



# Alumi-Flex™ 302 (18-8) Stainless Steel Drill Screws

For fastening to aluminum when corrosion and galvanic reaction are a primary concern



Stainless steel drill screws provide strength and corrosion resistance in a variety of aluminum applications.

### Specifications

- Diameters: #10 to 1/4"
- Lengths: 1/2" to 1-1/2"
- Head Style: Hex washer
- Drive System: Hex
- Point Types: #3 and #4
- Material: 302 stainless steel
- Finish: Stalgard® GB (Galvanic Barrier) coating

### Features & Benefits

- Provides a very high level of corrosion resistance
- Coating allows greater galvanic compatibility in dissimilar metal applications involving aluminum
- Head marked with a "3" for easy identification

Catalog No.	Description	Finish	Carton Quantity	Carton Weight
<b>#10 Diameter Hex Washer Head</b>				
EAH430	10-16 x 1/2"	Stalgard GB	8,000	51
EAH445	10-16 x 3/4"	Stalgard GB	6,000	46
EAH460	10-16 x 1"	Stalgard GB	5,000	45
<b>#10 Diameter, Undercut Flat Head</b>				
EBM160	10-16 x 3/4"	Stalgard GB	10,000	44
<b>#12 Diameter Hex Washer Head</b>				
EAH630	12-14 x 3/4"	Stalgard GB	5,000	40
EAH650	12-14 x 1"	Stalgard GB	5,000	52
EAH680	12-14 x 1-1/2"	Stalgard GB	3,000	44
<b>1/4" Diameter Hex Washer Head</b>				
EAH800	1/4-14 x 3/4"	Stalgard GB	3,500	51
EAH820	1/4-14 x 1"	Stalgard GB	3,000	48
EAH835	1/4-14 x 1-1/2"	Stalgard GB	2,000	41
EAH870	1/4-20 x 1"	Stalgard GB	2,000	35
EAH880	1/4-20 x 1-1/2"	Stalgard GB	2,000	42
<b>1/4" Diameter, Undercut Flat Head</b>				
EBM260	1/4-14 x 3/4"	Stalgard GB	4,500	42

**Note:** For aluminum applications **only**.

### Tensile Strength (Mechanical Characteristics)

Size	Pt.	Peak Load (Lbs. of Force)		PSI	
		Yield (Fy)	Ultimate (Fu)	Yield (Fy)	Ultimate (Fu)
#10-16	3	1,766	1,778	93,937	94,580
#12-14	3	2,300	2,320	93,268	94,061
1/4-14	3	3,180	3,197	97,888	98,433
1/4-20	4	3,225	3,266	101,438	102,709

### Shear (Lbs. of Force)

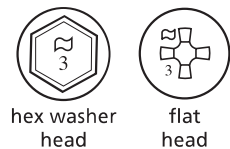
Lapped 6061 T6 Aluminum Strips

Size	Pt.	.060"	.090"	.125"	.187"	.250"	.312"	Ult. Shear Strength of Fastener
#10-16	3	834	1,275	1,306	–	–	–	1,152
#12-14	3	668	1,611	1,692	1,744	–	–	1,545
1/4-14	3	769	1,963	2,255	2,275	–	–	2,122
1/4-20	4	–	1,794	2,163	2,176	2,244	2,244	2,139

Elco test #1002278 Date: 8/21/2013

### Identification

The head marking consists of the number "3" below the Elco® logo.



### Pull-Out (Lbs. of Force)

6061 T6 Aluminum

Size	Pt.	.060"	.090"	.125"	.187"	.250"	.312"
#10-16	3	341	849	1,460	–	–	–
#12-14	3	347	859	1,533	2360*2	–	–
1/4-14	3	386	955	1,657	3205*1	3227*2	–
1/4-20	–	–	1,208	1,846	3291*2	3289*2	3299*2

### Mode of Failure Key

Unless noted, the MOF was Material Failure in all test samples  
\*1: 3 Test samples had material failure and seven samples had fastener failure

\*2: Fastener failure in all test samples