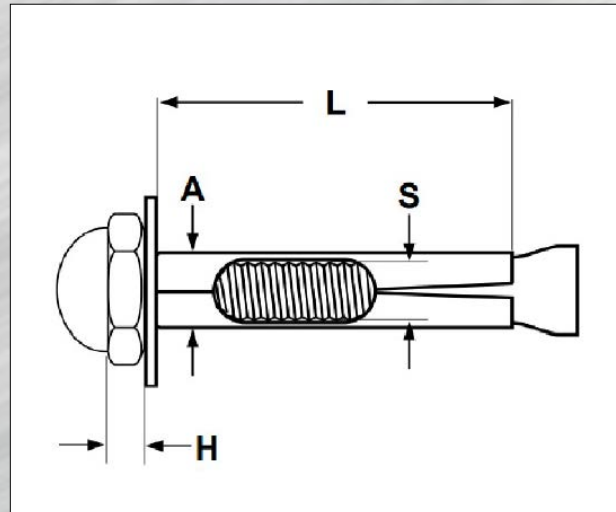




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ACORN NUT STYLE SLEEVE ANCHORS



A x L	H	F	W			S	Requirement	Tensile	Shear	
Anchor Diameter x Length	Nut Side Height	Head Width	Washer O.D.	Drill Diameter	Fixture Clearance Hole	Minimum Embedment	Torque to Set (Ft. Lbs.)	Strength (PSI)	Strength (PSI)	
	Ref.	Ref.	Ref.			Thread Size of Stud	Carbon Steel	Stainless Steel	4000 PSI Concrete Strength	
1/4 X 5/8						1/2			-	-
1/4 X 1-3/8	3/16	3/8	1/2	1/4	5/16	1-1/8	4	3	1440	1630
1/4 X 2-1/4										



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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 low-crown cap nut assembled at the end opposite the cone.

APPLICATION / ADVANTAGES: The anchor works by expanding against the material in which it is embedded. When the flat head is turned clockwise 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 anchors 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. The acorn nut variety is preferred when a decorative finished look is desired (i.e. attaching theatre seating to the floor).

MATERIAL:

STEEL		STAINLESS STEEL	
Acorn Nut:	AISI 1010 - 1018 Steel	Acorn Nut:	Type 304 Stainless Steel
Washer:	Hot-Rolled, Hot-Rolled & Picked, or Cold-Rolled Steel	Washer:	18-8 Stainless Steel
Threaded Bolt:	AISI 1010 - 1018 Steel	Threaded Bolt:	18-8 Stainless Steel
Sleeve:	AISI 1010 - 1020 Steel	Sleeve:	Type 304 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 & 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.