SNAPTOGGLE® Heavy-Duty Toggle Bolts

Description
SNAPTOGGLE heavy-duty toggle bolts carry twice the load in a smaller hole than standard wing anchors. A patented strap design with sturdier straps and smaller ratchet interval adjusts more precisely and snaps off flush to the surface. SNAPTOGGLE heavy-duty toggle bolts do NOT spin when installed with a screw gun and provide superior holding with metal-to-metal fastening.

Key Features & Benefits
- **Strong** – up to 2x the load of an old-fashioned wing toggle
- Solid metal channel **resists vibration and shock**
  - bolt is centered in channel and positioned for precise installation
  - bolt threads never touch interior surface of hole and so can’t saw through substrate
- **Save time** – at least 6 minutes per anchor versus wing toggles
- Can use a screw gun – anchor **does not spin**
- **Save money** – turn a 2-person job into a 1-person job
- Use a **shorter bolt** – no need to carry a wing through the wall
- Patented strap design with sturdier straps and smaller ratchet interval:
  - adjusts more precisely and **snaps off flush** to wall, ceiling, or floor
  - does not break prematurely
  - pushes aside insulation
- **Smallest installation hole** for each bolt size:
  - maintains integrity of wall, ceiling, or floor, strengthening the anchoring
  - ends the need to patch an oversized hole
  [a 1/4” wing toggle requires a 3/4” diameter hole: 50% larger than the 1/2” diameter hole used by the 1/4” SNAPTOGGLE anchor]

Specifications, Listings and Approvals

Materials:
- **Metal channel**: trivalent zinc-plated cold rolled steel or 304 stainless steel
- **Straps and handle**: high-impact polystyrene
- **Cap**: translucent polypropylene copolymer

**Plating**: Plating: ASTM B633, SC1, Type III, (Fe/Zn 5)

**Federal Specifications**: FF-B-588D, Type V

**Minimum screw length**: thickness of wall or ceiling + thickness of item being fastened + 1/2”

**Minimum clearance behind wall**: 1-7/8”

**Grip Range**:
- 3/8” - 3-5/8” = BA & BB
- 3/8” - 2-1/2” = BC, BD & BE
- 2” - 9-1/2” = BAL & BBL

**Specs**:
- No MSDS required
- ADA Compliant
- OSHPD Compliant
SNAPTOGGLE® Heavy-Duty Toggle Bolts

Key Features & Benefits (continued)

- New plating is 7x more corrosion-resistant than B633-85 Type III/SC 1 government spec high quality zinc plating [350 hours to red rust in salt spray test versus only 48 hours for government spec]
- **Pre-installs without the bolt** to make handling of fixture easier
- **Reusable** in the same hole – remove the bolt without losing the anchor
- New **ergonomic design** – fingers grip straps more naturally and more easily with no slipping

Benefits Compared To Wing Toggles:
- Holds up to 2x the load
- Solid metal channel resists vibration & shock
- Pre-assembled and ready for immediate use
- Pre-installs without fixture or bolt
- Installs in a significantly smaller hole
- Automatically adjusts to thickness of wall, ceiling, or floor
- Does NOT spin—bolt installs with a screw gun
- Uses a shorter bolt—no need to carry a wing
- New plating is 7 times more corrosion-resistant
- Does NOT fall behind wall when bolt is removed; fixture can be removed and reinstalled as often as desired

Applications

- Cinder block
- Concrete block
- Gypsum board
- Drywall
- Tile over drywall
- Plasterboard
- Composite panels
- Cement board
- Greenboard
- Plaster
- Stucco
- Fiberglass
- Plywood
- Steel plate
- Plastic
- Wood studs/beams

Installation Information

Instructions

1. Drill appropriate size hole. Hold metal channel flat alongside plastic straps & slide channel through the hole. Minimum clearance behind wall: only 1-7/8”.

2. Hold ends of straps together between thumb & forefinger and pull toward you until channel rests behind wall. Ratchet cap along straps with other hand until flange of cap is flush with wall.

