

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