

PennEngineering Corporate Headquarters – Danboro, PA 5190 Old Easton Rd. Danboro, PA 18916 Phone: 215-766-8853 Toll-Free Phone: 1-800-237-4736 (U.S. only) Email: info@pemnet.com Website: www.pemnet.com

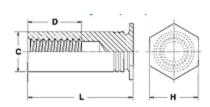
## Part # TSOA-440-500, Threaded Standoffs for Sheets as Thin as .025" - Types TSO, TSOA, TSOS - Unified

These standoffs, which use the proven self-clinching design, install with a squeeze in properly sized round holes - and become permanently mounted in the thin sheet.

Types TSO, TSOS, and TSOA self-clinching threaded standoffs provide permanent threads in sheets as thin as .025".

If you require a standoff which we do not offer in this bulletin, please contact us. We will be happy to work with you to satisfy your special need.





Specifications		-
Thread Size	.112-40 (#4- 40)	
Thread Code	440	
Length Code	500	
Material Code	А	
Style	#3	
Min. Sheet Thickness	.025 in	
Hole Size in Sheet + .003000	.166 in	
C + .000005	.165 in	
D - Min. Thread Depth	.220 in	
H Nom.	.187 in	
L - Length ± .003 <sup>1</sup>	.500 in	

Min. Dist. Hole C/L to Edge	.23 in
For Use in Sheet Hardness <sup>2</sup>	HRB 50 / HB 82 or less
Thread Specification	Internal, ANSI B1.1, 2B
Fastener Material	Aluminum

<sup>1</sup> Available in other lengths on special order.

<sup>2</sup> HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.