Swift Lift System

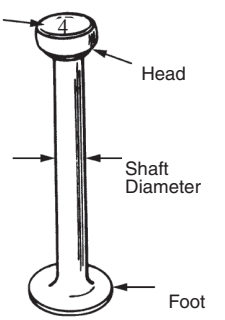
P-52 Swift Lift Anchor

The P-52 Swift Lift Anchor is hot forged from carbon steel. The formed head provides spherical seating that the Lifting Eye engages, while a disc-shaped foot is embedded in the concrete.

Due to its being a forged part, the Swift Lift Anchor does not depend on welds or thread engagement to develop its safe working load. Forging provides maximum safety with its advantageous material structure. This allows the anchor to easily meet the OSHA requirement of a 4 to 1 factor of safety.

In addition to the carbon steel anchors, Type 304 or 316 Stainless Steel Swift Lift Anchors are available on special order. Use stainless steel anchors when maximum protection against corrosion is required.

For safety, refer to the P-52 Swift Lift Anchor Selection Chart on page 31 to determine the actual safe working load of an individual anchor. The MAXIMUM safe working load is clearly visible on the head of the anchor for easy recognition of the appropriate hardware and accessories for-use with each Swift Lift Anchor.

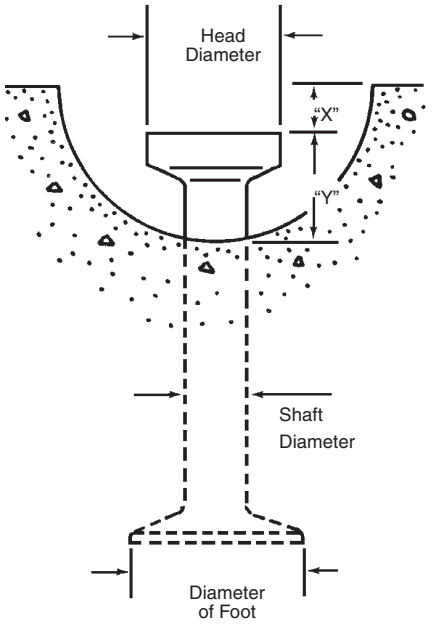


Caution: The Swift Lift Anchor is designed to be used with Dayton Superior components. Failure to use this combination may result in concrete spalling or premature failure.

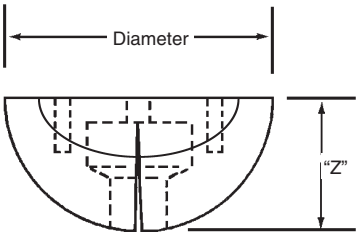
To Order:
Specify: (1) quantity, (2) name, (3) system size, (4) length

Example:
200, P-52 Swift Lift Anchors, 4 ton, 9-1/2" long

P-52 Swift Lift Anchor and Recess Plug Dimensions



P-52 Swift Lift Anchor



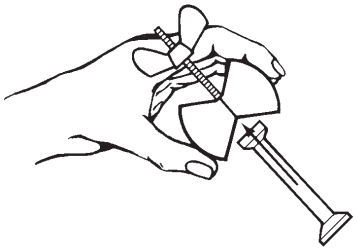
Swift Lift Round Recess Plug

Swift Lift Round Recess Plug Dimensions		
Swift Lift Anchor	Diameter of Recess Plug	Dimension "Z"
1	2-7/16"	1-3/16"
2	3-5/16"	1-7/16"
4	4"	1-13/16"
8	5"	2-5/16"
20 Tons	6-3/8"	3-1/8"

Note: The diameter of the narrow recess plug is the same as the diameter of the round recess plug.

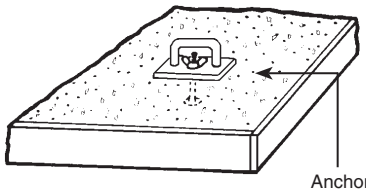
P-52 Swift Lift Anchor Dimensions					
Swift Lift Anchor	**Dimension "X"**	**Dimension "Y"**	**Shaft Diameter**	**Foot Diameter**	**Head Diameter**
1	5/16"	7/8"	3/8"	1"	11/16"
2	7/16"	1-1/16"	9/16"	1-3/8"	1-1/32"
4	9/16"	1-5/16"	3/4"	1-7/8"	1-11/32"
8	9/16"	1-5/8"	1-3/32"	2-5/8"	1-7/8"
20 Tons	9/16"	2-5/8"	1-1/2"	3-3/4"	2-3/4"

How to Install P-56 and P-56-PL Recess Plugs on P-52 Anchors



Grasp the recess plug firmly across the top diameter of the plug. Application of pressure by the thumb and fingers on the outer edge of the plug will cause the plug to open up to allow insertion of the anchor.

