°F (10 to 32°C)
- Hardens free of bleeding, segregation, or settlement shrinkage ensuring optimum performance in the hardened state
- Free of inorganic accelerators, including chlorides or other salts that are detrimental to reinforcing steel

Typical Compressive Strengths

(ASTM C 109, Modified)

	Consistency		
	Plastic ¹	Flowable ²	Fluid ³
	psi (MPa)	psi (MPa)	psi (MPa)
1 day	4,200 (29)	3,700 (26)	3,000 (21)
3 days	5,800 (40)	4,500 (31)	4,700 (29)
7 days	7,300 (50)	6,500 (45)	6,200 (43)
28 days	8,500 (59)	7,500 (52)	7,000 (48)

Volume Change (ASTM C 1090)

	% Change MASTERFLOW 555 Grout	% Change Specified by ASTM C 1107
1 day	0.05	0.0 to 0.30
3 days	0.05	0.0 to 0.30
7 days	0.10	0.0 to 0.30
28 days	0.10	0.0 to 0.30

Setting Time, Fluid Consistency⁴ Final Set (hr./min): (ASTM C 191) 6:00

¹ 100 to 125 % flow on flow table per ASTM C 230.

² 125 to 145 % flow on flow table per ASTM C 230.

³ 30 seconds through flow cone per ASTM C 939.



MasterFlow® 100

General construction, mineral-aggregate non-shrink grout

DESCRIPTION

MasterFlow 100 is a non-catalyzed, multi-purpose construction grout containing mineral aggregate.

PRODUCT HIGHLIGHTS

- Concrete gray color (after curing) blends in with surrounding concrete
- No accelerators, including chlorides or other similar salts, will not contribute to corrosion of reinforcing steel
- Can be extended with clean, well-graded coarse aggregate to fill large voids
- Hardens free of bleeding when properly placed and yields a high effective bearing area for proper support and load transfer

APPLICATIONS

- Interior and exterior
- Normal loads for columns and baseplates
- Bedding grout for precast panels
- Repairing of cavities resulting from ineffective concrete consolidation
- Caulking concrete pipe
- Backfilling, underpinning foundations, and pressure grouting of slabs needing alignment
- General construction applications
- Damp pack applications

Test Data

PROPERTY	RESULTS	TEST METHOD
Flow , %, 5 drops	120–140	ASTM C230
Volume change , %, flowable consistency, after 28 days	0.07	ASTM C 1090
Compressive strength , psi (MPa)		ASTM C 109
	Flowable¹	Consistency Plastic²
		Stiff³ (damp pack)
1 day	1,500 (10)	—
3 days	5,000 (34.5)	6,000 (41.4)
7 days	6,000 (41.3)	8,000 (55.2)
28 days	7,000 (48.0)	10,000 (68.9)
		10,500 (72.4)

¹ 130% flow on flow table, ASTM C 230, 5 drops in 3 seconds

² 110% flow on flow table, ASTM C 230, 5 drops in 3 seconds

³ 40% flow on flow table, ASTM C 230, 5 drops in 3 seconds

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.



MasterFlow® 885

High-precision, non-shrink metallic aggregate grout with extended working time

PRODUCT HIGHLIGHTS

- High strength and impact resistance
- High fluidity for ease of placement; self-consolidating
- Extended 30 minute working time ensures proper placement under a variety of conditions
- Pumpable
- High tolerance for wetting and drying cycles
- Non-shrink
- Hardens free of bleeding, segregation, or settlement shrinkage to provide maximum effective bearing area for optimum load transfer
- High tolerance to thermal movement, effects of heating and cooling making MasterFlow 885 ideal for harsh manufacturing environments
- High quality well-graded blend of metallic and quartz aggregate provides high strength, impact resistance; handles dynamic and repetitive loads
- Sulfate resistant for use in marine, wastewater, and sulfate-containing soil environments
- MasterFlow 885 grout meets the requirements of ASTM C 1107 and the U.S. Army Corp of Engineers CRD C 621, Grades B and C.
- Freeze/thaw resistant making it suitable for exterior applications

DESCRIPTION

MasterFlow 885 is a cement-based metallic aggregate grout with extended working time. It is ideally suited for grouting machines or plates requiring optimum toughness and precision load-bearing support, including machine bases subject to thermal movement.

Test Data

PROPERTY	RESULTS	TEST METHOD
Compressive strengths , psi (MPa)		ASTM C 942, according to ASTM C 1107
	Plastic¹	Consistency Flowable²
		Fluid³
1 day	5,000 (34)	5,000 (34)
3 days	7,000 (48)	6,000 (41)
7 days	9,000 (62)	8,000 (55)
28 days	11,000 (76)	10,000 (69)
	9,000 (62)	9,000 (62)
Volume change		ASTM C 1090
	% Change	% Requirement of ASTM C 1107
1 day	> 0	0.0 – 0.30
3 days	0.05	0.0 – 0.30
14 days	0.07	0.0 – 0.30
28 days	0.08	0.0 – 0.30
Setting time , hr:min		ASTM C 191
	Plastic¹	Consistency Flowable²
		Fluid³
Initial set	3:30	5:30
Final set	4:30	6:00
	8:00	
Flexural strength ,* psi (MPa)		ASTM C 78
3 days	880 (6.1)	
7 days	1,050 (7.2)	
28 days	1,150 (7.9)	
Modulus of elasticity ,* psi (MPa)		ASTM C 469, modified
3 days	3.16 x 10 ⁶ (2.18 x 10 ⁶)	
7 days	3.50 x 10 ⁶ (2.41 x 10 ⁶)	
28 days	3.69 x 10 ⁶ (2.54 x 10 ⁶)	
Coefficient of thermal expansion ,* in/in/° F (cm/cm/° C)	6.5 x 10 ⁻⁶ (11.7 x 10 ⁻⁶)	ASTM C 531
Punching shear strength ,* psi (MPa), 3 by 3 by 11" (76 by 76 by 279 mm) beam		BASF Method
3 days	1,600 (11.0)	
7 days	1,800 (12.4)	
28 days	2,600 (17.9)	
Splitting tensile and tensile strength ,* psi (MPa)		ASTM C 496 (splitting tensile) ASTM C 190 (tensile)
	Splitting Tensile	Tensile
3 days	350 (2.4)	300 (2.1)
7 days	490 (3.4)	400 (2.8)
28 days	520 (3.6)	500 (3.4)

¹100–125% flow on flow table per ASTM C 230

²125–145% flow on flow table per ASTM C 230

³25 to 30 seconds through flow cone per ASTM C 939

*Test conducted at a fluid consistency

This data was developed under controlled laboratory conditions. Expect reasonable variations



CCW MIRACLAY

CCW MiraCLAY has a uniform layer of sodium bentonite clay that is sandwiched between a durable puncture resistant nonwoven polypropylene fabric and a high tensile strength woven polypropylene fabric and then needlepunched together with thousands of high strength denier yarns. These fibers are then thermally fused to the polypropylene in a proprietary Infrabond™ procedure that locks the sodium bentonite into place.

Typical Properties

Property	Method	Unit	Typical Value
Bentonite Mass/Unit Area	ASTM D5993	in (mm)	0.40 (10.16)
Nonwoven	ASTM D5261	oz/yd ² MARV ¹	6.0 (200)
Woven		(g/m ² MARV)	3.1 (105)
Swell Index	ASTM D5890	—	24 ml (2 g) min
Moisture Content	ASTM D4643	% max	12
Fluid Loss	ASTM D5891	ml max	18
Tensile Strength ²	ASTM D6768	lb/in MARV	30 (5)
		(kN/m MARV)	
Peel Strength	ASTM D6496	lbs/in MARV N/m MARV	3.5 (610)
Permeability ³	ASTM D5887	m/s max	5 x 10 ⁻¹¹
Index Flux ³	ASTM D5887	m ³ /m ² /s max	1 x 10 ⁻⁸
Internal Shear Strength ⁴	ASTM D6243	psf (kPa)	500 (24)
Elongation ⁵	ASTM D4632	%	150
Low Temperature Flexibility	ASTM D1970	@ -25°F (-32°C)	Unaffected
Hydrostatic Head Pressure	ASTM D751	ft (meter)	228 (59.49)
Adhesion to Concrete	ASTM D903	lb/in (kg/cm)	17.7 (8)

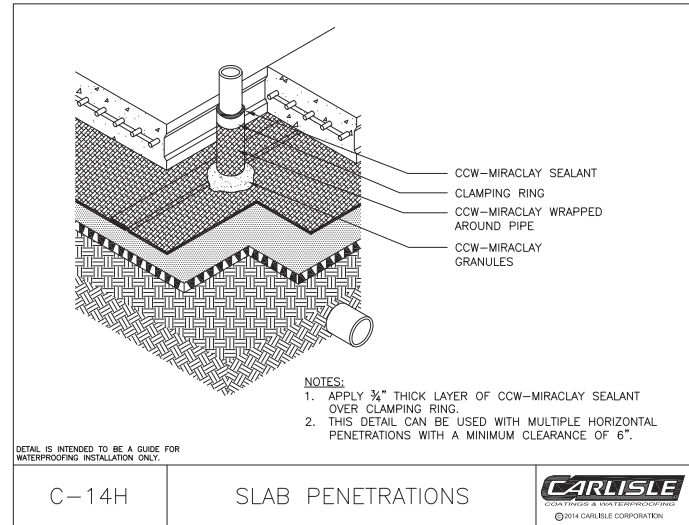
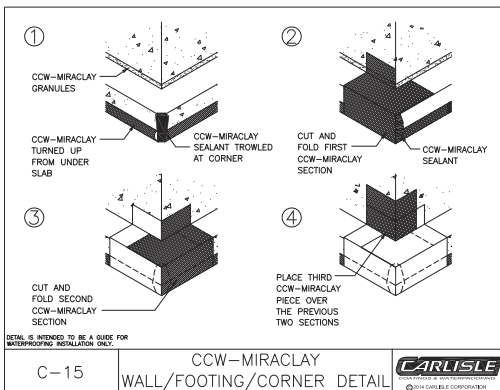
¹Minimum Average Roll Value

²Tested in machine direction

³Deaired, deionized water @ 5 psi (24.5 kPa) maximum effective confining stress and 2 psi (13.8 kPa) head pressure

⁴Typical peak value for specimen hydrated for 24 hours and sheared under a 200 psf (9.5 kPa) normal stress

⁵Measure at maximum peak, in the weakest principle direction



Paraseal HDPE/Bentonite Sheet Membrane Dual Waterproofing System

Paraseal® is a sheet waterproofing membrane consisting of 15 mils of HDPE and expandable, granular bentonite. The composite weight of the material is up to 1.0 lb/sq ft, creating a dual waterproofing system. The nature of the Paraseal waterproofing system also allows for installation over green or damp surfaces accelerating the construction process. The bentonite can expand up to 8 times its original thickness to stop water that may make it past the HDPE layer, providing a second layer of protection.

Basic Uses:

Designed for use on backfilled walls.

Can be used on damp or green concrete.

Can be used in conjunction with TREMDrain® Series Drainage Mats. Alternative versions of Paraseal are available for lagging, split slab, under slab and methane barrier conditions.



TYPICAL PHYSICAL PROPERTIES

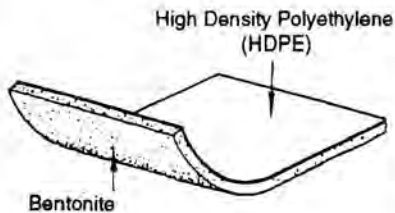
Property	Test Method	Typical Value
Color (Bentonite/HDPE)		Gray/Black
Tensile Properties		
Strength at Break lb/in.	ASTM D6693, Type IV	59 lb/in.
Strength at Break lb/in. ²	ASTM D412	3,915 lb/in. ²
Resistance to Micro-organisms (bacteria, fungi, mold, yeast)	ASTM D4068	Unaffected
% Elongation – ultimate failure of membrane	ASTM D412 Type 4 Dumbell	500%
Puncture Resistance (load)	ASTM E154	112 lb (50.9kg)
Hydrostatic Resistance (w/per. seam tape)	ASTM D5385	100+ psi (-231ft/H ₂ O)
Index Puncture Resistance	ASTM D4833	26.97 lb/ft
Resistance to Hydrostatic Head Pressure	ASTM D5385	231 ft of water
Permeance	ASTM E96	0.031 grains/hr*ft ² 2.7 x 10 ⁻¹³ cm ³ /sec 1.7 ng/Pa.s.m ²
Installation Temperatures		-25°F to 130°F (-31.7°C to 54.4°C)
Freeze/Thaw Cycles		No effect before or after installation
Resistance to Chemicals & Gases		Extremely high resistance. Contact Tremco for specific information.
Life Expectancy		Indefinite

All data based upon 15 mil HDPE.

Paraseal HDPE/Bentonite Sheet Membrane Dual Waterproofing System

Product Description

Paraseal is a sheet waterproofing membrane manufactured to controlled thicknesses of 150mils to 200mils of tough, high density polyethylene (HDPE) and expandable, quality granular Bentonite.



The Bentonite, capable of expanding to 6 times its thickness, is laminated at a rate of approximately one pound per square foot to the impermeable HDPE sheet forming a superior Dual Waterproofing System for application to horizontal and vertical surfaces.

Basic Use

Paraseal is a waterproofing membrane designed for use on structures above and below grade. It is excellent for use on split slab parking, plaza decks, poured and block foundation walls and earth covered roofs. It has outstanding performance when used under conditions of high water head and installed prior to the concrete pour such as retaining walls, elevator pits, etc.

Packaging

4' x 24' (1.2m x 7.3m) standard rolls.

Also available by **SPECIAL ORDER**:

Larger size rolls may be customize for a normal cutting charge.

Installation

For complete details, refer to the appropriate Paraseal Installation Manual.

Preparatory Work

Examine all surfaces prior to starting application. Dust may be present; however all debris must be removed. Standing water and sharp protrusions over 1/4" (6.4mm) must be removed. Installation may proceed on uncured, damp or frozen surfaces. Paraseal is compatible with all currently used release agents.

Vertical Walls

Paraseal rolls are installed vertically or horizontally with HDPE side facing the installer, by nailing across top, lapping edges 1 1/2" (3.8cm) and nailing vertical seam every 2' (0.6m) with masonry nails.

Apply Temporary Tape to all seams. Pour 1 1/2" (3.8cm) cove of Paragranular at intersection of wall and footing prior to Paraseal installation. Compact fill to minimum 85% modified proctor.

Under Floor Slab (minimum thickness 3" (7.6cm))

With bentonite side up, roll out Paraseal, overlap 3" (7.6cm) and install next roll. Staple together every 8" (20.3cm). Protect from rain and pour concrete as quickly as possible after installation.

With HDPE side up, roll out Paraseal, lapping seams minimum 1 1/2" (3.8cm). Staple every 2' (0.6m) on center and tape all seams with Temporary Tape



or other specified tape. Pour 1 1/2" coves of Paragranular around penetrations. Prior to concrete pour inspect and patch any damaged areas.

Parking and Roof Decks

Remove debris, lap edges 1 1/2" (3.8cm) minimum in shingle fashion working from lower to higher elevation. Staple at 2 feet (0.6m) on center and tape all seams.

Protection

The Paraseal dual waterproofing system has a PUNCTURE RESISTANCE of 169 lbs. (76.6kg) and does not require an additional protection course for most applications. For special applications, contact your MAMECO Representative for details.

Storage

Protect from moisture. Store on skid or pallet, cover with polyethylene or tarp.

TECHNICAL DATA

Physical Properties	Value	Test Method
Color: Gray/black		
Pliability: 180° bend over 1" (2.5cm) mandrel @ -25°F (-31.7°C)	10,000	ASTM D146
Tensile Strength: Membrane (psi)	4,000 psi (27.6MPa)	ASTM D412
Resistance to micro organisms (bacteria, fungi, mold, yeast)	unaffected	
% Elongation-ultimate failure of membrane Dumbell	700%	D638 Type 4
Puncture Resistance	169 lbs. (76.6kg)	ASTM E154-88
Resistance to hydrostatic head [FT. (m) of water]:	150 ft. (45.6m)	ASTM D751 Method Footnote #4
Resistance to water mitigation under membrane	150ft. (45.6m)/Head zero leakage	Footnote #1
Water mitigation at or through joint	Instant seal/no penetration	Footnote #5
Permeance	0.031 Grains/hr*ft*in.Hg.	ASTM E96-92
Cycling over 1 1/2" (38.1mm) joint	No deterioration 2000 cyc.	Footnote #2
Cycling over 1/4" (6.4mm) crack	No deterioration 250 cyc.	Footnote #3
Installation Temperatures	-25°F to 130°F (-31.7°C to 54.4°C)	
Non-toxic	Do not ingest	
Freeze/thaw cycles: No effect before or after installation.		
Non staining:		
Resistance to chemicals & gases: Extremely high resistance-contact manufacturer for specific information.		
Life Expectancy: Both high density polyethylene and bentonite have life expectancy measurable in thousands-of-years.		

Waterproofing



**PREMOULDED MEMBRANE®
VAPOR SEAL
CSI Code: 07130**

SEALTIGHT PREMOULDED MEMBRANE Vapor Seal is a permanently bonded multi-ply core board of pure blown mineral fortified, high-melt asphalt between layers of saturated felt and glass mat. It offers a water-vapor transmission (WVT) rate of 0.00 grains/square foot/hour...the lowest in the industry. PREMOULDED MEMBRANE Vapor Seal completes the building envelope, stopping moisture migration through foundation walls, footings, concrete floor slabs, structural slabs for kitchen, shower room, garage area, or equipment room.

