

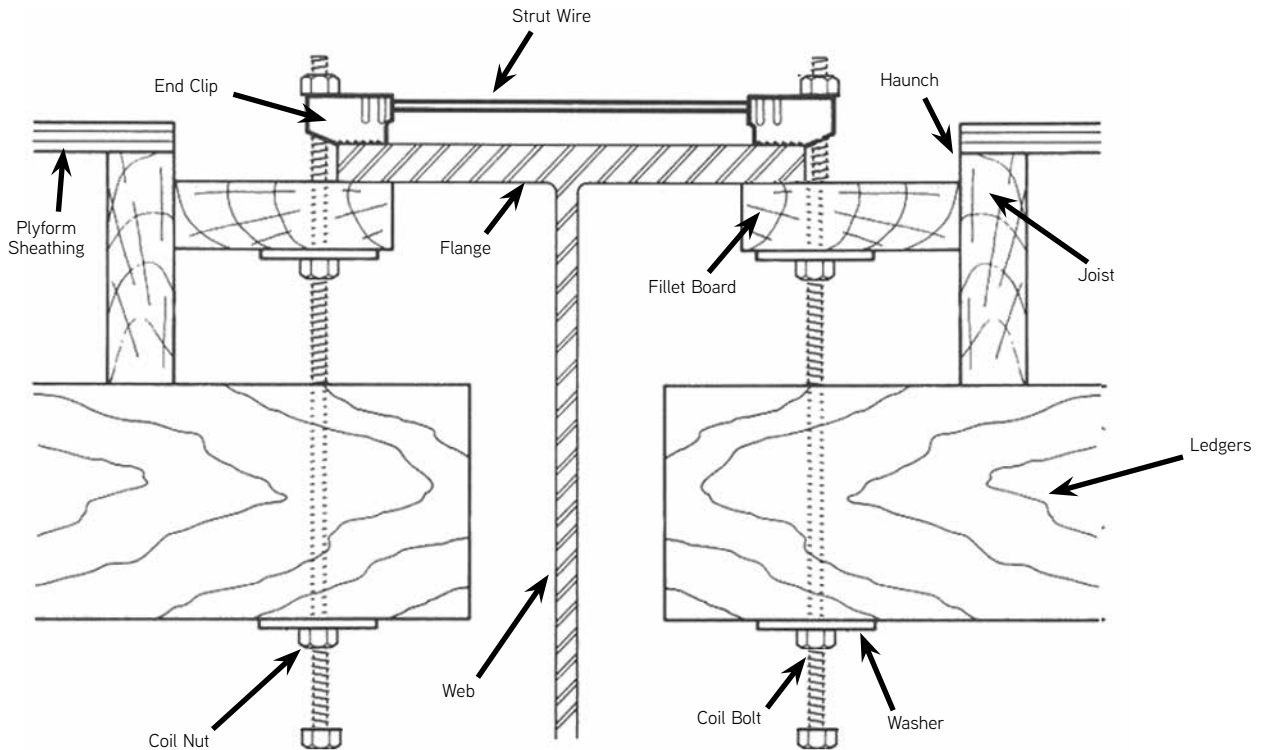
Application

Interior bridge deck hangers are typically fabricated using two heavy duty sheet metal end clips that have been electrically resistance welded to an appropriate sized wire or formed metal connecting strut. In most cases, the end clips used on interior hangers locate two coil bolts, one on each side of the bridge beam, at 90° to the top surface of the beam. These hangers can be used on rolled structural steel beams, fabricated steel or precast/prestressed concrete girders.

On occasion, there is a need for an interior half hanger that may be welded to the top flange of a steel beam, attached to the shear studs on a steel beam or the rebar shear connectors on concrete girders. However, most DOT specifications prohibit any type of field welding to flanges in tension zones, restricting welding to compression zones only. When this restriction is encountered, several types of clip-on hangers are available for use.

Hangers are placed at predetermined locations on top of the interior bay beams and support the formwork, as well as all construction materials and workers during the installation phase of the formwork construction process. Once the formwork has been completed and concrete is placed, the interior hangers support the weight of the freshly placed concrete. After the concrete reaches a specified strength, hangers no longer serve a purpose and the coil bolts and washers can be removed allowing the formwork to be removed.

All interior hangers are identified by the shape of the end section using in the manufacture of the hanger. Unless otherwise noted, all end sections are designed to accept a 1/2" diameter coil bolt or coil rod.



Typical Section View at Interior Beams

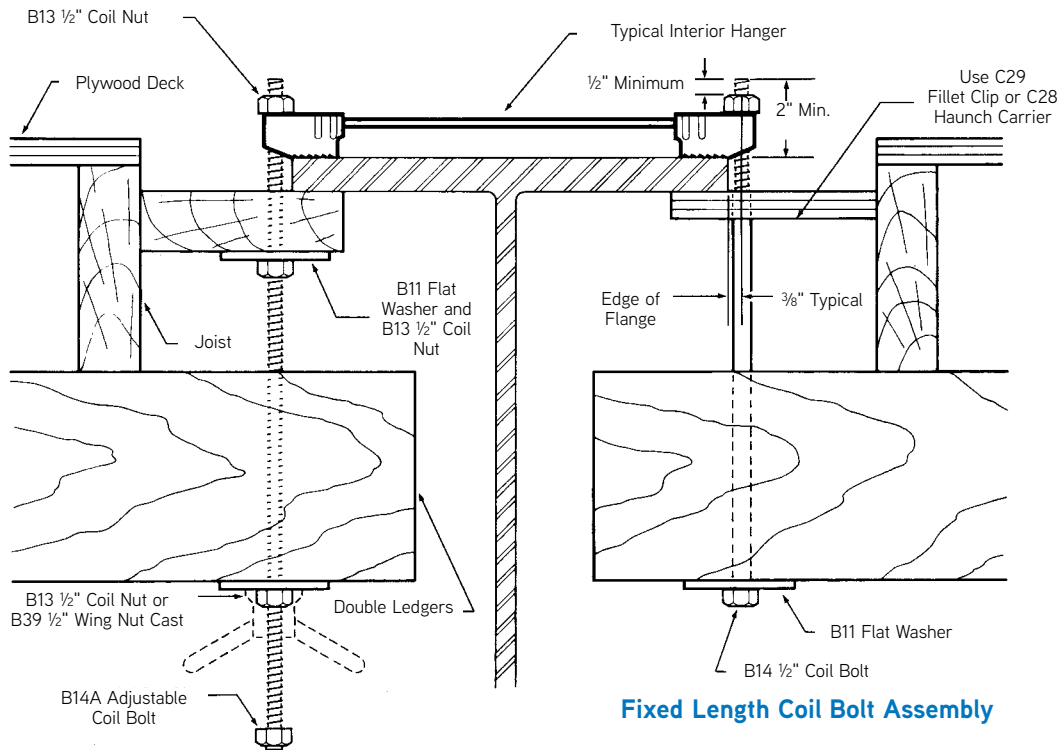
C60 Type 1 Pres-Steel Hanger

When a bridge deck is designed with a fillet that extends a short distance away from the edge of the beam, as shown in the sketch below, this hanger is often selected for use. The hanger is designed to allow 1/8" maximum clearance between the edge of the beam and the supporting 1/2" diameter coil bolts.

To adjust the bridge deck forming to grade, all the user has to do is turn the coil nuts, which will raise or lower the formwork as needed. When adjusting the formwork to grade, care must be taken to ensure that the thread penetration does not become less than 1/2" when measured from the top of the coil nut.

To avoid decreasing the safe working of the hanger, full bearing of the end clips is required. Hangers must be equally loaded on both sides to prevent formwork from tipping.

As the flanges of bridge beams often vary in width, it is essential to check the exact width of the flanges prior to ordering hangers.



Adjustable Coil Bolt Assembly

Fixed Length Coil Bolt Assembly

Safe Working Load 3,500 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

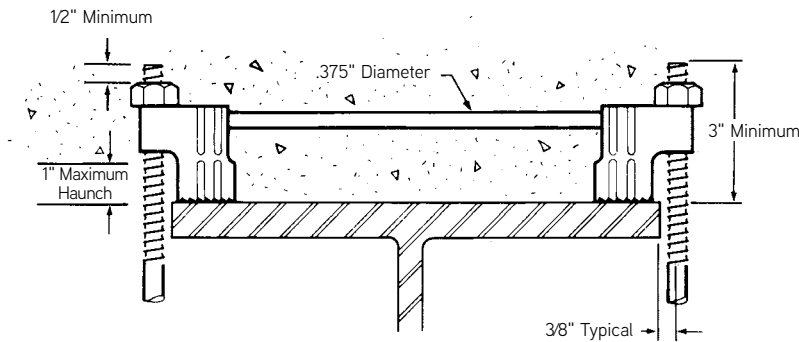
To Order:

Specify: (1) quantity, (2) name, (3) flange width.