"Wet Setting" P-52 Swift Lift Face Lift Anchors



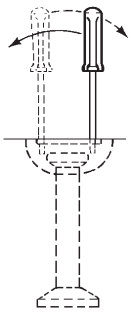
Anchor assembly attached to template board

When a Swift Lift anchor is to be positioned in the top surface of a flat precast section, wet setting the anchor is best done immediately after the concrete has been placed.

The anchor/recess plug assembly is attached to a small template board and pressed into the fresh concrete until the template board lies flush on the surface of the concrete.

Light vibration of the fresh concrete will assure proper embedment and anchorage.

Recess Plug Removal



Swift Lift recess plugs provide two holes in the top surface that are used in the removal process. Insert two screw drivers or steel rods into the holes and simply lever the two across the plug for easy removal.

Selecting the Proper Swift Lift Anchor

Determination of the required rated load and length of a P-52 Swift Lift Anchor is based on the actual maximum load that is transferred to the anchor. In most cases, a flat slab can be handled with the anchors properly located in the face of the flat slab. The anchors should normally be the maximum length that can be accommodated in the slab's structural thickness, allowing at least 1/2" clearance between the anchor and the casting bed. Dimension tables and safe working load charts, contained herein, will aid in the selection of the proper anchor. Keep in mind that the safe working load of an anchor is a function of several factors:

1. The effective concrete thickness
2. Actual edge distance
3. Concrete compressive strength at time of lift
4. Anchor length
5. In some applications, the use of a shear bar

Swift Lift System

DAYTON SUPERIOR

P-52 Swift Lift Anchor Tensile and Shear Capacity

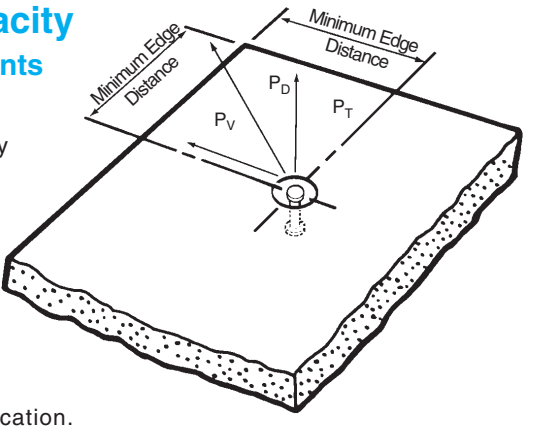
When anchors are used in the face of thin concrete elements

The following table lists the P-52 Swift Lift Anchors that are currently manufactured. Other sizes and lengths are available on special order. However, the sizes and lengths of anchors shown will handle the majority of flat precast concrete elements.

When the P-52 Swift Lift Anchor is properly embedded in normal weight concrete, the tabulated working loads are applicable for any direction of load. This applies even if the direction of load is parallel to the axis of the anchor, perpendicular to it or at any other angle.

Minimum distance between anchors is twice the minimum edge distance.

It is critical to remember that in order to obtain the safe working loads listed in the table below, the normal weight concrete must have obtained the minimum concrete strength shown, prior to initial load application.



