



# PFZ

## Press-in Fin Zerts

### FEATURES

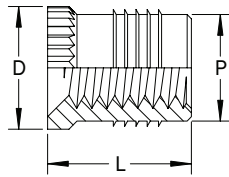
- Simple press-in installation for most thermoplastics.
- High pull-out resistance.
- Self-aligning design.
- Available in a wide variety of thread sizes stud lengths.



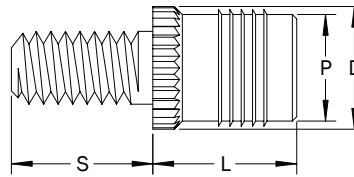
### PART DESCRIPTION EXAMPLE

PFZS	—	632	—	250 X 375	—	SS
T		T		T		T
Series Code		Insert or Stud Thread Code		Insert Length Code <sup>1</sup> Stud Length Code <sup>1</sup>		Material Code <sup>2</sup>

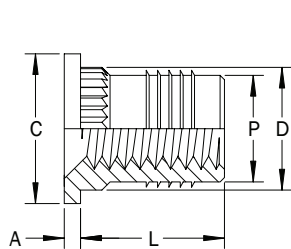
- (1) Omit stud length code for non-studded inserts.
- (2) SS material code designates stainless steel. Standard insert material is brass. Omit SS material code for brass inserts. Custom materials and finishes available by request.



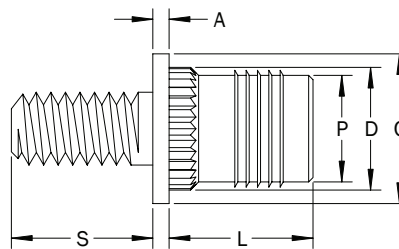
**Insert**  
Series Code PFZ



**Insert w/ Stud**  
Series Code PFZS



**Headed Insert**  
Series Code PFZH



**Headed Insert w/ Stud**  
Series Code PFZHS

PFZ Press-in Fin Zerts

## GENERAL

	Insert Thread	Insert Thread Code	L Insert Length	Insert Length Code	Boss		A Head Thickness	C Head Diameter	D Insert Diameter	P Pilot Diameter	Number of Fins
					B Hole Dia. +.004 -.000	W Wall Thickness Min.					
INCH	2-56	256	.157	157	.126	.063	.018	.189	.147	.123	2
	4-40	440	.187	187	.157	.079	.023	.217	.178	.154	3
	6-32	632	.250	250	.189	.094	.029	.250	.209	.185	4
	8-32	832	.312	312	.220	.110	.035	.281	.240	.218	5
	10-24	1024	.375	375	.252	.126	.042	.312	.274	.248	5
	10-32	1032	.375	375	.252	.126	.042	.312	.274	.248	5
	1/4-20	2520	.500	500	.315	.157	.052	.375	.337	.310	7
	1/4-28	2528	.500	500	.315	.157	.052	.375	.337	.310	7
	5/16-18	3118	.500	500	.378	.189	.052	.433	.400	.375	7
	5/16-24	3124	.500	500	.378	.189	.052	.433	.400	.375	7

(1) All dimensions are in inches and reference unless toleranced.

	Insert Thread	Insert Thread Code	L Insert Length	Insert Length Code	Boss		A Head Thickness	C Head Diameter	D Insert Diameter	P Pilot Diameter	Number of Fins
					B Hole Dia. +0.10 -0.00	W Wall Thickness Min.					
METRIC	M2 x 0.4	M2	4.00	4.00	3.20	1.60	0.45	4.80	3.73	3.10	2
	M2.5 x 0.45	M2.5	4.80	4.80	4.00	2.00	0.58	5.50	4.52	3.90	3
	M3 x 0.5	M3	4.80	4.80	4.00	2.00	0.58	5.50	4.52	3.90	3
	M3.5 x 0.6	M3.5	6.40	6.40	4.80	2.40	0.74	6.40	5.31	4.70	4
	M4 x 0.7	M4	7.90	7.90	5.60	2.80	0.89	7.10	6.10	5.50	5
	M5 x 0.8	M5	9.50	9.50	6.40	3.20	1.07	7.90	6.96	6.30	5
	M6 x 1.0	M6	12.70	12.70	8.00	4.00	1.32	9.50	8.56	7.90	7
	M8 x 1.25	M8	12.70	12.70	9.60	4.80	1.32	11.10	10.16	9.50	7

(1) All dimensions are in millimeters and reference unless toleranced.

