

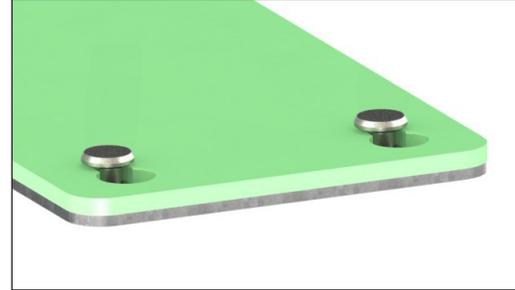


TS

Self-Clinching Sheet-Loc™ Fastener

FEATURES

- Join two sheets together by simply sliding the top panel into place for a quick attachment and detachment of removable components.
- Use several TJ Sheet-Loc™ Fasteners with one PENCOM NG Flush Nut to prevent unwanted top sheet movement, and reduce installation time and excess hardware.
- Can be installed in a blind hole to conceal fastener head.



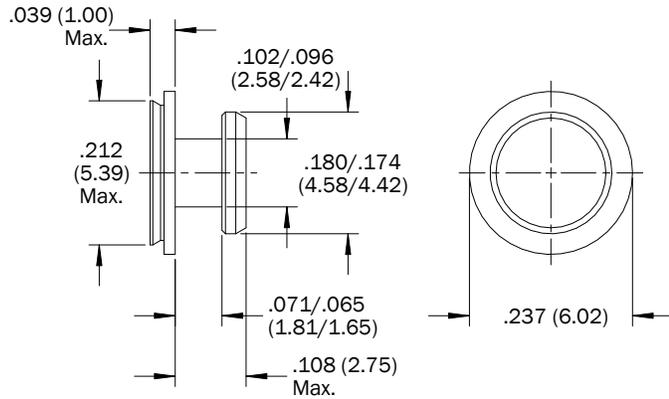
PART DESCRIPTION

TSSS — .060 — FR — P

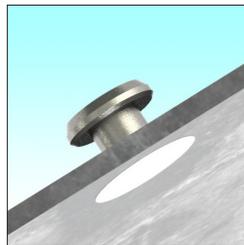
MATERIAL AND FINISH

300-Series Stainless Steel/ Passivated and/or Tested per ASTM A967.

(Other RoHS-compliant materials and finishes available by request.)



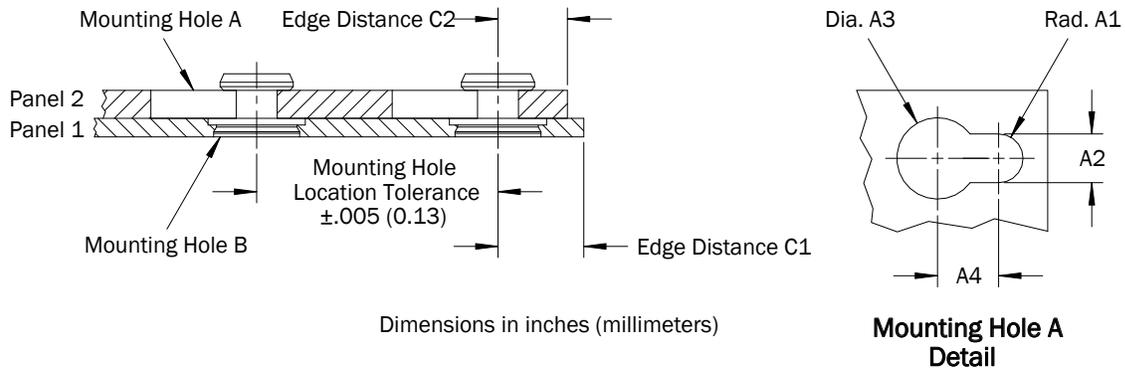
Dimensions without tolerances are reference
Dimensions in inches (millimeters)



Self-clinching design installs quickly and permanently into an aluminum or carbon steel bottom sheet with a flush or sub-flush appearance on the back. Fastener head may be concealed by installing in a blind hole.

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APPLICATION



Dimensions in inches (millimeters)

Mounting Hole A Detail

All dimensions in inches

INCH	Panel 1				Panel 2						
	Mounting Hole B +.003 -.000	Sheet Hardness Max.	Sheet Thickness Min.	Edge Distance C1 Min.	Mounting Hole A				Material	Thickness	Edge Distance C2 Min.
					A1 Nom.	A2 ±.003	A3 ±.003	A4 Min.			
	.213	HRB 70	.039 (1)	.150	.059	.118	.197	.148	Metal or P.C. Board	.057 – .064	.160

