

WEDGE ANCHORS — STAINLESS STEEL (300 Series)



SPECIFICATIONS				PERFORMANCE									
Anchor Size (A) X (C)	Thread Length (B)	Drill Size (A) / Threads per inch	Guide Torque (ft - lbs)	2250 PSI		3000 PSI		4000 PSI		5000 PSI			
				Anchor Diameter	Embedment Depth (D)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)		
1/4" X 1-3/4"	3/4"	1/4" - 20 UNC	10	1/4"	1-1/8" min.	-	-	-	-	1466	3460	-	-
1/4" X 2-1/4"	1-1/4"												
1/4" X 3-1/4"	2-1/4"												
3/8" X 2-1/4"	1-1/8"	3/8" - 16 UNC	30	3/8"	1-5/8" min.	-	-	-	-	3650	4666	-	-
3/8" X 2-3/4"	1-1/2"												
3/8" X 3"	1-3/4"												
3/8" X 3-3/4"	2-1/2"												
3/8" X 5"	3-1/2"												
1/2" X 2-3/4"	1-1/2"	1/2" - 13 UNC	60	1/2"	2-1/4" min.	-	-	-	-	5517	8134	-	-
1/2" X 3-3/4"	2-1/4"												
1/2" X 4-1/4"	2-3/4"												
1/2" X 5-1/2"	3-1/4"												
1/2" X 7"	4"												
5/8" X 3-1/2"	1-1/2"	5/8" - 11 UNC	70	5/8"	2-7/8" min.	-	-	-	-	7600	12833	-	-
5/8" X 4-1/2"	2-1/2"												
5/8" X 5"	3"												
5/8" X 6"	4"												
5/8" X 7"	4"												
5/8" X 8-1/2"	1-1/2"												
3/4" X 4-1/4"	2"	3/4" - 10 UNC	120	3/4"	3-3/8" min.	-	-	-	-	10184	17533	-	-
3/4" X 4-3/4"	2-1/2"												
3/4" X 5-1/2"	3-1/4"												
3/4" X 6-1/4"	4"												
3/4" X 7"	4"												
3/4" X 8-1/2"	1-1/2"												
3/4" X 10"	1-1/2"												

SPECIAL TYPES

SPECIFICATIONS			PERFORMANCE									
Anchor Type Anchor Size (A) X (C)	Thread Length (B)	Drill Size (A) / Threads per inch	2250 PSI		3000 PSI		4000 PSI		5000 PSI			
			Anchor Diameter	Embedment Depth (D)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)	Ultimate Pullout (lbs)	Ultimate Shear (lbs)		
Accoustical Tie Wide Wedge 1/4" x 2"	1/4"	Suspended Ceilings, Lighting Fixtures or any Wire Connection up to 1/4" dia.	1/4"	1-1/8" min.	2459	1500	2710	1742	3059	2493	3407	3245
Tie Down Hook 3/8" x 4-1/4"	3/8"	Hold-Down for reinforcing Mesh, Steel Rod use in Concrete Restoration.	3/8"	1-5/8" min.	2987	2776	3534	3086	4264	5913	4994	8740

Test results shown are ultimate loads and are to be used as a guide only. Actual result may vary. It is recommended to apply a safety factor of 4 to 1 to these loads.
NOTE: Thread length on above sizes applied to cold formed bolts only. Thread length must be specified on other sizes when ordering.

WARNINGS

Installation instructions and warnings packaged with products must be followed precisely or holding power will be significantly lower. Safety goggles must be worn when working with all products.

All tests data given were from tests performed to ASTM E-488-81 conducted in normal weight, hard rock aggregate concrete of the specific strength with a 28 day cure time designated in each chart.

Ultimate values of tensile and shear loads shown in test data should be used purely as a guide. Actual results may vary and are dependent on such factors as concrete strength, concrete cure time, grade of steel, embedment depth, and proper installation. All drill sizes are per ANSI B94.12

Using mechanical anchors in concrete cured less than 28 days will greatly reduce anchor strength.

Note that concrete anchors must be installed at the recommended spacing and edge distance to obtain full working load.

General industry practice for static loads is to use a safety factor of 4:1 to obtain safe working loads. In all installations, it is recommended that tests to simulate actual conditions are to be carried out to determine the suitability of the products for a particular application

SPECIFICATIONS

Grade 2

Stud - AISI 1018 Carbon Steel

Clip - AISI 1008 Carbon Steel

Nut - Carbon Steel

Washer - Carbon Steel

Zinc Plating

ASTM B633, SCl, Type III

Stainless Steel

Stud - Type 304

Clip - Type 304

Nut - Type #18-8 (300 Series) Stainless Steel

Washer - Type #18-8 (300 Series) Steel

(Grade 5 and Type 316 Stainless Steel wedge anchors available upon special request)

SPECIFICATIONS:

For installations in concrete, the load capacity of an anchor usually increases as the compressive strength increases. The load capacities for anchors installed in concrete are published for various compressive strengths. Linear interpolation of data for intermediate compressive strengths is permissible.

For masonry unit base materials, the published load capacities should be used as a guide since the consistency of these materials varies widely. Job site tests are recommended for critical applications in these materials.

SUGGESTED ENGINEERING