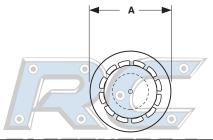
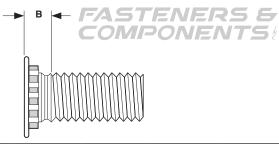
ELECTRONIC HARDWARE - SELF-CLINCHING STUDS

12-RIB STYLE - FLUSH HEAD





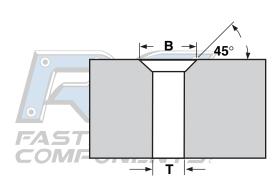
Size Ma	A Head Diamet	er l	B threaded Length	Minimum	Holo in	Distance to Center	Push-Out	Torque-Out	Estimate of
Size Ma		er l		Minimum			(lbs.)	(InIbs.)	Installation Force in
Ma 2-56 .15	ax N			Minimum Sheet Thickness	Hole in Sheet (+.003, 000)		(lbs.)	(IIIIDS.)	Steel
		lin	Max			Min	#2 thru #10 on .060 stee & 5/16 diam .088 stee	el plates. 1/4 n based on	Tons (Approx)
4-4020	56 .*	25	.075	.040	.085	.18	250	8.5	3
	04	72	.085	.040	.111	.22	280	11	4
5-40 .20	.07 .1	77	.085	.040	.113	.22	280	11	4
6-32 .21	19 .	87	.090	.040	.137	.25	350	30	4.5
8-32 .25	.50 .2	18	.090	.040	.163	.28	400	65	5
10-24	66 .2	34	.100	.040	.189	.28	500	100	60/
10-32 .26	.66 .2	34	.100	.040	.189	.28	500	100	6
1/4-20 .34	.344 .3	12	.135	.062	.249	.31	700	120	7
1/4-28 .34	.344 .3	112	.135	.062	.249	.31	*	*	*
5/16-18 .39	91 .3	61	.160	.093	.311	.38	- _ 850	<u> 200 </u>	2585
3/8-16 .46	.67 .4	35	.185	.125	.374	.45	1000	260	5.5
1/2-13 .64	40 .6	30	.170	*	.502	.62	*	*	*
0									
Tole			//						

^{*}Standards are unavailable.

Description	A fastener with unified thread pitch and a cylindrical, low profile head with small, rectangular ribs protruding from the underside of the head. The top of the head is flat and is flush with the mating surface when installation is complete. Below the ribs and above the first thread is an annular groove which helps to hold the fastener in position.					
Applications/ Advantages	Intended for metal panel-to-panel applications and well-suited for use in printed circuit boards. A hole is pierced into the circuit board and the unit it is attached to. The stud is inserted using a hand press or by hand, applying parallel squeezing forces. A hex nut is twisted onto the stud, securing it from the back. As the nut is tightened, the ribbed stud head grips the front panel to secure the application from the front as well, eliminating the need for welding. As the application force is applied, part of the sheet cold flows into an undercut under the head, making the fastener an integral part of the sheet.					
Material	Steel	Stainless NEVIS				
	Low carbon steel	300 series stainless				
Heat Treatment	Clinch studs shall be case hardened, oil quenched and tempered.	·				
Case Hardness	Rockwell C 45 minimum	Not required to test for hardness				
Core Hardness	Rockwell C 29 - 38	Not required to test for hardness				
For Use In	materials with a hardness of Rockwell B80 or less.	materials with a hardness of Rockwell B70 or less.				
Finish	Steel clinch studs are usually furnished with a zinc plating.	Stainless clinch studs are usually supplied without additional finish.				

ELECTRONIC HARDWARE - SELF-CLINCHING STUDS

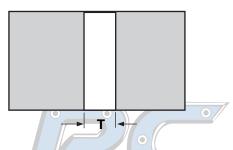
12-RIB STYLE - FLUSH HEAD



THIN SHEET ANVIL

Intended for panels less than 0.060" in thickness, with #4 thru #10 thread sizes, inclusive. Also, for panels less than 0.093" in thickness with 1/2" thread size.

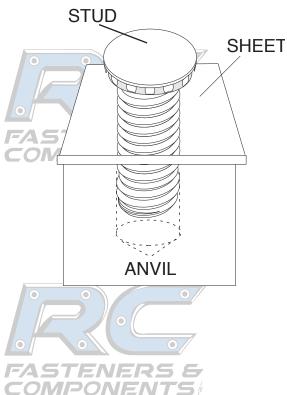




THICK SHEET ANVIL

Intended for panels 0.060" and greater in thickness, with #4 thru #10 thread sizes, inclusive. Also, for panels 0.093" and greater in thickness with 1/4" thread size.





Anvil Dimensions									
Thread Size	Anvil								
Tillead Size	В	T							
2-56	0.110 0.114	0.087 0.090							
4-40	0.136 P O 0.140	0.113 S & 0.116							
6-32	0.162 0.166	0.139 0.142							
8-32	0.188 0.192	0.165 0.168							
10-24 & 10-32	0.216 0.220	0.191 0.194							
1/4-20	0.295 0.300	0.250 0.253							
5/16-18		0.3125 0.3155							
3/8-16	FASTE	VERS &							

Notes on Installation: Apply only sufficient squeezing pressure to embed head of stud flush with panel. Do not use more pressure than necessary. Amount of pressure varies with panel material and size of stud. Studs install flush in sheets .040" or thicker but will project up to .020" in thinner sheets.