## STUD LENGTH

INCH	Stud Thread	Stud Thread Code	D Insert Diameter	S - Stud Length									
				.187	.250	.312	.375	.437	.500	.625	.750	.875	1.000
				Stud Length Code									
	2-56	256	.147	187	250	312	—	—	—	—	—	—	—
	4-40	440	.178	187	250	312	375	437	—	—	—	—	—
	6-32	632	.209	187	250	312	375	437	500	—	—	—	—
	8-32	832	.240	187	250	312	375	437	500	625	—	—	—
	10-24	1024	.274	187	250	312	375	437	500	625	750	—	—
	10-32	1032	.274	187	250	312	375	437	500	625	750	—	—
	1/4-20	2520	.337	—	250	312	375	437	500	625	750	875	1000
	1/4-28	2528	.337	—	250	312	375	437	500	625	750	875	1000
	5/16-18	3118	.400	—	—	312	375	437	500	625	750	875	1000
	5/16-24	3124	.400	—	—	312	375	437	500	625	750	875	1000

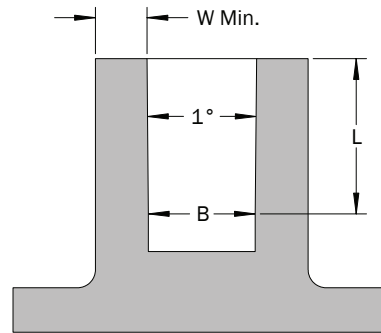
- (1) All dimensions are in inches and reference unless toleranced.  
 (2) Custom stud lengths available by request.

METRIC	Stud Thread	Stud Thread Code	D Insert Diameter	S - Stud Length									
				5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	25.00
				Stud Length Code									
	M2 x 0.4	M2	3.73	5.00	6.00	8.00	—	—	—	—	—	—	—
	M2.5 x 0.45	M2.5	4.52	5.00	6.00	8.00	10.00	—	—	—	—	—	—
	M3 x 0.5	M3	4.52	5.00	6.00	8.00	10.00	12.00	—	—	—	—	—
	M3.5 x 0.6	M3.5	5.31	5.00	6.00	8.00	10.00	12.00	14.00	—	—	—	—
	M4 x 0.7	M4	6.10	5.00	6.00	8.00	10.00	12.00	14.00	16.00	—	—	—
	M5 x 0.8	M5	6.96	5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	—
	M6 x 1.0	M6	8.56	—	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	25.00
	M8 x 1.25	M8	10.16	—	—	8.00	10.00	12.00	14.00	16.00	18.00	20.00	25.00

- (1) All dimensions are in millimeters and reference unless toleranced.  
 (2) Custom stud lengths available by request.

## BOSS DESIGN RECOMMENDATION

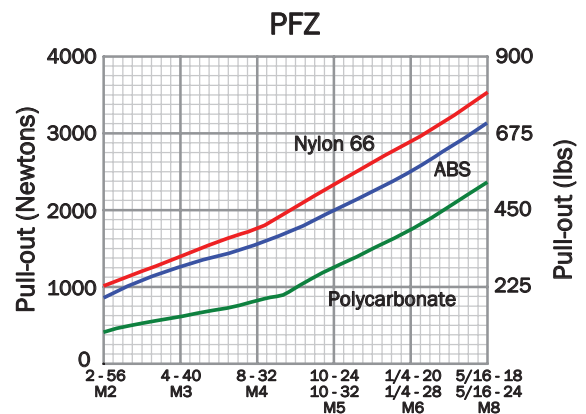
The PFZ Press-in Fin Zert is designed to be installed into a straight hole with a 1° inclusive taper. The top of the hole should not be countersunk or counterbored as this will decrease the insert's performance. The recommended hole size applies at the point reached by the bottom of the insert. Molded holes should be used wherever possible as drilled holes may result in diminished performance. Minimum boss wall thicknesses shown are for reference and may vary depending on the type of plastic.



## INSTALLATION

Press the insert into the boss using a squeezing action—never a hammer blow. Ensure that the insert maintains axial alignment during installation to prevent tilting which will induce side loads on the boss. Oversize boss holes weaken the insert's self-aligning characteristics causing side loads which may lead to possible boss cracking.

## PERFORMANCE



(1) Performance data shown is for reference only. Variations in application, boss material type and size, and installation method will affect the loads. PENCOM strongly encourages testing in the application.