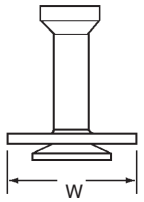
Swift Lift Anchor Ton x Length	Safe Working Load	Minimum Concrete Strength	Minimum Edge Distance
1 ton x 2-5/8"	1,700 lbs.	3,500 psi	8"
1 ton x 3-3/8"	2,000 lbs.	2,200 psi	10"
1 ton x 4-3/8"	2,000 lbs.	1,600 psi	10"
1 ton x 8"	2,000 lbs.	1,600 psi	10"
1 ton x 9-1/2"	2,000 lbs.	1,600 psi	10"
2 ton x 2-3/4"	2,100 lbs.	3,500 psi	8"
2 ton x 3-3/8"	2,900 lbs.	3,500 psi	10"
2 ton x 5-1/2"	4,000 lbs.	1,600 psi	13"
2 ton x 6"	4,000 lbs.	1,600 psi	13"
2 ton x 6-3/4"	4,000 lbs.	1,600 psi	13"
2 ton x 11"	4,000 lbs.	1,600 psi	14"
4 ton x 3-3/4"	4,000 lbs.	3,500 psi	12"
4 ton x 4-1/4"	4,900 lbs.	3,500 psi	13"
4 ton x 4-3/4"	5,800 lbs.	3,500 psi	14"
4 ton x 5-1/2"	7,400 lbs.	3,500 psi	17"
4 ton x 7-1/8"	8,000 lbs.	1,800 psi	20"
4 ton x 9-1/2"	8,000 lbs.	1,600 psi	17"
4 ton x 14"	8,000 lbs.	1,600 psi	18"
4 ton x 19"	8,000 lbs.	1,600 psi	20"
8 ton x 4-3/4"	6,400 lbs.	3,500 psi	16"
8 ton x 6-3/4"	11,200 lbs.	3,500 psi	21"
8 ton x 10"	16,000 lbs.	3,500 psi	19"
8 ton x 13-3/8"	16,000 lbs.	1,600 psi	23"
8 ton x 26-3/4"	16,000 lbs.	1,600 psi	27"
20 ton x 10"	25,000 lbs.	3,500 psi	24"
20 ton x 19-3/4"	40,000 lbs.	3,500 psi	31"

Safe Working Loads provide a factor of safety of approximately 4 to1 in normal weight concrete. Safe Working Load is based on anchor setback from face of concrete "X" dimension, as shown on page 28.

P-52-W Swift Lift Anchor

The P-52-W Swift Lift Anchors are the shortest 2-ton and 4-ton Swift Lift Anchors available and have been specially modified. A Type W Plain Washer is placed on the anchor's foot and welded in position. This modification has been made in order to increase the Safe Working Load of these short Swift Lift Anchors in thin precast concrete elements.

Safe Working Load provides a factor of safety of approximately 4 to 1.

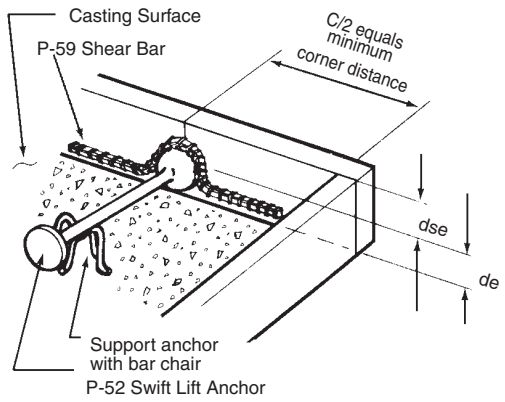


To Order:
Specify: (1) quantity, (2) name, (3) system size.

Example:
200, P-52-W Swift Lift Anchors, 2 ton.

Swift Lift Anchor Tons x Length	Safe Working Load	Minimum Concrete Strength	Minimum Edge Distance	W
2 tons x 2-3/4"	3,700 lbs.	3,500 psi	8"	2-1/2"
4 tons x 3-3/4"	5,700 lbs.	3,500 psi	12"	2-3/4"

P-52 Swift Lift Anchors for Edge Lifting

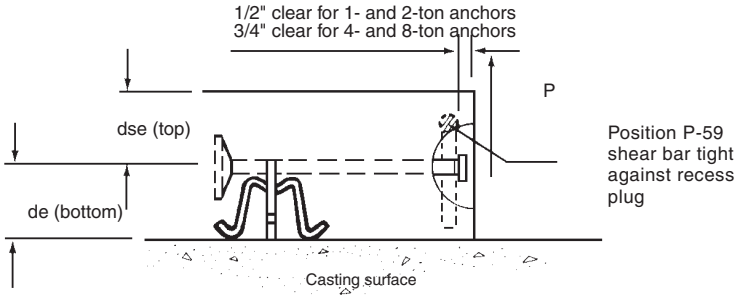


Note: See Shear Bar Chart on page 30.

