

## Anchor Information

### DEFINITIONS

#### Minimum Embedment—

Minimum depth in which the anchor must be set to function properly.

**Tension Strength—** Ultimate parallel load an anchor can withstand before pulling out of the base material.

**Shear Strength—** Ultimate perpendicular load an anchor can handle before breaking.

### ANCHOR TYPES

#### Wedge

Fully threaded masonry with stud bolt body, split expansion ring, integral cone expander, nut, and washer. Use to fasten fixtures to a solid base material. See pages 2062, 2063, 2064.



#### Drop-In

Internally threaded, shallow embedment anchors preassembled with an internal expansion plug for use in concrete. See page 2066.



#### Sleeve

Threaded stud with an outwardly flared cone-shaped end. Use to fasten steel, aluminum, wood panels, doors, framing, and shelving to concrete. See page 2065.



#### Expansion

Provide quick installation of lightweight fixtures in masonry and concrete. Use with lag, wood, or sheet metal screws. See page 2063.



#### Hammer-Drive

Nail-like devices consisting of an expander drive pin and an expansion sleeve. Used to anchor items to brick and concrete surfaces. See page 2068.



#### Self-Threading

Removable structural anchors work in concrete or hollow block. For high-load capacity applications. See page 2067.



#### Masonry

Excellent for wood-to-concrete applications. Notched high-low threads cut into masonry for stability; tapered shank provides wedging action for a strong hold. Can be removed and reinstalled. See page 2067.



#### Hollow-Wall

For use in thin or hollow base materials like concrete block, drywall, paneling, or plaster. See page 2069.



#### Drywall

Self-drilling anchors preserve drywall integrity at installation, and stay in place while screws back out easily. See page 2069.



Note: Additional anchor types available on Grainger.com.



**Umbrella Anchor**



**Steel Wire Brush**



**Stainless Steel Anchor Screen**



## Anchor Accessories

Plastic Umbrella Anchor 5HE70 has a large bearing surface inside the block that provides consistent high-load capacity. For hollow-block fastening to face of concrete block, clay tile, or terra cotta.

Description	Brand	Item No.	Pkg. Qty.
<b>Plastic Umbrella Anchor For 1/4 to 1/2 in Rod</b> Fit 3/4 in Hole, Min. Hole Depth 3/4 in	Red Head	5HE70	20
<b>Epoxy Anchor Screen</b>			
<b>Stainless Steel</b>			
Fit 3/8 in Hole, 1/4 x 2 in	Red Head	4AL18	1
Fit 1/2 in Hole,	Red Head	4AL19	1
Fit 5/8 in Hole, 1/2 x 3 1/2 in	Red Head	4AL23	1
Fit 3/4 in Hole, 5/8 x 4 1/2 in	Red Head	4AL27	1
<b>Nylon</b>			
Fit 5/8 in Hole, 1/2 x 6 in	Red Head	4UJ84	1
Fit 1/2 in Hole, 3/8 x 6 in	Red Head	4UJ86	1
Fit 1/2 in Hole, 3/8 x 8 in	Red Head	4UJ87	1
Fit 3/4 in Hole, 5/8 x 6 in	Red Head	4UJ88	1
<b>Wire Brushes</b>			
<b>Nylon</b>			
1/2 in Hole Dia.	—	11M968	1
3/4 in Hole Dia.	—	11M969	1
1 in Hole Dia.	—	11M970	1
1 1/4 in Hole Dia.	—	11M971	1
1 1/2 in Hole Dia.	—	11M972	1
<b>Steel</b>			
3/8 in Hole Dia.	—	11M973	1
5/8 in Hole Dia.	—	11M974	1
1 in Hole Dia.	—	11M977	4
1 1/4 in Hole Dia.	—	11M978	4
1 1/2 in Hole Dia.	—	11M979	4
1 5/8 in Hole Dia.	—	11M980	4
1 3/4 in Hole Dia.	—	11M981	4
1 1/2 in Hole Dia.	—	11M982	1
Wire Brush Extension, w/SDS Adaptor	—	11M982	1
Wire Brush	—	11M983	1



**4AL07**



**4AL05**



## CondriVe 1000 Tool and Bits

CondriVe 1000 multipurpose tool for installation of all lengths of Tapcon hex head and Phillips flat head anchors.

Note: For optimum performance bit diameter must equal anchor diameter.

Description	Item No.
<b>Tapcon CondriVe 1000 Tool</b>	
Decutching Nosepiece on Drive Sleeve, Built-in Nosepiece Countersink	4AL05
<b>Tapcon Slotted Shank Bits</b>	
3/8 in Tapcon x 4 1/2 in	4AL07
3/8 in Tapcon x 5 1/2 in	4AL08
1/4 in Tapcon x 4 1/2 in	4AL10
1/4 in Tapcon x 5 1/2 in	4AL11



**6JKW7**



**6JKW8**

## Anchor Drivers

■ Straight shank bits



Description	Application	Brand	Item No.
<b>Drivers</b>			
Con-Sert Tool #8, For Masonry Screws	Drill and Set Con-sert Screws in Concrete, Brick, Stone, Wood, Vinyl and Light Steel	—	6JKW7
<b>Replacement Drill Bit</b>			
1/8 in, Carbide Steel, For Use With Hammer Drill, Regular Drill	Diversified Fastening Systems	Diversified Fastening Systems	6JKW8