Example:

759 pcs. C60 Type 1 Pres-Steel Hanger for 16" Flange.

C60 Type 2 Pres-Steel Hanger



The Type 2 hanger is similar to the Type 1 hanger, except it is designed to be used where the deck has up to a 1" haunch. 1/8" maximum clearance between the edge of the beam and the 1/2" diameter coil bolts. To avoid decreasing the safe working load of the hanger, full bearing of the end clips is required. Hangers must be equally loaded on both sides to prevent formwork from tipping.

Safe Working Load 2,375 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

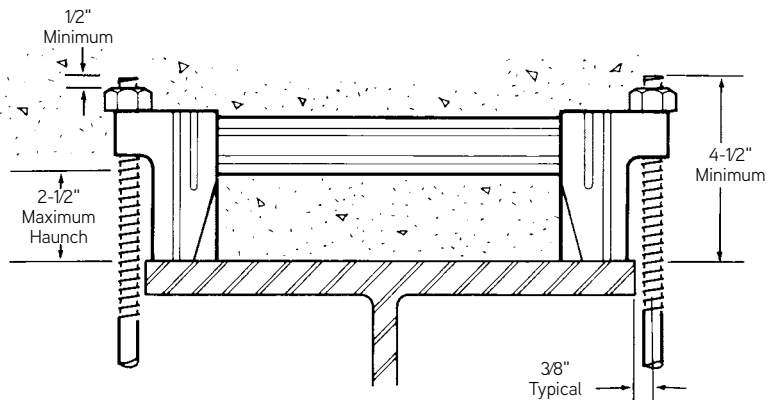
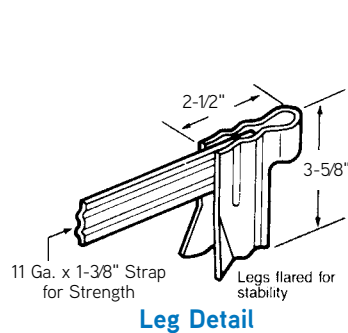
Specify: (1) quantity, (2) name, (3) flange width.

Example:

750 pcs. C60 Type 2 Pres-Steel Hanger for 12" Flange.

C60 Type 3 Pres-Steel Hanger

Designed for a 2-1/2" maximum haunch. Uses a corrugated strap to connect the end clips, which are bent outward to provide stability under load. 1/8" maximum clearance between the edge of the beam and the 1/2" diameter coil bolts.



Safe Working Load 2,500 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

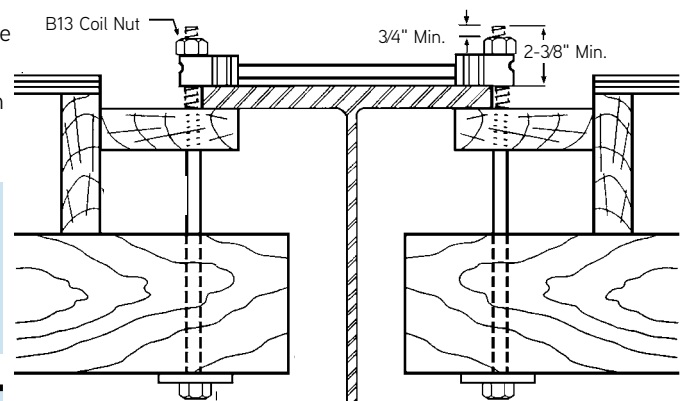
Specify: (1) quantity, (2) name, (3) flange width.

Example:

570 pcs. C60 Type 3 Pres-Steel Hanger for 18" Flange.

Interior Hangers

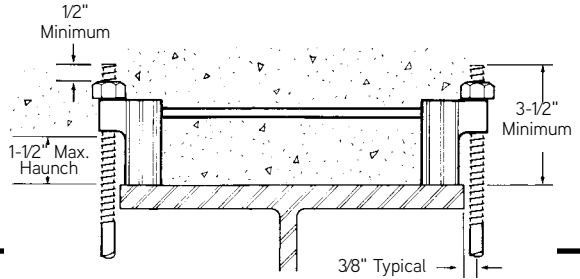
The Interlock portion of the End Clip provides a reaction point that aids in reducing bending of the support bolts when hangers are used



C60 Type 7 Pres-Steel Hanger

The C60 Type 7 Pres-Steel Hanger is similar to the standard Type 1 hanger but has the capacity to accommodate haunch heights up to 1-1/2".

Note: The C60 Type 7 Pres-Steel Hanger is designed to be used with full bearing under the end sections. It is essential to check the exact beam width dimensions before ordering.



C60 Type 8 Pres-Steel Hanger

Safe Working Load 2,375 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

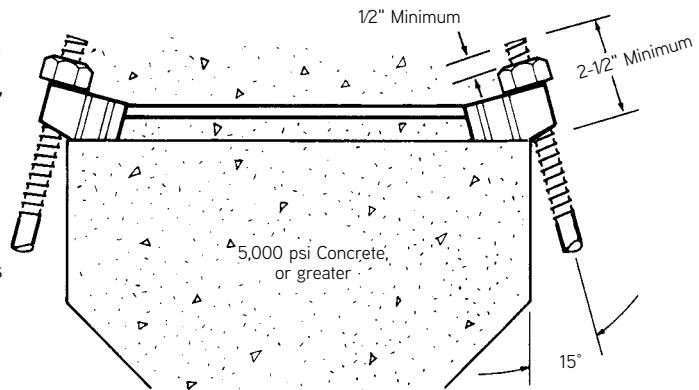
Specify: (1) quantity, (2) name, (3) flange width.

Example:

1,000 pcs. C60 Type 7 Pres-Steel Hanger, for 18" flange.

The Type 8 Press-Steel hanger is similar to the standard Type 1 except the two end clips are designed to angle the 1/2" diameter bolts at 15° from vertical. It is available in two different versions, a standard version or a heavy version. The standard version uses a 0.375" diameter wire to connect the end clips while the heavy version uses a 0.440" diameter wire.

This hanger design offers the bridge contractor an advantage on certain concrete girders, as it allows additional clearance below the formwork to support ledgers. A B42 Batter Washer is recommended for use beneath the ledgers, which will allow for proper bearing of the head of the 1/2" diameter coil bolt.



Safe Working Load

Standard Version = 4,500 lbs. per Side

Heavy Version = 6,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

Specify: (1) quantity, (2) name, (3) flange width.

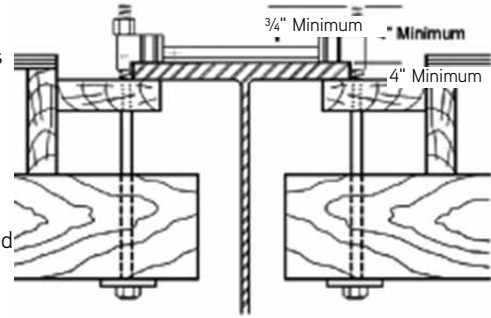
Example:

1,640 pcs. C60 Type 8 Pres-Steel Hanger for 18" flange.

C60 Type 9 Pres-Steel Hanger

The Type 9 Press-Steel hanger is designed especially to support heavy forming loads using 3/4" diameter coil bolts or coil rods. The hanger is fabricated using a 3/4" diameter rod connecting two 90° end clips that have been formed from 3/16" thick material.

In order to achieve the rated safe working load of 11,300 lbs. per side, 3/4" diameter B13H Heavy Coil Nuts that measure 1-1/4" across flats are required. If the hanger is used with standard 3/4" diameter B13 Coil Nuts, the safe working load will be reduced to 8,000 lbs. per side.



Safe Working Load

11,300 lbs. per Side with 3/4" B13-H Coil Nuts
8,000 lbs. per Side with 3/4" B13 Coil Nuts

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

Specify: (1) quantity, (2) name, (3) flange width.

Example:

600 pcs. C60 Type 9 Pres-Steel Hanger for 24" flange.

