



Bi-Flex[™] Bi-Metal Fasteners: The corrosion resistance of 300 series stainless steel and the efficiency of drillscrews

Owners, architects and, design engineers expect longer life cycles from buildings. Extended warranties and use of more sustainable materials add up to greater expectations for performance – from structural integrity to the purely aesthetic – of all building components.

The Solution: Bi-Flex™ Bi-Metal Self-Drilling Fasteners

- Made of 300 series (18-8) stainless steel alloy to provide unmatched corrosion resistance in your toughest applications
- Fused and hardened steel drill point and lead threads quickly drill and tap structural steel and aluminum up 1/2" thick
- Coated with silver-colored Stalgard® GB, a galvanic barrier to protect aluminum components from accelerated corrosion when in contact with 300 series stainless steel
- 300 series stainless alloy is virtually immune to delayed embrittlement failures seen with hardened 400 series stainless self-drilling fasteners

Prevent Corrosion in Your Applications

- Exposed anchoring/coastal/aggressive environments
- Curtain wall/window wall systems/rain screen systems
- Windows/doors/awnings/thresholds
- Panel systems to steel or aluminum framing
- · Aluminum enclosures
- ACQ-treated wood
- Brick veneer anchoring

You won't find a better, easier-to-install or more reliable 300 series stainless steel self-drilling screw, for your toughest construction applications, than Elco's line of Bi-Flex™ fasteners.

Features

- Bi-metal technology 300 (18-8) stainless steel head and shank
- Fused and hardened steel drill point
- Silver-colored Stalgard® GB coating
- Wide variety of sizes and head styles

300 series stainless steel head and shank

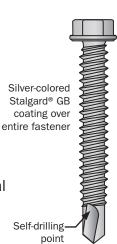
Fused and hardened steel tapping threads and drill point

Benefits

- Outstanding corrosion resistance and long service life
- High strength, ductility and reliability
- Virtually immune to delayed embrittlement failures
- Greater egalvanic compatibility in dissimilar metal applications

involving aluminum

- Quickly drill and tap into steel or aluminum up to 1/2" thick
- High in-place value over the life of structures, components and systems





ELCO ®

Selection Guide

	ECP Catalog No.†	Size	L Length	Drive System	Point Size	Max. Drilling Cap.	B Maximum Load-bearing Length*	Pieces per 1/4 Keg†	Job Pack: Pieces per Box†		
Hex Washer Head											
	EAJ110	10-16	3/4"	5/16" hex	2	.110"	0.320"	6000	250		
	EAJ185	12-14	1"		2	.140"	0.500"	4000	150		
	EAJ215		1-1/2"				1.00"	2500	125		
	EAJ240		2"				1.500"	2000	75		
	EAJ190		1"		3	.210"	0.500"	4000	150		
	EAJ220	12-14	1-1/2"				1.00"	2500	125		
를.	EAJ260		2-1/2"				2.00"	1500	50		
(基B)	EAJ340	12-24	2"		5	.500"	1.100"	2000	75		
	EAJ415		1"		2	.175"	0.500"	3000	125		
	EAJ430	1/4-14	1-1/2"				1.00"	2000	75		
	EAJ445		2"				1.500"	1500	50		
	EAJ540	1/4-20	1"	3/8" hex	3	.312"	0.500"	2500	125		
	EAJ580		1-1/2"				1.00"	2000	75		
	EAJ610	1/4-20	2"				1.500"	1500	50		
	EAJ640		2-1/2"				2.00"	1000	50		
	EAJ615	1/4-20	2"		5	.500"	1.100"	1500	50		
Flat Head Reamers w/wings											
BL	EBN140	10-16	1-1/2"	#2 phillips	3	.140"	0.800"	3500	125		
	EBN345	12-24	2-13/16"	#3	5	.500"	1.710"	1500	50		
	EBN645	1/4-20	2-13/16"	phillips			1.710"	1000	50		
Flat Head Undercut											
A B L	EBN200	12-14	1"	#3 phillips	2	.140"	0.500"	4000	150		
	EBN240	12-14	1-1/2"				1.00"	2500	125		

Performance Data

Pull-Out Values

			Pull-Out (Lbs)								
Screw	Drill Point	Drill Cap			Aluminum 6063-T5 22KSI						
Size	Туре	(in.)	18 ga.	16 ga.	14 ga.	12 ga.	1/8"	3/16"	1/4"	1/8"	1/4"
10-16	2	0.150	455	677	793	1394	1906	_	_	994	_
10-16	3	0.187	_	616	684	1242	1605	1527	_	961	_
12-14	2	0.187	528	750	892	1536	2602	2514	_	1132	_
12-14	3	0.210	417	679	802	1371	2028	2499	_	974	_
12-24	5	0.500	_	_	_	_	_	2110	2781	538	1995
1/4-14	2	0.210	619	885	1082	1830	2943	3535	_	1310	-
1/4-20	3	0.375	-	680	780	1442	2623	3684	4069	1037	2786
1/4-20	5	0.500	_	_	_	_	-	-	2622	_	1724

Identification

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





flat head

hex washer head

- * The load-bearing length is the length of 300 series stainless under the hex head or including the flat head. Hardened steel length (lead threads and point) should be through the connection and not in the load bearing section of the connection.
- † **Standard packaging:** ½ keg quantities as shown.

Job Pack: Pieces per box as shown/ six boxes per shipper. Available upon request. Indicate Job Pack by placing a "P" at the end of the ECP Catalog No.

NOTE: All performance data shown is based on tests performed under laboratory conditions at independent construction testing facilities. 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. Final determination of the appropriate safety factor and use of these fasteners is the sole responsibility of the user, specifying Engineer, Architect or other $responsible \ person \ \bar{d}esigning \ the \ connection.$ 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. For additional product information and technical assistance, please contact Elco directly at 1-800-435-7213.

Ultimate Strengths**

Size	Tensile (Lbs)	Shear Average Lbs Ultimate
10-16	1847	1282
12-14	2628	1950
12-24	2734	2284
1/4-14	3459	2676
1/4-20	4124	2860

^{**} Values are for 300 series stainless fastener threaded shank



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