



Stainless Steel Fasteners









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ALFRX[®] Stainless Steel Fasteners

High Performance in Dissimilar Metal Applications

AllFlex[®] stainless steel thread cutting and self-tapping fasteners are made in the U.S.A. and have a proven success record in architectural applications around the world. They are the ideal fastening solution for curtain walls, windows, doors and other applications that include a dissimilar metal, such as aluminum. Stainless steel coupled with the Stalgard[®] GB coating gives AllFlex[®] superior protection in the harshest environments.

Stainless steel offers long-term corrosion resistance in aggressive environments such as coastal areas and other applications where moisture may accumulate. However, stainless steel is not always compatible when fastened to a different type of metal which may cause galvanic corrosion. To prevent this, each AllFlex® fastener is coated with Stalgard® GB (Galvanic Barrier) finish. Stalgard® GB provides far greater galvanic protection for aluminum components than plain finish 300 series stainless steel fasteners.

Combats Two Types of Corrosion

Uniform Corrosion is the general breakdown of a metal into an oxide of the metal or other corrosion product. The most common type of uniform corrosion is the visible formation of red rust on steel. 300 series stainless steel provides excellent resistance to uniform corrosion.

Galvanic Corrosion occurs when dissimilar metals are joined in the presence of an electrolyte like water. One metal will become the anode, or sacrificial component, and the other metal will be the cathode, or the metal that does not corrode. Stalgard[®] GB coating provides a galvanic barrier to protect aluminum from becoming sacrificial to the stainless fastener. Preserving the integrity of both the fastener and the application materials help prevent joint failure and retain high aesthetic quality.

Benefits

- Type B & AB Self Tapping screws, and Type F & 23 Thread Cutting screws, in aluminum components, eliminating tapping operations allowing for a faster installation
- Stalgard[®] GB coating prevents galvanic reaction between stainless steel fasteners and aluminum components
- Stainless steel offers long term corrosion resistance in aggressive environments, including coastal areas
- · Combination of features retains joint and material integrity to help ensure long-term quality

Applications:

- Curtain walls, including aluminum panels
- Windows and doors

- Structures in pool and spa areas
- Hurricane protection systems
- Buildings in a marine environment
 Explosion-control systems
- **Specifications:**

Materials – 302ss, 304ss, 316ss, 410ss, 430ss

Diameters - #8-3/8"

Head Styles and Drive Systems – Hex Washer, Phillips Pan, Phillips Flat, Phillips Flat Undercut, etc. (see chart) Thread and Point Styles – Type F & 23 Thread Cutting, Type AB & B Self Tapping, etc. (see chart) Finish – Stalgard[®] GB (Galvanic Barrier) coating Specials available upon request



High Performance in Dissimilar Metal Applications



SELECTION GUIDE

	Alloy Part #	Drive & Head Style	Description	Carton Quantity	
	AFC412	Hex Washer	1/4-20 × 3/4	3500	
TYPE F Thread Cutting	AFC416	Hex Washer	1/4-20 x 1	2500	
	AFC420	Hex Washer	1/4-20 x 1-1/4	2000	
	AFU216	Indented	Hex 10-24 x 1	5000	
	AFU520	Indented Hex	5/16-18 x 1-1/4	1500	
	AFH108	Phillips Flat	8-32 x 1/2	12000	
	AFH116	Phillips Flat	8-32 x l	7000	
	AFH212	Phillips Flat	10-32 x 3/4	6000	
	AFH416	Phillips Flat	1/4-20 x 1	2500	
	AFR208	Phillips Flat Undercut	10-24 x 1/2	8000	
	AFR308	Phillips Flat Undercut 12-24 x1/2		5000	
	AFR416	Phillips Flat Undercut	1/4-20 x 1	3000	
TYPE B	AFL316	Phillips Pan	12 x 1	4000	
SELF-TAPPING	AFB424	Hex Washer	14 x 1-1/2	2000	
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TYPE AB SELF-TAPPING	AFA212	Hex Washer	10 x 3/4	5000	
	AFA216	Hex Washer	10 x 1	5000	
	AFA312	Hex Washer	12 x 3/4	4000	
	AFA316	Hex Washer	12 x 1	4000	
	AFA324	Hex Washer	12 x 1-1/2	2500	
	AFA416	Hex Washer	4 x	2500	
	AFA420	Hex Washer	4 x - /4	2000	
	AFA424	Hex Washer	4 x - /2	2000	
	AFA524	Hex Washer	5/16 x 1-1/2	1200	
	AFA616	Hex Washer	3/8 x I	500	
	AFP416	Phillips Flat Undercut	4 x	2500	
	AFF316	Phillips Flat	12 x 1	4000	
	AFF324	Phillips Flat	2 x - /2	2500	
	AFF416	Phillips Flat	4 x	2500	
	AFF424	Phillips Flat	4 x - /2	2000	
	AFK312	Phillips Pan	12 x 3/4	4000	
	AFK324	Phillips Pan	2 x - /2	2500	
	AFK412	Phillips Pan	14 x 3/4	3500	
	AFK416	Phillips Pan	14 x 1	2500	
MACHINE SCREW	AFD520	Hex Washer	5/16-18 x 1-1/4	1250	
	AFD616	Hex Washer	3/8-16 x 1	600	