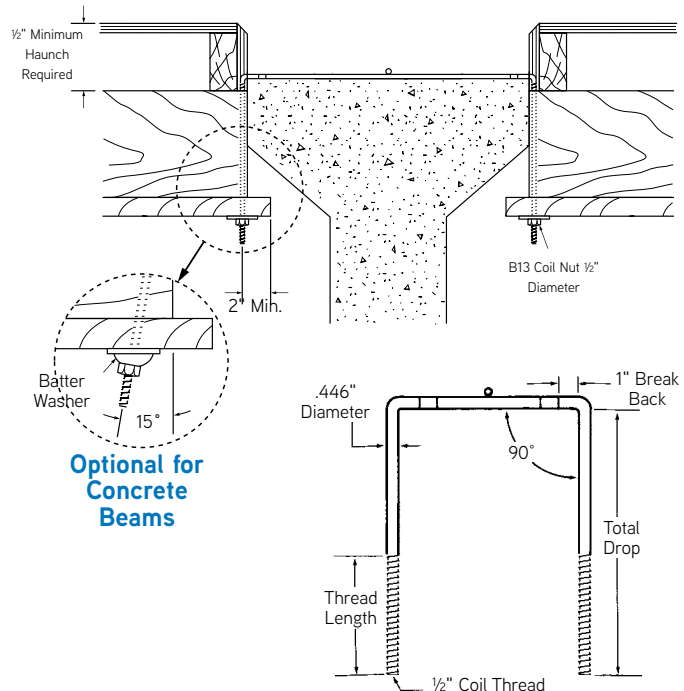
C41 Coil Rod Hanger

This hanger provides a simple, yet strong method of suspending formwork from interior bridge beams. The formwork is adjusted to grade, after the ledgers are installed, by the worker reaching under the ledgers and adjusting the coil nut — raising or lowering the ledgers as required.

Once the formwork has been stripped, a length of pipe is placed over the extended leg and rotated back and forth until it breaks at the provided break back.

Hangers are fabricated 1/2" wider than the flange width specified. A 1" break back is standard.

When used on steel beams or girders, legs formed at 90° to the top flange are recommended. For concrete girders or box beams, legs formed at 15° to vertical are suggested.



Safe Working Load

4,500 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

To Order:

Specify: (1) quantity, (2) name, (3) flange width, (4) total drop, (5) length of thread, (6) bend angle

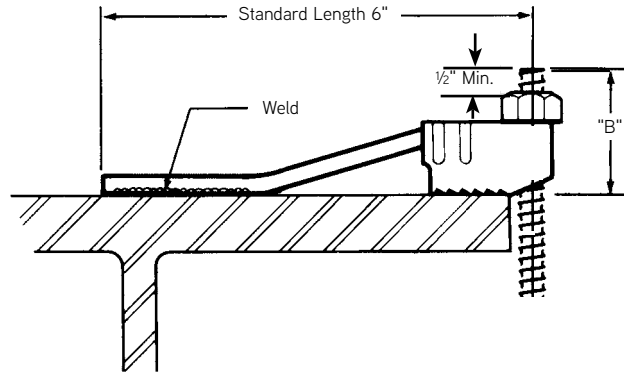
Example:

900 pcs. C41 Coil Rod Hanger, 12" flange, 18" total drop, 8" of thread and a 15 degree angle.

C24 Type S Pres-Steel Steel Beam Half Hangers

C24 Type S Pres-Steel Steel Beam Half Hangers are produced using a single 1/2" end clip welded to a formed wire strut and are used where conditions prevent the use of regular interior hangers. All of the C24 Interior Half Hangers utilize a 90° end clip except for the Type 8-S Half Hanger which use a 15° end clip.

Type S Half Hangers are designed for use on steel beams. The standard Type S Half Hanger uses a wire strut that measure 6" from the centerline of the bolt to the end of the strut.



Typical Steel Beam Application

C24 Type C Pres-Steel Concrete Beam Half Hangers

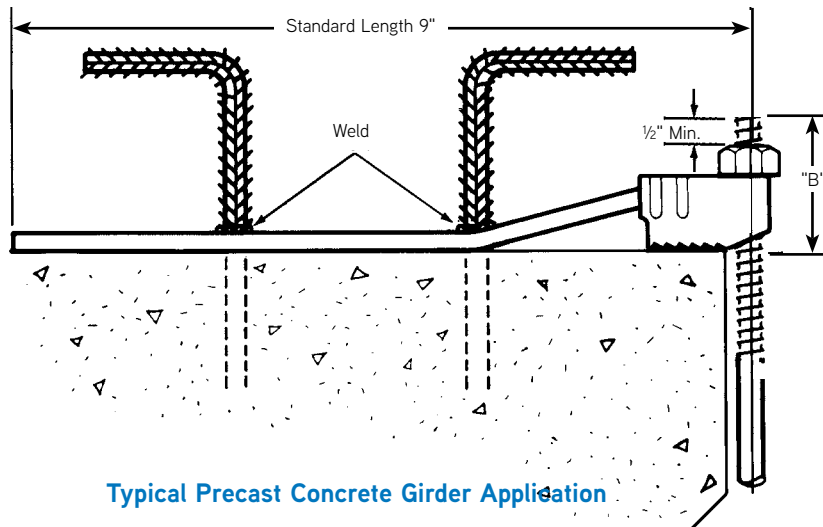
The Type C Pres-Steel Half Hanger used on concrete beams are the same as the above Half Hangers with the exception that the standard wire strut is 9" long.

These concrete beam half hangers are designed to be welded to the rebar shear connectors that extend from the top surface of a precast concrete girder.

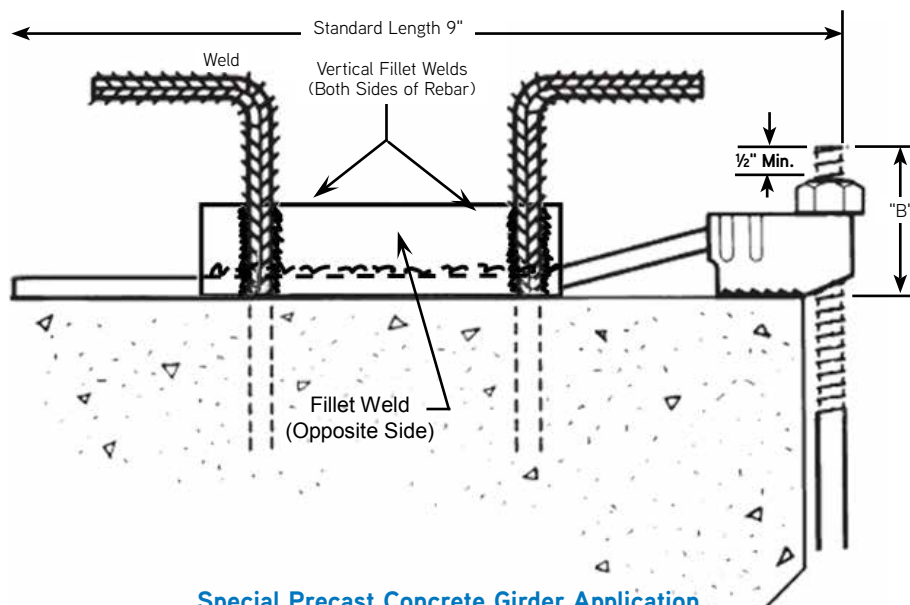
More weld and hanger capacity can be achieved by welding a suitably sized steel plate to the rebar shear connectors, using four vertical fillet welds, to weld the plate to the shear connectors. Then weld the strut wire to the steel plate. May be applied to steel beams by welding to the shear connector studs.

This application is shown in the Special Precast Concrete Girder Application to the right.

Please see the General and Technical Section of this handbook for additional information on field welding of half hangers.







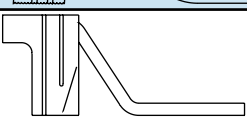
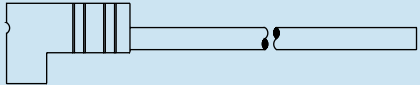
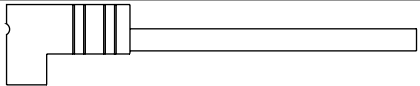
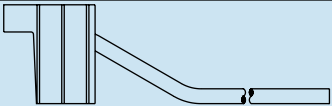
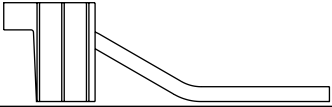


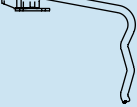
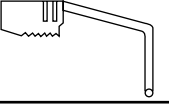
Typical Precast Concrete Girder Application



Special Precast Concrete Girder Application

C24 Pres-Steel Half Hangers

Proper welding procedures must be used when welding half hangers, as field welding may limit the safe working load of a hanger to less than the maximum SWL listed. Field tests should be conducted to establish the actual safe working load of the hanger.

Designation	Sketch	Strut Configuration	Standard Length	Haunch	SWL	B Dimension
1-C		Jogged	9"	—	3,000	2"
1-S		Jogged	6"	—	3,000	2"
2-C		Jogged	9"	1"	2,375	3"
2-S		Jogged	6"	1"	2,375	3"
3-S		Jogged	6"	2 1/2"	2,000	4 1/2"
4-C		Straight	9"	—	6,000	2"
4-S		Straight	6"	—	6,000	2"
7-C		Jogged	9"	1 1/2"	2,375	3 1/2"
7-S		Jogged	6"	1 1/2"	2,375	3 1/2"
8-C		Jogged	9"	—	3,000	2 1/2"
8-S		Jogged	6"	—	3,000	2 1/2"
1-PR		Shaped	—	—	Standard 3,000	2 1/2"
4-PR		Shaped	—	—	Heavy 6,000	2 1/2"

Notes: Safe working load provides a factor of safety of approximately 2 to 1.

