

# Standard Wing Toggles

## Description

The Standard Wing Toggle anchor is a two-part hollow wall anchor consisting of a machine bolt and a spring wing toggle. The snap-open action eases installation and spreads the working load over a greater surface area. They are designed for use in wallboard/drywall, block and other hollow base materials.

## Key Features & Benefits

- ▶ Two-part assembly consisting of a machine bolt and a spring wing toggle
- ▶ Wing toggle spreads load over a wide area
- ▶ Snap-open action eases installation
- ▶ Adjustable to accommodate various wall thickness
- ▶ Easy to use and works in a variety of hollow base materials



## Specifications, Listings and Approvals

**Available Bolt Diameters:** 1/8" – 3/8"

**Material:**

*Wing/Bolt/Nut* : AISI 1010

*Finish:* Zinc Plated ASTM B633, SCI, Type III

## Installation Information

### Instructions

1. Drill appropriate size hole.
2. Insert bolt through the fixture and thread into the wing.
3. Push toggle wing through the drilled hole and fasten tight.

**NOTE: Always wear safety glasses.** Normal safety precautions should be observed when drilling the holes to avoid electrical installations, other utilities and reinforcement bars.

## Installation Data

Bolt Dia. (in.)	Drill Bit Dia. (in.)	Wing Clearance (in.)	Thread Size (UNC)
1/8	3/8	1-1/16	6-32
3/16	1/2	1-3/8	10-24
1/4	5/8	1-1/2	1/4-20
3/8	7/8	2-1/8	3/8 - 16

## Performance Data

### Allowable Loads (lbs.) – Wallboard

Bolt Dia. (in.)	Drill Bit Dia. (in.)	3/8" Wallboard		1/2" Wallboard		5/8" Wall board		3/4" Wallboard	
		Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
1/8	1/2	30	30	35	35	45	45	55	55
3/16	9/16	35	35	45	45	60	60	70	70
1/4	11/16	55	55	60	60	65	65	75	75
3/8	1	60	60	65	65	75	75	85	85

\*Allowable load capacities are calculated using an applied safety factor of 4:1

### Ultimate Loads (lbs.) – Wallboard

Bolt Dia. (in.)	Drill Bit Dia. (in.)	3/8" Wallboard		1/2" Wallboard		5/8" Wall board		3/4" Wallboard	
		Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
1/8	1/2	120	120	140	140	180	180	220	220
3/16	9/16	140	140	180	180	240	240	280	280
1/4	11/16	220	220	240	240	260	260	300	300
3/8	1	240	240	260	260	300	300	340	340

\*Allowable load capacities are calculated using an applied safety factor of 4:1

### Ultimate and Allowable Loads (lbs.) – Hollow Concrete Masonry

Bolt Dia. (in.)	Drill Bit Dia. (in.)	1,500 psi			
		Allowable		Ultimate	
		Tension	Shear	Tension	Shear
1/8	1/2	45	40	180	160
3/16	9/16	55	60	220	240
1/4	11/16	65	125	260	500
3/8	1	130	150	520	600

\*Allowable load capacities are calculated using an applied safety factor of 4:1

Order Information



Standard Wing Toggles: Zinc-Plated Carbon Steel					
Catalog Number	Bolt Size (in.)	Drill Dia. (in.)	Thread Size (UNC)	Quantity Box	Quantity Carton
TBM1830	1/8 x 3	1/2	6 - 32	50	500
TBM1840	1/8 x 4	1/2	6 - 32	50	500
TBM3630	3/16 x 3	9/16	10 - 24	50	500
TBM3640	3/16 x 4	9/16	10 - 24	50	500
TBM3650	3/16 x 5	9/16	10 - 24	50	500
TBM3660	3/16 x 6	9/16	10 - 24	50	400
TBM1430	1/4 x 3	11/16	1/4 - 20	50	400
TBM1440	1/4 x 4	11/16	1/4 - 20	50	400
TBM1450	1/4 x 5	11/16	1/4 - 20	50	400
TBM1460	1/4 x 6	11/16	1/4 - 20	50	400
TBM3830	3/8 x 3	1	3/8 - 16	25	200
TBM3840	3/8 x 4	1	3/8 - 16	25	200
TBM3850	3/8 x 5	1	3/8 - 16	25	200
TBM3860	3/8 x 6	1	3/8 - 16	25	200