

## Product Image



## Toggle Bolt

Toggle Bolts, or butterfly anchors, are a light to medium duty anchor intended to be used in hollow block, wallboard, plaster, plywood, and other hollow base materials. Once fully opened, Toggle Bolts significantly expand the surface area making contact with the back of the hollow wall. This spreads out the load of the fastened object, increasing the weight that can be secured. The maximum weight a Toggle Bolt supports, depends on the size of the bolt and the thickness of the substrate. To accommodate the Toggle, installation requires a relatively large hole compared to other types of hollow wall anchors.

## Allowable Load Capacities for Toggle Bolts

| PN#           | Screw Size | Drive Type       | 3/8" Drywall <sup>1,2,3</sup> |           | 1/2" Drywall <sup>1,2,3</sup> |           |
|---------------|------------|------------------|-------------------------------|-----------|-------------------------------|-----------|
|               |            |                  | Tension/lbs                   | Shear/lbs | Tension/lbs                   | Shear/lbs |
| 1/8" (6-32)   |            |                  |                               |           |                               |           |
| TBC82         | 1/8" x 2"  | Phillips/Slotted | 30                            | 30        | 40                            | 35        |
| TBC83         | 1/8" x 3"  | Phillips/Slotted | 30                            | 30        | 40                            | 35        |
| TBC84         | 1/8" x 4"  | Phillips/Slotted | 30                            | 30        | 40                            | 35        |
| TB82DS        | 1/8" x 2"  | Square/Slotted   | 30                            | 30        | 40                            | 35        |
| TB83DS        | 1/8" x 3"  | Square/Slotted   | 30                            | 30        | 40                            | 35        |
| TB84DS        | 1/8" x 4"  | Square/Slotted   | 30                            | 30        | 40                            | 35        |
| 3/16" (10-24) |            |                  |                               |           |                               |           |
| TBC362        | 3/16" x 2" | Phillips/Slotted | 35                            | 35        | 45                            | 50        |
| TBC363        | 3/16" x 3" | Phillips/Slotted | 35                            | 35        | 45                            | 50        |
| TBC364        | 3/16" x 4" | Phillips/Slotted | 35                            | 35        | 45                            | 50        |
| TBC366        | 3/16" x 6" | Phillips/Slotted | 35                            | 35        | 45                            | 50        |
| TB362DS       | 3/16" x 2" | Square/Slotted   | 35                            | 35        | 45                            | 50        |
| TB363DS       | 3/16" x 3" | Square/Slotted   | 35                            | 35        | 45                            | 50        |
| TB364DS       | 3/16" x 4" | Square/Slotted   | 35                            | 35        | 45                            | 50        |

1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.

2. The consistency of drywall varies greatly, these load capacities should be used as guidelines only.

3. Toggle wings must be in the fully "open" position to achieve the listed load capacities.

# TECHNICAL DATA SHEET



## Allowable Load Capacities for Toggle Bolts

| PN#                                                                                                                                                                                                                                                                                                | Screw Size | Drive Type       | 3/8" Drywall <sup>1,2,3</sup> |           | 1/2" Drywall <sup>1,2,3</sup> |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------------------|-----------|-------------------------------|-----------|
|                                                                                                                                                                                                                                                                                                    |            |                  | Tension/lbs                   | Shear/lbs | Tension/lbs                   | Shear/lbs |
| 1/4" - 20                                                                                                                                                                                                                                                                                          |            |                  |                               |           |                               |           |
| TBC42                                                                                                                                                                                                                                                                                              | 1/4" x 2"  | Phillips/Slotted | 55                            | 55        | 60                            | 60        |
| TBC43                                                                                                                                                                                                                                                                                              | 1/4" x 3"  | Phillips/Slotted | 55                            | 55        | 60                            | 60        |
| TBC44                                                                                                                                                                                                                                                                                              | 1/4" x 4"  | Phillips/Slotted | 55                            | 55        | 60                            | 60        |
| TBC45                                                                                                                                                                                                                                                                                              | 1/4" x 5"  | Phillips/Slotted | 55                            | 55        | 60                            | 60        |
| TBC46                                                                                                                                                                                                                                                                                              | 1/4" x 6"  | Phillips/Slotted | 55                            | 55        | 60                            | 60        |
| TB43DS                                                                                                                                                                                                                                                                                             | 1/4" x 3"  | Square/Slotted   | 55                            | 55        | 60                            | 60        |
| TB44DS                                                                                                                                                                                                                                                                                             | 1/4" x 4"  | Square/Slotted   | 55                            | 55        | 60                            | 60        |
| 3/8" - 16                                                                                                                                                                                                                                                                                          |            |                  |                               |           |                               |           |
| TBC383                                                                                                                                                                                                                                                                                             | 3/8" x 3"  | Phillips/Slotted | 60                            | 65        | 65                            | 75        |
| TBC384                                                                                                                                                                                                                                                                                             | 3/8" x 4"  | Phillips/Slotted | 60                            | 65        | 65                            | 75        |
| TBC385                                                                                                                                                                                                                                                                                             | 3/8" x 5"  | Phillips/Slotted | 60                            | 65        | 65                            | 75        |
| TBC386                                                                                                                                                                                                                                                                                             | 3/8" x 6"  | Phillips/Slotted | 60                            | 65        | 65                            | 75        |
| 1. Allowable load capacities listed are calculated using an applied safety factor of 4.0.<br>2. The consistency of drywall varies greatly, these load capacities should be used as guidelines only.<br>3. Toggle wings must be in the fully "open" position to achieve the listed load capacities. |            |                  |                               |           |                               |           |