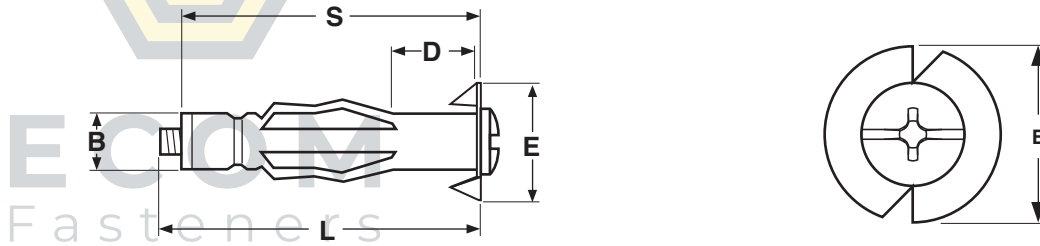


Regular Style

HOLLOW WALL, STEEL



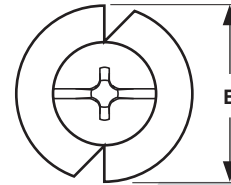
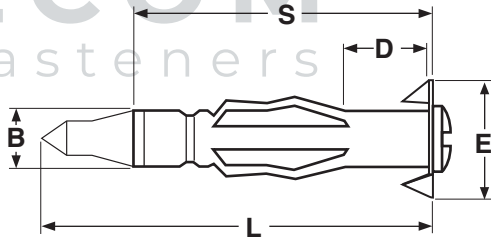
SCREW EXPANSION SHIELD HOLLOW WALL ANCHORS, STEEL

| B notes Diam. | Screw Size | Hole Size | E | D | S | Grip Range | | Performance in Plywood | | | Performance in Drywall | | |
|-----------------|----------------|-----------|--------------|---------------|----------------------|------------|-------|------------------------|----------|-------|------------------------|----------|-------|
| | | | Collar Diam. | Sleeve Length | Overall Shell Length | | | Material Thickness | Pull-out | Shear | Material Thickness | Pull-out | Shear |
| | | | Ref | Ref | Ref | Max | Min | Inches | Lbs. | Lbs. | Inches | Lbs. | Lbs. |
| 1/8 Extra Short | 6-32 x 1 | 5/16 | 1/2 | 3/16 | 25/32 | 1/4 | 1/16 | 1/8 | 110 | 100 | - | - | - |
| | | | | | | | | 1/4 | 125 | 450 | | | |
| 1/8 Short | 6-32 x 1 1/2 | 5/16 | 1/2 | 3/8 | 1 1/4 | 1/2 | 1/8 | 1/4 | 65 | 350 | 1/4 | 25 | 190 |
| | | | | | | | | 1/2 | 300 | 425 | 1/2 | 90 | 165 |
| 1/8 Long | 6-32 x 2 | 5/16 | 1/2 | 3/4 | 1 11/16 | 7/8 | 5/8 | 5/8 | 430 | 450 | 5/8 | 130 | 205 |
| | | | | | | | | 7/8 | 450 | 450 | 7/8 | 145 | 275 |
| 1/8 Extra Long | 6-32 x 2-1/2 | 5/16 | 1/2 | 1 3/8 | 2 1/4 | 1 1/2 | 1 1/4 | 1 1/4 | 500 | 450 | 1 1/4 | 260 | 320 |
| 3/16 Short | 10-24 x 2-1/4 | 3/8 | 5/8 | 3/8 | 2 1/16 | 5/8 | 1/8 | 1/4 | 65 | 550 | 1/4 | 25 | 230 |
| | | | | | | | | 5/8 | 475 | 635 | 5/8 | 135 | 300 |
| 3/16 Long | 10-24 x 2-3/4 | 3/8 | 5/8 | 7/8 | 2 9/16 | 1 3/16 | 5/8 | 5/8 | 500 | 640 | 5/8 | 135 | 305 |
| | | | | | | | | 1 1/8 | 605 | 730 | 1 1/8 | 260 | 485 |
| 3/16 Extra Long | 10-24 x 3-1/2 | 3/8 | 5/8 | 1 1/2 | 3 3/16 | 1 3/4 | 1 1/4 | 1 1/4 | 660 | 765 | 1 1/4 | 300 | 490 |
| 1/4 Short | 1/4-20 x 2 1/4 | 1/2 | 11/16 | 3/8 | 2 1/16 | 5/8 | 1/8 | 1/4 | 65 | 600 | 1/4 | 25 | 240 |
| | | | | | | | | 5/8 | 500 | 850 | 5/8 | 140 | 300 |
| 1/4 Long | 1/4-20 x 2 3/4 | 1/2 | 11/16 | 7/8 | 2 9/16 | 1 3/16 | 5/8 | 5/8 | 560 | 900 | 5/8 | 155 | 330 |
| | | | | | | | | 1 1/8 | 720 | 1000 | 1 1/8 | 165 | 550 |
| 1/4 Extra Long | 1/4-20 x 3-1/2 | 1/2 | 11/16 | 1 1/2 | 3 3/16 | 1 3/4 | 1 1/4 | 1 1/4 | 765 | 1220 | 1 1/4 | 200 | 575 |