3. Place thumb between straps at wall. Push thumb side to side, snapping off straps level with flange of cap.

4. Place item over flange. Insert bolt and tighten until snug against item, then stop. Use machine screw or bolt to match thread in metal channel.

**Note:** Maximum torque on screw or rod is 5 ft-lb.
### Installation Data

**a = anchoring channel / zinc-plated cold rolled steel or 304 series stainless steel**

**b = straps / high-impact polystyrene / locking ratchet**

**c = cap / translucent polypropylene copolymer**

**d = ergonomic handle / same as straps**

### UNC - Imperial

<table>
<thead>
<tr>
<th>Steel Style</th>
<th>Stainless Style</th>
<th>Drill Bit Dia.</th>
<th>Thread Size (UNC)</th>
<th>Threads Per Anchor</th>
<th>Grip Range</th>
<th>Minimum Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>BAS</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>2.8</td>
<td>3/8&quot; - 3-5/8&quot;</td>
<td>1-7/8&quot;</td>
</tr>
<tr>
<td>BB</td>
<td>BBS</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>2.5</td>
<td>3/8&quot; - 3-5/8&quot;</td>
<td>1-7/8&quot;</td>
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<tr>
<td>BE</td>
<td>3/4&quot;</td>
<td>5/16 - 18</td>
<td>2.8</td>
<td>3/8&quot; - 2-1/2&quot;</td>
<td>1-7/8&quot;</td>
<td></td>
</tr>
<tr>
<td>BC</td>
<td>BCS</td>
<td>3/4&quot;</td>
<td>3/8 - 16</td>
<td>2.4</td>
<td>3/8&quot; - 2-1/2&quot;</td>
<td>1-7/8&quot;</td>
</tr>
<tr>
<td>BD</td>
<td>BDS</td>
<td>3/4&quot;</td>
<td>1/2 - 13</td>
<td>2.25</td>
<td>3/8&quot; - 2-1/2&quot;</td>
<td>1-7/8&quot;</td>
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<tr>
<td>BAL*</td>
<td>BALS*</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>2.8</td>
<td>2&quot; - 9-1/2&quot;</td>
<td>1-7/8&quot;</td>
</tr>
<tr>
<td>BBL*</td>
<td>BBLS*</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>2.5</td>
<td>2&quot; - 9-1/2&quot;</td>
<td>1-7/8&quot;</td>
</tr>
</tbody>
</table>

*Long straps (L) for roofing and very thick walls or ceilings

### Metric

<table>
<thead>
<tr>
<th>Steel Style</th>
<th>Stainless Style</th>
<th>Drill Bit Dia.</th>
<th>Thread Size (ISO)</th>
<th>Threads Per Anchor</th>
<th>Grip Range</th>
<th>Minimum Clearance</th>
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<tbody>
<tr>
<td>BM5</td>
<td>BM5S</td>
<td>13mm</td>
<td>M5 x 0.8</td>
<td>3.8</td>
<td>10-92mm</td>
<td>48mm</td>
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<td>BM6</td>
<td>BM6S</td>
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<td>M6 x 1.0</td>
<td>3.1</td>
<td>10-92mm</td>
<td>48mm</td>
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<tr>
<td>BM8</td>
<td>BM8S</td>
<td>19mm</td>
<td>M8 x 1.25</td>
<td>3.1</td>
<td>10-64mm</td>
<td>48mm</td>
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<tr>
<td>BM10</td>
<td>BM10S</td>
<td>19mm</td>
<td>M10 x 1.5</td>
<td>2.75</td>
<td>10-64mm</td>
<td>48mm</td>
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<tr>
<td>BM5L*</td>
<td>BM5LS*</td>
<td>13mm</td>
<td>M5 x 0.8</td>
<td>3.8</td>
<td>51-240mm</td>
<td>48mm</td>
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<tr>
<td>BM6L*</td>
<td>BM6LS*</td>
<td>13mm</td>
<td>M6 x 1.0</td>
<td>3.1</td>
<td>51-240mm</td>
<td>48mm</td>
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</tbody>
</table>

