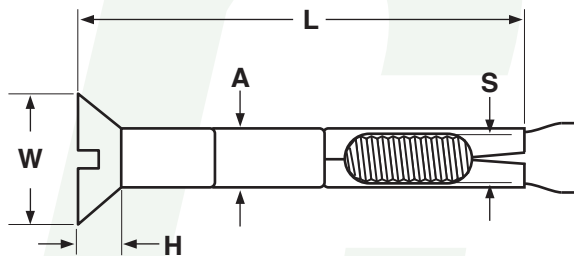


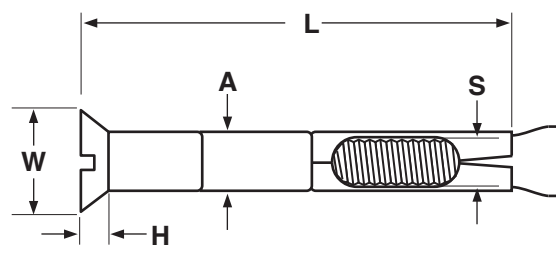
ANCHORS

SLEEVE

Flat & Threshold Flat Head



Flat Head



Threshold Flat Head

SLEEVE ANCHORS, FLAT HEAD										FF-S-325, Group II, Type 3, Class 3	
A x L	H	W	Drill Diameter	Fixture Clearance Hole	Minimum Embedment	S	Required Torque to Set (Ft. Lbs.)		Tensile Strength (psi.)	Shear Strength (psi.)	
Anchor Diam x Length	Head Height	Head Width					Carbon Steel	Stainless Steel			4000 psi. Concrete Strength
	Ref	Ref				Thread Size of Stud					
1/4 x 2	5/32	1/2	1/4	5/16	1 1/8	10-24	4	3	1440	1630	
1/4 x 3											
1/4 x 4											
3/8 x 2 3/4	15/64	3/4	3/8	7/16	1 5/8	5/16-18	16	11	2700	3250	
3/8 x 4											
3/8 x 5											
3/8 x 6											

SLEEVE ANCHORS, THRESHOLD FLAT HEAD										FF-S-325, Group II, Type 3, Class 3	
A x L	H	W	Drill Diameter	Fixture Clearance Hole	Minimum Embedment	S	Required Torque to Set (Ft. Lbs.)	Tensile Strength (psi.)	Shear Strength (psi.)		
Anchor Diam x Length	Head Height	Head Width								Carbon Steel	4000 psi. Concrete Strength
	Ref	Ref				Thread Size of Stud					
1/4 x 2	5/64	23/64	1/4	5/16	1 1/8	10-24	4	1440	1630		

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 countersunk flat head at the end opposite the cone. The head height of the threshold flat head is less than a standard flat head sleeve anchor.	
Applications/ 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 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 anchoring windows and doorframes. The flat head is well-suited for anchoring windows and doorframes. The threshold flat head is specifically for anchoring thresholds and is only available in steel.	
Material	<i>Steel</i>	<i>Stainless</i>
	<i>Threaded Bolt:</i> AISI 1010 - 1018 steel <i>Sleeve:</i> AISI 1010 - 1020 steel	<i>Threaded Bolt:</i> 18-8 stainless steel <i>Sleeve:</i> 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 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	See Appendix-A for plating information.	