PACKAGING
Sheet Sizes: 48" x 8', weight 65 lbs. CSF

VAPOR BARRIER MEMBRANES



**MEL-ROL-LM
Specifications**

Single Component, Water-Based,
Polymer-Modified, Cold-Applied,
Waterproofing Membrane
Packaging

- 5 gallon (18.93 liter) pails
- 55 gallon (208.20 liter) drums*

*special order only

Approximate Coverage

- Vertical: 20-25 sq. ft./gal. @ 60 mils
- Horizontal: 17-20 sq. ft./gal. @ 80 mils

MEL-ROL® LM

MEL-ROL LM is a single component, polymer modified, cold-applied, water-based, liquid waterproofing membrane ideal for below-grade vertical and horizontal seamless waterproofing applications. We have taken the same high quality rubber polymers found in MEADOWS' successful MEL-ROL "peel and stick" membrane, and converted them into a heavy bodied, high solids, quick drying liquid membrane.

With MEL-ROL LM, installation time is reduced, utilizing either a spray or roller application. A variety of different protection courses, insulation boards or drainage boards can be imbedded into the membrane to create a superior waterproofing system. With the application of PERMINATOR vapor-mat over the membrane, a composite system can be created that has the combined advantages of both "peel and stick" and fluid-applied membranes.

MEL-ROL LM can be used on new and remedial waterproofing applications on concrete or masonry block substrates. Since the formula is water-based, MEL-ROL LM can also be used on both ICFs and "green concrete" applications.



**PREMOULDED
MEMBRANE® VAPOR SEAL
with PLASMATIC® CORE**

PREMOULDED MEMBRANE VAPOR SEAL with PLASMATIC CORE (PMPC) is a seven-ply, weather-coated, permanently bonded, semi-flexible bituminous core board. It is composed of a homogeneous, high-melt point bituminous material, in combination with an exclusive plasmatic core, suspended mid-point in the bituminous core. This core is sealed under heat and pressure between liners of asphalt-impregnated felt and a glass mat liner. An asphalt weather coat is applied to the glass-mat liner and covered with a polyethylene anti-stick sheet.

PMPC provides a positive, easy-to-install, economical, true vaporproofing and waterproofing system for horizontal applications. Properly applied, it stops moisture migration in footings, concrete floors and structural slabs. PREMOULDED MEMBRANE VAPOR SEAL with PLASMATIC CORE is both waterproof and vaporproof.

**PREMOULDED MEMBRANE VAPOR SEAL
with PLASMATIC CORE**

Vaporproofing / Waterproofing Membrane
Packaging

Width	Length	Weight	
Sheets 48" (1.22m)	8' (2.44m)	60 lbs./100 sq. ft. (27.22 kg)	
Rolls 48" (1.22m)	50' (15.24m)	60 lbs./100 sq. ft. (27.22 kg)	

Application

ESTIMATING...When estimating the amount of PMPC required, figure the actual area plus 20% for overlap when using sheets...for rolls, figure the actual area plus 12% for overlap.

Specifications

ASTM E 1993-98*

*Standard Specification for Bituminous Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.



SELF ADHERING WATERPROOFING

MEL-ROL® SELF-ADHERING, ROLLED WATERPROOFING SYSTEM

CSI Code: 07130

SEALTIGHT MEL-ROL Self-Adhering Rolled Waterproofing System is a flexible, versatile, dependable, cost-effective, "peel and stick" protective, roll-type waterproofing membrane designed to complete the building envelope. It is ideal for waterproofing foundations, vertical walls and below-grade floors in residential and commercial construction, between-the-slab waterproofing on plaza and parking decks, structural slabs; isolating waterproofing membrane for mechanical and electrical rooms, laboratories, kitchens and bathrooms; positive "wrap around" protection for rapid transit, vehicular, utility and pedestrian tunnel projects. MEL-ROL is also offered in a winter-grade version for applications from 20° to 60°F.

SPECIFICATIONS

To the best of our knowledge, MEL-ROL meets and/or exceeds the test requirements of all currently applicable specifications. AREMA Specifications Chapter 29, Waterproofing.

PACKAGING

One roll, 60' long by 38.5" wide, per carton

WATERPROOFING ACCESSORIES

MEL-PRIME W/B

MEL-PRIME W/B primer is a ready-to-use priming compound specifically formulated with polymers in a true water-base emulsion. MEL-PRIME W/B appears bright pink in the container and dries to a transparent finish with a "reddish" sheen. MEL-PRIME W/B meets maximum VOC content limits of 350 g/L for primers and undercoaters as required by the U.S. EPA Architectural Coatings Rule.



Apply MEL-PRIME W/B primer to simultaneously prepare and dustproof new and existing and vertical and horizontal concrete in one easy, economical operation.

MEL-PRIME Specifications

Water-Base Primer

Packaging

- 1 gallon (3.79 liter) Cans
- 5 gallon (18.93 liter) Pails

Coverage

250 to 350 sq. ft./gal. (6.14 to 8.59 sq m/L)

Specifications

VOC-compliant meets the U.S. EPA Architectural Coatings Rule requirements



DETAIL STRIP

DETAIL STRIP is a rugged, 9" wide, 65 mil thick self-adhering, elastomeric tape. The tape provides a simple, easy and economical method of effectively sealing horizontal and vertical joints.



TERMINATION BAR

TERMINATION BAR is a multi-purpose, pre-formed, professional way to attach a wide variety of construction waterproofing, drainage board and flashing systems.

TERMINATION BAR is a high strength plastic strip designed

to support vertical membrane systems at their termination point. This plastic composite is ultra-violet resistant, will not rust, and is non-conductive for additional jobsite safety. Each 10' strip has pre-drilled holes for easy installation.

TERMINATION BAR provides an excellent, professional solution for top terminations with below-grade waterproofing membranes and/or drainage board systems whenever backfilling operations may be delayed.

With the added flexibility provided by pre-drilled holes every six inches, cavity wall flashing materials can now be properly installed with confidence. The unique, trapezoidal design provides a reservoir for caulks/mastics at the top termination.

SEALTIGHT POINTING MASTIC: Used for sealing top edge terminations on SEALTIGHT Detail Strips and Membrane. Coverage: 1/8" x 1" x200 ft./gal. (3.18mm x 25.4mm x 16.10ml)

POINTING MASTIC Specifications

Cold-Applied, Single-Component Polymeric Sealing Compound
Packaging

- 5 Gallon (18.93 Liter) Pails
- 29 oz. (857.65 ml) Cartridges

Coverage

Approx. 200 lineal ft. (61m) per gallon (3.79 L), when used as directed

SEALTIGHT PROTECTION COURSE: Use SEALTIGHT Protection Course for vertical and horizontal applications. Adhere with the SEALTIGHT POINTING

PROTECTION COURSE Specifications

Waterproofing Protection

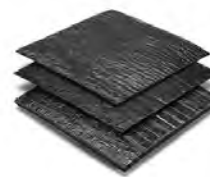
Packaging

4' x 8' (1.22m x 2.44m) panels

Coverage

TYPE	THICKNESS*	WIDTH	LENGTH
PC-1 Light Duty	62.5 mil-1/16" (1.59mm)	4' (1.22m)	8' (2.44m)
PC-2 Standard Duty	125 mil-1/8" (3.18mm)	4' (1.22m)	8' (2.44m)
PC-3 Heavy Duty	250 mil-1/4" (6.35mm)	4' (1.22m)	8' (2.44m)

*Nominal



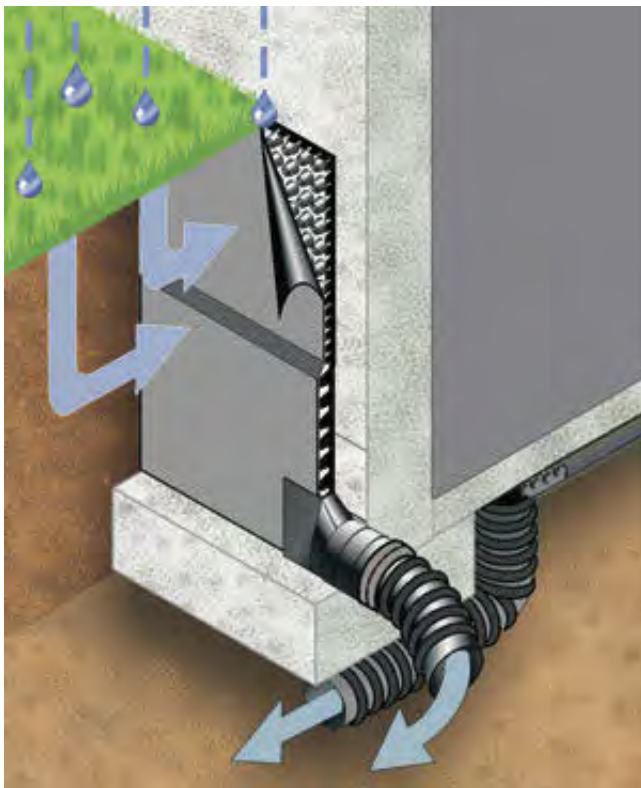
DETAIL STRIP is routinely used to seal butt joints in waterproofing. Other applications includes use as a sand tape on concrete pipe, as well as sealing random cracks and open joints in concrete pipe or culverts. The tape is produced in 50' long rolls with a quick release, anti-stick paper, for ease of handling and application.

DRAINAGE SYSTEMS

MEL-DRAIN - ROLLED MATRIX DRAINAGE SYSTEM

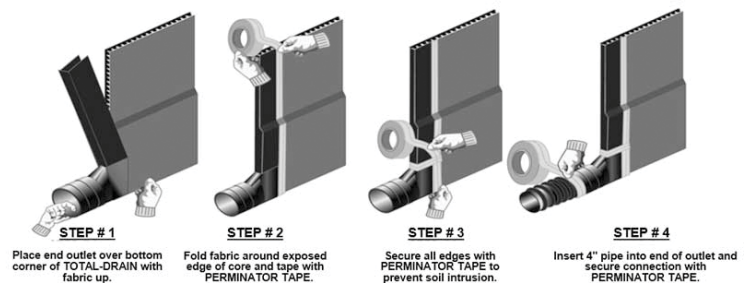
MEL-DRAIN is a dimple-raised, molded polystyrene sheet bonded to high strength polypropylene fabric. This geocomposite allows the passage of moisture through the fabric while preventing fire soils from entering the drainage channel. Various drain designs are available, depending on soil pressure and flow specifications.

PHYSICAL PROPERTIES (Typical Values)	5012	5012-B	5035*	5035-B*	6012	7012	7055	7555*	7572	9055	TEST METHOD (ASTM)
FABRIC											
Grab Tensile Strength, lb.	100	100	100	100	130	160	160	410 x 220	410 x 220	205	D 4632
Puncture Resistance, lb.	65	65	65	65	75	90	90	105	105	120	D 4833
Apparent Opening Size	70	70	70	70	70	70	70	45	45	80	D 4751
Water Flow Rate, gpm/ft. ²	165	165	165	165	150	110	110	160	160	90	D 4491
Grab Elongation (%)	65	65	65	65	70	70	70	15	15	70	D 4632
UV Resistance (% / 500 hrs.)	70	70	70	70	70	70	70	90	90	70	D 4355
Fabric Type	Non- Woven	Non- Woven	Non- Woven	Non- Woven	Non- Woven	Non- Woven	Non- Woven	Woven	Woven	Non- Woven	D 4491
Permittivity	2.3 sec ⁻¹	2.3 sec ⁻¹	2.3 sec ⁻¹	2.3 sec ⁻¹	2.1 sec ⁻¹	1.8 sec ⁻¹	1.8 sec ⁻¹	2.3 sec ⁻¹	2.3 sec ⁻¹	1.3 sec ⁻¹	D 4491
CORE											
Compressive strength, lb./ft. ²	11,000	11,000	15,000	15,000	11,000	11,000	18,000	18,000	30,000	18,000	D 1621
Flow Rate, gpm/ft.-w @ HG = 1.0	12.5	12.5	17	17	12.5	12.5	21	21	13	21	D 4716
DRAIN BOARD											
Thickness, inch	1/4	1/4	7/16	7/16	1/4	1/4	7/16	7/16	1/4	7/16	D 1777
Roll weight, lb.	30	32	38	39	29	32	42	47	42	49	
Roll length, ft.	50	50	50	50	50	50	50	50	50	50	
Roll width, inch	48	48	48	48	48	48	48	48	48	48	
Backing Film	No	Yes	No	Yes	No	No	No	No	No	No	



MEL-DRAIN - TOTAL-DRAIN PREFABRICATED SOIL DRAIN SYSTEM

MEL-DRAIN TOTAL-DRAIN sheet drain system combines any regular MEL-DRAIN sheet drain section with the unique TOTAL-DRAIN section. In the TOTAL-DRAIN system, the regular sheet drain performs its normal function of water collection, while the TOTAL-DRAIN section provides both water collection and a high-profile section for water flow to the designed drainage exits. TOTAL-DRAIN is a two-part, prefabricated geocomposite drain consisting of a formed 24" high HIPS core covered on one side with a non-woven, needle-punched polypropylene filter fabric.





Deep Penetrating Sealer (DPS)

Creto DPS is a PERMANENT, ONE TIME application sealant that completely waterproofs, strengthens, cures, dustproofs, and preserves most masonry and cement-type surfaces. By penetrating deep and reacting with the free lime and alkali present in concrete, Creto DPS solidifies the masonry into a solid, non-porous mass. This creates a permanent internal seal that BECOMES PART OF THE MASONRY – not just a surface coating. Creto DPS protects without changing the color or texture of the surface.

Creto DPS is not a surface sealer. Creto DPS effectively starts working as a sealer about 2 to 3 mm below the surface. However, Creto DPS is much more than just a sealer.

Creto DPS contains a proprietary catalyst which causes a chain reaction to start:

- It allows DPS to penetrate below the surface of the concrete or alkali bearing substrate where it "pursues moisture" down through the substrate.
- Upon contact with the "free" alkali (lime) and calcium hydroxides (in that moisture) it reacts instantly to form a silica gel membrane on the (moist) surfaces of all the voids and particulate, (sand, aggregate and cement) immediately waterproofing the substrate.
- Over time, this silica gel membrane hydrates and hardens into a solid, yet, breathing, glass impregnated mass which provides a permanent seal and moisture barrier, as well as increased surface hardness/dusting resistance and compressive and flexural strengths.

Xypex Concentrate



Xypex Concentrate is the most chemically active product within the Xypex Crystalline Waterproofing System. When mixed with water, this light grey powder is applied as a cementitious slurry coat to above-grade or below-grade concrete, either as a single coat or as the first of a two-coat application. It is also mixed in Dry-Pac form for sealing strips at construction joints, or for the repairing of cracks, faulty construction joints and honeycombs. Xypex prevents the penetration of water and other liquids from any direction by causing a catalytic reaction that produces a non-soluble crystalline formation within the pores and capillary tracts of concrete and cement-based materials.

Xypex Modified



Xypex Modified can be applied as a second coat to reinforce Xypex Concentrate, or applied by itself to dampproof the exterior of foundation walls. Applied as a second coat, Xypex Modified chemically reinforces Xypex Concentrate where two coats are required and produces a harder finish. Where dampproofing is required, a single coat of Modified may be used as an alternative to a spray/tar emulsion. Xypex prevents the penetration of water and other liquids from any direction by causing a catalytic reaction that produces a non-soluble crystalline formation within the pores and capillary tracts of concrete and cement-based materials.

Xypex Admix C-500, C-1000, C-2000



Xypex Admix is blended into the concrete mix at the time of batching to waterproof and protect concrete from the start. It outperforms other methods because of its unique ability to become a truly integral part of the concrete matrix. The Admix C-Series has been specially formulated to meet varying project and temperature conditions.

Xypex Admix C-500 meets concrete practices that incorporate additives such as fly ash and slag.

Xypex Admix C-1000 is designed for typical Portland cement-rich concrete.

Xypex Admix C-2000 is designed for projects where extended retardation is required. For ease of use, Xypex Admix is available in pails, bags or soluble bags.

Xypex Concentrate DS-1 & DS-2



Xypex Concentrate DS-1 and DS-2 are Xypex "dryshake" products installed into the horizontal surface of freshly laid concrete. Concentrate DS becomes an integral part of the concrete surface thereby eliminating problems normally associated with coatings (e.g. scaling, dusting, flaking and delamination). The active chemicals react with the moisture of the fresh concrete causing a catalytic reaction which generates a non-soluble crystalline formation within the pores and capillary tracts of the concrete.

Concentrate DS-1 is formulated specifically for waterproofing and to provide protection from aggressive chemicals.

Concentrate DS-2 provides these same properties but additionally enhances the abrasion resistance by incorporating a hardener.

Masterseal NP1



Colors available:
Aluminum gray, limestone, medium bronze, off white, redwood tan, special bronze, stone, tan, white, and black

Suitable for use on concrete and masonry, the Sonneborn NP1 10.1 oz. Gun-Grade Polyurethane Sealants (4-Pack) feature a high-performance formula that can be applied in most climates.

- 1-component, solvent-based elastomeric polyurethane formula does not require mixing
- Adheres to most materials with no primer required
- Paintable and stainable
- Mold and mildew resistant
- Provides great flexibility to help keep moving joints tight
- Easy to apply using a gun or a tool
- ASTM C719 tested
- UL listed
- Subject to or will include a recycling fee in the following states: CA, OR



MASTERSEAL SL 1 formerly known as BASF SONOLASTIC SL1 is a one-component, non-priming, self-leveling elastomeric polyurethane designed for expansion joints in concrete floors and decks. Use it where flexibility, as well as abrasion and puncture resistance is required.