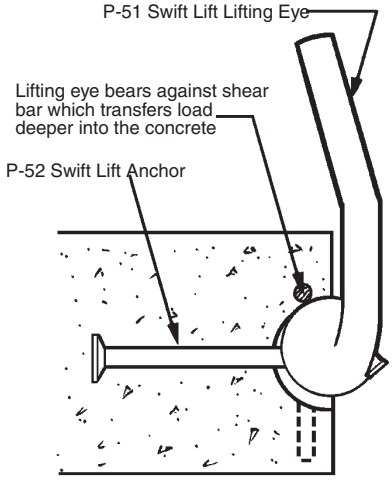
The P-52 Swift Lift Anchors and P-51 Swift Lift Lifting Eyes are useful for raising precast concrete panels from their horizontal casting position to a vertical position for handling and shipping. When Swift Lift Anchors are used in thin precast panels and under shear loading conditions, a special shear bar must be used.

The applied shear load tends to bend the anchor, allowing the lifting eye to apply load to the thin concrete section above the recess plug. A properly installed shear bar captures the applied load and transfers it deeper into the concrete.

When raising precast panels from a horizontal position to a vertical position, always check both shear and tension safe working loads. In order to develop the anchor's shear safe working load, the minimum spacing between Swift Lift Anchors is two times the corner distance listed.



Note: Properly installed shear bars are required to develop Safe Working Loads shown. 2 x de equals effective wall thickness for tensile loads.

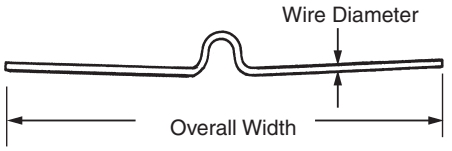


Section View of Swift Lift Assembly

Swift Lift System

P-59 Swift Lift Shear Bar
P-59 Swift Lift Smooth Wire Shear Bar

P-59 Swift Lift Shear Bar
1-Ton and 8-Ton



P-59 Swift Lift Smooth Wire Shear Bar
2-Ton and 4-Ton

Dayton Superior Swift Lift Shear Bars (P-59) are utilized when edge lifting precast elements. The shear bar is secured tightly to the recess plug and at the time of lift helps to transfer the shear load deeper into the concrete. The P-59 Smooth Wire Shear Bar is designed to snap into the built-in clips on the P-54 recess plug. The standard shear bar is fabricated from rebar and must be securely wired tightly to the Swift Lift recess plugs.

To Order:
Specify: (1) quantity, (2) name, (3) system size.

Example:
200, P-59 Swift Lift Shear Bars, 4-Ton.

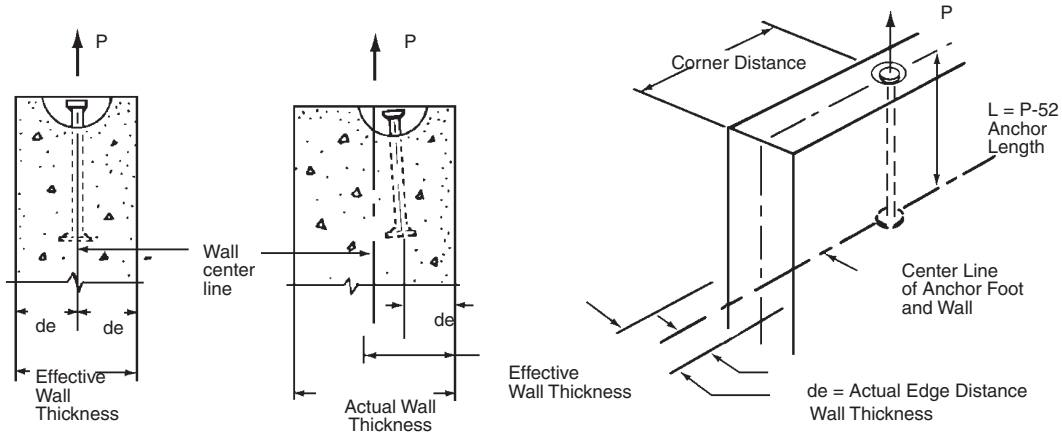
Anchor Safe Working Load (tons)	Shear Bar Type	Overall Width	Minimum Anchor Length	Wall Thickness	Minimum Corner Distance	Safe Working Load
1	Rebar	19"	4-3/4"	5"	15"	1,750 lbs.
1	Rebar	19"	4-3/4"	5-1/2"	16"	2,000 lbs.
1	Rebar	19"	4-3/4"	6"	17"	2,000 lbs.
2	Wire	24"	6-3/4"	5"	15"	1,750 lbs.
2	Wire	24"	6-3/4"	5-1/2"	16"	2,200 lbs.
2	Wire	24"	6-3/4"	6"	17"	2,600 lbs.
2	Wire	24"	6-3/4"	7"	19"	2,700 lbs.
2	Wire	24"	6-3/4"	8"	21"	2,800 lbs.
4	Wire	30"	9-1/2"	5-1/2"	16"	2,100 lbs.
4	Wire	30"	9-1/2"	6"	17"	2,200 lbs.
4	Wire	30"	9-1/2"	7"	19"	2,600 lbs.
4	Wire	30"	9-1/2"	8"	21"	2,800 lbs.
8	Rebar	34"	13-3/8"	8"	19"	5,600 lbs.
8	Rebar	34"	13-3/8"	9"	21"	6,700 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

