

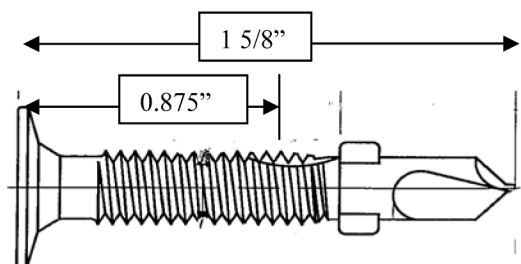


Elco® Self-Drilling Screws with Reaming wings

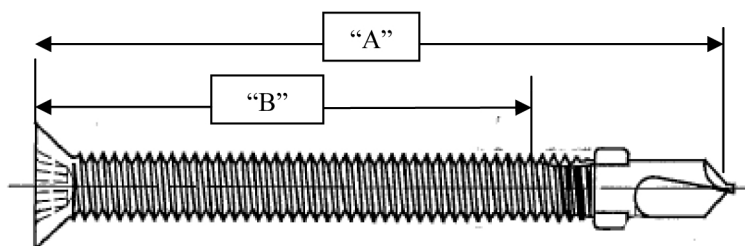
* For Wood-to-Metal Applications *

Descriptions: 12-24 X 1 5/8", 2", 2-1/2" and 1/4-20 x 2 3/4" Phillips Flat or Wafer Head with Wings
Diameters: #12 (.210/.214" OD) & 1/4" (.241/.249" OD)
Fastening Capability: Steel in the thickness range from 16 gauge (.060") up to 1/4" (.250")
Finish: Gray Stalgard®
Drive/Head Style: #3 Phillips Flat Head & #3 Phillips Wafer (see chart below)
Origin: Manufactured by Elco Construction Products in Rockford, IL or Decorah, IA
Application: Attaching Wood in thickness' from 3/4" up to 2" to steel from 16 gauge up to 1/4"
Benefit: Special wings ream out the wood to prevent premature thread engagement (PTE) into the wood prior to the drill point drilling through the steel. If PTE occurs, point "burn out" and point failure during installation can occur. The wings "snap-off" upon contact with steel that is 16 gauge (.060") or thicker.
Note: Not for use in steel thinner than 16 gauge. For applications attaching a "2 by" (1 1/2" thick) wood to steel that is thinner than 16 ga., we offer a fastener with a longer unthreaded section or pilot section, EDJ867.

Material Thickness Range* (wood & steel)	Functional Thread Length FTL)	Fastener Description	Part Numbers		Head Style
			Dual processed Self-drilling Point	Forged self-drilling Point	
Up to 7/8"	7/8"	12-24 x 1 5/8"	EBK648	-	Wafer
3/4" to 1 1/4"	1 3/8"	12-24 x 2"	EBJ877	EDT267	Flat
3/4" to 1 7/8"	1 7/8"	12-24 x 2 1/2"	EBJ882	EDT282	Flat
3/4" - 2"	2"	1/4- 20 x 2 3/4"	EBJ987	-	Flat



12-24 x 1 5/8" Phillips Wafer Head



Phillips Flat Head Parts shown:
 12-24 x 2",
 12-24 x 2 1/2" and
 1/4-20 x 2 3/4"

Part	"A" Overall length	"B" Functional thread length
12-24 x 2	2"	1.360"
12-24 x 2 1/2"	2 1/2"	1.875"
1/4- 20 x 2 3/4"	2 3/4"	2.000"

Performance Data

Pull-out Values (Average Lbs. Ultimate)					
Steel Thickness					
Size	16 ga	14 ga	12 ga	3/16"	.218
#12	528	780	1124	2352-1	-----
1/4"	604	897	1449	3521	4119
Shear Values (steel ga. lapped)					
Size	14	12	.125		
12	-	2043	2028		
1/4"	-	2647	2816		

Stalgard Corrosion Resistance
<ul style="list-style-type: none"> Kesternich Test Results (DIN 50018,2.0L 20 cycles – no sign of red rust Salt Spray Test Results (ASTM B117) 800 hours – no sign or red rust

Gray Stalgard is a duplex fastener coating system that was specifically developed for use in lumber treated with ACQ preservatives*. Gray Stalgard combines a mechanically plated zinc and yellow chromate substrate with a pigmented organic topcoat. The base plate provides sacrificial protection of the steel substrate while the thermosetting topcoat creates a durable protective barrier. This duplex process provides exceptional corrosion resistance.

Note: For optimal installation results, the following issues should be considered:

- For optimal drilling and tapping results – a power tool with the RPM range of 0-2000 is recommended. Power screw guns with an RPM range of 0 to 2500 may not allow the fastener's drill point to drill at maximum efficiency.
- For proper seating of fastener: A properly set "depth-sensitive" nosepiece is recommended to prevent over-drive.
- Tools with "de-clutching" release mechanisms may not provide consistent seating of the head into the wood.
- 5.5 Amps minimum for easy thread tapping and setting of fastener

* For wood thickness' up to 3", we offer Reamers with #11 diameters in lengths up to 3 15/16" (See cat #s BK700, BK710 & BK720)