Masterseal A660

Acrylic, polymer emulsion additive for cement-based powders designed to improve adhesion, tensile, compressive, and flexural strengths. Non-yellowing, water-based ideal for both interior and exterior use.



Available in 1 gallon can, 5 gallon pail

Masterseal 581

Cement-based, heavy-duty Waterproof coating for concrete and masonry, interior or exterior. Fills and seals pores and voids while resisting hydrostatic pressure. Mix with water and Acryl 60. Approved by the NSF for potable water.



Masterseal 591

A quick setting, cement-based hydraulic repair mortar for concrete or masonry. It expands to stop running water through holes and cracks. Mix with water. Sets in 3 - 5 minutes.

Available in 10 pound can, 50 pound pail



Looking for something you can't find? Call us and we'll help you!



SONNEBORN NP2 (MASTERSEAL NP2)
1.5 GL/PL

MasterSeal NP 2 is a multi-component, highly flexible, non-priming, high performance polyurethane sealant. It has been successfully tested for joint movement of $\pm 50\%$. It can be tinted to multiple colors.

Recommended uses:

- Interior and exterior
- Above and below grade
- Immersed in water
- Expansion joints
- Panel walls
- Precast units
- Aluminum and wood window frames
- Roofing
- Fascia
- Parapets
- Vinyl siding
- Store front assemblies
- Parking structures

DAP® ALEX PLUS® Acrylic Latex Caulk Plus Silicone

Superior quality, all-purpose acrylic latex caulk plus silicone. Highly flexible and durable for a waterproof seal. Excellent adhesion. Cured caulk is mold and mildew resistant. Easy to apply and tool. Paintable. Easy water clean-up. Indoor/outdoor use. Exceeds ASTM Specification C834.



Sherwin Williams White Lightning WL099110C Contractor RTV Silicone Sealant

Contractor RTV Silicone Sealant is an interior/exterior sealant that seals out moisture, air, dust, dirt and noise. Contractor RTV Silicone is easy to use, non-slumping and requires no mixing. It adheres to a wide range of common building materials (non-porous) and it provides life-long durability.



All Purpose Silicone I 10.1-oz. Clear Window and Door Caulk

- TYPICAL SILICONE SEALANT USES INCLUDE CAULKING AROUND: Windows, doors, siding, trim, flashing, molding (moulding), baseboards, vents, around wires/pipes, and other attic/basement applications
- ADHERES TO: Most wood, metal, vinyl siding, drywall/plaster, glass, and plastic
- 100% Waterproof
- Never cracks, shrinks, breaks down, washes away
- Weatherproof - sun-proof, freeze-proof, flexible
- Lifetime Guarantee

Don't hesitate to call us with any questions!



LENGTH & WIDTH	OVERALL LENGTH	MECHANICAL ADVANTAGE	RATIO	THRUSTING FORCE
8" x 4-3/16"	14-1/8"	24 to 1	1 to 1	850 lbs.

3337-s

Hand Operated Dual Cartridge Gun • 300 ml x 300 ml
Uses 3/8" case hardened rods and cam. All three rods, push the washers for added ease of dispensing product. Also has follower plates to stabilize cartridge. Supplied with side handle for added stability. Handle can be used on either side. Fits Simpson Dual Cartridge Systems.



Wellmade Tools 3333 Dual Cartridge Manual Epoxy Applicator, 300ml x 300ml

Works with Road ware cartridges
Mechanical advantage 24:1
Supplied with side handle for added stability
Thrusting Force 650 lb
Push rods are 3/8" case hardened steel



Model 217D

Model 217D: 1/4 gal. -6/case, 16 lbs.
Drip-Free Super Ratchet Rod Cradle



- 6:1 Thrust Ratio
- Seal Puncture Tool/Spout Cutter
- Ladder Hook
- Finger Guard
- Welded Backcap
- Heat Treated Dogs



Model 301

Model 301: 1/10 gal. -6/case, 12 lbs.
Hex Rod Cradle

- 12:1 Thrust Ratio
- Seal Puncture Tool/Spout Cutter
- Ladder Hook
- Wrist Strap
- Welded Backcap
- Replacement Parts Available



Models 316/324/332

- 12:1 Thrust Ratio
- Ring Cap and 3 Cones Included
- Replacement Parts Available
- Optional Carrying Case Available

Sealants

SEALANTS AND BACKER RODS

DECK-O-SEAL®

DECK-O-SEAL two-part, polysulfide-based joint sealant is a premium-grade, pourable, self-leveling sealant. It is a non-staining sealant that cures at an ambient temperature to a firm, flexible, tear-resistant rubber. DECK-O-SEAL is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation. DECK-O-SEAL has outstanding resistance to most chemicals, to all weather conditions, aging and shrinkage.

DECK-O-SEAL 125

DECK-O-SEAL 125 two-part, pourable joint sealant is a self-leveling, polysulfide-base sealing compound. It is a non-staining sealant that cures to a firm, flexible, tear-resistant rubber. DECK-O-SEAL 125 is highly resilient and has excellent recovery characteristics even after extended periods of compression or elongation. It has

outstanding resistance to most chemicals, to all weather conditions, aging and shrinkage. For on-the-job use, DECK-O-SEAL 125 is supplied in pre-measured 96 oz. (2.84 L) kits consisting of the base compound and a separate container of setting agent. There is enough room in the base container for introduction and mixing of the setting agent. NOTE: DECK-O-SEAL 125 is 25% firmer than regular DECK-O-SEAL.

DECK-O-SEAL 125 is used for horizontal applications. It is ideal for general purpose sealing of joints and seams subjected to high pedestrian or vehicular traffic, such as mall floors or garage floors. DECK-O-SEAL 125 offers high tensile strength and is excellent for joints in swimming pool floors.

DECK-O-SEAL-125 Specifications

Two-Part, Pourable Joint Sealant Packaging

Patented, pre-measured, two-component unitized, easy-to-handle 96 oz. (2.84 liter) kit contains proper ratio of base to setting agent, which must be maintained. Included in each kit is the base material, setting agent, stirring paddle and applicator bottle. 4 Kits /Ctn.

Specifications

Federal Specification A-A-1556A, Type M, Grade P, Class 25, T and NT
CRD-C-506, Type I, Classes A & B
ASTM C 920, Type M, Grade P, Class 25 T and NT

DECK-O-SEAL 150

DECK-O-SEAL 150 two-part, pourable joint sealant is a self-leveling, polysulfide-based sealing compound. DECK-O-SEAL 150 is a non-staining sealant that cures to a firm, flexible, tear-resistant rubber. It is highly resilient and has excellent recovery characteristics, even after extended periods of compression or elongation. DECK-O-

SEAL 150 has outstanding resistance to most chemicals, to all weather conditions, aging and shrinkage. For on-the-job use, DECK-O-SEAL 150 is supplied in 96 oz. (2.84 liter) pre-measured kits consisting of the base compound and a separate container of setting agent. There is enough room in the base container for introduction and mixing of the setting agent.

DECK-O-SEAL; 150 Specifications

Two-Part, Pourable Joint Sealant Packaging

Patented, pre-measured, two-component unitized; easy-to-handle 96 oz. (2.84 liter) kit contains proper ratio of base to setting agent, which must be maintained. Included in each kit is the base material, setting agent, stirring paddle and applicator bottle. There are 4 Kits per carton.

Specifications

Federal Specification A-A-1556A, Type M, Grade P, Class 25, T and NT
CRD-C-506, Type I, Classes A and B
ASTM C 920, Type M, Class 25, T and NT

DECK-O-SEAL GUN GRADE

DECK-O-SEAL GUN GRADE is a two-component, non-sag, non-flowing polysulfide-base sealing compound. It is a non-staining sealant that cures to a firm, flexible, tear-resistant rubber. DECK-O-SEAL GUN GRADE is highly resilient and has excellent recovery characteristics, even after extended periods of compression or elongation. It has outstanding resistance to most chemicals, to all weather conditions, aging and shrinkage. For on-the-job use, DECK-O-SEAL GUN GRADE is supplied in pre-measured kits containing the base compound and a separate container of setting agent, with enough room in the base container for blending both components.

DECK-O-SEAL; GUN GRADE Specifications

Two-Part, Gun Grade Joint Sealant Packaging

96 oz. kits of DECK-O-SEAL Gun Grade are available in the standard colors of: Dura-White, Stone Gray and Desert Tan. (Jet Black and Redwood are available upon special order). 1.75 gallon DECK-O-SEAL Gun Grade is available only in Stone Gray.

Specifications

Federal Specification A-A-1556A, Type M, Grade NS, Class 25, NT
CRD-C-506, Type II, Classes A & B
ASTM C 920, Type M, Grade NS, Class 25, NT (Except for application, life requirement)



KOOL-ROD™

KOOL-ROD is specifically designed as a compressible backing material to be used in conjunction with a wide variety of cold-applied joint sealants from W. R. MEADOWS.

KOOL-ROD is a closed cell, polyethylene, flexible, rope-like foam joint backing material. This material is virtually non-absorbent and chemically inert to most solvents. KOOL-ROD will not stain or adhere to sealant materials. It is fully compatible with acrylic, butyl, polyurethane, polysulfide, silicone and most other cold-applied sealant compounds.



SPECIAL APPLICATION SEALANT COLD-APPLIED

GARDOX®

GARDOX horizontal joint sealant is a pourable, two-component, cold-applied compound for sealing joints in concrete. The product's chemically reactive polymers, plasticized with coal tar, cure to a durable, rubber-like joint seal that offers a firm, smooth, non-tracking surface, retaining flexibility from -20° F (-29° C) to over 200° F (93° C). GARDOX effectively seals the joint against water infiltration and rejects incompressibles. GARDOX is resistant to jet fuels, most common solvents and chemicals. GARDOX can accommodate a joint movement of ±25% when a 2:1 minimum width-to-depth ratio is maintained, and proper application techniques are followed.

GARDOX horizontal joint sealant is recommended for sealing horizontal joints on highways, airport runways, bridges, plaza decks and driveways. Interior uses include sealing joints in industrial floors, garage floors, airplane hangar floor joints, etc.



GARDOX Specifications

Horizontal Joint Sealant

Packaging

1 Gallon Unit consists of a 1/2 gallon (1.89 liters) of base and 1/2 gallon (1.89 liters) of catalyst in an imperial gallon container.

4 Gallon Unit consists of 2 gallons (7.57 liters) of catalyst in a two-compartment 5 gallon (18.93 liter) pail.

Coverage

7.47 gal./cu.ft. (1,000 L/cu.m). A 1/2" x 1/4" (12.7 x 6.3mm) joint will require 0.65 gallons/100 lineal feet (8 L/100m).

Specifications

Federal Specification SS-S-200 D, Type H
Federal Specification SS-S-195, Type H

FAA Specification Item P-605

ASTM C 920, Type M, Grade P, Class 25, Use T

Corps of Engineers CRD-C 526, Type H

Approved by the Ministry of Transportaion, Quebec

WEATHER-ALL BRAND

POLYETHYLENE FILM PRODUCTS

TRM 'WEATHER-ALL' Multi-Purpose Polyethylene Film is folded, wound on laminated cores, and packaged neatly in labeled cartons that are convenient for storage or handling. It is shipped in unitized loads, stacked on wood pallets, with an overlay of stretch wrap for maximum protection.

Items shown can be ordered by themselves or in combination with other TRM products for prepaid freight and quantity discounts. Custom items are also available, subject to special quotation.

Conforms to product standard PS 17-69.

MULTI-PURPOSE ECONOMY ROLLS

.004 MIL ROLLS

410	10' X 100'	19.10	BLK / CLR	56
420	20' X 100'	38.20	BLK / CLR	25

.006 MIL ROLLS

610	10' X 100'	28.70	BLK / CLR	48
620	20' X 100'	57.40	BLK / CLR	16
640	40' X 100'	114.60	BLK / CLR	8

.010 MIL ROLLS

1020	20' X 100'	95.50	BLK / CLR	9
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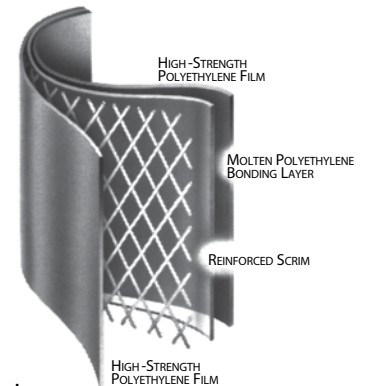


DURA•SKRIM® 2 & 10HUV

Four-Layer Reinforced Extrusion Laminate

Product Description

DURA•SKRIM® 2 and 10HUV consist of two sheets of high-strength virgin polyethylene film laminated together with a third layer of molten polyethylene. A heavy-duty scrim reinforcement placed between these plies greatly enhances tear-resistance and increases service life. DURA•SKRIM's heavy-duty diamond reinforcement responds to tears immediately by surrounding and stopping the tear.



Product Use

DURA•SKRIM® 2 is used for temporary applications that require a lightweight yet highly tear-resistant film such as building enclosures and abatement applications.

DURA•SKRIM® 10HUV is used in applications that require good outdoor life and demand high puncture and tear strengths. The two outer layers of DURA•SKRIM® 10HUV contain high concentrations of UV inhibitors and thermal stabilizers to assure added outdoor life up to approximately one year.

Size & Packaging

DURA•SKRIM® 2 stock sizes are 6, 8, 10, 12, 16, 20, 24, 32 and 40 feet wide and 100 feet long.

DURA•SKRIM® 10HUV is available in a variety of widths and lengths up to 100,000 square foot panels.

All panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation. Custom sizes are available.





STEGO® WRAP VAPOR BARRIER ASTM E 1745 Class A-B-C Compliant

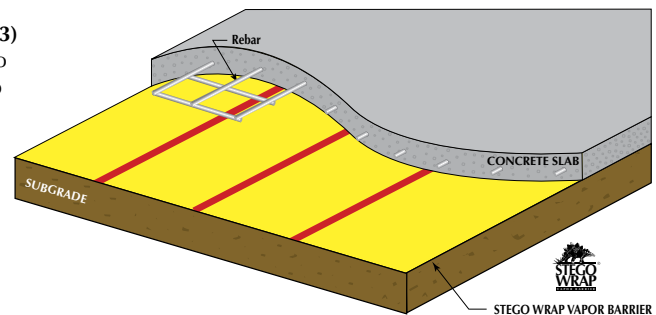
STEGO® WRAP VAPOR BARRIER SPECIFICATIONS

PROPERTIES	TEST METHOD	ASTM E 1745 Class A Requirements	TEST RESULT	EXPLANATION
Permeance	ASTM F 1249	0.1 perms	0.0086 perms * 0.0036 WVTR	Very impermeable to water vapor
Puncture Resistance	ASTM D 1709	2200 grams	Method B 2266 grams	Resistant to puncturing from construction abuse
Tensile Strength	ASTM D 882	45.0 lbf./in.	70.6 lbf./in.	Will not tear easily
Permeance After Conditioning (ASTM E 1745 Sections 7.1.2 - 7.1.5)	ASTM E 154 section 8	0.1 perms	0.0098 perms	Permeance after wetting, drying, and soaking
	ASTM E 154 section 11	0.1 perms	0.0091 perms	Permeance after heat conditioning
	ASTM E 154 section 12	0.1 perms	0.0097 perms	Permeance after low temperature conditioning
	ASTM E 154 section 13	0.1 perms	0.0095 perms	Permeance after soil organism exposure
Methane Transmission Rate	ASTM D 1434		**GTR = 192.8 mL(STP)/m ² *day	Greatly impedes the transmission of methane gas
Radon Diffusion Coefficient			5.5 x 10 ⁻¹⁴ m ² /second	Greatly impedes the transmission of radon gas
Thickness			15 mils	Stronger, tougher and less permeable than much thicker membranes
Roll Dimensions			14 ft. X 140 ft.	1,960 ft ² /roll - allows for a minimum of seams
Roll Weight			140 lbs.	Easy to unroll and install

Note: perm unit = grains/(ft² *hr* in.Hg) * WVTR = water vapor transmission rate **GTR = Gas Transmission Rate

INSTALLATION INSTRUCTIONS: (Based on ASTM E 1643)

Unroll Stego Wrap over the area where the slab is to be placed. Stego Wrap should completely cover the concrete placement area. Overlap seams 6 inches and tape using Stego Tape. All penetrations and blockouts should be sealed using a combination of Stego Wrap, Stego Tape and/or Stego Mastic. If the Stego Wrap is damaged, cut a piece from the Stego Wrap roll, place over the damaged area, and tape around all edges. Concrete may be placed directly on Stego Wrap. For additional information, please refer to Stego's complete installation instructions.



STEGO® TAPE:

STEGO WRAP RED POLYETHYLENE TAPE (3.75" x 180'/roll) is specially designed to seal seams and penetrations on Stego Wrap installations. The acrylic, pressure-sensitive adhesive provides permanent bonding and quick-stick properties. The area to be bonded should be free of dust, dirt and moisture.