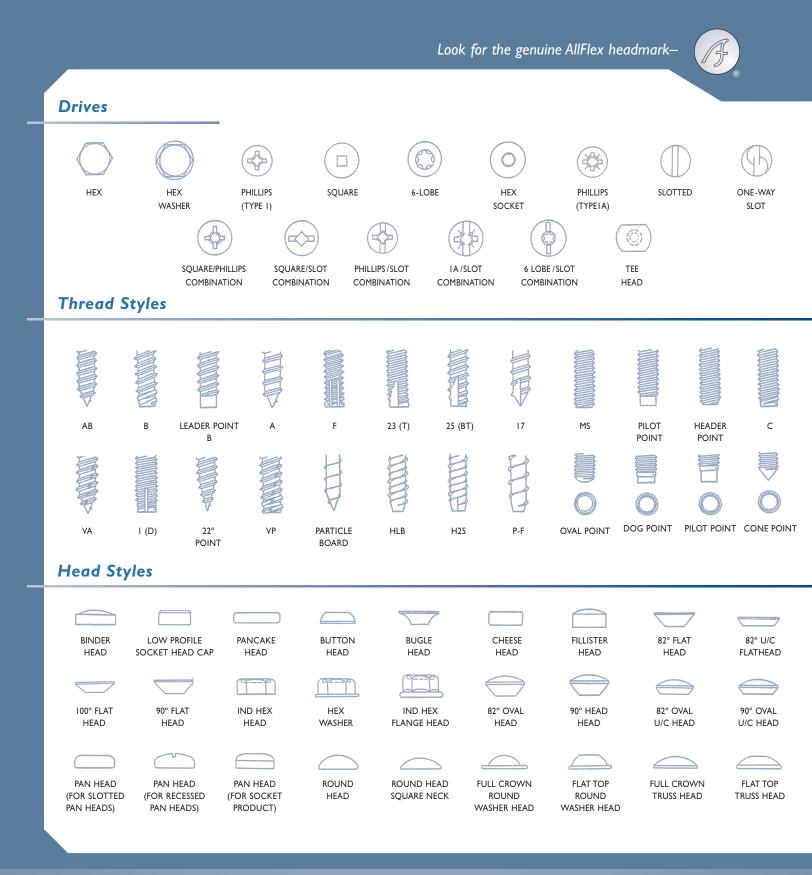
† NOTE: All performance data shown is based on tests performed under laboratory conditions. The appropriate safety factor should be applied and code requirements factored into specification and use of these fasteners. A safety factor of 4:1 or 25% of the ultimate average values shown is generally accepted as an appropriate working load. Due to a wide variety of application conditions or intervening factors not under our control, we assume no liability for the use of the information provided in this document.



MADE IN THE USA

Performance Data

Thread/Point	Head Style	Screw Diameter	Ultimate Yield	Ultimate Tensile	Ultimate Shear	Screw Material KSI
TYPE F	Hex Washer	1/4	3203	3274	2259	103
	Indented Hex	#10	1798	1854	1211	106
	Indented Hex	5/16"	4976	5308	3415	101
	Flat	#8	1165	1480	1015	106
	Flat	#10	1834	2158	1362	108
	Flat	1/4	2945	3203	2123	101
	Undercut Flat	#10	1717	1839	1222	105
	Undercut Flat	#12	2243	2322	1604	96
	Undercut Flat	#14	2945	3203	2123	101
Туре В	Phillips Pan	#12	2340	2355	1510	95
	Hex Washer	#14	3038	3233	2249	99
TYPE AB	Hex Washer	#10	1602	1616	1165	86
	Hex Washer	#12	2386	2399	1639	97
	Hex Washer	#14	3033	3187	2228	98
	Hex Washer	5/16"	4761	4958	3305	89
	Hex Washer	3/8"	7645	8163	5314	95
	Undercut Flat	#14	2819	3217	2230	99
	Flat	#12	1916	2130	2230	86
	Flat	#14	1916	2130	2230	86
	Pan	#12	2819	3217	2230	99
	Pan	#14	2819	3217	2230	99
MACHINE SCREW	Hex Washer	5/16"	4754	5017	3506	96
	Hex Washer	3/8"	7018	8127	5424	105





CORPORATE HEADQUARTERS:

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