Coil bolt or coil rod must penetrate through the coil nut a minimum of 1/2".

"B" dimension is distance from top of girder to top of coil rod (see previous page for diagram).

When used on concrete beams, the safe working load shown is based on a minimum concrete flange thickness of 5" and the normal weight concrete having reached a minimum compressive strength of 5,000 psi.

For hangers used on concrete beams with conditions not meeting above requirements please contact Dayton Superior Technical Assistance.

Longer length strut wire is available on request.

To Order:

Specify: (1) quantity, (2) name, (3) strut length.

Example:

57 pcs. C24 Type 8-C Pres-Steel Half Hanger with 12" long strut.

C24 Precast Half Hangers

Precast half hangers were developed for use in wide precast concrete girders. They are currently used in all types of precast concrete bridge girders and beams.

Half hangers are installed by the precaster during the girder production process at predetermined centers provided by the bridge contractor.

Care must be exercised by the precaster to install these hangers so there will be a 1/8" clearance between the edge of the beam and the 1/2" coil bolt.

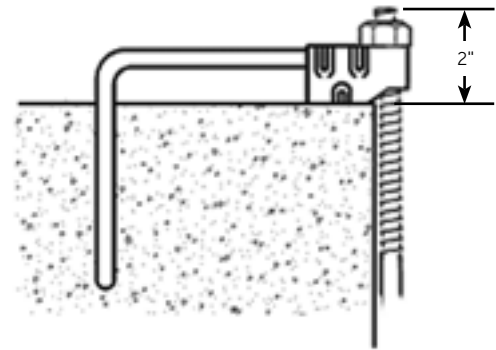
The half hangers must be positioned so the end clip will bear on the top surface of the beam. Failure to properly install these half hangers can result in a reduction in the hangers safe working load.

Type 1-PR and Type 4-PR are used when a fillet is required next to the beam.-

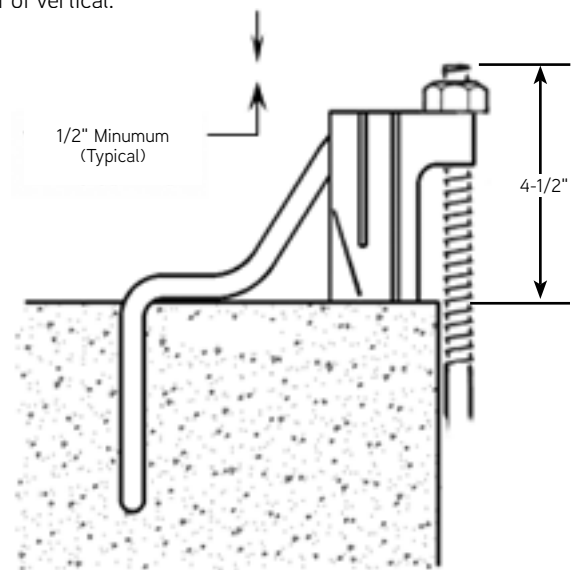
The Type 3-PR Half hanger is used with a maximum of 2-1/2" haunch.

When additional clearance is required beneath the ledgers for the supporting hardware, the Type 8-PR Half hanger will support the coil rod at a 15° angle off of vertical.

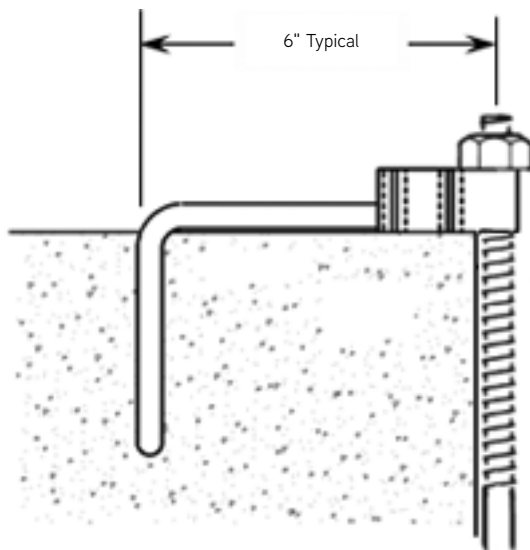
SWL provides approximately a 2 to 1 factor of safety when hangers are installed in a beam having a concrete flange thickness of 5" and the normal weight concrete having achieved a minimum compressive strength of 5,000 psi.



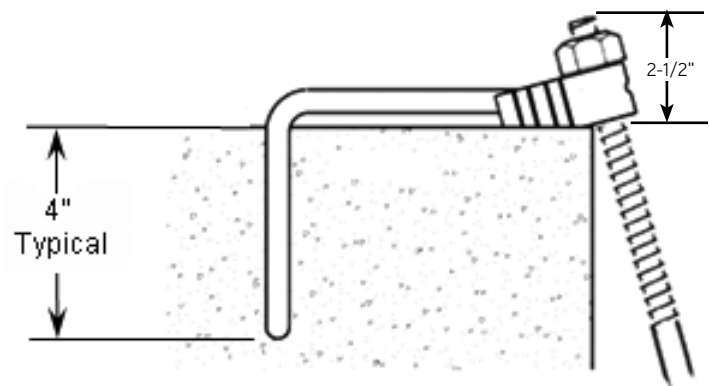
C24 Type 1-PR Precast Half Hanger
3,000 lbs. SWL



C24 Type 3-PR Precast Half Hanger
2,000 lbs. SWL



C24 Type 4-PR Precast Half Hanger
6,000 lbs. SWL



C24 Type 8-PR Precast Half Hanger
6,000 lbs. SWL

C25 Pres-Steel Adjustable Half Hanger

The C25 Pres-Steel Adjustable Half Hanger is available in three types:

Type 1 Hanger – 90° end clip

Type 2 Hanger – 90° end clip with 1" haunch

Type 7 Hanger – 90° end clip with 1-1/2" haunch

Type 8 Hanger – 15° end clip

Each half hanger consists of a 1/2" end clip welded to a length of 1/2" diameter Coil Rod, Stirrup Clips and 1/2" Coil Nuts.

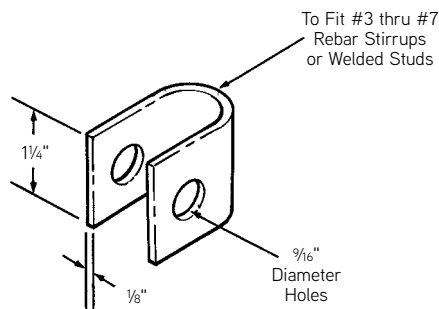
These half hangers are used to support interior deck formwork when one-sided forming is required and welding to the shear connectors or flange is not permitted by the DOT.

Stirrup Clips are available in #3, #4, #5, #6 and #7 rebar sizes or 3/8", 1/2", 5/8", 3/4" and 7/8" stud diameters as required.

C25 Selection Chart

Type	Safe Working Load		Maximum Haunch	Minimum Length
	One Clip	Two Clips		
1	3,000 lbs.	3,000 lbs.	0"	8"
2	2,000 lbs.	2,375 lbs.	1"	8"
7	2,000 lbs.	2,375 lbs.	1-1/2"	8"
8	2,000 lbs.	3,000 lbs.	0"	8"

SWL provides a safety factor of approximately 2 to 1



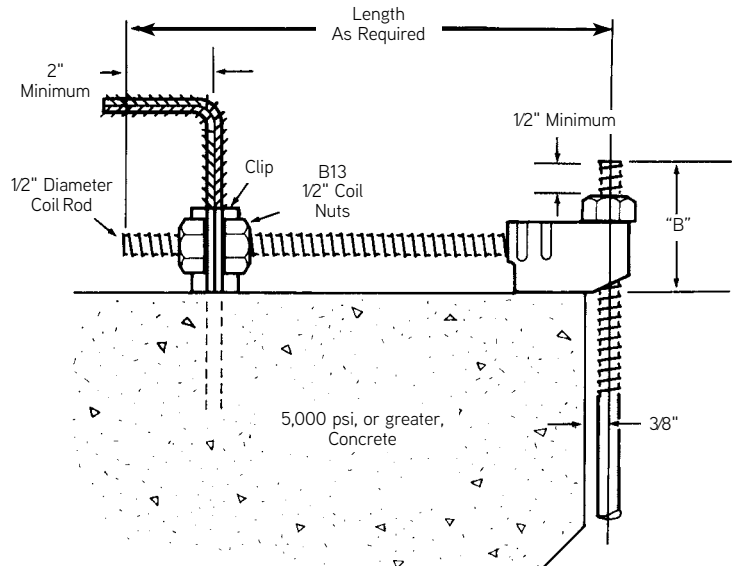
Stirrup Clip Detail

To Order:

Specify: (1) quantity, (2) name, (3) type, (4) Length, (5) number of clips and (6) clip size.