PERMINATOR®

10 and 15 Mil Underslab Vapor Barrier/Retarder

DESCRIPTION

PERMINATOR underslab vapor barrier is a new generation of polyolefin-based resin/chemical technology. PERMINATOR provides the vapor barrier industry with a highly effective, economical choice for helping to reduce the penetration of moisture and water vapor through the slab into the structure, thereby helping to reduce fungus, mildew, and mold growth. PERMINATOR also helps reduce radon gas from entering the structure.

PACKAGING

10 mil: 15' wide (4.57 m), 200' long (60.96 m) or 54" wide (1.37 m), 400' long (121.92 m) by special order only.

15 mil: 12' wide (3.66 m), 200' long (60.96 m)

SPECIFICATIONS

Meets or exceeds all requirements of ASTM E 1745-11 Class A, B & C.

ACI 302.2R: Guide for Concrete Slabs that Receive Moisture Sensitive Flooring Materials makes a suggestion to use materials having 0.01 perms when flooring materials require protection lower than that determined by ASTM E1745. PERMINATOR 15 mil meets this requirement.

FEATURES/BENEFITS

- Reduce the penetration of moisture through the slab into the structure.
- Helps reduce radon gas from entering a structure.
- Resistant to methane gas.
- Tough enough to withstand normal construction jobsite conditions and traffic ... will not crack, puncture, snag, split, or tear easily.
- Installs quickly and easily over tamped grade ... no gravel, fill, or sand needed.
- 12' (15 mil) and 15' (10 mil) wide rolls require fewer seams in application.
- VOC content is 0 g/L.

Made in America



VaporStake, LLC

VaporStake™ Description

- Non-corrosive, leak-resistant, plastic stake
- 15", 18", 24", 30", 36" and 48" lengths
- 1/2", 3/4" and 1-1/8" diameters
- Made of solid recycled PVC for LEED Credit
- Acts as a permanent plug in the vapor retarder
- Helps meet ASTM E 1643-11 (sections 8.4 and 8.6)

When used with vapor retarder's sealing mastic

- Pre-pointed
- Pre-drilled holes for 16D duplex nails
- Can be easily drilled in field for additional holes
- Made in the USA
- A Patent Pending Product
- builditgreen.org approved



VaporStake™ Installation

- Use the VaporStake™ as you would a typical stake
- Can be used with sprayed-on vapor retarders or polyolefin vapor retarders
- Seal the vapor retarder to the VaporStake™ as you would a pipe penetration
- Using a power saw, cut the stake off above the seal, but below the concrete's finished surface
- The lower portion of the VaporStake™ remains in place, permanently plugging the penetration
- No special tools, nails, glue, or caps required
- Cuts much faster, easier and safer than steel dowels

VaporStake™ Availability

- Sold wholesale only
- 25 stakes per bundle for easy carrying
- To place an order email: info@vaporstake.com

Use with sprayed on vapor retarders



1. Using a sledge hammer, drive VaporStake™ into ground
2. Seal barrier directly to VaporStake™
3. Using duplex nails, nail forms directly to VaporStake™

Or Use with ATSM E 1745-09 polyolefin vapor retarders



1. If necessary, use a utility knife to puncture a slit in the vapor retarder. The slit should be no larger than the diameter of the VaporStake™ being used.
2. Dip the pointed end of the VaporStake™ into the mastic that is provided by the vapor retarder..
3. Properly align the nail holes and drive the VaporStake™ through the StegoWrap®. The VaporStake™ can be turned while the mastic is wet, but do not turn it after the mastic has set up.

Finish the slab over the cut off stakes



4. Cut VaporStake™ above the seal but below the finished surface
5. Permanently leave the lower portion of VaporStake™
6. Finish slab over VaporStake™

www.vaporstake.com

3M Fire Barrier Sealant CP 25WB+

High performance, ready-to-use, gun-grade, latex-based, intumescent sealant that dries to form a monolithic firestop seal that also acts as a barrier to airborne sound transmission. It helps control the spread of fire, smoke, and noxious gasses before, during, and after exposure to a fire when installed in accordance with a listed through penetration or fire-resistive joint assembly system.

This sealant firestops blank openings and penetrations passing through fire-rated floor, floor/ceiling, or wall assemblies and other fire-rated interior building construction. The unique properties of this material allows this sealant to expand and help maintain a firestop penetration seal for up to 4 hours as penetrants are exposed to fire.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC S115
- Fire resistance tested for static construction joint systems in accordance with ASTM E 1966 (UL 2079)



Metacaulk MC 150+



One component, general purpose fire-rated sealant and smoke seal for construction joints and through-penetrations on both horizontal and vertical surfaces. Metacaulk MC 150+ is a non-sag caulking grade sealant that is easy to apply as well as retrofit. It can be used in areas with some movement and is recommended for metal, insulated pipes, fiberglass and plastic pipes, and wall construction joints.

It will prevent the spread of flames, smoke, hot gases, and water through joint openings and through-penetrations with no dilution or mixing required for use. It is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.

Features:

- Water based
- STC rating 51
- VOC compliant
- Good freeze-thaw
- For interior use, paintable
- Use for most common applications

Code	Description	Qty.
66648	10.3 oz. cartridge	12
66385	20.2 oz. foil pack	12
66383	30 oz. cartridge	12
66389	5 gal.	1



Joint Strip is Expanding

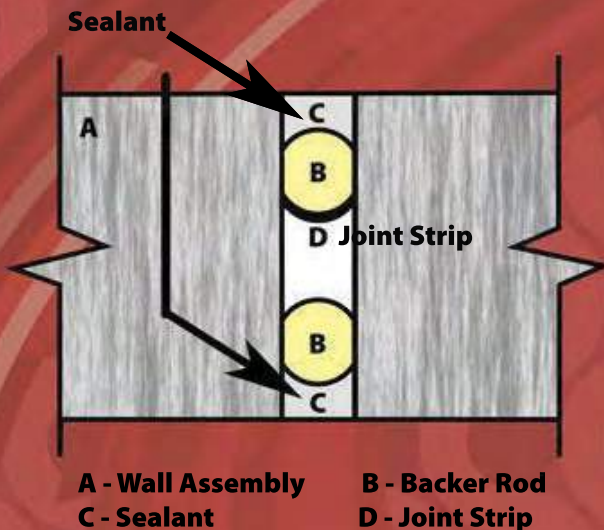
Firestopping & Waterproofing Solutions For Fire Rated Joints & Penetrations

Approved with Poly-urethane sealants manufactured by Sika & BASF to provide a waterproof / fire stop seal for all masonry rated joints.

Approvals up to 4 in. PVC pipe for 1 hr. wood chase wall construction.

Approvals for a max 676 sq. in. insulated duct w/o the use structural angles. (1 & 2 gypsum wallboard and 2 hr. block wall assemblies)

Can be used with security sealants for all fire rated masonry joints constructed for prisons.



- 4 hr. approvals for wall to wall and top of wall applications.
- 3 hr. approval for a one sided installation for up to a 2 inch joint.
- No mineral wool required.
- Approved with any UL Listed Sealant.
- 50% labor savings for fire rated concrete masonry joints.

Visit www.RectorSeal.com for complete UL System Listings

2601 Spenwick Drive - Houston, TX 77055 tel: 713.263.8001 / 800.231.3345
www.RectorSeal.com fax: 713.263.7577 / 800.441.0051

Fire Barrier Sealants

Joint Strip

Flexible material for up to 2" wide joints

Code	Description	Qty.
66700	1" x 82' strip	6
66701	1-1/2" x 82' strip	4
66704	2" x 82' strip	3
66702	2-1/2" x 82' strip	2
66703	3" x 82' strip	2
66705	4" x 82' strip w/ adhesive	2

Application • Flexible strip firestop material used in concrete and masonry floor and wall joints up to 2" wide • Prevents the passage of fire between joints • Plastic pipe penetrations

Recommended for • Stadium construction, tilt up panels • Curtain wall panels • Steel utility boxes • All concrete and masonry wall and floor construction joint applications • Can be used with any UL Listed sealant • Penetrations in walls & floors



US Patent No. 6,207,085

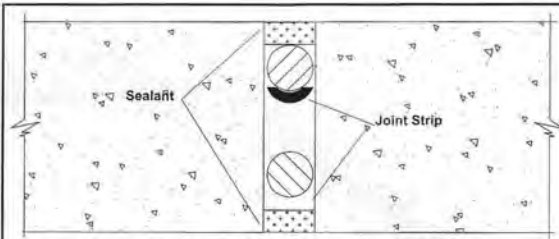


FEATURES

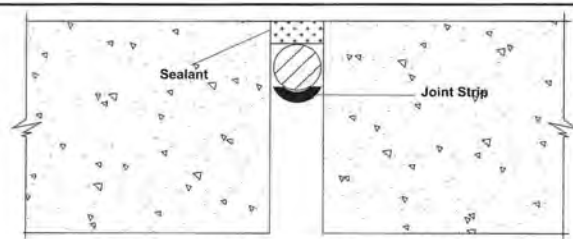
- No firestop caulk required
- Single sided application
- Simple & easy to use

List of UL Systems

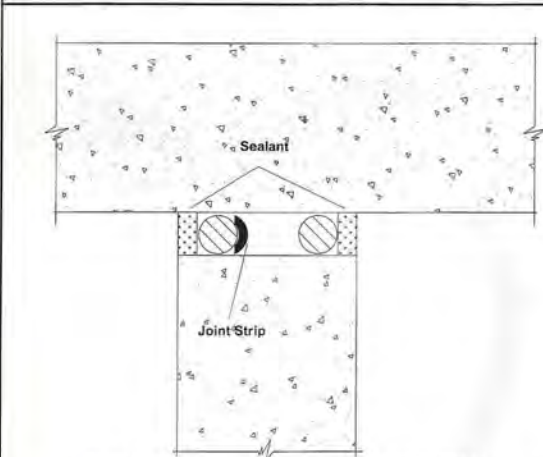
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C-AJ-0089	F-C-2400	HW-D-0608	WW-D-0056
C-AJ-2679	F-C-2408	HW-D-0651	WW-D-0057
C-AJ-4062	FF-D-0053	W-J-2266	WW-D-0094
C-AJ-4063	FF-D-0054	W-J-7071	WW-D-0095
C-AJ-8121	FF-D-0083	W-J-7072	WW-D-0102
C-AJ-8122	FF-D-0084	W-L-7122	WW-D-0110
F-A-2172	FF-D-1053	W-L-7123	WW-S-0037
F-A-2235	FF-D-1054	WW-D-0054	WW-D-0039



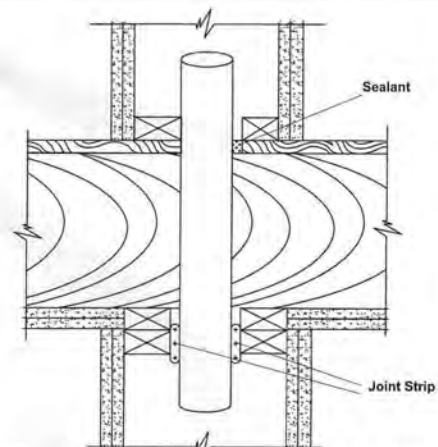
Wall Assembly 3 hr fire rating UL (WW-D-0094)



Floor Assembly 2 hr fire rating UL (FF-D-0084)



Floor Assembly 3-4 hr. fire rating UL (HW-D-0651)



Wood Joist Floor-Ceiling Assembly 1 hr. fire rating UL (F-C-2399)



Super 77 16.75 fl. oz. Multipurpose Spray Adhesive

3M Super 77 Multipurpose Spray Adhesive 24 oz. Can 77-24 Net Wt. 16.75 fl. oz.. 3M Super 77 is a multipurpose spray adhesive that can be used to bond many lightweight materials. Bonds decorative films, foils, plastics, papers, foams, metals and cardboard to most surfaces. Bonds gaskets in water pumps. Attaches bat insulation to sheet metal. Attaches paper, fiber mesh and plastic drywall corner beading.

- Use to attach bat insulation to sheet metal
- Use to bond paper
- Use to attach drywall plastic corner beading
- Bonds in 15 seconds



3M™ Scotch-Weld™ High Strength Adhesive Spray 90

3M Scotch-Weld 90 High Strength Adhesive is an aerosol adhesive designed for a wide variety of applications requiring high initial strength and fast development of ultimate strength. The bonds have excellent resistance to water and long term ageing.



STOP GAP!® MINIMAL & TRIPLE EXPANDING INSULATING FOAM

These products expand to take the shape of gaps and crevices forming an airtight and waterproof bond to most surfaces. STOP GAP!® dries tack free in 15 minutes and cures in 8 hours. It can be trimmed, sanded and painted. Exposure to sunlight will cause discoloration. Exterior usage requires painting.

Our sales force is always ready to assist you with whatever you may need.

If you can't find what you need...
CONTACT US!
 We will do whatever we can to help.



Available in multiple sizes

Econ-O-Sleeve

- Place holes before you pour. Save time and money.
- Drilling can cut rebar and reduce strength.
- Made with slight taper for easy removal.
- Made of high density plastic-one piece construction.
- Will not shatter in cold weather.
- Easy to cut with a pocket knife.
- Staple or nail through the flange in exact location you want.
- Lightweight, easy to transport... and safe, no sharp edges or corners.
- Econ-O-Sleeve Hole Forms for both floors and walls.

Econ-O-Sleeve Hole Forms consistently form round, smooth, uniform holes and are available in a broad range of diameters. They may be cut, stacked, or telescoped for any slab thickness.



Econ-O-Post Hole Form

Form professional looking tapered holes in concrete to receive posts for railings, awnings, and other common uses.

- Simple Installation.
- Easy to strip/remove - just pull tab.
- Holes can receive square posts up to 2" or 2" pipe (2 3/8" OD)
- Accurate alignment - tip of tab is centerline of hole form.
- Use with any concrete thickness.
- Pre-install for slabs up to 6" thick.
- Insert into fresh concrete for slabs over 6" thick.
- High visibility.
- Safe to use - no sharp edges

Catalog# EPHF-3: 3" dia top x 6" over height
 Catalog# EPHF-4: 4" dia top x 12" over height



CAT#: TC6

FEATURES:

- Bio-degradable • Recyclable • Virtually unlimited shelf life.
- BIO-CYLINDER™ test cylinders meet A.S.T.M. specifications C39,C192 and C470.
- BIO-CYLINDER™ mold is non-absorptive.
- Molded single unit for consistent dimensional uniformity.
- Smooth molded plastic allows quick, easy stripping.
- Strong, durable BIO-CYLINDER™ is weather resistant, eliminating job-site storage problems.
- Custom silk screen labeling available (28 carton minimum).
- BIO-CYLINDER™ lids and stripping tools available.
- Also available in 4x8, 3x6, and 2x4.

Made in USA



CAT#: SC

Steel Slump Cone

- Accurately determine the slump of concrete both in the laboratory and in the field.
- Made of seamless spun steel for easy cleaning.
- Fitted with handles and foot lugs, plated to resist rust.
- Conical shape 8" diameter base, by 4" top, by 12" height.

Made in USA



CAT#: SCOOP-HD

Scoops

For handling concrete, sand, and soils in the laboratory, and/or field.

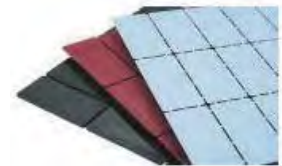
SCOOP	RD BOTTOM SCOOP	38 oz CAST ALUM
SCOOP-HD	HD RD BOTTOM SCOOP	Heavy Duty 38 oz ALUM
SCOOP-F24	FLAT BOTTOM SCOOP - 7 x 4.5"	24oz S.S.
SCOOP-F45	FLAT BOTTOM SCOOP - 8.0 x 5.5	45oz S.S.



CAT#: GTR CAT#: TR375

Tamping Rod

The tamping rod is round, straight steel rod used with concrete cylinder molds, slump cones, and unit weight tests. Measures 5/8" diameter by 24" length or 3/8" diameter by 12" length. Both ends are rounded to a hemispherical tip. #GTR is plated for rust resistance and has a 6" scale in 1/4" increments engraved on end of the rod.



Vers-A-Shim® Shim Strips- Precast 3"X 3" thru 4" x 6"

- Assures accurate placement and leveling of precast panels and tilt-up walls including structural and architectural components.
- Less expensive and more versatile than steel.
- Will not rust, rot, stain or leach concrete.
- Available in convenient thicknesses, lengths and widths which permit precise leveling and alignment.

DIAMOND PLATE cover guard®

- cover guard® offers excellent protection for all types of surfaces including hardwood floors, stone, tile, terrazzo, paint, glass, bare metal, concrete and many more.
- cover guard® is extremely strong, durable, tear resistant and is resistant to water, most chemicals and most solvents.
- cover guard®'s unique deck plate pattern provides anti-slip / anti-trip characteristics - meets ASTM C 1028-07.
- The system is quick, easy and efficient to install and remove. Cutting and shaping is very simple, reducing labor time, storage and handling. Maintenance is also kept to a minimum.
- Compact rolls are easy to handle, particularly in confined spaces and helps keep storage space to a minimum.



cover guard® is the world's leading flame retardant temporary protection system. Used by the marine, offshore, aviation, rail and construction industries to protect during new building, refurbishment, maintenance and outfitting stages.

