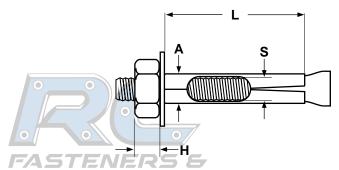
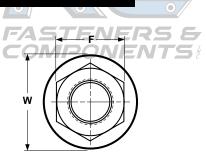
Sleeve Anchor







| SLEEVE ANCHORS, HEX HEAD FF-S-325, Group II, Type 3, Class 3 | | | | | | | | | | |
|---|-------------------------|---|--|--|---|--|-------------------|--------------------|--------------------|--------------------|
| н | F | W | Drill Fixture Diameter Clearance | | S | Required Torque | | Tensile | Shear | |
| Nut Height | Head Width | Washer O.D. | | Clearance | Minimum Embedment | Thread Size of Stud | to Set (Ft. Lbs.) | | Strength (psi.) | Strength (psi.) |
| Ref | Ref | Ref | | | | | Carbon Steel | Stainless Steel | 4000 psi. Strei | |
| 7/32 | 7/16 | 5/8 | 5/16 | 3/8 | 1 3/8 | 1/4-20 | 8 | - | - | - |
| 1702 | 7710 | 0/0 | 0/10 | 0/0 | 1 1/2 | | | | 1750 | 2015 |
| 17/64 | 1/2 | 13/16 | 3/8 | 7/16 | 1 5/8 | 5/16-18 | 16 | 11 | 2700 | 3250 |
| | | | | | 2 1/8 | | | | - | - |
| 21/64 | 9/16 | 1 | 1/2 | 9/16 | 2 1/4 | 3/8-16 | 28 | 20 | 5015 | 6372 |
| | | | | | 2 1/8 | | 0 | 0 | - 0 | - |
| 7/16 | 3/4 | 1 3/8 | 5/8 | 11/16 | | 1/2-13 | - 60 S | 742- | IFDS | 5 |
| ., 10 | 5 , 1 | 1 3/0 | 0,0 | 1 1,710 | 2 3/4 | | | | 6345 | 10,255 |
| | | | | | | | | | | |
| | | | | | 2 1/8 | | | | - | - |
| 35/64 | 15/16 | 1 3/4 | 3/4 | 15/16 | 3 3/8 | 5/8-11 | 90 | 60 | 9135 | 12,800 |
| | H Nut Height Ref 7/32 | H F Nut Head Height Width Ref Ref 7/32 7/16 17/64 1/2 21/64 9/16 7/16 3/4 | H F W Nut Head Washer O.D. Ref Ref Ref 7/32 7/16 5/8 17/64 1/2 13/16 21/64 9/16 1 7/16 3/4 1 3/8 | H F W Nut Head Washer O.D. Ref Ref Ref 7/32 7/16 5/8 5/16 17/64 1/2 13/16 3/8 21/64 9/16 1 1/2 7/16 3/4 1 3/8 5/8 | H F W Drill Diameter Fixture Clearance Hole | H F W Nut Head Washer O.D. Drill Diameter Clearance Hole Minimum Embedment Ref Ref Ref 5/16 3/8 1 1/2 17/64 1/2 13/16 3/8 7/16 1 5/8 21/64 9/16 1 1/2 9/16 2 1/8 7/16 3/4 1 3/8 5/8 11/16 2 3/4 35/64 15/16 1 3/4 3/4 15/16 | H | H | H | H |

| Description | A device for giving stability to one part of a structure by making it fast to another consisting of (A) a threaded stud with a conical end flared outward; (B) a hollow, cylindrical dilating sleeve assembled over the stud and positioned against the minor diameter of the cone; (C) a washer and hex nut assembled at the end opposite the cone. | | | | | | |
|-----------------------------|--|---|--|--|--|--|--|
| Applications/ Advantages | The anchor works by expanding against the material in which it is embedded. When the hex nut is tightened the conical end is pulled into the dilating sleeve pushing it outward 360° around the anchor into the masonry. They are designed to be used in solid or hollow masonry, including cinder block, brick, marble and concrete. One advantage of the sleeve anchor is that it can be removed after it's been installed. Another is that the length of the sleeve induces less stress on the substrate than does a wedge anchor. It is well-suited for permanently anchoring heavy equipment to concrete. | | | | | | |
| | Steel | FAST Stainless ERS & | | | | | |
| Material | Threaded Bolt: AISI 1010 - 1018 cold rolled steel Sleeve: AISI 1008 cold rolled steel Nut: Shall be made from a low carbon steel which conforms to the following chemical composition requirements: Carbon- 0.58% maximum; Phosphorus- 0.13% maximum; Sulfur- 0.23% maximum Washer: AISI 1008 - 1010 cold rolled steel | Threaded Bolt: 18-8 stainless steel Sleeve: Type 304 stainless steel Nut: Type 304 stainless steel Washer: 18-8 stainless steel | | | | | |
| Anchor Spacing | Anchors should be installed with a minimum of 10 anchor diameters between each other and a minimum of 5 diameters from the edge. | | | | | | |
| Tensile Strength | The suggested safe working load is one-fourth of the average proof test load shown in the above table. | | | | | | |
| Shear Strength | The suggested safe working load is one-fourth of the average proof test load shown in the above table. | | | | | | |
| Plating | Steel sleeve anchors are usually supplied plated zinc. | Stainless sleeve anchors usually have no additional finish applied. | | | | | |