All dimensions in millimeters

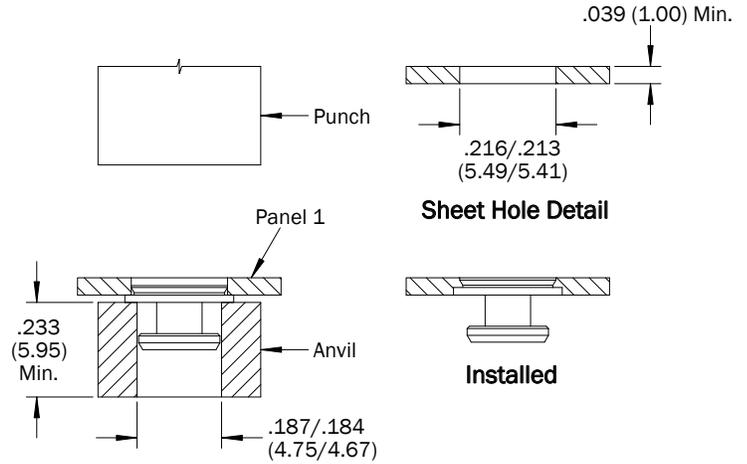
METRIC	Panel 1				Panel 2						
	Mounting Hole B +0.08 -0.00	Sheet Hardness Max.	Sheet Thickness Min.	Edge Distance C1 Min.	Mounting Hole A				Material	Thickness	Edge Distance C2 Min.
					A1 Nom.	A2 ±0.08	A3 ±0.08	A4 Min.			
	5.41	HRB 70	1.00 (1)	3.81	1.50	3.00	5.00	3.75	Metal or P.C. Board	1.45 – 1.62	4.10

(1) For blind hole installation, mount in a .043" (1.10mm) deep blind hole milled in a .062" (1.60mm) minimum thick sheet.

TS Self-clinching Sheet-Loc™ Fastener

THRU-HOLE INSTALLATION

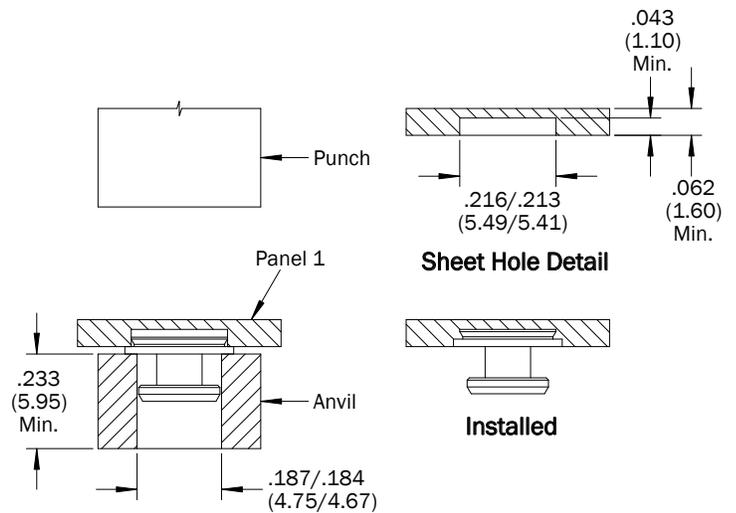
1. For a thru-hole application prepare correct sized mounting hole in sheet. Do not deburr edges.
2. Insert fastener into the anvil and locate sheet hole over the fastener shank as shown with the hole punch side of sheet against fastener.
3. Squeeze the sheet and fastener flange between parallel anvil and punch surfaces. Use only enough pressure to seat the flange flush with the sheet. Anvil and punch may be ordered using PENCOM part numbers TL1363 and TL1287, respectively, or made from hardened tool steel.



Thru-Hole Installation
Dimensions in inches (millimeters)

BLIND HOLE INSTALLATION

1. For a blind hole application mill a properly sized blind hole $.043$ " (1.10 mm) deep minimum in sheet. Do not deburr edges.
2. Insert fastener into the anvil and locate sheet hole over the fastener shank as shown.
3. Squeeze the sheet and fastener flange between parallel anvil and punch surfaces. Use only enough pressure to seat the flange flush with the sheet. Anvil and punch may be ordered using PENCOM part numbers TL1363 and TL1287, respectively, or made from hardened tool steel.

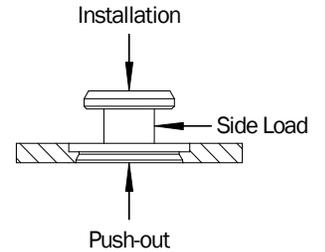


Blind Hole Installation
Dimensions in inches (millimeters)

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PERFORMANCE

INCH	Test Sheet Material					
	.060" 5052-H34 Aluminum			.060" Cold-Rolled Steel		
	Installation (lbs)	Push-out (lbs)	Side Load (lbs)	Installation (lbs)	Push-out (lbs)	Side Load (lbs)
	935-1270	100-140	100-140	1790-2420	135-185	155-215



METRIC	Test Sheet Material					
	1.52mm 5052-H34 Aluminum			1.52mm Cold-Rolled Steel		
	Installation (kN)	Push-out (N)	Side Load (N)	Installation (kN)	Push-out (N)	Side Load (N)
	4.2-5.6	455-615	455-615	7.9-10.7	605-820	700-945

(1) Performance data are shown in ranges and should be used for general comparative purposes only as actual results may be affected by variations in installation and panel preparation equipment and procedures; and panel hardness, hole size, material and thickness. PENCOM strongly recommends testing in each application to determine actual loads.