- **Internationally Approved**
- **Easy Installation & Removal**
- **Resistant to most liquids**
- **Puncture Resistance**
- **Durable & Strong**
- **Waterproof**
- **Anti Static**
- **Reusable & Recyclable**



ITEM NO.	DESCRIPTION	SQ. FT.	WEIGHT
CG1036 DP	36" x 393'	1,180	60 lbs
CG1036 DPSR	36" x 100'	300	35 lbs
CG1072 DP	72" x 393'	2,358	120 lbs
CG1336 DP	36" x 360'	1,080	70 lbs
CG1372 DP	72" x 360'	2,160	141 lbs
CG2536 DP	36" x 180'	540	70 lbs
CG2572 DP	72" x 180'	1080	140 lbs
CG4036 DP	36" x 120'	360	70 lbs
CG4072 DP	72" x 120'	720	150 lbs

Cover Guard









The world's leading flame-retardant temporary protection system.

Used by the marine, offshore, aviation, rail, construction and utilities industries to protect during new building, refurbishment, maintenance and outfitting stages.



The cover guard® range has been designed and developed to provide innovative temporary protection for all types of horizontal and vertical surfaces and finishes. The products can be used both internally and externally to protect against damage from trade wear and tear and workmen's activity. cover guard® can also be used to wrap, cover, screen and contain all types of equipment, furniture, fittings and fixtures.

	Part No.	Name	Description	Unit of Measure
	CG0672TF	Floor Cover Guard 06mil FR 1.82m x 137m Taffeta Flat - LPS1207 Certified		ROLL
	CG1036DP	Floor Cover Guard 10mil FR 0.91m x 120m Deck Plate - LPS1207 Certified	Roll Length: 120 M Roll Width: 0.91 M	ROLL
	CG1072DP	Floor Cover Guard 10mil FR 1.82m x 120m Deck Plate - LPS1207 Certified	Roll Length: 120 M Roll Width: 1.82 M	ROLL
	CG1336DP	Floor Cover Guard 13mil FR 0.91m x 110m Deck Plate - LPS1207 Certified	Roll Length: 110 M Roll Width: 0.91 M	ROLL
	CG1372DP	Floor Cover Guard 13mil FR 1.82m x 110m Deck Plate - LPS1207 Certified	Roll Length: 110 M Roll Width: 1.82 M	ROLL
	CG2536DP	Floor Cover Guard 25mil FR 0.91m x 55m Deck Plate - LPS1207 Certified	Roll Length: 55 M Roll Width: 0.91 M	ROLL
	CG2572DP	Floor Cover Guard 25mil FR 1.82m x 55m Deck Plate - LPS1207 Certified	Roll Length: 55 M Roll Width: 1.82 M	ROLL
	CG4036DP	Floor Coverguard 1000mic FR 0.91m x 36m Deck Plate - LPS1207 Certified	Roll Length: 33 M Roll Width: 0.91 M	ROLL
	CG4072DP	Floor Cover Guard 40mil FR 1.82m x 36m Deck Plate - LPS1207 Certified	Roll Length: 36 M Roll Width: 1.82 M	ROLL



Surface Protection



Surface Shield Dust Shield Pro
Expandable 12' or 20' poles - 2 Pack
SKU: DSPRO2

Dust Shield PRO, the new, state-of-the-art system that makes constructing temporary walls to control dust and heat loss, quick, simple and affordable! The locking head ensures that screening will not slip out and the dent resistant poles, crafted of a heavy gauge aluminum, are designed to stand up to the toughest conditions.



ZIP N CLOSE® SELF ADHESIVE ZIPPERS

Create instant access to plastic enclosures and tarps with Zip n Close self adhesive zippers. These user friendly zippers can be applied in just minutes forming a secure zipper door. Simply peel off the backing paper and apply to the desired entry location. Then cut through the entire length of the zipper opening using a utility knife. It's that easy!



STEP N PEEL™ TACKY CLEAN MAT

The Step n Peel Clean Mat is a polyethylene film mat with a tacky surface to remove dust and dirt from footwear. This unique product features a sturdy, reusable platform constructed of rigid polystyrene, available with a nonskid backing that holds it securely to floor surfaces such as carpeting, tile, concrete and more.



PLASTI-SHIELD REUSABLE FLOOR PROTECTION & WALL PROTECTION

This corrugated plastic sheeting is widely used in the building and construction industry as a lightweight alternative to masonite for floor and wall covering protection, countertop protection, temporary window and door replacement, and temporary clean room applications. Plasti-Shield is easily cut with a utility knife.

Plasti-Shield can also be used as a waterproofing membrane, for filling construction expansion joints, as concrete form-work, low level thermal insulation and as a packing medium. It is 100% recyclable, reusable, non-toxic and resistant to chemicals.



WATER SHIELD WATER RESISTANT PAPER

Protect hardwood, ceramic tile, travertine, marble and more with Water Shield. This heavy-duty protective paper is made from two very strong kraft papers laminated with a nylon scrim reinforcement. Water Shield will prevent water and other liquids from soaking through and causing damage to expensive flooring and will not tear under normal traffic conditions. Utilize the benefits of this construction grade kraft paper at your next jobsite.

SKU	Description
WS36300	3' X 300'
WS72300	6' X 300'
WS96300	8' X 300'



BUILDER BOARD HEAVY DUTY FLOOR PROTECTION PAPER BOARD
38" x 100'

The most durable paper board on the market. This paper board replaces the need for large, bulky sheets of masonite and it rolls out fast and flat. The new Liquid Shield technology makes this board spill proof. It defends against water, paint, mud, and more! It is also 100% recyclable.



CARPET SHIELD® TEMPORARY CARPET PROTECTION

Carpet Shield is the best temporary carpet protection you can buy. It is a clear, self-adhering protective film for carpeting. Carpet Shield's non-slip surface is a special blend of polyethylene which is highly resistant to tears or punctures. Ideal during remodeling, painting and moving, it minimizes clean-up time and damage claims. Available in a variety of sizes, the larger rolls are reverse-wound for faster application.

SKU	Description
CS24200L	24" X 500'
CS36500	36" X 500'
CS48500	48" X 500'



**KRAFT SHIELD CONSTRUCTION GRADE
KRAFT PAPER KP35144**

This construction grade kraft paper is an excellent resource for professional contractors. It is the preferred alternative to "Red Rosin" paper. Contractors rely on kraft paper to protect flooring, cabinets and counter tops from foot traffic, paint and spills without the fear of staining. Kraft Shield is 100% organic and is biodegradable making it an easy choice for environmentally conscious individuals.



**SHOE COVERS SKID AND SCUFF PROTECTION
SC300**

Protect flooring and footwear with Surface Shields brand shoe covers. Available in three different materials, these shoe covers provide protection at most jobsites. The plastic shoe covers are great for outside use and the cloth are perfect to protect flooring from dirt, scuffs and skids. The polyethylene coated shoe covers are skid resistant and waterproof.



**Tape Builder Board
3in. x 60 yd.**

- Aggressive, high tack adhesive for excellent holding power
- Can seam Builder Board™ for several months
- Strong, flexible and 100% recyclable



CARDBOARD JAM PROTECTOR 5'

Entry Shield is a heavy-duty door jamb protection product that easily snaps around door frames. It's available in a thick paperboard or plastic material that defends against dents and scratches. Entry Shield fits most door casings and is available in 6 and 8 inch widths. Never spend money repairing door jambs again!



DOOR ARMOR™ SELF-ADHESIVE FILM

Protect many doors for large construction projects with Door Armor. This heavy duty, co-extruded film resists and prevents marks and scratches. It has a unique resin that adheres to almost all smooth and lightly textured surfaces. Use it on factory finished metal and wood doors, composite, even glass; without the risk of adhesive residue. This door protection film is easy to apply and allows for fast application and removal.

SKU	Description
DA1035150	35"X150'
DA106150	6"X150'

Wiping Rags

1# Color

Our most popular grade for general industrial use. Mostly cotton material in medium weights for quick absorbency.

Select Color

All light-weight material of cotton and cotton-blend fabrics.

Economy Color

Blended materials in both medium and heavy-weights. An ideal disposable cloth where a low price is essential.

Denim Wipes

A low-priced wiper for those really messy jobs. High cotton content makes this wiper eXtremely absorbent and it is particularly good for grease and oil.



Skudo Commercial System

Durable, non-slip surface protection for commercial products

The Skudo Commercial System is ideal to protect surfaces from construction site damages and spills in large commercial products. The system consists of two layer:

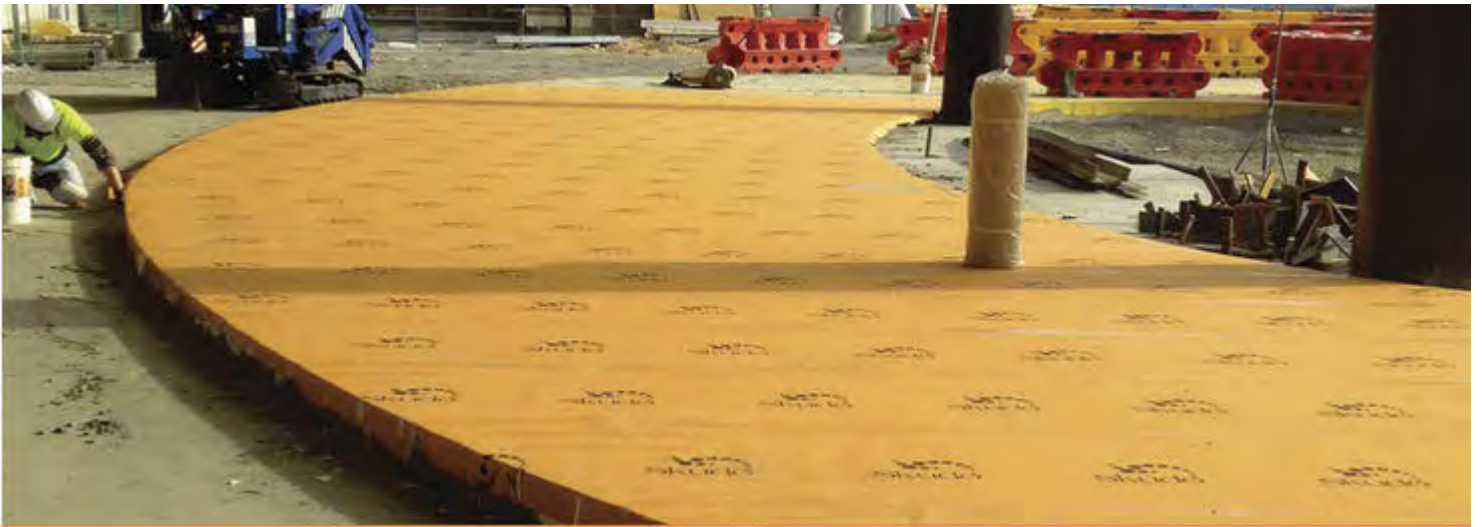
- A water-based liquid Base Coat- sold in 5 gallon buckets

- A pre-treated, patent pending Mat- sold in 3 grades and 1,075 square foot rolls

The Mat is pressed into the wet Base Coat to create a seamless, non-slip barrier that adheres to your protected work surface. On average, one Mat roll covers one bucket of Base Coat

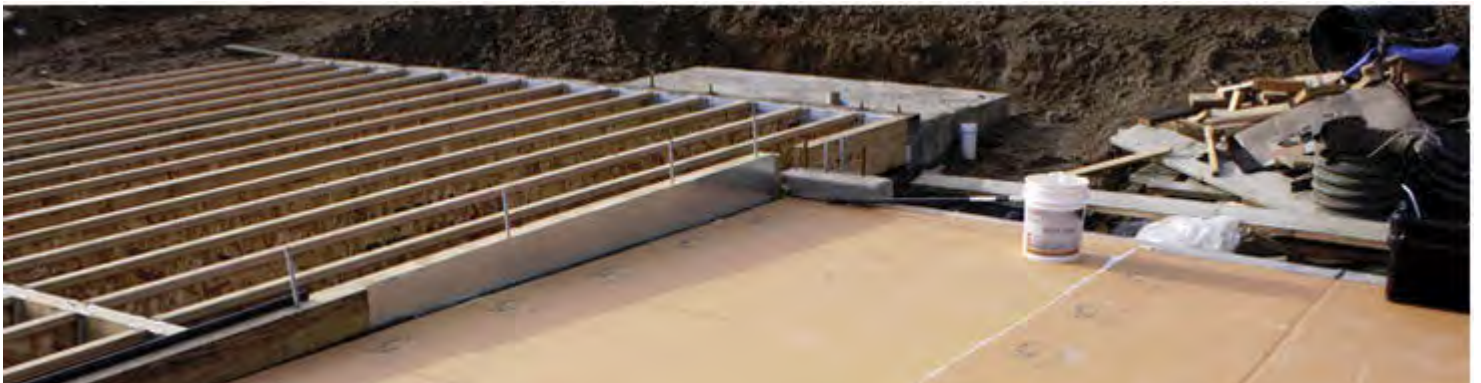
Three Grades Available:

HT (Heavy Traffic), MT (Medium Traffic), and LT (Light Traffic)



Skudo on Concrete

If you work with concrete, you're familiar with the damages that can be caused with insufficient surface protection- lack of uniformity in color, chips, cracks, stains, residue. Let Skudo help you avoid these costly damages on raw or polished concrete by protecting it from machinery, impact, stains, rust, and more. With polished concrete, Skudo gives you the flexibility to polish before the walls and framing go up- saving you the time and labor costs of doing edge work.



Tape - Coatings Remover



Pro Mask Blue Masking
Tape 2"x60 YD



Duct Tape Value Plus
2"x60 YD



2" Polyethylene Tape, Black
2" Vinyl Tape (Red, Yellow, White)



Packaging Tape



500MR

Mastic Remover For Concrete (BEAN-e-doo)

Ideal for use in occupied areas like post offices, schools, hospitals and other public places where safety is important. 500MR removes newer mastics, layered adhesives and even glues 50+ years old, using the power of soybeans. It's the first product to pass both performance and environmental safety tests by the USPS for the removal of mastic containing asbestos.

Coverage: One gallon will generally cover between 100-200 square feet. Many customers report getting up to 200 sq. ft. per gallon.

- Formerly known as BEAN-e-doo Mastic Remover
- Removes asbestos/black mastic, vinyl glue, ceramic mastic, traditional carpet adhesives
- Virtually No Odor
- Less than 3% VOC
- Made with 100% American Grown Soybeans
- GHS Compliant



600GL

Coatings Remover (SOY-Gel)

Franmar's most-asked-for product, 600GL, continues to impress contractors with its ease of use and powerful removal properties. With three times the coverage rate of traditional petroleum removers, 600GL effectively removes multiple layers of topical sealers, acrylics, enamels, urethanes, latex, some epoxies, and other single-component coatings. Made with soybeans, 600GL is a safe, low-odor, non-caustic, green coating remover. As a leading innovator in green cleaning products, Franmar Chemical, Inc. introduced 600GL as a soybased paint remover, and changed the industry. 600GL is 100% biodegradable, practically odorless, and is safe for your hands, your work, and your customers.

Coverage: Coverage per square foot varies depending on the type and age of coatings, number of layers and method of application.

Horizontal: Average coverage is 125 sq. ft. per gallon (max 200 sq. ft. per gallon)

Vertical: Average coverage is 75 sq. ft. per gallon.

- Formerly known as SOY-Gel Paint and Urethane Remover
- Removes Multiple Layers In One Application
- SAFE! No Methylene Chloride
- Made with 100% American Grown Soybeans
- Gel Formula for easy application.
- GHS Compliant
- Low Odor

SynPro Concrete Cleaner Degreaser

The only synthetic acid, non-solvent, non-caustic cleaner

Our newly patented SynPro Synthetic Acid System replaces harsh and dangerous cleaners in industries from vehicle cleaning, food processing, waste and water treatment. What makes our cleaners unique is their ability to outperform the harshest acidic and caustic solutions while remaining non-corrosive, non-skin irritating and non-regulated by the DOT. In fact, they are so safe, they carry a triple-zero HMIS score.

SynPro Concrete Cleaner Degreaser encapsulates and lifts petroleum-based oils, vegetable and animal fats, along with dirt, soils and grime without emulsifying. This combined with no detectable BOD limits and COD limits below 100 means that Syn Pro Concrete Cleaner Degreaser will not create additional problems in your waste-water run off.

We also include our live vegetative microbes to break down solids removes odor on contact with over 3 billion colonies per product gram of bio-enzymes and multi-cultured bacteria.



SynPro Ultra-Safe Etching Solution

Synpro Ultra-Safe Etching Solution is a synthetic and patented concentrate that will effectively profile or etch a concrete substrate without any harmful effect and can be used for both interior and exterior applications. It can also be used to clean and remove light concrete build up from tools and concrete equipment. This non-fuming, patented formulation will also remove mortar from bricks and tools.

Dilution and Application: We recommend a maximum 2:1 (parts water: Synpro Cleaner) for light profile and undiluted for deeper etch or surface profile.

Application is simply: mist substrate after removing debris, apply the diluted solution with a pump up sprayer, let sit for ten minutes, if solution gets dried up simply reapply and agitate with brush and rinse with clean water.

SynPro Masonry Cleaner

Until now, the only effective way to remove mortar smear, grout residue, cement and efflorescence from brick, walls and finished concrete has been to use harsh mineral acids. While these acids eat away the calcium carbonate, they pose significant dangers to other parts of the building, the environment and to the person using the product.

SynPro Masonry Cleaner is not only the strongest hardscape masonry cleaner in the world, it is also the safest. Independent tests confirm that SynPro Masonry Cleaner's unique, proprietary formula –the world's only synthetic acid– dissolves more:

- Calcium carbonate
- Efflorescence than Muriatic (Hydrochloric) or
- Phosphoric acids, the active ingredients in virtually every other masonry cleaner on the market.
- Finally, with all that potency comes with a triple zero HMIS score.