P-52 Swift Lift Anchor in Thin Walls

The P-52 Swift Lift Anchors, listed below, must be located the minimum distance away from a corner with the anchor foot being positioned at the center line of the wall. The anchor head location may be off center, however, any eccentricity of the foot will result in a reduction of the safe working load. When the anchor foot is not positioned at the center line of the wall, the effective wall thickness is equal to twice the actual edge distance.

To develop the safe working load of the P-52 Swift Lift Anchor, the minimum spacing between two anchors is six times the anchor length.



Swift Lift Anchor Effective Tensile Capacity in Thin Walls

Swift Lift Anchor Ton x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			6"	12"	18"	24"	30"
1 Ton x 4-3/4" Long	2-1/2"	1-1/4"	900 lbs.	1,100 lbs.	1,200 lbs.	1,200 lbs.	1,200 lbs.
	2-3/4"	1-3/8"	1,000 lbs.	1,200 lbs.	1,300 lbs.	1,300 lbs.	1,300 lbs.
	3"	1-1/2"	1,100 lbs.	1,300 lbs.	1,400 lbs.	1,400 lbs.	1,400 lbs.
	3-1/2"	1-3/4"	1,200 lbs.	1,600 lbs.	1,600 lbs.	1,600 lbs.	1,600 lbs.
	4"	2"	1,450 lbs.	1,800 lbs.	1,900 lbs.	1,900 lbs.	1,900 lbs.
	4-1/2"	2-1/4"	1,600 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
1 Ton x 9-1/2" Long	2-1/2"	1-1/4"	1,300 lbs.	1,700 lbs.	1,900 lbs.	1,900 lbs.	1,900 lbs.
	2-3/4"	1-3/8"	1,400 lbs.	1,900 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	3"	1-1/2"	1,500 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	3-1/2"	1-3/4"	1,800 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	4"	2"	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	4-1/2"	2-1/4"	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift System