| | |
|---------------------------------|---|
| Description | A three-piece fastener consisting of (1) a cylindrical expander shell with longitudinal sections of its shank removed—this design allows the shell to be pulled toward the head and form anchoring legs on the blind side of the assembly. The shell has a threaded opening at one end and a flanged collar at the opposite end with an opening sufficiently large enough to allow a screw to pass to the threaded opening. The flange of the collar has prongs which dig into the bearing surface at the front end of the assembly; (2) a combo-drive pan head screw; (3) either a fiber or steel flat washer. |
| Applications/ Advantages | Steel hollow wall anchors are considered to be light-duty anchors. They require a pre-drilled hole and may be used in drywall, sheetrock, plaster or paneling. When properly installed, they will not crack or crumble the wall material and resist vibration. The machine screw may be removed and inserted multiple times to accommodate an exchange of fixtures. |
| Material | <i>Shell:</i> AISI C1008 - 1010 or equivalent cold-rolled steel <i>Screw:</i> Carbon steel with a minimum tensile strength of 60,000 psi. |
| Pullout Values | Expansion sleeve hollow wall anchors shall not be removable or show evidence of failure when subjected to axially applied proof loads as specified in the above table. The safe working load is one-fourth the average pullout values listed above. |
| Shear Strength | The safe working load is one-fourth the average shear values listed above. |
| Plating | See Appendix-A for plating information. |

HOLLOW WALL, STEEL Drive Style

ECOM
Fasteners



| DRIVE STYLE EXPANSION SHIELD HOLLOW WALL ANCHORS--STEEL | | | | | | | | | | | | | |
|---|----------------|-----------|--------------|---------------|----------------------|------------|------|------------------------|---------|-------|------------------------|---------|-------|
| B notes Diam. | Screw Size | Hole Size | E | D | S | Grip Range | | Performance in Plywood | | | Performance in Drywall | | |
| Anchor Size | Diam x L | | Collar Diam. | Sleeve Length | Overall Shell Length | | | Material Thickness | Pullout | Shear | Material Thickness | Pullout | Shear |
| | | | Ref | Ref | Ref | Max | Min | Inches | Lbs. | Lbs. | Inches | Lbs. | Lbs. |
| 1/8 Extra Short | 6-32 x 1-11/32 | 5/16 | 1/2 | 3/16 | 25/32 | 1/4 | 1/16 | 1/8 | 110 | 100 | - | - | - |
| | | | | | | | | 1/4 | 125 | 450 | | | |
| 1/8 Short | 6-32 x 1-25/32 | 5/16 | 1/2 | 3/8 | 1 1/4 | 1/2 | 1/8 | - | - | - | 3/8 | 25 | 90 |
| 1/8 Long | 6-32 x 2-11/32 | 5/16 | 1/2 | 3/4 | 1 11/16 | 7/8 | 5/8 | 5/8 | 430 | 450 | 5/8 | 130 | 205 |
| | | | | | | | | 7/8 | 450 | 450 | 7/8 | 145 | 275 |
| 1/8 Extra Long** | 6-32 x 2-11/32 | 5/16 | 1/2 | 3/8 | 1 13/16 | 1 1/2 | 1/8 | - | - | - | 5/8 | 85 | 175 |

ECOM

| | |
|---------------------------------|--|
| Description | A three-piece fastener consisting of (1) a cylindrical expander shell with longitudinal sections of its shank removed--this design allows the shell to be pulled toward the head and form anchoring legs on the blind side of the assembly. The shell has a threaded opening at one end and a flanged collar at the opposite end with an opening sufficiently large enough to allow a screw to pass to the threaded opening. The flange of the collar has prongs which dig into the bearing surface at the front end of the assembly; (2) a combo-drive pan head screw; (3) either a fiber or steel flat washer. |
| Applications/ Advantages | Steel hollow wall anchors are considered to be light-duty anchors. They require a pre-drilled hole and may be used in drywall, sheetrock, plaster or paneling. When properly installed, they will not crack or crumble the wall material and resist vibration. The machine screw may be removed and inserted multiple times to accommodate an exchange of fixtures. |
| Material | <i>Shell:</i> AISI C1008 - 1010 or equivalent cold-rolled steel <i>Screw:</i> Carbon steel with a minimum tensile strength of 60,000 psi. |
| Pullout Values | Expansion sleeve hollow wall anchors shall not be removable or show evidence of failure when subjected to axially applied proof loads as specified in the above table. The safe working load is one-fourth the average pullout values listed above. |
| Shear Strength | The safe working load is one-fourth the average shear values listed above. |
| Plating | See Appendix-A for plating information. |