Cracking Agent



Hole Depth

1. Maximum Hole Depth is 10 feet.
2. Minimum Hole Depth is 4 times hole diameter; for example 5" with 1-1/4" hole, 6" with 1-1/2". Holes shallower than 4 times diameter are likely to blow out.
3. In reinforced concrete, drill 85 to 90% of its depth. In ledge, drill as deep as you want to remove. In boulders, drill 2/3 to 3/4 of the rock's thickness.

Betonamit



Betonamit has been used safely and with great results by thousands of contractors and homeowners all over the world. Safe use depends on following instructions and wearing safety goggles at all times. Although non-toxic, Betonamit is caustic, and can cause severe eye injury if splashed into eyes while mixing or pouring.

Also, the chemical reaction of Betonamit and water generates heat. If this reaction goes too quickly, the temperature can go above the boiling point of water before all the water has chemically combined with the Betonamit. This can result in a steam-driven explosion which blows the Betonamit from the hole with sudden force.

To avoid blowouts, follow the instructions regarding mix water temperatures and hole sizes, as told later in the manual. Always wear safety goggles, and never use drill holes larger than 1-1/2" diameter. Blow dust out of the holes after drilling, and keep Betonamit cool before use.

Temperature Chart

Rock or Concrete Temp	Water Temp(F)	Hole Size
25 to 40 F	110 F max	1-1/2" dia.
41 to 57 F	85 F max	1-1/2" or 1-3/8" dia.
58 to 72 F	65 F max	1-1/4", 1-3/8", or 1-1/2" dia.
73 to 80 F	40 F max. (iced)	1-1/4" or 1-3/8" dia.
81 to 95 F	33 F max. (iced)	1-1/4" dia.



The Cracker Non-Explosive Cracking Agent

The Cracker is a non-explosive cracking agent that can crack any hard rock or reinforced concrete. The Cracker is a universal product which may not only be substituted for explosives, hydraulic wedges, rock-breakers, and concrete-crackers, but can also be used in many places where other methods are impractical. Produced in powder form, The Cracker need only be mixed with water and poured into predrilled holes for dramatic results.

General Uses

Near Historical Buildings and Hospitals
Tunnels
Bank Vaults
Advantages and Features



SAFE — Above all, The Cracker provides a remarkably high safety factor as compared with explosives and other demolition methods. When used properly, both flyrock and vibration are eliminated.

EASY — No permits or special pre-conditions are necessary for its use or transportation

QUIET — Ideal for use in or near occupied buildings. The Cracker requires no heavy machinery and involves no blasting

NON-TOXIC — The Cracker is a lime-based product and is completely safe for the environment. As it is 100 percent biodegradable in its final form, unused material may simply be poured into the ground or diluted with cool water.

ECONOMICAL — As the flyrock characteristic of most demolition methods is eliminated with The Cracker, little or no cost is incurred for dust and debris containment. Labor requirements for application are also minimal.

KC METALS ***SUPERSPEED CONNECTORS***

CONNECTORS AND SEISMIC TIES FOR CONCRETE, STEEL STUDS,
ENGINEERED WOOD PRODUCTS AND WOOD CONSTRUCTION

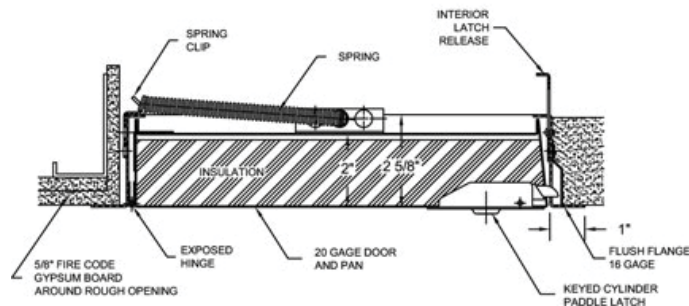


... and ***all*** concrete embedded connectors

Access Doors

KRP-150FR - Fire Rated Access Door for Walls and Ceilings

The KRP-150FR is flush mounted and has mounting holes to facilitate installation. The KRP-150FR is insulated and rated by Underwriters Laboratories for 1.5 hour "B" label in walls and by Warnock Hersey for 3 hours in ceilings.



DSC-214M - Flush Access Door for All Surfaces

The DSC-214M is a distinctly superior door for new installations or for remodeling. The exposed flange adds rigidity to the unit and perfectly conceals the rough wall opening. Flexible anchor straps can be provided for installation within masonry opening.



KDW - Flush Access Doors for Drywall Surfaces

The KDW has a textured frame and bead so drywall joint compound can be applied in sufficient thickness to conceal flange. Prepunched holes in the flange facilitate fastening the flange to framing members with drywall screws.



RDW - Recessed Access Door for Drywall Surfaces

The face of the door on the RDW is recessed to receive a panel of drywall to provide a dry wall finish on the door to match texture of surrounding drywall. The door frame includes a drywall bead so that drywall cement can be applied to conceal flange.



DSC-210PL Recessed Access Door for Plastered Surfaces

The DSC-210PL is recessed 1/2" and lined with self-furring metal lath allowing plaster of surrounding surfaces to continue without interruption over face of door.



DSB-123SD - High Security

The DSB-123SD enables architects and institutions to bring maximum security to areas where access is required for repair or maintenance purposes.



KRP-250FR - Fire Rated Access Door for Walls

The KRP-250 is non-insulated and rated by Underwriters Laboratories for 1.5 hour "B" label in wall, and may be used in 2 hour fire rated wall assembly.

Drop-In Internally-Threaded Expansion Shell Anchor

Drop-in anchors are internally threaded, deformation-controlled expansion anchors with a preassembled expander plug, suitable for flush mount applications in solid base materials. The anchor is set by driving the expansion plug towards the bottom of the anchor using the setting tool. Drop-in anchors are also available in coilthreaded versions for 1/2" and 3/4" coil threaded rod.

The Lipped Drop-In (DIAL) features a lip at the top of the anchor body that keeps the top of the anchor flush with the concrete. This eliminates the need for precisely drilled hole depths and allows for easier flush installation, consistent embedment and uniform rod lengths.

Short Drop-In anchors are for use in solid and hollow concrete. The short length permits shallow embedment that helps to avoid drilling into rebar or prestressing strands. The wide surface flange enables the Short Drop-In to be installed in deep or bottomless holes. Fixed-depth drill bits are also available to take the guesswork out of drilling to the correct depth for these 3/8" and 1/2" Short Drop-Ins. Using the fixed-depth bit drill bit prevents overdrilling, which saves time and prolongs bit life.

MATERIAL

Carbon and stainless steel (DIA37S and DIA50S available in zinc-plated, carbon steel only)

FINISH

Carbon steel: Zinc plated.

SUGGESTED SPECIFICATIONS

Drop-In anchors shall be internally threaded, expanding shell anchors. The anchor shell shall be zinc plated carbon steel with a minimum 70,000 psi tensile strength, type 303 or 316 stainless steel, as called for on the drawings. Drop-In anchors shall meet Federal Specification A-A-55614, Type I. Anchors shall be Drop-In anchors from Simpson Strong-Tie, Pleasanton, CA. Anchors shall be installed following the Simpson Strong-Tie instructions for Drop-In internally threaded expansion shell anchors.

Fixed-Depth Drill Bit Product Data

Drill Bit Diameter (in.)	Drop-In Anchor (in.)	Model No.	Drill Depth (in.)
1/2	3/8	MDPL050DIAS	15/16
3/8	1/2	MDPL062DIAS	1 1/4



Fixed-Depth Drill Bit

Drop-In Anchor Product Data - Carbon and Stainless Steel

Rod Size (in.)	Carbon Steel Model No.	303 Stainless Model No.	316 Stainless Model No.	Drill Bit Diameter (in.)	Bolt Threads (per in.)	Body Length (in.)	Thread Length (in.)	Quantity	
								Box	Ctn.
1/4	DIA25	DIA25SS	DIA256SS	3/8	20	1	3/8	100	500
3/8	DIA37	DIA37SS	DIA376SS	1/2	16	1 1/2	5/8	50	250
1/2	DIA50	DIA50SS	DIA506SS	5/8	13	2	3/4	50	200
5/8	DIA62	DIA62SS	—	7/8	11	2 1/2	1	25	100
3/4	DIA75	DIA75SS	—	1	10	3 1/8	1 1/4	20	80



Lipped Drop-In Anchor Product Data

Rod Size (in.)	Carbon Steel Model No.	Drill Bit Diameter (in.)	Bolt Threads (per in.)	Body Length (in.)	Thread Length (in.)	Quantity	
						Box	Carton
1/4	DIAL25	3/8	20	1	3/8	100	500
3/8	DIAL37	1/2	16	1 1/2	5/8	50	250
1/2	DIAL50	5/8	13	2	3/4	50	200



Lipped Drop-In Anchor

Drop-In Anchor Setting Tool Product Data

Model No.	For Use With	Box Qty.
DIAS25	DIA25, DIAL25	10
DIAS37	DIA37, DIAL37	10
DIAS50	DIA50, DIA50C, DIAL50	10
DIAS62	DIA62	5
DIAS75	DIA75, DIA75C	5



Standard Setting Tool

- Setting Tools sold separately except for DIA37S and DIA50S.
- Setting Tools for use with carbon and stainless steel Drop-In anchors.

Short Drop-In Anchor Product Data

Rod Size (in.)	Carbon Steel Model No.	Drill Bit Diameter (in.)	Bolt Threads (per in.)	Body Length (in.)	Thread Length (in.)	Quantity	
						Box	Carton
3/8	DIA37S ¹	1/2	16	3/4	3/4	100	500
1/2	DIA50S ¹	5/8	13	1	1 1/4	50	200



Short Drop-In Anchor

- A dedicated setting tool is included with each box of the DIA37S and DIA50S.

Coil-Thread Drop-In Anchor Product Data

Rod Size (in.)	Carbon Steel Model No.	Drill Bit Diameter (in.)	Bolt Threads (per in.)	Body Length (in.)	Thread Length (in.)	Quantity	
						Box	Carton
1/2	DIA50C ¹	5/8	6	2	1/4	50	200
3/4	DIA75C ¹	1	5	3 1/8	5/16	20	80



Coil-Thread Drop-In Anchor

- DIA50C and DIA75C accept 1/2" and 3/4" coil-thread rod, respectively.

Wedge Anchors



Strong-Bolt® 2 wedge anchor

The Strong-Bolt® 2 wedge anchor is a wedge-style expansion anchor designed to offer optimum performance in concrete and masonry. Carbon-steel anchors available in ¼" through 1" diameters; type 316 stainless steel anchors available in ¼" through ¾" diameters.



Features:

- Category 1 anchor classification: The Strong-Bolt 2 anchor received classification as a Category 1 anchor, which is established by performance in reliability tests in accordance with ACI193 and ACI355.2 test criteria. Category 1 is the highest attainable anchor category for reliability.
- Tri-segmented clip: Each segment adjusts independently, increasing follow-up expansion should the hole increase in size as a result of a crack.
- Dual embossments on each clip segment: Enables clip to undercut into the concrete thereby increasing follow-up expansion should a crack occur.
- The 3/8" anchor solution approved for 3 ¼" concrete thickness: The Strong-Bolt 2 anchor can be installed in cracked concrete with a minimum thickness of 3 ¼", including concrete-over-metal decking.
- High-strength alloy clip on carbon-steel anchors: This special alloy clip offers improved performance.
- Standard (ANSI) fractional anchor: Fits most fixtures and installs with common drill bit sizes and tools.
- Type 316 stainless-steel clip on stainless steel anchors: In addition to superior corrosion resistance, a stainless-steel clip offers "memory" that contributes to the anchor's performance if the hole increases in size because of a crack.

Codes: ICC-ES ESR-3037 (concrete); IAPMO UES ER-240 (carbon steel in CMU); City of Los Angeles RR25891 (concrete), RR25936 (carbon steel

in CMU); Florida FL 15731; UL File Ex3605*; FM 3043442 and 3047639; meets requirements of Federal Specifications A-A-1923A, Type 4

Carbon Steel Strong-Bolt® 2 Wedge Anchor Installation Information¹

Characteristic	Symbol	Units	Nominal Anchor Diameter								
			Carbon Steel								
			¾ inch		½ inch		¾ inch		¼ inch		
Installation Information											
Nominal Diameter	d_a^3	in.	¾		½		¾		¼		
Drill Bit Diameter	d	in.	¾		½		¾		¼		
Baseplate Clearance Hole Diameter ²	d_c	in.	7/16		9/16		11/16		7/8		
Installation Torque	T_{inst}	ft-lbf	30		60		90		150		
Nominal Embedment Depth	h_{nom}	in.	1 7/8	2 7/8	2 3/4	3 7/8	3 3/8	5 1/8	4 1/8	5 3/4	
Effective Embedment Depth	h_{ef}	in.	1 1/2	2 1/2	2 1/4	3 3/8	2 3/4	4 1/2	3 3/8	5	
Minimum Hole Depth	h_{hole}	in.	2	3	3	4 1/8	3 3/8	5 3/8	4 3/8	6	
Minimum Overall Anchor Length	ℓ_{anch}	in.	2 3/4	3 1/2	3 3/4	5 1/2	4 1/2	6	5 1/2	7	
Critical Edge Distance	c_{ac}	in.	6 1/2	6	6 1/2	6 1/2	7 1/2	7 1/2	9	8	
Minimum Edge Distance	c_{min}	in.	6		7	4	4	6 1/2		6 1/2	
	for $s \geq$	in.	—		—	—	—	—		8	
Minimum Spacing	s_{min}	in.	3		7	4	4	5		7	
	for $c \geq$	in.	—		—	—	—	—		8	
Minimum Concrete Thickness	h_{min}	in.	3 1/4	4 1/2	4 1/2	5 1/2	6	5 1/2	7 3/8	6 3/4	
Additional Data											
Yield Strength	f_{ya}	psi	92,000				85,000			70,000	
Tensile Strength	f_{uta}^4	psi	—				115,000			110,000	
Minimum Tensile and Shear Stress Area	A_{se}	in ²	0.0514		0.105		0.166		0.270		
Axial Stiffness in Service Load Range - Cracked and Uncracked Concrete	β	lb./in	34,820		63,570		91,370		118,840		

1. The information presented in this table is to be used in conjunction with the design criteria of ACI 318 Appendix D.
2. The clearance must comply with applicable code requirements for the connected element.
3. For the 2006 IBC, d_o replaces d_a .
4. For the 2003 IBC, f_{ut} replaces f_{uta} .

Strong-Bolt™ 2 Anchor Product Data

Size (in.)	Carbon Steel Model No.	316 Stainless Steel Model No.	Drill Bit Dia. (in.)	Thread Length (in.)	Quantity	
					Box	Carton
¼ x 1 ¾	STB2-25134	STB2-251346SS	¼	1 ½	100	500
¼ x 2 ¼	STB2-25214	STB2-252146SS	¼	1 7/16	100	500
¼ x 3 ¾	STB2-25314	STB2-253146SS	¼	2 7/16	100	500
⅜ x 2 ¾	STB2-37234	STB2-372346SS	⅜	1 ¾	50	250
⅜ x 3	STB2-37300	STB2-373006SS	⅜	1 9/16	50	250
⅜ x 3 ½	STB2-37312	STB2-373126SS	⅜	2 1/16	50	250
⅜ x 3 ¾	STB2-37334	STB2-373346SS	⅜	2 5/16	50	250
⅜ x 5	STB2-37500	STB2-375006SS	⅜	3 9/16	50	200
⅜ x 7	STB2-37700	STB2-377006SS	⅜	5 9/16	50	200
½ x 3 ¾	STB2-50334	STB2-503346SS	½	2 1/16	25	125
½ x 4 ¼	STB2-50414	STB2-504146SS	½	2 9/16	25	100
½ x 4 ¾	STB2-50434	STB2-504346SS	½	3 1/16	25	100
½ x 5 ½	STB2-50512	STB2-505126SS	½	3 13/16	25	100
½ x 7	STB2-50700	STB2-507006SS	½	5 9/16	25	100
½ x 8 ½	STB2-50812	STB2-508126SS	½	6	25	50
½ x 10	STB2-50100	STB2-501006SS	½	6	25	50
⅝ x 4 ½	STB2-62412	STB2-624126SS	⅝	2 7/16	20	80
⅝ x 5	STB2-62500	STB2-625006SS	⅝	2 15/16	20	80
⅝ x 6	STB2-62600	STB2-626006SS	⅝	3 15/16	20	80
⅝ x 7	STB2-62700	STB2-627006SS	⅝	4 15/16	20	80
⅝ x 8 ½	STB2-62812	STB2-628126SS	⅝	6	20	40
⅝ x 10	STB2-62100	STB2-621006SS	⅝	6	10	20
¾ x 5 ½	STB2-75512	STB2-755126SS	¾	3 9/16	10	40
¾ x 6 ¼	STB2-75614	STB2-756146SS	¾	3 13/16	10	40
¾ x 7	STB2-75700	STB2-757006SS	¾	4 11/16	10	40
¾ x 8 ½	STB2-75812	STB2-758126SS	¾	6	10	20
¾ x 10	STB2-75100	—	¾	6	10	20
1 x 7	STB2-100700	—	1	3 ½	5	20
1 x 10	STB2-1001000	—	1	3 ½	5	10
1 x 13	STB2-1001300	—	1	3 ½	5	10

Material Specifications

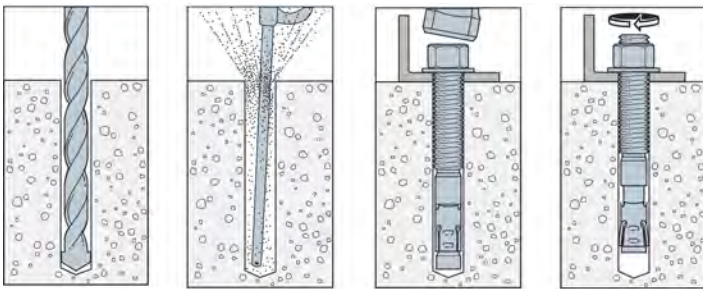
Component Materials				
Finish	Anchor Body	Nut	Washer	Clip
Carbon Steel - Zinc Plated ¹	Carbon Steel	Carbon Steel ASTM A 563 Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568
Type 316/304 Stainless Steel	Type 316/304 Stainless Steel	Type 316/304 Stainless Steel	Type 316/304 Stainless Steel	Type 316/304 Stainless Steel

1. Zinc meets ASTM B 633, Class SC 1 (Fe/Zn 5), Type III.

Stainless Steel			
Component Materials			
Anchor Body	Nut	Washer	Clip
Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel

Installation: Do not use an impact wrench to set or tighten the Strong-Bolt 2 anchor.