DAYTON SUPERIOR

Swift Lift Anchor Effective Tensile Capacity in Thin Walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			8"	12"	18"	24"	30"
2 Tons x 6-3/4" Long	3"	1-1/2"	1,500 lbs.	1,700 lbs.	2,000 lbs.	2,000 lbs.	2,000 lbs.
	3-1/4"	1-5/8"	1,600 lbs.	1,900 lbs.	2,100 lbs.	2,200 lbs.	2,200 lbs.
	3-1/2"	1-3/4"	1,700 lbs.	2,000 lbs.	2,300 lbs.	2,300 lbs.	2,300 lbs.
	4"	2"	2,000 lbs.	2,300 lbs.	2,600 lbs.	2,700 lbs.	2,700 lbs.
	5"	2-1/2"	2,500 lbs.	2,900 lbs.	3,300 lbs.	3,400 lbs.	3,400 lbs.
	6"	3"	3,000 lbs.	3,500 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.
2 Tons x 11" Long	3"	1-1/2"	1,900 lbs.	2,300 lbs.	2,700 lbs.	3,000 lbs.	3,200 lbs.
	3-1/4"	1-5/8"	2,100 lbs.	2,500 lbs.	3,000 lbs.	3,300 lbs.	3,500 lbs.
	3-1/2"	1-3/4"	2,200 lbs.	2,700 lbs.	3,200 lbs.	3,500 lbs.	3,700 lbs.
	4"	2"	2,500 lbs.	3,100 lbs.	3,700 lbs.	4,000 lbs.	4,000 lbs.
	5"	2-1/2"	3,200 lbs.	3,900 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.
	6"	3"	3,800 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			10"	15"	20"	24"	30"
4 Tons x 9-1/2" Long	3-3/4"	1-7/8"	2,500 lbs.	3,000 lbs.	3,300 lbs.	3,400 lbs.	3,500 lbs.
	4"	2"	2,600 lbs.	3,200 lbs.	3,500 lbs.	3,700 lbs.	3,800 lbs.
	5"	2-1/2"	3,300 lbs.	4,000 lbs.	4,400 lbs.	4,600 lbs.	4,700 lbs.
	6"	3"	4,000 lbs.	4,800 lbs.	5,300 lbs.	5,500 lbs.	5,700 lbs.
	7"	3-1/2"	4,700 lbs.	5,600 lbs.	6,200 lbs.	6,500 lbs.	6,600 lbs.
	8"	4"	5,300 lbs.	6,400 lbs.	7,000 lbs.	7,400 lbs.	7,600 lbs.
4 Tons x 19" Long	3-3/4"	1-7/8"	3,500 lbs.	4,300 lbs.	4,900 lbs.	5,300 lbs.	5,800 lbs.
	4"	2"	3,800 lbs.	4,600 lbs.	5,300 lbs.	5,700 lbs.	6,200 lbs.
	5"	2-1/2"	4,700 lbs.	5,700 lbs.	6,600 lbs.	7,100 lbs.	7,800 lbs.
	6"	3"	5,700 lbs.	6,900 lbs.	7,900 lbs.	8,000 lbs.	8,000 lbs.
	7"	3-1/2"	6,600 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.
	8"	4"	7,600 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.	8,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

DAYTON SUPERIOR

Swift Lift Anchor Effective Tensile Capacity in Thin Walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			12"	18"	24"	36"	45"
8 Tons x 13-3/8" Long	4-3/4"	2-3/8"	4,000 lbs.	4,800 lbs.	5,400 lbs.	6,000 lbs.	6,100 lbs.
	5"	2-1/2"	4,200 lbs.	5,100 lbs.	5,700 lbs.	6,300 lbs.	6,400 lbs.
	6"	3"	5,100 lbs.	6,100 lbs.	6,800 lbs.	7,500 lbs.	7,600 lbs.
	7"	3-1/2"	5,900 lbs.	7,100 lbs.	8,000 lbs.	8,800 lbs.	8,900 lbs.
	8"	4"	6,800 lbs.	8,100 lbs.	9,100 lbs.	10,100 lbs.	10,200 lbs.
	10"	5"	8,500 lbs.	10,200 lbs.	11,400 lbs.	12,600 lbs.	12,700 lbs.
	12"	6"	10,200 lbs.	12,200 lbs.	13,700 lbs.	15,100 lbs.	15,200 lbs.
8 Tons x 26-3/4" Long	4-3/4"	2-3/8"	5,800 lbs.	7,000 lbs.	8,000 lbs.	9,600 lbs.	11,200 lbs.
	5"	2-1/2"	6,100 lbs.	7,400 lbs.	8,500 lbs.	10,100 lbs.	11,800 lbs.
	6"	3"	7,300 lbs.	8,900 lbs.	9,500 lbs.	12,100 lbs.	14,100 lbs.
	7"	3-1/2"	8,500 lbs.	10,300 lbs.	11,800 lbs.	14,200 lbs.	16,000 lbs.
	8"	4"	9,700 lbs.	11,800 lbs.	13,500 lbs.	16,000 lbs.	16,000 lbs.
	10"	5"	12,100 lbs.	14,800 lbs.	16,000 lbs.	16,000 lbs.	16,000 lbs.
	12"	6"	14,500 lbs.	16,000 lbs.	16,000 lbs.	16,000 lbs.	16,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor				
			Actual Corner Distance				
			10"	16"	24"	30"	42"
20 Tons x 19-3/4" Long	6-1/2"	3-1/4"	6,200 lbs.	7,500 lbs.	9,400 lbs.	10,300 lbs.	11,500 lbs.
	7"	3-1/2"	6,700 lbs.	8,100 lbs.	10,100 lbs.	11,100 lbs.	12,400 lbs.
	8"	4"	7,600 lbs.	8,900 lbs.	11,500 lbs.	12,600 lbs.	14,200 lbs.
	10"	5"	9,500 lbs.	11,600 lbs.	14,400 lbs.	15,800 lbs.	17,700 lbs.
	12"	6"	11,500 lbs.	14,000 lbs.	17,300 lbs.	19,000 lbs.	22,000 lbs.
	14"	7"	13,400 lbs.	16,300 lbs.	20,100 lbs.	22,100 lbs.	24,800 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

