



TECHNICAL BULLETIN

300 SERIES STAINLESS FASTENERS

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TYPE OF FASTENER

A, AB, B Number 14 Diameter.

TYPE OF MATERIAL

Fasteners are to be made from a good quality cold heading wire of type 304. 304 is utilized to maximize hardness during the cold heading process. These harder threads provide maximum strip out values higher than other types of stainless wires.

TYPE OF PLATING

Electro plating .0002 Cadmium and clear chromate finish.

TOOL SELECTION

An electric screwgun with a variable speed of 0 - 2000 RPM incorporating a clutch or depth setting feature is the suggested tool. Impact type guns are not recommended.

RECOMMENDED USAGE

Type A to be used for sheet to sheet application. Type AB to be used for sheet to sheet or sheet to light gauge structural. Type B to be used for heavy gauge structural steel.

PERFORMANCE TESTS

Test Results	Strength of Fasteners	
	1/4" Type B	#14 Type A & AB
Minimum tensile strength	3,715 lbs.	3,190 lbs.
Minimum shear strength	2,610 lbs.	2,475 lbs.
Minimum torsional strength	150 inch lbs.	140 inch lbs.

(These are conservative values)

Test Results	Pull Out Tests					
	Thickness of Steel	Hardness of Steel Rockwell B	Drilled Hole Size	Average Pull Out Values in lbs.		
				1/4" Type B	#14 Type AB	#14 Type A
18 gauge	56	3/16"	750	710	875	
16 gauge	60	3/16"	1190	1010	1100	
14 gauge	64	#8	1315	1530	1610	
12 gauge	64	#7	2525	1860		
1/4" gauge	60	#1	3010			

Test Results	Pull Over Tests			
	Thickness of Steel	Hardness of Steel Rockwell B	Drilled Hole Size	Washer Diameter
20 gauge	56	3/16"	15mm Stainless	1485
22 gauge	52	3/16"	15mm Stainless	1273
24 gauge	50	3/16"	15mm Stainless	906
26 gauge	49	1/8"	15mm Stainless	644

The test results shown are believed to be reliable. However, variances in testing and actual field conditions may alter the results. There is no expressed or implied warranty on the test data.