Installation Sequence



Caution: Oversized holes in the base material will make it difficult to set the anchor and will reduce the anchor's load capacity.

- Drill a hole in the base material using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified minimum hole depth and blow it clean using compressed air. Overhead installations need not be blown clean. Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling.
- Assemble the anchor with nut and washer so that the top of the nut is flush with the top of the anchor. Place the anchor in the fixture and drive into the hole until washer and nut are tight against the fixture.
- Tighten to the required installation torque.



Length Identification Head Marks on Strong-Bolt Anchors (corresponds to length of anchor – inches).

Mark	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
From	1 ½	2	2 ½	3	3 ½	4	4 ½	5	5 ½	6	6 ½	7	7 ½	8	8 ½	9	9 ½	10	11	12	13	14	15	16	17	18
Up to but not including	2	2 ½	3	3 ½	4	4 ½	5	5 ½	6	6 ½	7	7 ½	8	8 ½	9	9 ½	10	11	12	13	14	15	16	17	18	19

Wedge Anchors

TITEN HD

HEAVY DUTY SCREW ANCHOR FOR CRACKED AND UNCRACKED CONCRETE

The Titen HD anchor is patented, high-strength screw anchor for concrete and masonry. It is designed for optimum performance in both cracked and uncracked concrete, a requirement that IBC places on post-installed anchors for use in seismic applications. The self-undercutting, non-expansion characteristics of the Titen HD anchor make it ideal for structural applications, even at reduced edge distances and spacings. Recommended for permanent application in dry, interior, non-corrosive environments or temporary outdoor applications.

Features:


- Now offering 1/4" diameter for cracked and uncracked concrete
- Code-listed under the current IBC/IRC in accordance with AC193 for cracked concrete applications per ICC-ES ESR-2713
- Code-listed under the current IBC/IRC in accordance with AC106 for masonry applications per ICC-ES ESR-1056
- Thread design undercuts to efficiently transfer the load to the base material
- Specialized heat-treating process creates tip hardness for better cutting without compromising the ductility that helps prevent breakage
- No special drill bit needed: Designed to install using standard sized ANSI tolerance drill bits
- Installs with 50% less torque: Testing shows that when compared to competitors, the Titen HD requires 50% less torque to be installed in concrete.
- Hex-washer head: Requires no separate washer and provides a clean installed appearance.*
- Removable: Ideal for temporary anchoring (e.g. formwork, bracing) or applications where fixtures may need to be moved. Re-use of the anchor to achieve listed load values is not recommended.




Serrated teeth on the tip of the Titen HD® screw anchor facilitate cutting and reduce installation torque.

Size	Model No.	Drill Bit Dia. (in.)	Min. Fixture Hole Size	Quantity	
				Box	Carton
1/4" x 1 7/8"	THDB25178H	1/4	3/8	100	500
1/4" x 2 3/4"	THDB25234H	1/4	3/8	50	250
1/4" x 3"	THDB25300H	1/4	3/8	50	250
1/4" x 3 1/2"	THDB25312H	1/4	3/8	50	250
1/4" x 4"	THDB25400H	1/4	3/8	50	250
3/8" x 3"	THD37300H	3/8	9/16	50	200
3/8" x 4"	THD37400H	3/8	9/16	50	200
3/8" x 5"	THD37500H	3/8	9/16	50	100
3/8" x 6"	THD37600H	3/8	9/16	50	100
1/2" x 3"	THD50300H	1/2	3/4	25	100
1/2" x 4"	THD50400H	1/2	3/4	20	80
1/2" x 5"	THD50500H	1/2	3/4	20	80
1/2" x 6"	THD50600H	1/2	3/4	20	80
1/2" x 6 1/2"	THD50612H	1/2	3/4	20	40
1/2" x 8"	THD50800H	1/2	3/4	20	40
1/2" x 12"	THD501200H	1/2	3/4	20	40
1/2" x 13"	THD501300H	1/2	3/4	20	40
1/2" x 14"	THD501400H	1/2	3/4	20	40
1/2" x 15"	THD501500H	1/2	3/4	20	40
5/8" x 4"	THDB62400H	5/8	15/16	10	40
5/8" x 5"	THDB62500H	5/8	15/16	10	40
5/8" x 6"	THDB62600H	5/8	15/16	10	40
5/8" x 6 1/2"	THDB62612H	5/8	15/16	10	40
5/8" x 8"	THDB62800H	5/8	15/16	10	20
3/4" x 4"	THD75400H	3/4	1 1/8	10	40
3/4" x 5"	THD75500H	3/4	1 1/8	5	20
3/4" x 6"	THD75600H	3/4	1 1/8	5	20
3/4" x 7"	THD75700H	3/4	1 1/8	5	10
3/4" x 8 1/2"	THD75812H	3/4	1 1/8	5	10
3/4" x 10"	THD75100H	3/4	1 1/8	5	10


Size (in.)	Model No.	Drill Bit Dia. (in.)	Wrench Size (in.)	Quantity	
				Box	Carton
3/8" x 5	THD37500HMG	3/8	9/16	50	100
3/8" x 6	THD37600HMG			50	100
1/2" x 5	THD50500HMG	1/2	3/4	20	80
1/2" x 6	THD50600HMG			20	80
1/2" x 6 1/2	THD50612HMG			20	40
1/2" x 8	THD50800HMG			20	40
5/8" x 5	THD62500HMG	5/8	15/16	10	40
5/8" x 6	THD62600HMG			10	40
5/8" x 6 1/2	THD62612HMG			10	40
5/8" x 8	THD62800HMG			10	20
5/8" x 5	THDB62500HMG	5/8	15/16	10	40
5/8" x 6	THDB62600HMG			10	40
5/8" x 6 1/2	THDB62612HMG			10	40
5/8" x 8	THDB62800HMG			10	20
3/4" x 8 1/2	THD75812HMG	3/4	1 1/8	5	10
3/4" x 10	THD75100HMG			5	10

Common Nail 
Most popular nail and versatile style. For construction, carpentry and framing. Larger shank provides greater resistance to bending. Made to conform to ASTM F1667.

Common Nail Bright Smooth Shank					
Size	Gauge	Head Size	Approx. Count Per Pound	SKU	
2"	6D	11-1/2	17/64"	167	6C
2-1/4"	7D	11-1/2	17/64"	150	7C
2-1/2"	8D	10-1/4	9/32"	101	8C
3"	10D	9	5/16"	66	10C
3-1/4"	12D	9	5/16"	61	12C
3-1/2"	16D	8	11/32"	47	16C
4"	20D	6	13/32"	29	20C
4-1/2"	30D	5	7/16"	22	30C
5"	40D	4	15/32"	17	40C
5-1/2"	50D	3	1/2"	13	50C
6"	60D	2	17/32"	10	60C


Box Nail 
For construction, carpentry, framing, and box making. Smooth, thin shank reduces wood splitting. Made to conform to ASTM F1667.

Box Nail Bright Smooth Shank					
Size	Gauge	Head Size	Approx. Count Per Pound	SKU	
1-1/2"	4D	14	7/32"	473	4BX
1-3/4"	5D	14	7/32"	406	5BX
2"	6D	12-1/2	17/64"	236	6BX
2-1/4"	7D	12-1/2	17/64"	210	7BX
2-1/2"	8D	11-1/2	19/64"	145	8BX
3"	10D	10-1/2	5/16"	94	10BX
3-1/4"	12D	10-1/2	5/16"	88	12BX
3-1/2"	16D	10	11/32"	71	16BX
4"	20D	9	3/8"	52	20BX
5"	40D	8	13/32"	35	40BX


Duplex Nail 
For temporary construction where nail removal is required, such as concrete forming and scaffolding. Smooth, uncoated shank and double head ease removal (second head remains exposed). Made to conform to ASTM F1667.

Duplex Nail Bright Double-head Shank					
Size*	Gauge	Head Size	Approx. Count Per Pound	SKU	
1-3/4"	6D	11-1/2	3/16" / 17/64"	156	6DUP
2-1/4"	8D	10-1/4	15/64" / 9/32"	90	8DUP
2-3/4"	10D	9	1/4" / 5/16"	59	10DUP
2-7/8"	12D	9	1/4" / 5/16"	57	12DUP
3"	16D	8	9/32" / 11/32"	45	16DUP
3-1/2"	20D	6	5/16" / 3/8"	28	20DUP

*Measurement is from nail point to under bottom head.

Sinker 
For construction, carpentry and framing. Checkered countersunk head designed to sink flush with surface. Vinyl-coated smooth shank for easier nailing and firmer holding power. Made to conform to ASTM F1667.


Sinker Coated Smooth Shank					
Size	Gauge	Head Size	Approx. Count Per Pound	SKU	
1-7/8"	6D	13	15/64"	293	6CTDSKR
2-1/8"	7D	12-1/2	1/4"	223	7CTDSKR
2-3/8"	8D	11-1/2	17/64"	153	8CTDSKR
2-7/8"	10D	11	9/32"	111	10CTDSKR
3-1/8"	12D	10	5/16"	81	12CTDSKR
3-1/4"	16D	9	11/32"	64	16CTDSKR

Masonry Nail 
For attaching furring strips and floor plates to uncured concrete. Made to conform to ASTM F1667.

Masonry Nail Tempered Hardened Steel Fluted Shank					
Size	Gauge	Head Size	Approx. Count Per Pound	SKU	
3/4"	9	5/16"	248	34TFMAS	
1"	9	5/16"	186	1TFMAS	
1-1/4"	9	5/16"	152	114TFMAS	
1-1/2"	9	5/16"	128	112TFMAS	
1-3/4"	9	5/16"	112	134TFMAS	
2"	9	5/16"	98	21FMAS	
2-1/2"	9	5/16"	78	212TFMAS	
3"	9	5/16"	78	3TFMAS	
3-1/2"	8	11/32"	48	312TFMAS	


Exterior Screw Bugle Head Coarse Thread PrimeGuard Ten

Size	Drive	Point	Bulk Carton Quantity	Approx. Count Per Pound	SKU
1-1/4" x 6	#2 Phillips	Sharp	8M	218	PTN114S
1-5/8" x 6	#2 Phillips	Sharp	5M	200	PTN158S
2" x 7	#2 Phillips	Sharp	3.5M	134	PTN2S
2-1/4" x 7	#2 Phillips	Sharp	3M	125	PTN214S
2-1/2" x 8	#2 Phillips	Sharp	2.5M	86	PTN212S
3" x 8	#2 Phillips	Sharp	2M	75	PTN3S
3-1/2" x 10	#2 Phillips	Sharp	1.5M or 1M	43	PTN312S
4" x 10	#2 Phillips	Sharp	1M	43	PTN4S
1" x 6	#2 Square	Sharp	10M	313	PTN1S
1-1/4" x 6	#2 Square	Sharp	8M	218	PTN114SQ
1-5/8" x 6	#2 Square	Sharp	5M	200	PTN158SQ
2" x 7	#2 Square	Sharp	3.5M	134	PTN2SQ
2-1/4" x 7	#2 Square	Sharp	3M	125	PTN214SQ
2-1/2" x 8	#2 Square	Sharp	2.5M	86	PTN212SQ
3" x 8	#2 Square	Sharp	2M	75	PTN3SQ
3-1/2" x 10	#2 Square	Sharp	1.5M or 1M	43	PTN312SQ
4" x 10	#2 Square	Sharp	1M	43	PTN4SQ

Exterior Screw PrimeGuard Ten® Bugle Head Sharp Point 
Ten-year warranty against rust and corrosion, including when used with treated lumber. For outdoor projects including decks and fences.

Exterior Screw Bugle Head Coarse Thread PrimeGuard Ten

Size	Drive	Point	Bulk Carton Quantity	Approx. Count Per Pound	SKU
1" x 6	#2 Phillips	Sharp	10M	313	PTN1S
1-1/4" x 6	#2 Phillips	Sharp	8M	218	PTN114S
1-5/8" x 6	#2 Phillips	Sharp	5M	200	PTN158S
2" x 7	#2 Phillips	Sharp	3.5M	134	PTN2S
2-1/2" x 8	#2 Phillips	Sharp	2.5M	86	PTN212S
3" x 8	#2 Phillips	Sharp	2M	75	PTN3S
3-1/2" x 10	#2 Phillips	Sharp	1.5M or 1M	43	PTN312S
4" x 10	#2 Phillips	Sharp	1M	43	PTN4S
5" x 10	#2 Phillips	Sharp	1M	37	PTN5S
6" x 10	#2 Phillips	Sharp	1M	32	PTN6S

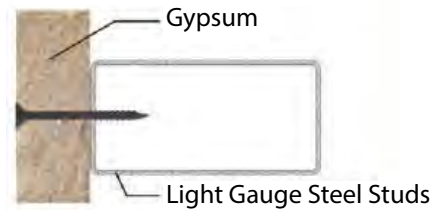
Joist Hanger Nail 
For attaching joist hangers to wood studs. Short, heavy gauge nail provides increased holding power without fully penetrating wood.

Joist Hanger Nail Bright Smooth or Barbed Shank					
Size	Gauge	Head Size	Approx. Count Per Pound	SKU	
1-1/4"	9	5/16"	149	114JST	28
1-1/4"	11	9/32"	240	114JST11	26
1-1/2"	9	5/16"	125	112JST	10
1-1/2"	10-1/4	9/32"	165	112JST10	
1-1/2"	11	9/32"	200	112JST11	
1-3/4"	9	5/16"	65	134JST	
2-1/2"	8	11/32"	62	212JST	

Bugle Fine



For attaching gypsum board to 25-20 gauge steel studs. Bugle head No. 2 Reduced Phillips Recess.



Gypsum Board to 25-20 Gauge Steel Studs

Part No.	Size	Box Qty
FS100	6x1	10M
FS118	6x1-1/8	10M
FS114	6x1-1/4	8M
FS112	6x1-1/2	6M
FS158	6x1-5/8	5M
FS6200	6x2	3.5M
FS200	7x2	3.5M
FS214	7x2-1/4	3M

Part No.	Size	Box Qty
FS212	8x2-1/2	2.5M
FS300	8x3	2M
FS312	10x3-1/2	1M
FS334	10x3-3/4	1M
FS400	10x4	1M
FS412	10x4-1/2	1M
FS500	10x5	1M
FS600	10x6	1M

Nails - Screws

Bugle Coarse



Gypsum Board to Wood Studs

Bugle Coarse		
Part No.	Size	Box Qty
CS100	6x1	10M
CS118	6x1-1/8	10M
CS114	6x1-1/4	8M
CS112	6x1-1/2	6M
CS158	6x1-5/8	5M
CS6200	6x2	3.5M
CS200	7x2	3.5M
CS214	7x2-1/4	3M

Bugle Coarse		
Part No.	Size	Box Qty
CS212	8x2-1/2	2.5M
CS300	8x3	2M
CS312	10x3-1/2	1M
CS334	10x3-3/4	1M
CS400	10x4	1M
CS412	10x4-1/2	1M
CS500	10x5	1M
CS600	10x6	1M

For attaching gypsum board to wood studs, CS118 6x1-1/8 10M CS300 Bugle head No. 2 Reduced Phillips Recess.

High and Low Thread



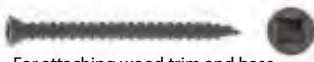
For attaching drywall to light gauge steel studs and for special applications requiring strip-out resistance. No. 2 Reduced Phillips Recess.

Drywall to Light Gauge Steel Studs

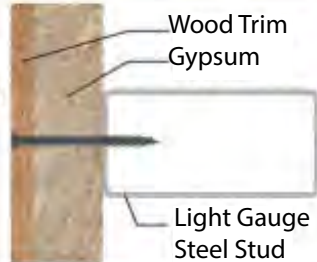
High and Low Thread		
Part No.	Size	Box Qty
HL1	6x1	10M
HL118	6x1-1/8	10M
HL114	6x1-1/4	8M
HL158	6x1-5/8	5M

High and Low Thread		
Part No.	Size	Box Qty
HL2	7x2	3.5M
HL214	7x2-1/4	3M
HL212	8x2-1/2	2.5M
HL3	8x3	2M

Trim Head Wood Trim & Base Over Gypsum Board to Light Gauge Steel Studs



For attaching wood trim and base over gypsum board to light gauge steel studs or wood substrate. No.1 or 2 Square Recess.



