

CRIMP Multi-Purpose Anchors

The Crimp anchor is an easy-to-install expansion anchor for use in concrete and grout-filled block. The pre-formed curvature along the shaft creates an expansion mechanism that secures the anchor in place and eliminates the need for a secondary tightening procedure. This speeds up anchor installation and reduces the overall cost.

Four Crimp anchor head styles are available to handle different applications that include fastening wood or light-gauge steel, attaching concrete formwork, hanging overhead support for sprinkler pipes or suspended ceiling panels.

WARNING : Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, with the exception of the duplex anchor, use these products in dry, interior and non-corrosive environments only.

MATERIAL: Carbon steel

FINISH: Zinc plated and mechanically galvanized

CODES: Factory Mutual 3031136 for the 3/8" Rod Coupler.

HEAD STYLES: Mushroom, rod coupler, tie-wire and duplex

INSTALLATION:

- Drill a hole using the specified diameter carbide bit into the base material to a depth of at least 1/2" deeper than the required embedment.
- Blow the hole clean of dust and debris using compressed air. Overhead application need not to be blown clean. Where a fixture is used, drive the anchor through the fixture into the hole until the head sits flush against the fixture.
- Be sure the anchor is driven to the required embedment depth. The Rod Coupler and Tie-Wire models should be driven in until the head is seated against the surface of the base material.

Crimp Anchor Product Data

Size	Model No.	Head Style/ Finish	Drill Bit Dia. (in)	Min. Fixture Hole Size	Min. Embed.	Quantity Box	Ctn		
3/16" x 1 1/4"	CD18114M	Mushroom Head - Zinc Plated	3/16"	1/4"	7/8"	100	1600		
3/16" x 2"	CD18200M				1 1/4"	100	500		
1/4" x 1"	CD25100M		1/4"	5/16"	7/8"	100	1600		
1/4" x 1 1/4"	CD25114M				7/8"	100	1600		
1/4" x 1 1/2"	CD25112M				1 1/4"	100	1600		
1/4" x 2"	CD25200M				1 1/4"	100	500		
1/4" x 2 1/2"	CD25212M				1 1/4"	100	500		
1/4" x 3"	CD25300M				1 1/4"	100	500		
3/8" x 2"	CD37200M				3/8"	7/16"	1 3/4"	25	125
3/8" x 3"	CD37300M						1 3/4"	25	125
1/4" x 3"	CD25300MG	Mushroom Head - Mechanically Galvanized	1/4"	5/16"	1 1/4"	100	500		
1/4" Rod Coupler	CD25114RC	Rod Coupler - Zinc Plated	3/16"	N/A	1 1/4"	100	500		
3/8" Rod Coupler	CD37112RC		1/4"	N/A	1 1/2"	50	250		
1/4" Tie Wire	CD25118T	Tie Wire - Zinc Plated	1/4"	N/A	1 1/8"	100	500		
1/4" Duplex	CD25234D	Duplex Head - Zinc Plated	1/4"	5/16"	1 1/4"	100	500		

1. Mechanical galvanizing meets ASTM B695, Class 55, Type 1. Intended for some pressure-treated wood sill plate applications. Not for use in other corrosive or outdoor environments. See page 16 for details.

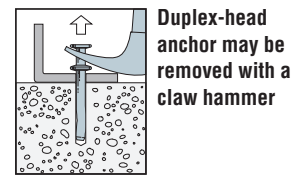
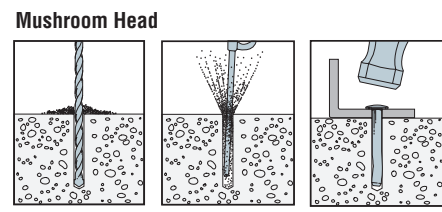
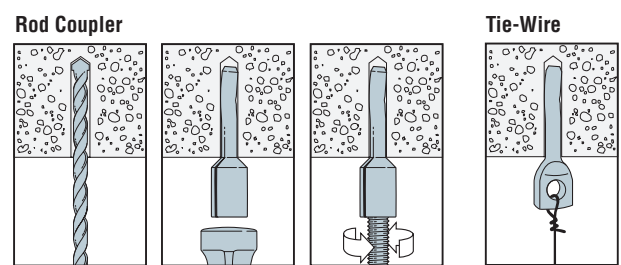


