



BUILDING FASTENERS

920 Second Ave., Coraopolis, PA 15108
(800) 670-5767 * FAX # (412) 299-6499

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 1018 designation. Screws to be heat treated to a Rockwell Hardness of C-38 minimum.

TYPE OF PLATING

Mechanical plating .0007 zinc 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 B to be used for sheet to structure. Type AB for sheet to light gage purlins or laps. Type A lap only.

TECHNICAL BULLETIN

PLATED STEEL

SELF-TAPPING FASTENERS

PERFORMANCE TESTS

Test Results	Strength of Fastener	
	1/4" Type B	#14 Type A & AB
Minimum tensile strength	3,900 lbs.	3,825 lbs.
Minimum shear strength	2,625 lbs.	2,475 lbs.
Minimum torsional strength	150 inch lbs.	140 inch lbs.

(These are conservative values)

Test Results			Pull Out Tests		
To determine the tension required to remove properly drilled screws out of steel member.					
Thickness of Steel	Hardness of Steel Rockwell	Drilled Hole Size	Average Pull Out Values in lbs.		
			1/4" Type B	#14 Type AB	#14 Type A
20 gauge	50	3/16"			511
18 gauge	60	3/16"	896	677	666
16 gauge	64	#8	1211	1168	1043
14 gauge	64	#8	1373	1494	1485
12 gauge	64	#7	2526	1758	

Test Results		Pull Over Tests		
To determine the tension required to pull steel over fastener head.				
Thickness of Steel	Hardness of Steel Rockwell B	Drilled Hole Size	Washer Diameter	Average Pull Over
				in lbs.
20 gauge	56	3/16"	15mm Galv.	1408
22 gauge	52	3/16"	15mm Galv.	1211
24 gauge	50	3/16"	15mm Galv.	896
26 gauge	49	1/8"	15mm Galv.	612

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.