Panel Clip Fasteners

Distributed by: BEST MATERIALS ® Ph: 800-474-7570, 602-272-8128 Fax: 602-272-8014 www.BestMaterials.com Email: Sales@BestMaterials.com

- Designed with unique head styles, drill point configurations and material types to meet performance requirements to attach standing seam roof clips.
- Engineered profile features preventing panel damage from fastener head contact.
- Engineered installation torque drive control for uniform installation performance.

Application

#10 Type A: Pancake Head #2 Square Drive

Carbon Steel, Zinc Plated

Metal to wood

#10 Type A: Pancake Head **#2 Square Drive** 300 Series Stainless Steel

Metal to wood

#10 Self-Drill: Pancake Head #2 Square Drive

Carbon Steel, Zinc Plated

Metal to metal

Min projection: 3/8" of threads

below substrate



Head Height: .080 - .068 Head Dia: .447 - .423 Thread Major Dia: .194 - .188 Thread Minor Dia: .133 - .126

Strength (lbs ult.): Carbon Stainless Tensile: 1825 1653 Torsional: 48 in-lbs 50 in-lbs Shear: 1535 1587

#10 Type A, Pull-out (lbs ult.):

SPF wood: 1" penetration: 544 1-1/2" penetration: 995

#10 Self Drill, Pull-out (lbs ult.):

12 ga (.105): 1782 14 ga (.075): 1072 16 ga (.060): 782



Head Height: .040 - .030 Head Dia: .447 - .423 Thread Major Dia: .215 -.209 Thread Minor Dia: .133-.127

Strength (lbs ult.): Tensile: 2183 Torsional: 60 in-lbs Shear: 1946

Performance (lbs ult.): Pull-out SPF 1" Penetration 583 SPF 1-1/2" Penetration 1029 1x4" Pine 590 3/4" Plywood 583 5/8" Plywood 368 1/2" Plywood 357 23/32" OSB 412 19/32" OSB 336 15/32" OSB 225

#12–8 XG Low Profile Head #2 Square Drive

Carbon Steel, Zinc Plated

Metal to wood



Head Height: .080 - .068 Head Dia: .447 - .423 Thread Major Dia: .215 -.209 Thread Minor Dia: .133-.127

Strength (lbs ult.): Tensile: 2183 Torsional: 60 in-lbs Shear: 1946

Performance (lbs ult.): Pull-out SPF 1" Penetration 583 SPF 1-1/2" Penetration 1029 1x4" Pine 590 3/4" Plywood 583 5/8" Plywood 368 1/2" Plywood 357 23/32" OSB 412 19/32" OSB 15/32" OSB 336 225

#12–8 XG Sharp Point: Pancake Head #2 Square Drive Carbon Steel, Zinc Plated

Metal to wood



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Drawings are for illustration purpose only. Dimensions are nominal inches unless otherwise noted. Engineering drawings should be referenced for exact tolerances and will be furnished upon request

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Application

#12 Type A: Pancake Head #2 Square Drive Carbon Steel, Zinc Plated Metal to wood



Head Height: .080 - .068 Head Dia: .447 – .423 Thread Major Dia: .221 - .215 Thread Minor Dia: .162 – .155

Strength (lbs ult.): Tensile: 1940 Torsional: 90 in-lbs Shear: 1805 Pull-out (lbs ult.): SPF wood: 1" penetration: 622

#12 Self-Drill: Pancake Head SD2 **#2 Square Drive** Carbon Steel, Zinc Plated Metal to metal

Drilling Capacity: .035 - .210 Min projection: 3/8" of threads below substrate.



Head Height: .090 - .078 Head Dia: .447 – .423 Thread Major Dia: .215 - .209 Thread Minor Dia: .164 – .157

Strength (lbs ult.): Tensile: 2900 Torsional: 92 in-lbs Shear: 2050 Pull-out (lbs ult.): 12 ga (.105): 1539 14 ga (.075): 1010 16 ga (.060): 724

1/4 -14 SD2 HWH

Drilling capacity (#2 point): .050 - .150Attachment thickness: Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/8" of threads below substrate



5/16" AF Hex Washer Head 3/8" AF Hex Washer Head Thread Major Dia: .246 - .240 Thread Minor Dia: .192 - .185