Trim Head		
Part No.	Size	Box Qty
TH158	6x1-5/8	5M
TH214	6x2-1/4	3M
TH3	8x3	2M

Drywall Laminator



For attaching gypsum board to gypsum board.

Gypsum Board to Gypsum Board

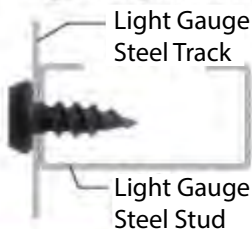
Drywall Laminator		
Part No.	Size	Box Qty
LS10112	10x1-1/2	5M

Pan Framer



For attaching 20-16 gauge steel track to 20-16 gauge steel studs. With serrations to reduce spin out. No. 2 Reduced Phillips Recess. Available in zinc and black phosphate.

Light Gauge Steel Track to Light Gauge Steel Studs



Pan Framer		
Part No.	Size	Box Qty
PF716	7x7/16	10M
PF71615M	7x7/16	15M



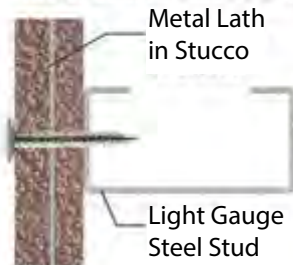
Modified Truss



For attaching metal lath in stucco and other applications to 20-16 gauge steel studs. No. 2 Reduced Phillips Recess.



Metal Lath in Stucco to Wood or Light Gauge Steel Studs

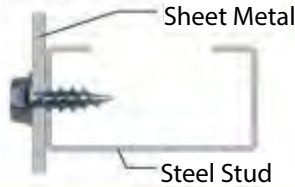


Modified Truss		
Part No.	Size	Box Qty
MT812	8x1/2	10M
MT834	8x3/4	8M
MT100	8x1	5M
MT114	8x1-1/4	5M
MT158	8x1-5/8	5M
MT178	8x1-7/8	4M
MT200	8x2	2.5M
MT212	8x2-1/2	2M
MT300	8x3	1.5M

Slotted Hex Washer Head



Self-piercing needle point penetrates sheet metal from 0.0209" to 0.0358". Twin lead threads assure fast action and reduce driving torque and strip-out problems.



Penetrates Sheet Metal

Slotted Hex Washer Head

Part No.	Size	Box Qty
1/4" Drive		
HW4712	7 x 1/2	15M
HW4812	8 x 1/2	10M
HW4834	8 x 3/4	10M
HW48100	8 x 1	8M
HW48112	8 x 1-1/2	5M
HW48200	8 x 2	3M
HW51012	10 x 1/2	8M
HW41034	10 x 3/4	6M
HW410100	10 x 1	5M
HW410112	10 x 1-1/2	3M
HW410200	10 x 2	2M

Slotted Hex Washer Head

Part No.	Size	Box Qty
5/16" Drive		
HW51012	10 x 1/2	8M
HW51034	10 x 3/4	6M
HW510100	10 x 1	5M
HW510112	10 x 1-1/2	3M
HW510200	10 x 2	2M

Recommended for H.V.A.C, electrical, plumbing, framing and sheet metal. Zinc plated.



Standing Seam Roof Clip Screw



Metal Roof Applications

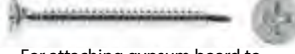
For attaching standing seam roof clips to metal or wood. Combo or star drive. Also available in stainless steel.

Standing Seam Roof Clip Screw

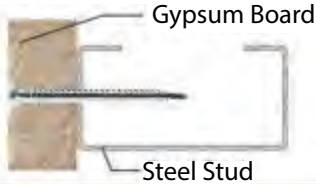
Part No.	Size	Box Qty
PCD10100*	10 x 1	6M
PSD10100**	10 x 1	6M

* Combo drive
** Star drive

Bugle Head



For attaching gypsum board to 20-14 gauge steel studs. No. 2 Reduced Phillips Recess.



Gypsum Board to 20-14 Gauge Steel Studs

Bugle Head

Part No.	Size	Box Qty
SDZ100	6 x 1	10M
SDZ118	6 x 1-1/8	10M
SDZ114	6 x 1-1/4	8M
SDZ158	6 x 1-5/8	5M
SDZ178	6 x 1-7/8	4M
SDZ238	8 x 2-3/8	3M
SDZ258	8 x 2-5/8	2M
SDZ300	8 x 3	2M

Available in zinc and black phosphate.

Bugle Head

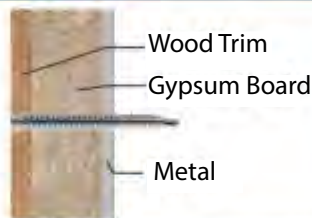
Part No.	Size	Box Qty
SD100*	6 x 1	10M
SD118*	6 x 1-1/8	10M
SD114*	6 x 1-1/4	8M
SD158*	6 x 1-5/8	5M
SD178*	6 x 1-7/8	4M
SD238*	8 x 2-3/8	3M
SD258*	8 x 2-5/8	2M
SD300*	8 x 3	2M

* Black Phosphate

Trim Head Wood Trim Over Gypsum to 20-14 Gauge Metal



For attaching wood trim over gypsum to 20-14 gauge metal. No. 1 or 2 Square Recess. Available in zinc and black phosphate.



Trim Head

Part No.	Size	Box Qty
THDZ158	6 x 1-5/8	5M
THDZ214	6 x 2-1/4	3M
THDZ3	8 x 3	2M
THD158*	6 x 1-5/8	5M
THD214*	6 x 2-1/4	3M
THD3*	8 x 3	2M

* Black Phosphate

Bugle Head Pilot Point



Plywood to 20-14 Gauge Steel Metal

For attaching up to 3/4" plywood to 20-14 gauge metal. Combo drive. 1,000 hour exterior all weather coating.

Pilot Point Bugle Head

Part No.	Size	Box Qty
PP2	8 x 2	4M

Flat Head Pilot Point



Plywood to 18-12 Gauge Steel Metal

For attaching up to 1-1/8" plywood to 18-12 gauge metal. Combo drive. 1,000 hour exterior all weather coating.

Pilot Point Flat Head

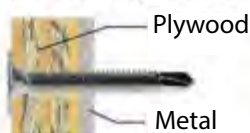
Part No.	Size	Box Qty
PP212	10 x 2-1/2	2M

Phillips Wafer Head



For attaching 1/4"-1/2" plywood to 18-12 gauge metal. No. 2 Reduced Phillips Recess.

1/4"-1/2" Plywood to 18-12 Gauge Metal



Phillips Wafer Head

Part No.	Size	Box Qty
PWD1034	10 x 3/4	8M
PWD10100	10 x 1	5M
PWD10114	10 x 1-1/4	4M
PWD10112	10 x 1-1/2	4M

Nails - Screws

Phillips Wafer Head With Wings 5/8" - 3/4" Plywood to 18-12 Gauge Metal



For attaching 5/8" - 3/4" plywood to 18-12 gauge metal. Wings eliminate pre-drilling of wood. No. 2 Reduced Phillips Recess. metal. No. 2 Reduced Phillips Recess.

Part No.	Size	Box Qty
PWD101716	10x1-7/16	3M

Phillips Flat Head With Wings 7/8" - 2-1/4" Plywood to 16-12 Gauge Metal



For attaching 7/8" - 2-1/4" plywood to 16-12 gauge metal. No. 3 point. Wings eliminate pre-drilling of wood. No. 2 or 3 Phillips Recess.

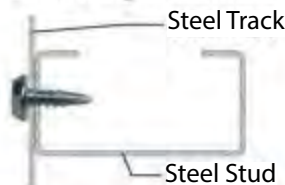
Part No.	Size	Box Qty
PF10158	10x1-5/8	3M
PF12200	12x2	3M
PF12212	12x2-1/2	1M
PF14214	14x2-3/4	1M
PF14314	14x3-1/4	1M

Pan Framer



gauge steel studs. With serrations to reduce spin out. No. 2 Reduced Phillips Recess. Available in zinc and black phosphate.

20-16 Gauge Steel Track to 20-16 Gauge Steel Studs



Part No.	Size	Box Qty
PFD716*	7x7/16	10M
PFD71615M*	7x7/16	15M
PFZD716**	7x7/16	10M
PFZD71615M**	7x7/16	15M

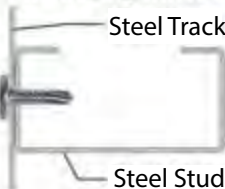
*Black Phosphate
**Zinc

Pancake Framer



For attaching 20-14 gauge steel track to 20-16 gauge steel studs. No. 2 Reduced Phillips Recess.

20-14 Gauge Steel Track to 20-16 Gauge Steel Studs



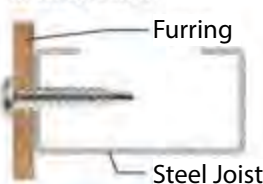
Part No.	Size	Box Qty
PPH1058	10x5/8	7.5M

Phillips Pan Head



For attaching strapping or furring channel to steel joist. No. 2 Reduced Phillips Recess.

Strapping or Furring Channel to Steel Joist



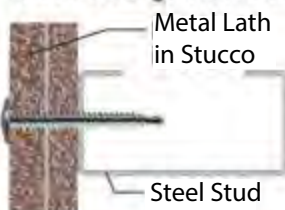
Part No.	Size	Box Qty
PD812	8x1/2	10M
PD834	8x3/4	10M
PD8100	8x1	8M
PD8114	8x1-1/4	4M
PD1012	10x1/2	8M
PD1058	10x5/8	7M
PD1034	10x3/4	6M
PD10100	10x1	5M

Modified Truss



For attaching metal lath in stucco and other applications to 20-16 gauge steel studs.

Metal Lath in Stucco to 20-16 Gauge Steel Studs

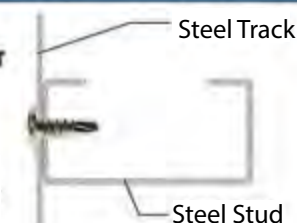


Part No.	Size	Box Qty
MTD812	8x1/2	10M
MTD834	8x3/4	10M
MTD8100	8x1	8M
MTD8114	8x1-1/4	6M
MTD8158	8x1-5/8	5M
MTD8178	8x1-7/8	3M
MTD8200	8x2	2.5M
MTD8212	8x2-1/2	2M
MTD8300	8x3	1.5M
MTD1034	10x3/4	5M

Low Profile Truss Low Profile 20-16 Gauge Framer



Low profile 20-16 gauge framer. No. 10 diameter for added shear strength. With serrations to reduce



Part No.	Size	Box Qty
FT1012	10x1/2	8.5M
FT1034	10x3/4	7.5M



Nail Identification Chart

FRAMING/SHEATHING NAILS				
SIZE	FINISH	SHANK	HEAD STAMP	COLOR
2 3/8 X 0.113	Bright	Smooth	1	Green
2 3/8 X 0.113	Bright	Ring	1r	Green
2 3/8 X 0.113	Hot Galvanized (ZincGard) [®]	Smooth	D1	
2 3/8 X 0.113	Hot Galvanized (ZincGard) [®]	Ring	TD	
2 1/2 X 0.131	Bright	Smooth	3	Blue
2 1/2 X 0.131	Hot Galvanized (ZincGard) [®]	Smooth	E3	
3 X 0.131	Bright	Smooth	3	White
3 X 0.131	Hot Galvanized (ZincGard) [®]	Smooth	F3	
3 1/4 X 0.131	Bright	Smooth	3	Black
3 1/4 X 0.131	Hot Galvanized (ZincGard) [®]	Smooth	J3	
3 1/2 X 0.135	Bright	Smooth	5	Orange
2 1/8 X 0.148	Bright	Smooth	4	Pink
2 1/8 X 0.148	Bright	Screw	4r	Pink
2 1/8 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	B4	
2 1/4 X 0.148	Bright	Smooth	4	Brown
2 1/4 X 0.148	Bright	Screw	4r	Brown
2 1/4 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	C4	
2 3/8 X 0.148	Bright	Smooth	4	Green
2 3/8 X 0.148	Bright	Screw	4r	Green
2 3/8 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	D4	
2 1/2 X 0.148	Bright	Screw	4	Blue
2 1/2 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	E4	
3 X 0.148	Bright	Smooth	4	White
3 X 0.148	Bright	Screw	4r	White
3 X .148	Hot Galvanized (ZincGard) [®]	Smooth	F4	
3 1/4 X 0.148	Bright	Smooth	4	Black
3 1/4 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	J4	
3 1/2 X 0.162	Bright	Smooth	6	Orange
3 1/2 X 0.162	Hot Galvanized (ZincGard) [®]	Smooth	K6	

HARDWARE NAILS				
SIZE	FINISH	SHANK	HEAD STAMP	COLOR
1 1/2 X 0.131	Bright	Smooth	3H	Purple/Púrpura
1 1/2 X 0.131	Hot Galvanized (ZincGard) [®]	Smooth	A3	
1 1/2 X 0.148	Bright	Smooth	4H	Purple/Púrpura
1 1/2 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	A4	
2 1/2 X 0.131	Bright	Smooth	3H	Blue/Azul
2 1/2 X 0.131	Hot Galvanized (ZincGard) [®]	Smooth	E3	
2 1/2 X 0.148	Bright	Smooth	4H	Blue/Azul
2 1/2 X 0.148	Hot Galvanized (ZincGard) [®]	Smooth	E4	
2 1/2 X 0.162	Bright	Smooth	6H	Blue/Azul
2 1/2 X 0.162	Hot Galvanized (ZincGard) [®]	Smooth	E6	

Nails - Screws

COLLATED NAILS BY TYPE OF COLLATION:

0° & 15° Plastic Sheet Coil

- Siding & Fencing
- Framing

Pages 8-9



15° Wire Coil

- Siding & Fencing
- Framing
- Pallet Mfg

Pages 10-17



15° Wire Coil

- Roofing

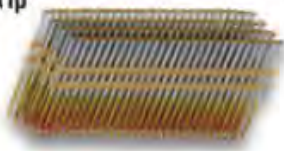
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21° Plastic Strip

- Framing

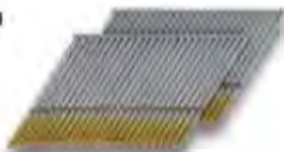
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28° Wire Strip

- Framing

Pages 22-24



33° Paper Tape Strip

- Joist Hanger
- Framing

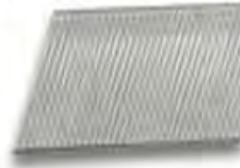
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Angled Finish Nails

- Finish Trim
- Moulding

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Straight Finish Nails

- Finish Trim
- Moulding

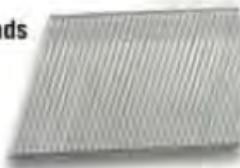
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Angled Finish Brads

- Finish Trim
- Moulding

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Straight Finish Brads

- Finish Trim
- Moulding

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23° Micro Pins

- Trim
- Hobby Work

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Wide Crown Staples

- Shingle
- Lathing & Truss

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Medium Crown Staples

- Sheathing
- Decking & Crating

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Narrow Crown Staples

- Finish Trim

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Hammer Tacker Staples

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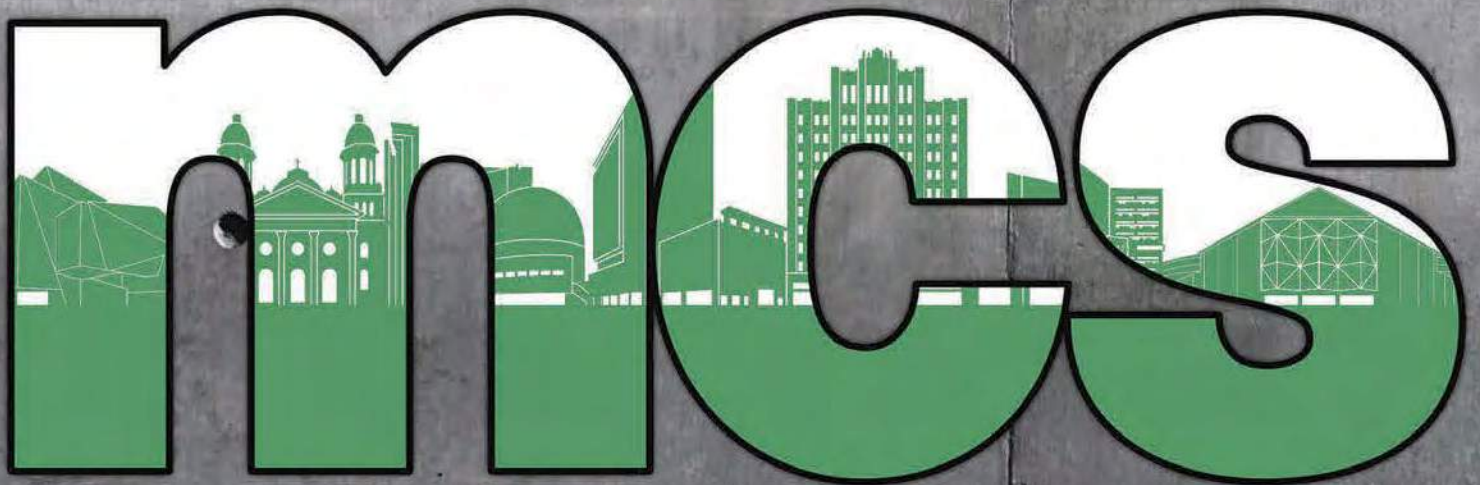
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