Example:

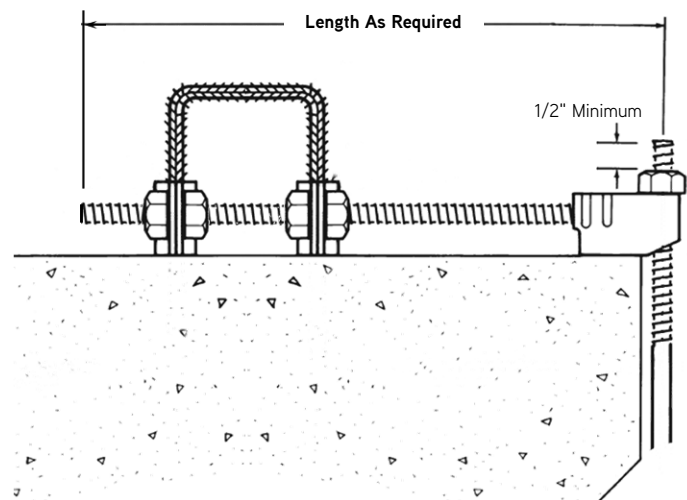
125 pcs. C25 Type 2 Pres-Steel Adjustable Half Hanger, 12" long with 2 clips for #6 Rebar.



Type 1 Hanger with One Clip

SAFETY NOTE:

In order to develop the safe working loads listed, two Coil Nuts must compress each Stirrup Clip securely to the rebar stirrup or shear stud. Failure to accomplish a secure connection will greatly reduce the safe working load of the hanger.



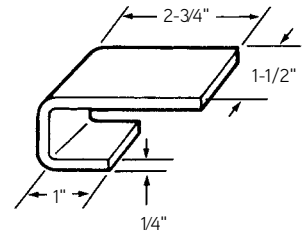
Type 1 Hanger with Two Clips

C63 Pres-Steel Hook Half Hanger

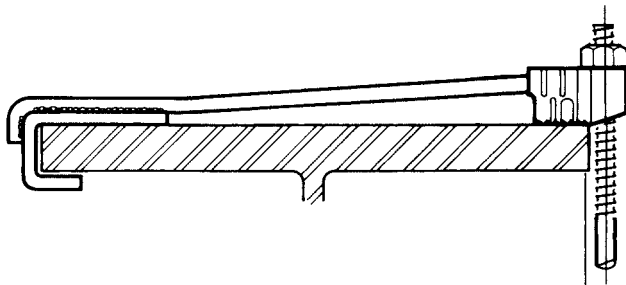
Several types of hook half hangers are available for use with metal or prestressed concrete stay-in-place interior deck forms. The beam hook is designed to slip over the edge of a steel beam having a minimum flange thickness of 1/2".

These half hangers are manufactured using a 90° end clip that accepts a 1/2" diameter coil bolt. The end clip is electrically resistance welded to a wire strut which is formed and welded to a steel beam hook, providing 180° reinforcement to the hook for increased safety.

SWL's provides approximately a 2 to 1 factor of safety.

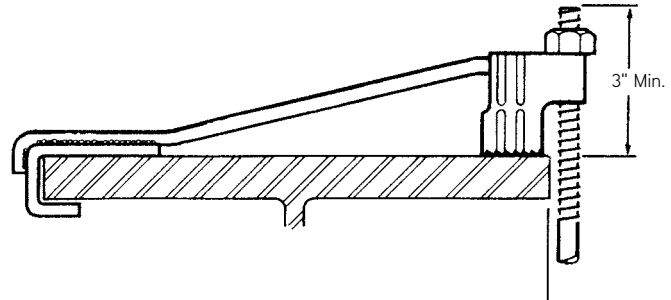


Beam Hook Detail



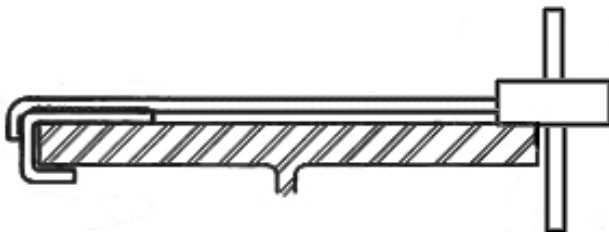
C63 Type 1-B Hanger
3,500 lbs. safe working load.

Designed to form a bridge deck having a fillet next to the beam.



C63 Type 2-B Hanger
2,375 lbs. safe working load.

Designed To accommodate haunch heights of up to 1".



C63 Type 4-B Hanger
5,000 lbs. safe working load.

Heavy duty half hanger designed for use to form a bridge deck having a fillet next to the beam.

To Order:

Specify: (1) quantity, (2) name, (3) type, (4) flange width, (5) flange thickness.

Example:

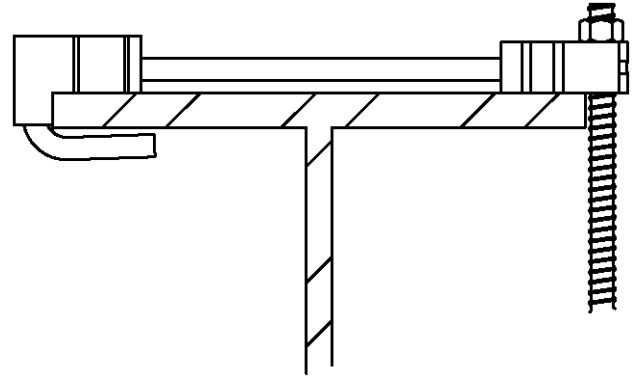
175 pcs. C63 Type 2 Pres-Steel Hook Half Hanger, for 18" flange width x 1-1/4" thick.

C68 90° Type 4-B Ty-Down Half Hanger

This is an excellent hanger for applications requiring a heavy duty interior half hanger. Normally supplied hot dipped galvanized after fabrication as a portion of the hanger will normally not be encased in the concrete deck leaving the exposed portion to rapidly corrode if not protected with a heavy zinc coating.

This hanger is rated with a safe working load of 6,000 lbs. and is designed to work with 1/2" diameter coil bolt.

SWL provides approximately a 2 to 1 factor of safety.



To Order:

Specify: (1) quantity, (2) name, (3) type, (4) Length, (5) flange thickness and (6) finish.

Example:

175 pcs. C68 Type 4 Ty-Down Half Hanger, for 14" flange width x 1-1/8" thick, HDG.

C65 Adjustable Joist Hanger

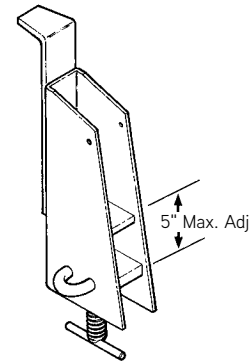
As wales are not required when using this system, an immediate savings in lumber cost is realized.

Available in two sizes, for 2x or 4x joist lumber. Both models are fully adjustable and are adaptable to concrete girders, box culverts and steel beams/girders. The A65 Adjustable Joist Hangers are 100% reusable and are rated at 3,000 lbs. safe working load with an approximate 2 to 1 factor of safety.

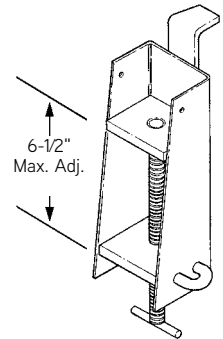
No welding or additional working parts are required. Hanger are installed by simply placing the support angle on top of the beam flange and inserting the joist. Turn the adjusting handle to raise or lower the formwork to its proper elevation.

Stripping of the formwork is equally easy. Removal of the Release Pin allows Jack-Screw Assembly to be taken out, allowing the joist to be stripped.

Concrete should be placed at mid span and be evenly distributed outward towards the joist hanger C65S Cover Shields are available for ease of hanger removal.

