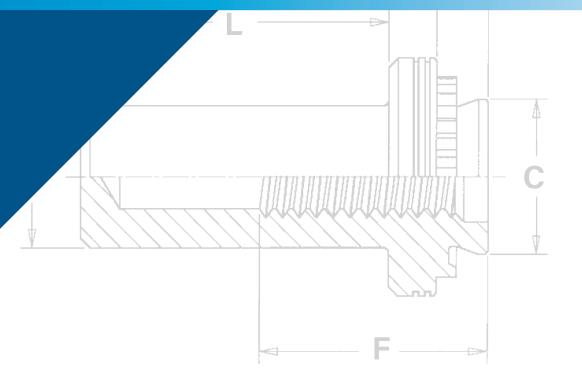
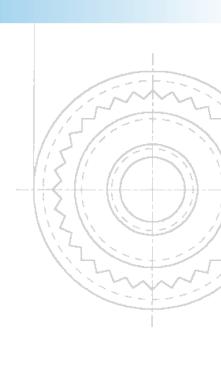


PEM® self-clinching blind fasteners are used in applications requiring closed thread ends.





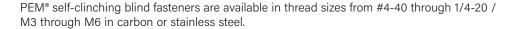


SELF-CLINCHING BLIND FASTENERS

PEM® brand self-clinching blind fasteners provide permanently mounted blind threads in metal sheets as thin as .040"/1 mm.

- Provides barrier to protect threads against foreign matter.
- Limits screw penetration, protecting internal components from potential damage.
- Available on special order with free-running locking thread feature.

PEM® blind fasteners employ the proven PEM® self-clinching design and are easily installed into properly sized holes. Shanks of PEM® fasteners act as their own pilots. PEM® blind fasteners can be installed with any standard press applying squeezing forces between parallel surfaces.



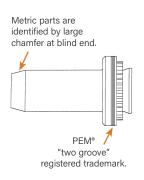


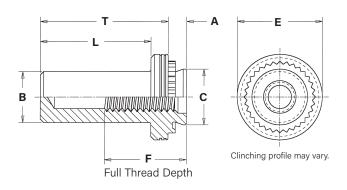


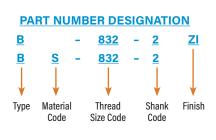




SELF-CLINCHING BLIND FASTENERS







All dimensions are in inches.

	Thread	Type Fastener Material		Thread	Shank	A (Shank)	Min. Sheet	Hole Size in Sheet	В	С	E	F	L	Т	Min. Dist.															
	Size	Steel	Stainless Steel	Code (1)	Code		Thickness	+ .003 000	Max.	Max.	± .010	Min.	Max.	± .010	Hole ⊈ to Edge															
	.112-40	D B BS	BS	440	1	.038	.040	.166	.150	.165	.250	.210	.335	.380	.19															
	(#4-40)	ם	DO	440	2	.054	.056	100																						
IED	.138-32	В	BS	DC	632	1	.038	.040	.1875	.169	.187	.280	.230	.335	.380	.22														
Щ.	(#6-32)	D	DO	032	2	.054	.056	.10/3	.109	.107	.200	.230	.555	1300	.22															
Z	.164-32	В	DC	DO.	020	1	.038	.040	.213	204	.212	210	200	205	440	07														
	(#8-32)	В	BS	832	2	.054	.056	.213	.204	.212	.310	.280	.385	.440	.27															
	.190-32	В	20			DO.	DO.	DC	DC	DC	DC	BS	DC	De	DC	DC	DC	DC	032	1	.038	.040	050	225	0.40	0.40		005	440	- 00
	(#10-32)	В	89	032	2	.054	.056 .250 .235 .24	.249	.340	.280	.385	.440	.28																	
	.250-20	D	20	0.400	1	.054	.056	244	205	242	400	242	500		24															
	(1/4-20)	В	BS	0420	2	2 .087 .090	.344	.305	.343	.430	.310	.500	.560	.34																

All dimensions are in millimeters.

	Thread Size x	Type Fastener Material		Thread	Shank	A (Shank)	Min. Sheet	Hole Size	В	С	E	F	L	Т	Min. Dist.										
	Pitch	Steel	Stainless Steel	Code (1)	Code		Thickness	+ 0.08	Max.	Max.	± 0.25	Min.	Max.	± 0.25	Hole ⊈ to Edge										
	M3 x 0.5	В	BS	M3	1	0.97	1	4,22	3.84	4.0	6.35	5.3	8.5	9.6	4.8										
2	O.D X CIVI	D	DO	IVIO	2	1.38	1.4	4.22	3.04	4.2															
TR		7 D	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	BS	MA	1	0.97	1	E 41	F 0	F 20	705	7,1	9.8	11.2	6.9
Σ	M4 x 0.7	В	BS	M4	2	1.38	1.4	5.41	5.2	5.38	7.95	/.1	9.0	II.Z	0.9										
	MEO.O			МЕ	1	0.97	1		0.00	0.00	8.75	7.1	9.8	11.2	7.1										
	M5 x 0.8	В	BS	M5	2	1.38	1.4	6.35	6.02	6.33															
	Me v 1	В	DO.	MG	1	1 1.38 1.4	1.4	0.75	70	0.72	11.1	7.8	12.7	14.3	8.6										
	M6 x 1	В	BS	M6	2	2.21	2.29	8.75	7.8	8.73															

⁽¹⁾ PEM® B™ nuts are available on special order with a free-running locking thread feature allowing mating screw to turn freely until clamp load is applied. For more information, contact PEM® Technical Support.