Mushroom Head Rod Coupler



Tie-Wire Duplex

Crimp Anchor Installation Sequence





Tension and Shear Loads in Normal-Weight Concrete

Size (in.)	Drill Bit Dia. (in.)	Embed. Depth (in.)	Min. Spacing (in.)	Min. Edge Dist. (in.)	Tension Load		Shear Load	
					f'c ≥ 2000 psi Concrete	f'c ≥ 4000 psi Concrete	f'c ≥ 2000 psi Concrete	f'c ≥ 4000 psi Concrete
					Allowable Load (lbs.)	Allowable Load (lbs.)	Allowable Load (lbs.)	Allowable Load (lbs.)
MUSHROOM HEAD								
3/16	3/16	1 1/4	3	3	145	250	340	450
1/4	1/4	1 1/4	3	3	175	275	395	610
3/8	3/8	1 3/4	4	4	365	780	755	1305
DUPLEX HEAD								
1/4	1/4	1 1/4	3	3	175	275	395	610
TIE WIRE								
1/4	1/4	1 1/8	3	3	155	215	265	325
ROD COUPLER⁴								
1/4	3/16	1 1/4	3	3	145	250	•	•
3/8	1/4	1 1/2	4	4	265	600	•	•

- The allowable loads listed are based on a safety factor of 4.0.
- The minimum concrete thickness is 1 1/2 times the embedment depth.
- Allowable loads may be linearly interpolated between concrete strengths listed.
- For rod coupler, mechanical and plumbing design codes may prescribe lower allowable loads; verify with local codes.

*See page 10 for an explanation of the load table icons



Tension and Shear Loads in Sand-Lightweight Concrete over Metal Deck

Size (in.)	Drill Bit Dia. (in.)	Embed. Depth (in.)	Min. Spacing (in.)	Min. Edge Dist. (in.)	Tension Load (Install in Concrete)	Tension Load (Install through Metal Deck)	Shear Load (Install in Concrete)	Shear Load (Install through Metal Deck)
					f'c ≥ 3000 psi Concrete	f'c ≥ 3000 psi Concrete	f'c ≥ 3000 psi Concrete	f'c ≥ 3000 psi Concrete
					Allowable Load (lbs.)	Allowable Load (lbs.)	Allowable Load (lbs.)	Allowable Load (lbs.)
MUSHROOM HEAD								
3/16	3/16	1 1/4	4	4	115	85	345	600
1/4	1/4	1 1/4	4	4	145	130	375	890
3/8	3/8	1 3/4	5 1/2	5 1/2	315	330	1030	1085
DUPLEX HEAD								
1/4	1/4	1 1/4	4	4	145	130	375	890
TIE WIRE								
1/4	1/4	1 1/8	3	3	130	90	275	210
ROD COUPLER⁵								
1/4	3/16	1 1/4	4	4	115	85	•	•
3/8	1/4	1 1/2	5	5	300	280	•	•

- The allowable loads listed are based on a safety factor of 4.0.
- The minimum concrete thickness is 1 1/2 times the embedment depth.
- Anchors may be installed off-center in the flute, up to 1" from the center of flute.
- Anchor may be installed in either upper or lower flute.
- Deck profile shall be 3" deep, 20-gauge minimum.
- For rod coupler, mechanical and plumbing design codes may prescribe lower allowable loads; verify with local codes.

Length Identification Head Marks on Mushroom And Duplex-Head Crimp Anchors (corresponds to length of anchor - inches)

Mark	□	A	B	C	D
From	1	1 1/2	2	2 1/2	3
Up To But Not Including	1 1/2	2	2 1/2	3	3 1/2