To recalculate the safe working load when the anchor is used in a lower strength concrete, multiply the tabulated Safe Working Load by the following reduction factors:

Concrete Strength	Reduction Factor
2,000 psi	.66
2,500 psi	.74
3,000 psi	.81
3,500 psi	.88
4,000 psi	.94
4,500 psi	1.00

Swift Lift System

DAYTON SUPERIOR

Swift Lift Anchor Effective Tensile Capacity

When anchors are used in groups and in thin walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C = Actual Spacing Between Anchors				
			18"	24"	30"	36"	48"
2 Tons x 6-3/4" Long	3"	1-1/2"	1,200 lbs.	1,500 lbs.	1,800 lbs.	1,900 lbs.	2,000 lbs.
	3-1/4"	1-5/8"	1,300 lbs.	1,700 lbs.	1,900 lbs.	2,100 lbs.	2,200 lbs.
	3-1/2"	1-3/4"	1,400 lbs.	1,800 lbs.	2,100 lbs.	2,300 lbs.	2,400 lbs.
	4"	2"	1,600 lbs.	2,100 lbs.	2,400 lbs.	2,600 lbs.	2,700 lbs.
	5"	2-1/2"	2,000 lbs.	2,600 lbs.	3,000 lbs.	3,200 lbs.	3,400 lbs.
	6"	3"	2,500 lbs.	3,100 lbs.	3,600 lbs.	3,900 lbs.	4,000 lbs.
2 Tons x 11" Long	3"	1-1/2"	1,300 lbs.	1,700 lbs.	2,000 lbs.	2,300 lbs.	2,900 lbs.
	3-1/4"	1-5/8"	1,400 lbs.	1,800 lbs.	2,200 lbs.	2,500 lbs.	3,100 lbs.
	3-1/2"	1-3/4"	1,500 lbs.	1,900 lbs.	2,400 lbs.	2,700 lbs.	3,300 lbs.
	4"	2"	1,700 lbs.	2,200 lbs.	2,700 lbs.	3,100 lbs.	3,800 lbs.
	5"	2-1/2"	2,100 lbs.	2,800 lbs.	3,400 lbs.	3,900 lbs.	4,000 lbs.
	6"	3"	2,600 lbs.	3,400 lbs.	4,000 lbs.	4,000 lbs.	4,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C = Actual Spacing Between Anchors				
			18"	24"	36"	48"	60"
4 Tons x 9-1/2" Long	3-3/4"	1-7/8"	1,600 lbs.	2,000 lbs.	2,800 lbs.	3,300 lbs.	3,500 lbs.
	4"	2"	1,700 lbs.	2,200 lbs.	3,000 lbs.	3,600 lbs.	3,800 lbs.
	5"	2-1/2"	2,100 lbs.	2,700 lbs.	3,800 lbs.	4,500 lbs.	4,700 lbs.
	6"	3"	2,500 lbs.	3,300 lbs.	4,600 lbs.	5,400 lbs.	5,700 lbs.
	7"	3-1/2"	3,000 lbs.	3,900 lbs.	5,300 lbs.	6,300 lbs.	6,700 lbs.
	8"	4"	3,400 lbs.	4,400 lbs.	6,100 lbs.	7,200 lbs.	7,600 lbs.
4 Tons x 19" Long	3-3/4"	1-7/8"	1,600 lbs.	2,200 lbs.	3,200 lbs.	4,100 lbs.	5,000 lbs.
	4"	2"	1,700 lbs.	2,300 lbs.	3,400 lbs.	4,400 lbs.	5,300 lbs.
	5"	2-1/2"	2,200 lbs.	2,900 lbs.	4,300 lbs.	5,500 lbs.	6,600 lbs.
	6"	3"	2,600 lbs.	3,500 lbs.	5,100 lbs.	6,600 lbs.	8,000 lbs.
	7"	3-1/2"	3,100 lbs.	4,100 lbs.	6,000 lbs.	7,700 lbs.	8,000 lbs.
	8"	4"	3,500 lbs.	4,500 lbs.	6,800 lbs.	8,000 lbs.	8,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Effective Tensile Capacity