*Long straps (L) for roofing and very thick walls or ceilings

### Performance Data

#### Ultimate Tensile Pull-Out Values (lbs.)

<table>
<thead>
<tr>
<th>Anchor Type</th>
<th>Thread Size (UNC)</th>
<th>Drill Bit Dia.</th>
<th>1/2&quot; Drywall</th>
<th>5/8&quot; Drywall</th>
<th>*1/2&quot; With 25 Gauge Stud</th>
<th>*5/8&quot; With 25 Gauge Stud</th>
<th>Concrete Block</th>
<th>1/2&quot; Steel Plate</th>
<th>Stainless In 1/2&quot; Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>3/16 - 24</td>
<td>1/2&quot;</td>
<td>238</td>
<td>356</td>
<td>412</td>
<td>462</td>
<td>802</td>
<td>918</td>
<td>1,193</td>
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<tr>
<td>BB</td>
<td>1/4 - 20</td>
<td>1/2&quot;</td>
<td>265</td>
<td>356</td>
<td>425</td>
<td>464</td>
<td>1,080</td>
<td>1,288</td>
<td>1,735</td>
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<tr>
<td>BE</td>
<td>5/16 - 18</td>
<td>3/4&quot;</td>
<td>270</td>
<td>480</td>
<td>439</td>
<td>480</td>
<td>1,400</td>
<td>1,680</td>
<td>2,118</td>
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<tr>
<td>BC</td>
<td>3/8 - 16</td>
<td>3/4&quot;</td>
<td>275</td>
<td>576</td>
<td>466</td>
<td>576</td>
<td>1,745</td>
<td>1,692</td>
<td>2,523</td>
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<tr>
<td>BD</td>
<td>1/2 - 13</td>
<td>3/4&quot;</td>
<td>275</td>
<td>576</td>
<td>468</td>
<td>576</td>
<td><strong>2,038</strong></td>
<td>2,605</td>
<td>3,150</td>
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</tbody>
</table>

* Failure measured as breakage of drywall portion
** Failure of block

1 Stainless steel bolts used
2 Hardened bolts used
3 Stainless steel channel tested with stainless bolts in 1/2" steel plate

#### Ultimate Shear (lbs.)

<table>
<thead>
<tr>
<th>Anchor Type</th>
<th>Thread Size (UNC)</th>
<th>Drill Bit Dia.</th>
<th>1/2&quot; Drywall</th>
<th>5/8&quot; Drywall</th>
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<tbody>
<tr>
<td>BA</td>
<td>3/16 - 24</td>
<td>1/2&quot;</td>
<td>247</td>
<td>298</td>
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<tr>
<td>BB</td>
<td>1/4 - 20</td>
<td>1/2&quot;</td>
<td>241</td>
<td>324</td>
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<tr>
<td>BC</td>
<td>3/8 - 16</td>
<td>3/4&quot;</td>
<td>292</td>
<td>406</td>
</tr>
</tbody>
</table>

Notes:
- Industry standards recommend 1/4 of ultimate test load.
- Holding strength for a SNAPTOGGLE heavy-duty hollow-wall anchor varies directly with the strength and condition of the substrate and the bolt size—and inversely with variations in hole diameter and the distance of the load from the wall.
- All figures in pounds. Pull-out values based on independent laboratory tests done according to U.S. Government standards. They should be used as guides only and cannot be guaranteed. The age, condition, and capacity of the substrate must be considered.
## Order Information