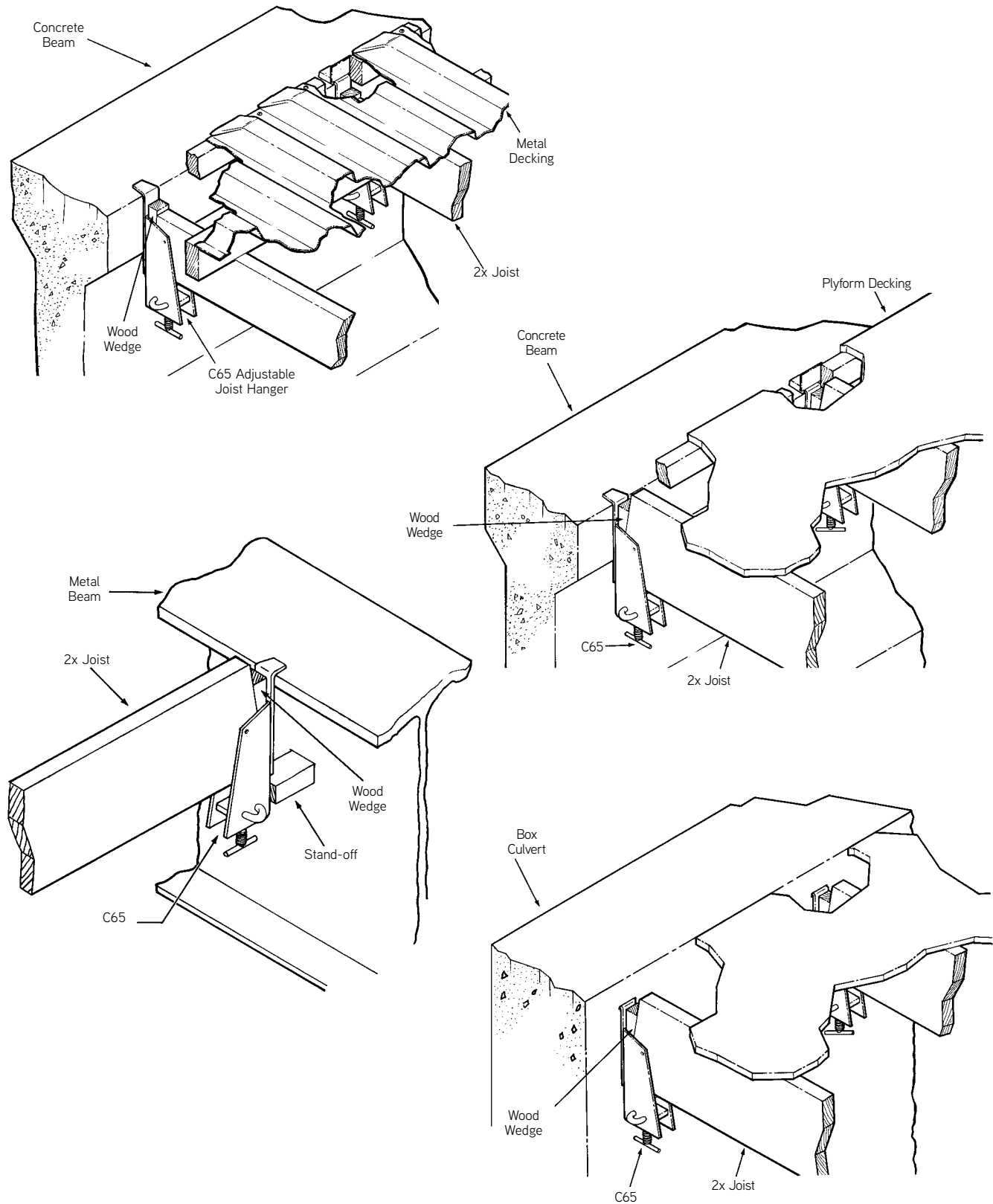


C65 for 2x Material



C65 for 4x Material

C65 Adjustable Joist Hanger Typical Applications

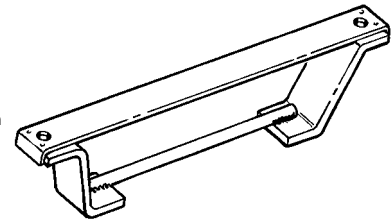
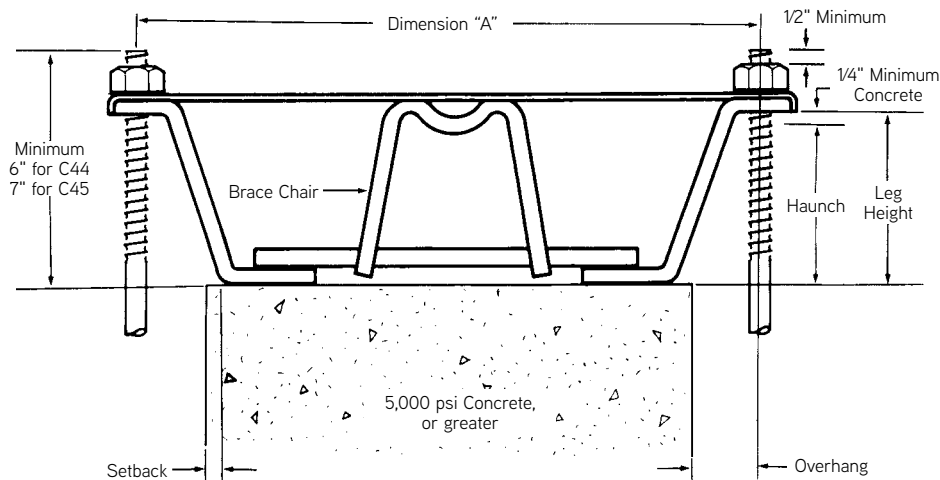


C65 Adjustable Joist Hanger Spacing Chart

This chart is used to determine the allowable spacing for the C65 hanger when the maximum clear span and concrete thickness is known. Design load is based on 160 pounds per cubic foot concrete and 50 pounds per square foot live load. This chart is based on the use of Southern Pine, Grade #2 or equivalent strength lumber joists.

Concrete Thickness	Design Load	Joist Lumber	Clear Span					
			5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"
			Joist Spacings Based on 3/4" Plyform					
5"	116.7 psf	2x6	23"	21"	13"	8"	5"	3"
		2x8	23"	23"	23"	18"	12"	8"
		2x10	23"	23"	23"	23"	21"	16"
		2x12	23"	23"	23"	23"	23"	23"
6"	130.0 psf	2x6	22"	18"	12"	7"	5"	3"
		2x8	22"	22"	22"	17"	10"	7"
		2x10	22"	22"	22"	22"	19"	14"
		2x12	22"	22"	23"	22"	22"	21"
8"	156.7 psf	2x6	21"	15"	10"	6"	4"	2"
		2x8	21"	21"	18"	14"	9"	6"
		2x10	21"	21"	21"	21"	16"	12"
		2x12	21"	21"	21"	21"	21"	18"
10"	183.3 psf	2x6	19"	13"	8"	5"	3"	100"
		2x8	20"	20"	15"	12"	7"	95"
		2x10	20"	20"	20"	17"	13"	10"
		2x12	20"	20"	20"	20"	21"	18"
12"	210.0 psf	2x6	17"	11"	7"	5"	3"	2"
		2x8	19"	18"	13"	10"	6"	4"
		2x10	19"	19"	19"	15"	12"	9"
		2x12	19"	19"	19"	21"	16"	13"
5"	116.7 psf	4x6	23"	23"	23"	19"	12"	8"
		4x8	23"	23"	23"	23"	23"	18"
		4x10	23"	23"	23"	23"	23"	23"
		4x12	23"	23"	23"	23"	23"	23"
6"	130.0 psf	4x6	22"	22"	22"	17"	11"	7"
		4x8	22"	22"	22"	22"	22"	16"
		4x10	22"	22"	22"	22"	22"	22"
		4x12	22"	22"	22"	22"	22"	22"
8"	156.7 psf	4x6	21"	21"	21"	14"	9"	6"
		4x8	21"	21"	21"	21"	20"	13"
		4x10	21"	21"	21"	21"	21"	21"
		4x12	21"	21"	21"	21"	21"	21"
10"	183.3 psf	4x6	20"	20"	19"	12"	8"	5"
		4x8	20"	20"	20"	20"	17"	11"
		4x10	20"	20"	20"	20"	20"	20"
		4x12	20"	20"	20"	20"	20"	20"
12"	210.0 psf	4x6	19"	19"	17"	11"	7"	4"
		4x8	19"	19"	19"	19"	15"	10"
		4x10	19"	19"	19"	19"	19"	19"
		4x12	19"	19"	19"	19"	19"	19"

C44 and C45 Con-Beam Hanger



Typical Con-Beam Hanger

C44 and C45 Con-Beam Hanger

Type	Overhang	Setback	Haunch	Leg Height
C44	3/8"	1-1/4"	4"	4-1/4"
C44	5/8"	1"	3-1/4"	4-1/4"
C44	7/8"	3/4"	2-1/8"	4-1/4"
C44	1-1/8"	1/2"	1"	4-1/4"
C44	1-3/8"	1/4"	0"	4-1/4"
C45	3/8"	1-1/2"	5"	5-1/4"
C45	5/8"	1-1/4"	4-1/8"	5-1/4"
C45	7/8"	1"	3-1/8"	5-1/4"
C45	1-1/8"	3/4"	2"	5-1/4"
C45	1-3/8"	1/2"	1"	5-1/4"
C45	1-5/8"	1/4"	0"	5-1/4"

Note: Dimension "A" is equal to 2 times the overhang plus flange width.