When anchors are used in groups and in Thin Walls

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C = Actual Spacing Between Anchors				
			18"	24"	36"	48"	60"
8 Tons x 13-3/8" Long	4-3/4"	2-3/8"	2,800 lbs.	3,600 lbs.	4,800 lbs.	5,300 lbs.	5,300 lbs.
	5"	2-1/2"	2,900 lbs.	3,800 lbs.	5,000 lbs.	5,600 lbs.	5,600 lbs.
	6"	3"	3,500 lbs.	4,500 lbs.	6,000 lbs.	6,700 lbs.	6,700 lbs.
	7"	3-1/2"	4,100 lbs.	5,300 lbs.	7,100 lbs.	7,800 lbs.	7,800 lbs.
	8"	4"	4,700 lbs.	6,000 lbs.	8,100 lbs.	8,900 lbs.	8,900 lbs.
	10"	5"	5,900 lbs.	7,500 lbs.	10,100 lbs.	11,200 lbs.	11,200 lbs.
	12"	5-1/2"	6,500 lbs.	8,300 lbs.	11,000 lbs.	12,300 lbs.	12,300 lbs.
8 Tons x 26-3/4" Long	4-3/4"	2-3/8"	2,900 lbs.	3,800 lbs.	5,600 lbs.	7,200 lbs.	8,500 lbs.
	5"	2-1/2"	3,100 lbs.	4,000 lbs.	5,900 lbs.	7,600 lbs.	9,000 lbs.
	6"	3"	3,700 lbs.	4,800 lbs.	7,100 lbs.	9,100 lbs.	10,800 lbs.
	7"	3-1/2"	4,300 lbs.	5,700 lbs.	8,300 lbs.	10,600 lbs.	12,500 lbs.
	8"	4"	4,900 lbs.	6,500 lbs.	9,400 lbs.	12,100 lbs.	14,300 lbs.
	10"	5"	6,100 lbs.	8,100 lbs.	11,800 lbs.	15,100 lbs.	16,000 lbs.
	12"	5-1/2"	6,700 lbs.	8,900 lbs.	13,000 lbs.	16,000 lbs.	16,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

Swift Lift Anchor Tons x Length	Effective Wall Thickness 2 de	Actual Edge Distance de	Tensile Safe Working Load Per Anchor In Groups				
			C= Actual Spacing Between Anchors				
			20"	24"	33"	42"	60"
20 Tons x 19-3/4" Long	6-1/2"	3-1/4"	4,300 lbs.	5,200 lbs.	6,800 lbs.	8,300 lbs.	10,200 lbs.
	7"	3-1/2"	4,700 lbs.	5,600 lbs.	7,400 lbs.	8,900 lbs.	11,000 lbs.
	8"	4"	5,400 lbs.	6,300 lbs.	8,400 lbs.	10,200 lbs.	12,600 lbs.
	10"	5"	6,700 lbs.	7,900 lbs.	10,500 lbs.	12,700 lbs.	15,700 lbs.
	12"	6"	8,000 lbs.	9,500 lbs.	12,600 lbs.	15,300 lbs.	18,900 lbs.
	14"	7"	9,300 lbs.	11,100 lbs.	14,700 lbs.	17,800 lbs.	22,000 lbs.

Safe Working Load provides a factor of safety of approximately 4 to 1 in 4,500 psi normal weight concrete.

To recalculate the Safe Working Loads when the anchor is used in a lower strength concrete, multiply the tabulated Safe Working Load by the following reduction factors:

Concrete Strength	Reduction Factor
2,000 psi	.66
2,500 psi	.74
3,000 psi	.81
3,500 psi	.88
4,000 psi	.94
4,500 psi	1.00