



Product Submittal/Substitution Request

TO:

PROJECT:

PROJECT LOCATION:

SPECIFIED ITEM:

Section

Page

Paragraph

Description

PRODUCT SUBMIT TAL / SUBSTITUTION REQUESTED:

The attached submittal package includes the product description, specifications, drawings, and performance data for use in the evaluation of the request.

SUBMITTED BY:

Name:

Signature:

Company:

Address:

Date:

Telephone:

Fax:

FOR USE BY THE ARCHITECT AND/OR ENGINEER

Approved

Approved as Noted

Not Approved

(If not approved, please briefly explain why the product was not accepted.)

By:

Date:

Remarks:



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
#10 Diameter Hex Washer Head				
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
#10 Diameter, Undercut Flat Head				
EBM160	10-16 x 3/4"	Stalgard GB	10,000	44
#12 Diameter Hex Washer Head				
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
1/4" Diameter Hex Washer Head				
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
1/4" Diameter, Undercut Flat Head				
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)

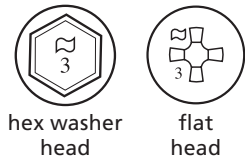
Lapped 6061 T6 Aluminum Strips

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