The C44 and C45 Con-Beam Hanger is designed to provide coverage of various haunch heights up to 5" and numerous overhang conditions. The top plate of the hanger is fabricated from steel strap and is reinforced with a brace chair on wider hangers. C44 and C45 hangers are designed for use with 1/2" Coil Bolts or Coil Rods only.

Con-Beam Hangers are designed for supporting interior formwork only. Do not use for suspending overhang form loads.

Safe Working Load 3,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

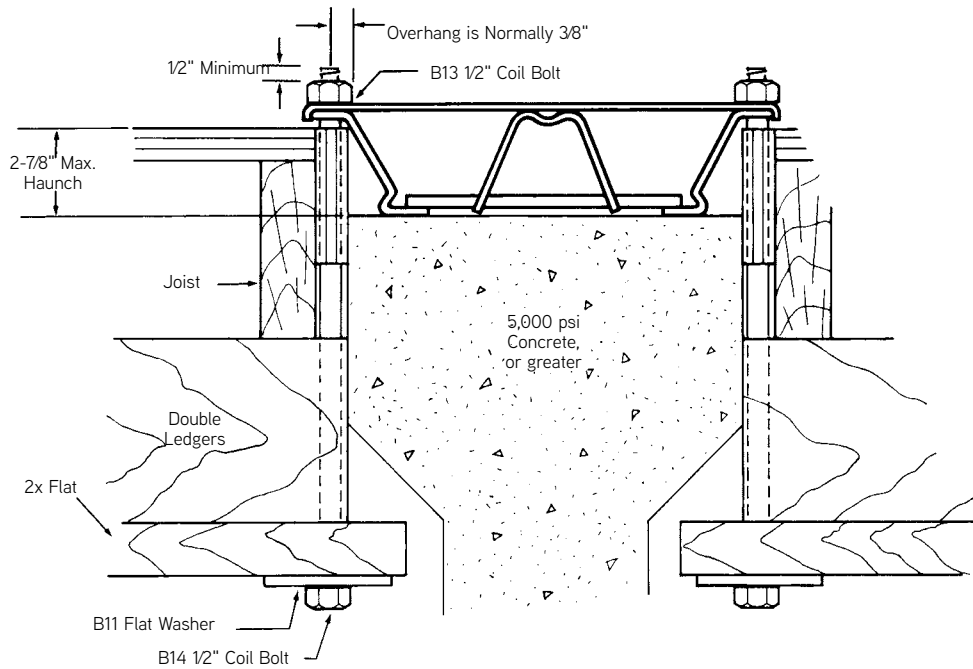
To Order:

Specify: (1) quantity, (2) name, (3) dimension "A", (4) flange width.

Example:

750 pcs. C44 Con-Beam Hanger, 15-3/4" A dimension for 15" flange.

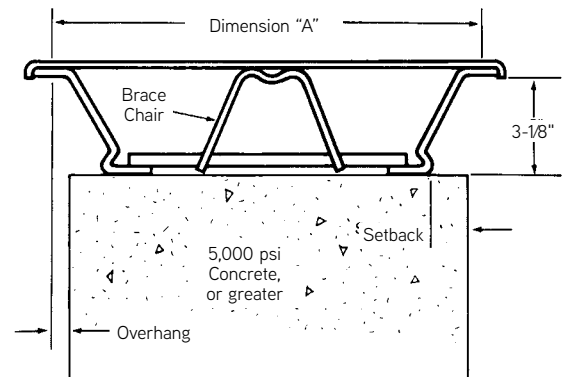
C46 Con-Beam Hanger



C46 Con-Beam Hanger

Haunch	Overhang	Setback
2-7/8"	3/8"	1"
2-1/2"	5/8"	3/4"
2"	7/8"	1/2"
1-5/8"	1"	3/8"

Note: Dimension "A" is equal to 2 times the overhang plus flange width.



The C46 Con-Beam Hanger is designed to provide coverage of various haunch heights up to 2-7/8" and numerous overhang conditions. The top plate of the hanger is fabricated from steel strap and is reinforced with a brace chair on wider hangers. C46 hangers are designed for use with 1/2" Coil Bolts or Coil Rods only.

Con-Beam Hangers are designed for supporting interior formwork only. Do not use for suspending overhang form loads.

Safe Working Load 3,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

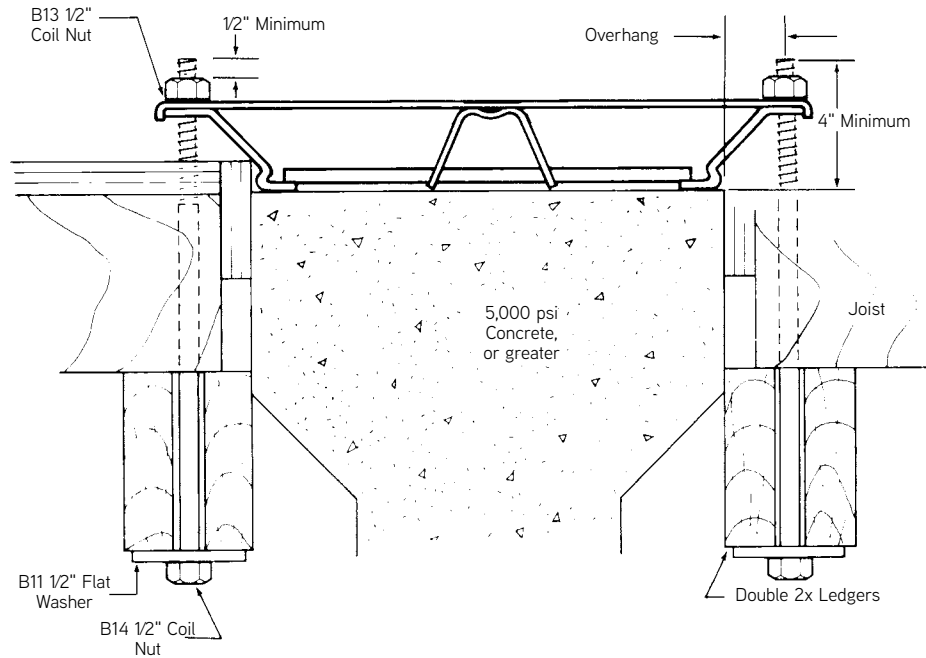
To Order:

Specify: (1) quantity, (2) name, (3) dimension "A", (4) flange width.

Example:

750 pcs. C46 Con-Beam Hanger, 22" A dimension for 20" flange.

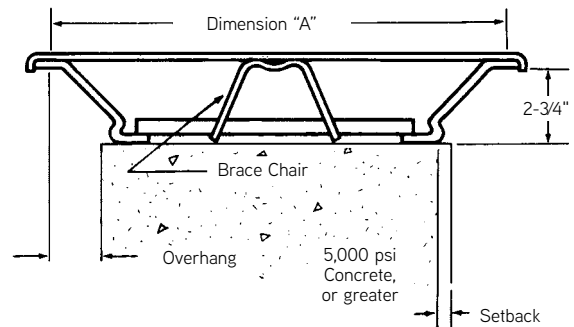
C47 Con-Beam Hanger



C46 Con-Beam Hanger

Haunch	Overhang	Setback
2-1/2"	3/8"	1-5/8"
2-1/4"	1/2"	1-1/2"
2"	3/4"	1-1/4"
1-3/4"	1"	1"
1-1/2"	1-1/4"	3/4"
1-1/4"	1-1/2"	1/2"
1-1/8"	1-3/4"	1/4"

Note: Dimension "A" is equal to 2 times the overhang plus flange width.



The C47 Con-Beam Hanger is designed to provide coverage of various haunch heights up to 2 1/2" and overhang conditions up to 1-3/4" away from the beam side. The top plate of the hanger is fabricated from steel strap and is reinforced with a brace chair on wider hangers. C47 hangers are designed for use with 1/2" Coil Bolts or Coil Rods only.

Con-Beam Hangers are designed for supporting interior formwork only. Do not use for suspending overhang form loads.

Safe Working Load 2,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

WARNING: Hangers must be equally loaded on both sides.

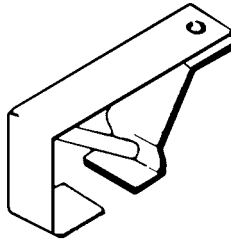
To Order:

Specify: (1) quantity, (2) name, (3) dimension "A", (4) flange width.

