



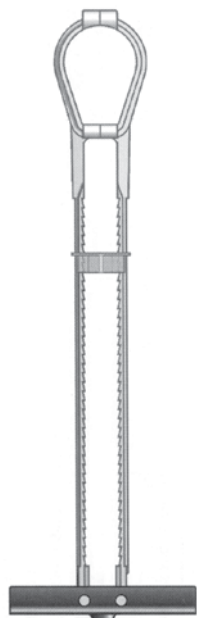
## Strap-Toggle™

### Product Description

The Strap-Toggle is a pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic. It is available in both 3/16", 1/4", 3/8" and 1/2" sizes. When compared to traditional toggles, this unique anchor can be installed in a smaller hole and does not require a fixture or screw to set it. The anchor can be easily adjusted to accommodate a wall thickness of up to 2-1/2" while using a shorter bolt.

Installation is simple and four times faster than traditional toggles or metal hollow wall anchors. The specially designed locking cap and ratchet leg holds the wing snugly against the inside of a hollow wall. This prevents the anchor from spinning during installation of the bolt and allows for easy removal of the fixture for maintenance.

Installation of the anchor is easy. Simply drill a hole into the cavity of the hollow base material and insert the anchor. Then pull the ring and slide the cap along the straps until the flange of the cap is firmly set against the surface of the base material. Snap the straps off and the anchor is ready for use. It's that simple! The bolt and fixture may be installed and removed as often as necessary without affecting the anchor.



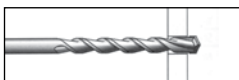
The following approvals and listings are for reference purposes. They should be reviewed by the design professional responsible for the product installation to verify approved sizes, base materials, and compliance with local codes.

#### Federal Specification

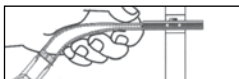
The Strap-Toggle meets the descriptive requirements of FF-B-588D, Type V for a captive toggle.

Anchors for hollow walls shall be a pre-assembled captive style toggles meeting the requirements of Federal Specification FF-B-588D, Type V. The anchors shall have a carbon steel wing portion formed in a 'U' channel shape that is zinc plated according to ASTM Specification B633, SC 1, Type III. The anchor shall have a locking cap and ratchet leg assembly molded from engineered plastic. The assembly shall hold the wing snugly against the inside of the hollow wall prior to installation and after removal of the bolt. Strap Toggle anchors shall be as supplied by Powers Fasteners, Inc.

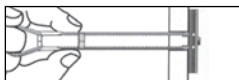
## Installation Instructions



Drill the proper size hole into the cavity of the hollow base material.



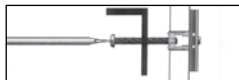
Position the wing parallel to the plastic legs and slide the anchor through the drilled hole into the hollow cavity.



Pull the wing firmly against the inside wall of the hollow material using the ring, then slide the plastic cap forward until the flange is seated flush against the work surface.



Place your thumb between the plastic straps and snap the straps off.



Position the fixture. Insert the bolt through the fixture and tighten. The minimum bolt length should be at least 1/2 longer than the combined wall and fixture thickness.

## Sizes

The Strap-Toggle is a heavy duty hollow wall anchor designed for use in base materials such as plaster, wallboard, concrete block or hollow tile.

### Anchor Sizes

Cat. No.	Size	Drill Diameter	Wall Thickness	Std. Box	Std. Ctn.	Wt./100
4052	3/16" x 4"	1/2"	2 1/2"	50	300	3 1/2
4054	1/4" x 4"	1/2"	2 1/2"	50	300	3 1/2
4056	3/8" x 4"	3/4"	2 1/2"	25	150	5
4058	1/2" x 4"	3/4"	2 1/2"	25	150	5

### Material Specifications

Anchor Component	Component Material
Wing	AISI C1010
Zinc Plating	ASTM B633, Sd, Type iii, (Fe/Zn 5)
Cap / Strap	Engineered Plastic

### Installation Specifications

Anchor Size	3/16"	1/4"	3/8"	1/2"
ANSI Drill Bit Size*	1/2"	1/2"	3/4"	3/4"
Cap Size	5/8"	5/8"	1"	1"
Grip Range	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Thread Size	3/16"-24	1/4"-20	3/8"-16	1/2"-13
Max. Torque (ft.-lbs.)	5	5	5	5
Minimum Clearance	1 7/8"	1 7/8"	1 7/8"	1 7/8"

\* 9/16" Bit may be required for very dense materials.

## Performance Data

The following ultimate load capabilities are based on testing according to ASTM E 488.

### Ultimate Load Capacities For Gypsum Wallboard

	Size	Drill Dia.	Wallboard Thickness			
			3/8"	1/2"	5/8"	3/4"
Tension (lbs.)	3/16"	1/2"	120	130	195	205
	1/4"	1/2"	130	145	210	215
	3/8"	3/4"	135	150	220	230
	1/2"	3/4"	140	150	220	230
Shear (lbs.)	3/16"	1/2"	240	285	380	440
	1/4"	1/2"	270	295	420	470
	3/8"	3/4"	275	300	420	475
	1/2"	3/4"	290	355	430	485

### Ultimate Load Capacities For C-90 Hollow Back

Size	Drill Dia.	ASTM C-90 Hollow Back Tension (Lbs.)	Shear (Lbs.)
3/16"	1/2"	1,080	740
1/4"	1/2"	1,355	1,420
3/8"	3/4"	1,435	2,330
1/2"	3/4"	1,720	2,980

NOTE: The values listed above are ultimate load capabilities. These capabilities should be reduced by a minimum safety factor of 4 or greater to determine the allowable working load. Refer to the Fastening Systems Design Manual published by Powers Fasteners, Inc. for complete details. Since the consistency of gypsum wallboard and hollow block varies greatly these load capacities listed should be used as guidelines only job site tests should be conducted to determine the actual load capabilities.