MATERIAL AND FINISH SPECIFICATIONS

	Threads	Fastener Materials		Stand	ard Finishes	For Use in Sheet Hardness: (2)		
Туре	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	ASME B1.1, 2B / Hardened		Passivated and/or Tested Per ASTM A380	Zinc Plated per ASTM B633, SC1 (5µm), Type III, Colorless (1)	HRB 80 / HB 150 or less	HRB 70 / HB 125 or less	
В		•			-			
BS	BS •						•	
Part Number C	ode For Finishes			None	ZI		_	

- (1) See PEM Technical Support section of our web site for related plating standards and specifications.
- (2) HRB Hardness Rockwell "B" Scale. HB Hardness Brinell.

SELF-CLINCHING BLIND FASTENERS

INSTALLATION

- 1. Prepare properly sized mounting hole in the sheet. Do not perform any secondary operations such as deburring.
- Place the barrel of the fastener into the anvil hole and place the mounting hole (preferably the punch side) over the shank of the fastener.
- With the installation punch and anvil surfaces parallel, apply squeezing force until the flange contacts the mounting sheet. The sketch at the right indicates suggested tooling for applying these forces.

PEMSERTER® Installation Tooling

Туре	Thread Code	Part	
B/BS	440/M3	975200001	975200048
B/BS	632	975200002	975200048
B/BS	832/M4	975200003	975200048
B/BS	032/M5	975200004	975200048
B/BS	0420/M6	975200005	975200048

INSTALLATION NOTES

- For best results we recommend using a Haeger® or PEMSERTER® machine for installation of PEM® self-clinching fasteners. Please check our website for more information.
- Visit the Animation Library on our website to view the installation process for this product.

PERFORMANCE DATA(1)

				Test Sheet Material							
	Thread	Shank	Sheet	5052	2-H34 Alumi	inum	Cold-Rolled Steel				
	Code	Code	Thick- ness (in.)	Install- ation (lbs.)	Pushout (lbs.)	Torque- out (in. lbs.)	Install- ation (lbs.)	Pushout (lbs.)	Torque- out (in. lbs.)		
	440	1	.040	1600	90	10	2500	125	13		
ED		2	.056	2000	170	13	3500	230	18		
正	632	1	.040	1800	95	17	3000	130	18		
Ξ	032	2	.056	2800	190	22	4000	260	28		
n	832	1	.040	2000	105	23	3500	135	30		
	032	2	.056	3000	220	35	5000	Pushout (Ibs.) out (in. lbs 125 13 230 18 130 18 260 28	45		
	032	1	.040	2100	110	32	4000	140	35		
	032	2	.056	3500	190	50	5000	250	60		
	0420	1	.056	4000	215	90	6000	400	105		
	0420	2	.090	4000	315						

				Test Sheet Material								
	Thread	Shank Code	Sheet	5052	-H34 Alumi	inum	Cold-Rolled Steel					
	Code		Thick- ness (mm)	Install- ation (kN)	Pushout (N)	Torque- out (N-m)	Install- ation (kN)	Pushout (N)	Torque- out (N-m)			
၁	M3	1	1	7.1	400	1.15	11.1	550	1.5			
ETRIC	IVIO	2	1.4	9	750	1.47	14	1010	2.05			
Ξ.	M4	1	1	8.9	470	2.6	15.6	600	3.4			
Σ	IVI4	2	1.4	12.5	970	4	20	1250	5.1			
	M5	1	1	9.3	480	3.6	17.8	620	4			
	IVIO	2	1.4	14	845	5.7	25	1112	6.8			
	M6	1	1.4	17.8	1400	10.2	25.7	1760	11.9			
	IVIO	2	2.3	17.0		10.2	20.7		11.9			

(1) Published installation forces are for general reference. Actual set-up and confirmation of complete installation should be made by observing proper seating of fastener as described in the installation steps. Other performance values reported are averages when all proper installation parameters and procedures are followed. Variations in mounting hole size, sheet material, and installation procedure may affect performance. Performance testing this product in your application is recommended. We will be happy to provide technical assistance and/ or samples for this purpose.

All PEM® products meet our stringent quality standards. If you require additional industry or other specific <u>quality certifications</u>, special procedures and/or part numbers are required. Please contact your local sales office or representative for further information.

Regulatory <u>compliance information</u> is available in Technical Support section of our website. Specifications subject to change without notice. See our website for the most current version of this bulletin.





North America: Danboro, Pennsylvania USA = E-mail: info@pemnet.com = Tel: +1-215-766-8853 = 800-237-4736 (USA)

Europe: Galway, Ireland • E-mail: europe@pemnet.com • Tel: +353-91-751714 **Asia/Pacific:** Singapore • E-mail: singapore@pemnet.com • Tel: +65-6-745-0660

Shanghai, China • E-mail: china@pemnet.com • Tel: +86-21-5868-3688

Visit our PEMNET™ Resource Center at www.pemnet.com ■ Technical support e-mail: techsupport@pemnet.com