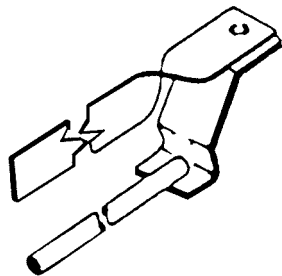
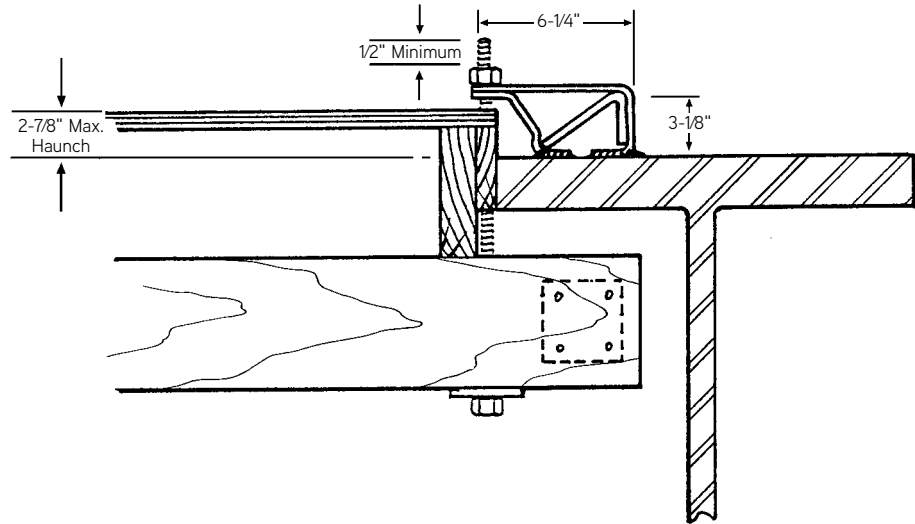
Example:

750 pcs. C47 Con-Beam Hanger, 15 1/2" A dimension for 12" flange.

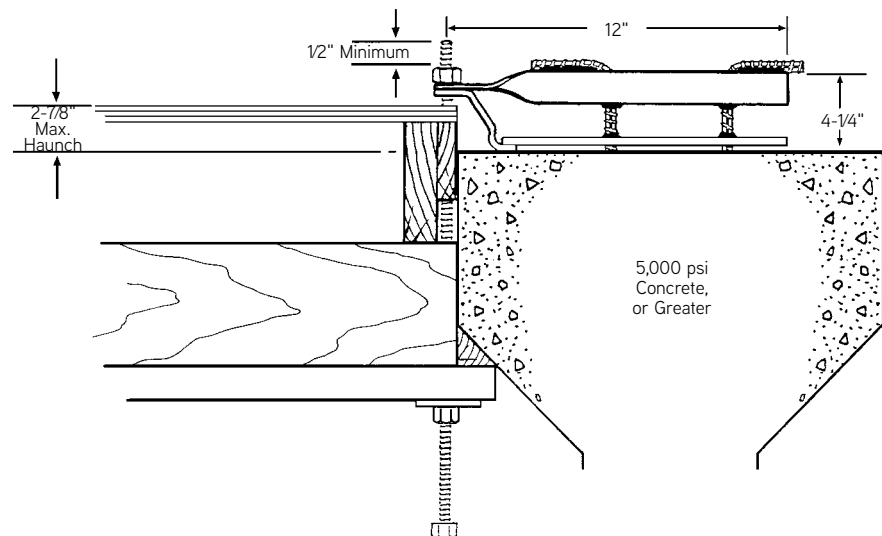
C46H and C46TH Con-Beam Half Hangers



C46H
Con-Beam Half
Hanger



C46TH
Con-Beam Half
Hanger



The C46H and C46TH Half Hangers are designed to be used where conditions prevent the use of standard Con-Beam Hangers. The C46H hanger is designed so it can be welded to the top surface of a structural steel bridge beam. It is 6-1/4" from centerline of the bolt hole to the end of the hanger and has an overall height of 3-1/2".

The C46TH hanger comes in a standard length of 12" and has an overall height of 4-1/4". The hanger is designed to be welded to the stirrups of a precast concrete bridge beam.

Caution: Care must be exercised when welding hangers. Field welding may alter the strength of the wire strut and may limit the hanger to a much lower safe working load than that shown in the chart. Field tests should be conducted to verify actual safe working loads. See related note on welding in the General and Technical Information Section.

Safe Working Load 3,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

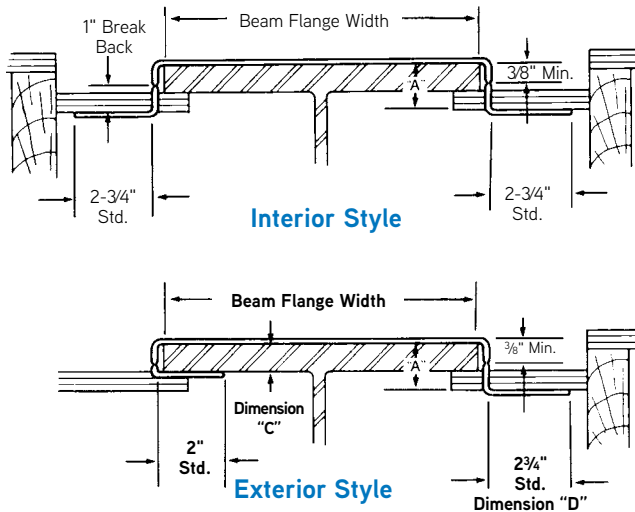
To Order:

Specify: (1) quantity, (2) name.

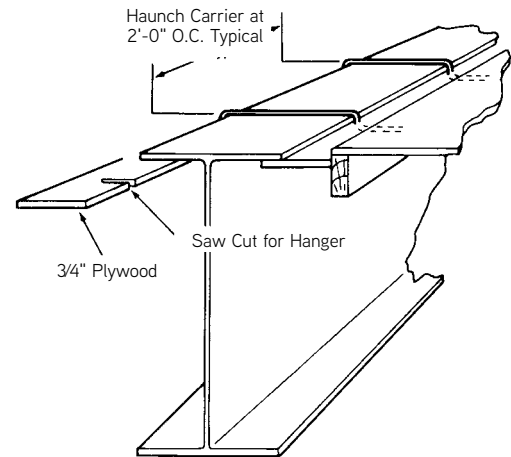
Example:

750 pcs. C46H Con-Beam Half Hanger.

C28 Haunch Carrier



"A" = Flange Thickness + Plywood Thickness Less 1/8" for Tightness (1-1/8" = Minimum "A")



The C28 Haunch Carrier is used to support haunch or filler strips to simplify framing, erection and stripping. The C28 Haunch Carrier is available for interior and exterior forming configurations and is equipped with a standard 1" breakback capability similar to Snap Ties.

Do not weld haunch carrier to beam. Do not stand on trim strips supported only by the Haunch Carrier.

Safe Working Load 3,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.

To Order:

Specify: (1) quantity, (2) name, (3) types, (4) beam width, (5) "A" and "C" (Exterior only) dimensions, (6) break back.

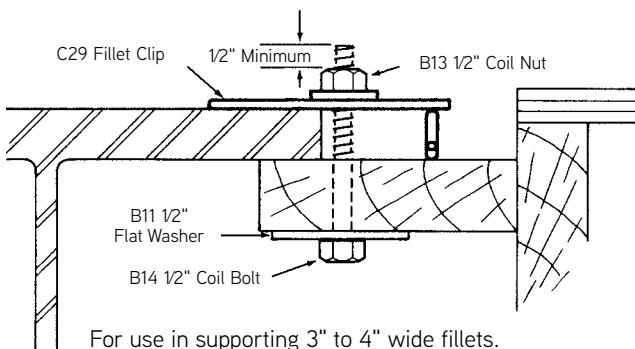
Example:

500 pcs. C28 Haunch Carrier, Exterior Type, 12" beam width, "A" = 1-3/8" "C" = 3/4", Break Back 1".

C29 Fillet Clip

The C29 Fillet Clip is used to support haunch or filler strips by bolting through the form with a 1/2" Coil Bolt (not included). The C29 clip is available for flange thickness of 3/4" or greater and can be special ordered with plastic protected legs, if required.

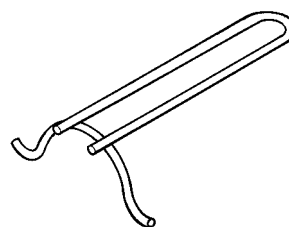
Do not stand on trim strips supported only by the fillet clips.



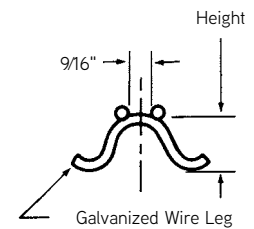
For use in supporting 3" to 4" wide fillets.

Safe Working Load 3,000 lbs. per Side

SWL provides a factor of safety of approximately 2 to 1.



C29 Fillet Clip



Fillet Clip Detail

To Order:

Specify: (1) quantity, (2) name.

Example:

200 pcs. C29 Fillet Clips.