- **SNAPTOGGLE® Heavy-Duty Toggle Bolts**

### Catalog No. | Style | Drill Bit Dia. | Thread Size | Bolts Included | Box/Bag (pcs.) | Master Carton (pcs.)
--- | --- | --- | --- | --- | --- | ---
24013 | BA | 1/2" | 3/16 - 24 | – | 100 | 1000
25013 | BA | 1/2" | 3/16 - 24 | – | 50 | 500
50375 | BA | 1/2" | 3/16 - 24 | 3/16 - 24 x 2-1/2" | 10 | 120
50350 | BA | 1/2" | 3/16 - 24 | 3/16 - 24 x 2-1/2" | 2 | 200
24014 | BB | 1/2" | 1/4 - 20 | – | 100 | 1000
25014 | BB | 1/2" | 1/4 - 20 | – | 50 | 500
50425 | BB | 1/2" | 1/4 - 20 | 1/4 - 20 x 2-1/2" | 10 | 120
50400 | BB | 1/2" | 1/4 - 20 | 1/4 - 20 x 2-1/2" | 2 | 200
21017 | BE | 3/4" | 5/16 - 18 | – | 25 | 250
21015 | BC | 3/4" | 3/8 - 16 | – | 25 | 250
21016 | BD | 3/4" | 1/2 - 13 | – | 25 | 250
25029 | BM5 Metric | 13mm | M5 x 0.8 | – | 50 | 500
25024 | BM6 Metric | 13mm | M6 x 1.0 | – | 50 | 500
21031 | BM8 Metric | 19mm | M8 x 1.25 | – | 25 | 250
21035 | BM10 Metric | 19mm | M10 x 1.5 | – | 25 | 250
21049 | BAL Long | 1/2" | 3/16 - 24 | – | 50 | 500
21050 | BBL Long | 1/2" | 1/4" - 20 | – | 50 | 500
21064 | BM5L Metric Long | 13mm | M5 x 0.8 | – | 50 | 500
21025 | BM6L Metric Long | 13mm | M6 x 1.0 | – | 50 | 500

**Zinc-Plated Carbon Steel**

**All bags and boxes must be purchased in master carton quantities, except for stainless steel boxes, long toggle bolts and metric sizes.**
### Type 304 Stainless Steel**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Style</th>
<th>Drill Bit Dia.</th>
<th>Thread Size</th>
<th>Bolts Included</th>
<th>Box/Bag (pcs.)</th>
<th>Master Carton (pcs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24020</td>
<td>BAS</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>–</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>25020</td>
<td>BAS</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>–</td>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>50435</td>
<td>BAS</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>3/16 - 24 x 2-1/2&quot;</td>
<td>2</td>
<td>200</td>
</tr>
<tr>
<td>24021</td>
<td>BBS</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>–</td>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>25021</td>
<td>BBS</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>–</td>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>50440</td>
<td>BBS</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>1/4 - 20 x 2-1/2&quot;</td>
<td>2</td>
<td>200</td>
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<tr>
<td>21022</td>
<td>BCS</td>
<td>3/4&quot;</td>
<td>3/8 - 16</td>
<td>–</td>
<td>25</td>
<td>250</td>
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<tr>
<td>21023</td>
<td>BDS</td>
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<td>1/2 - 13</td>
<td>–</td>
<td>25</td>
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<tr>
<td>25030</td>
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<td>50</td>
<td>500</td>
</tr>
<tr>
<td>25026</td>
<td>BM6S Metric</td>
<td>13mm</td>
<td>M6 x 1.0</td>
<td>–</td>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>21032</td>
<td>BM8S Metric</td>
<td>19mm</td>
<td>M8 x 1.25</td>
<td>–</td>
<td>25</td>
<td>250</td>
</tr>
<tr>
<td>21036</td>
<td>BM10S Metric</td>
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<td>M10 x 1.5</td>
<td>–</td>
<td>25</td>
<td>250</td>
</tr>
<tr>
<td>21059</td>
<td>BALS Long</td>
<td>1/2&quot;</td>
<td>3/16 - 24</td>
<td>–</td>
<td>50</td>
<td>500</td>
</tr>
<tr>
<td>21060</td>
<td>BBLS Long</td>
<td>1/2&quot;</td>
<td>1/4 - 20</td>
<td>–</td>
<td>50</td>
<td>500</td>
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<tr>
<td>21065</td>
<td>BM5LS Metric Long</td>
<td>13mm</td>
<td>M5 x 0.8</td>
<td>–</td>
<td>50</td>
<td>500</td>
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<tr>
<td>21061</td>
<td>BM6LS Metric Long</td>
<td>13mm</td>
<td>M6 x 1.0</td>
<td>–</td>
<td>50</td>
<td>500</td>
</tr>
</tbody>
</table>

**All bags and boxes must be purchased in master carton quantities, except for stainless steel boxes, long toggle bolts and metric sizes.