Strenath (lbs ult.): Tensile: 3800 Torsional: 150 in-lbs Shear: 2850

#2 Point, Pull-out (lbs ult.): 12 ga (.105): 2088

14 ga (.075): 1312 16 ga (.060): 903

12-24 SD5: Pancake Head **#2 Square Drive** Carbon Steel, Zinc Plated Metal to metal

Drilling capacity: .075 - .500 Attachment thickness: Thickness is based on normal, single thickness purlin/girt or multiple material thickness combined for total. Min projection: 3/8" of threads below substrate



Head Height: .090 - .078 Head Dia: .447 – .423 Thread Major Dia: .216 – .210 Thread Minor Dia: .186 - .181

Strength (lbs ult.): Tensile: 3450 Torsional: 100 in-lbs Shear: 2420 Pull-out (lbs ult.): 12 ga (.105): 1378 3/16" (.187): Exceeds tensile value 1/4" (.250): Exceeds tensile value

Notes

Dimensions are nominal inches unless noted. Pull-out values (pounds ultimate) are based on 50,000 psi hot rolled steel sheet material. Ultimate values listed are the result of laboratory testing. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

Fasteners installed in less than 1" of solid wood may have an increased potential for a connection failure over time. This may be due to the fasteners being stripped out during installation and/or due to the lack of adequate wood fiber material to hold the fastener in place when forces are exerted upon the connection.

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Selection

Description	New Part No.	Original Part No.	North American Code
Metal to Wood Application	·		·
#10 Type A Pancake, Carbon Steel			
10 x 1"	1545869	A1191F	CSTA-#10x1-PC-SQ2
10 x 1-1/2"	1545862	A1351F	CSTA-#10x1-1/2-PC-SQ2
10 x 2"	1545882	A1391F	CSTA-#10x2-PC-SQ2
#10 Type A Pancake, 304 Stainless Steel			
10 x 1"	1545891	E0235F	CSTA-S3-#10x1-PC-SQ2
10 x 2"	1545895	E0271F	CSTA-S3-#10x2-PC-SQ2
#12 XG Low Profile			
12-8 x 1"	1545904	-	CSXG-#12x1-WF-SQ2
12-8 x 1-1/2"	1545899	-	CSXG-#12x1-1/2-WF-SQ2
12–8 x 2"	1545908	-	CSXG-#12x2-WF-SQ2
#12 XG Pancake			
12-8 x 1"	1545902	A1900F	CSXG-#12x1-PC-SQ2
12–8 x 1-1/2"	1545898	A1940F	CSXG-#12x1-1/2-PC-SQ2
12–8 × 2"	1545907	A1950F	CSXG-#12x2-PC-SQ2
#12 Type A Pancake			
12 x 1"	1545886	A1710F	CSTA-#12x1-PC-SQ2
Metal to Metal Application			
#10 Self-Drill Pancake			
10–16 x 1" SD 2	1545832	S3431F	CSSD2-#10x1-PC-SQ2
10–16 x 1-1/2" SD 2	1545823	S4221F	CSSD2-#10x1-1/2-PC-SQ2
10–16 x 2" SD 2	1545841	S4421F	CSSD2-#10x2-PC-SQ2
#12 Self-Drill Pancake			
#12 x 1" SD 2	1545849	S4552F	CSSD2-#12x1-PC-SQ2
#12-24 # 5 Point Pancake			
12–24 x 1-1/2" SD 5	1545855	S4750F	CSSD5-#12X1-1/2-PC-SQ2
1/4-14 #2 Point 5/16 AF HWH			
1/4-14 x 1-1/4" SD 2	798666	S5191F	SD2-#14x1-1/4-HW5/16
1/4–14 x 1-1/2" SD 2	504058	S5286F	SD2-#14x1-1/2-HW5/16
1/4-14 #2 Point 3/8 AF HWH			
1/4-14 x 1" SD 2	798596	S5171F	SD2-#14x1-HW3/8

















#10 Type A Pancake

#12 XG Low Profile

#12 XG Pancake #12 Type A Pancake

#10 Self-Drill Pancake

#12 Self-Drill Pancake

#12-24 #5 Point Pancake

1/4-14 #2 Point

Installation

Tools: Wood application: 0-2500 rpm screw gun equipped with depth sensing nose piece.

Metal application: 0-2000 rpm screw gun equipped with depth sensing nose piece.

Use of impact guns or hammer drill is not recommended.