



## 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](mailto:info@pemnet.com)

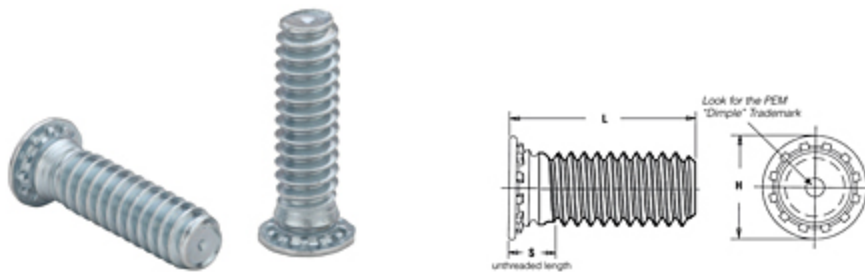
**Website:** [www.pemnet.com](http://www.pemnet.com)

## Part # FH-0420-24ZI, Self-Clinching Threaded Studs - Type FH/FHS/FHA - Unified

**PEM® self-clinching studs** are installed by placing them in properly sized holes in the sheets and squeezing into place with any standard press. The squeezing action embeds the head of the stud into the sheet. The metal displaced by the head flows smoothly and evenly around the ribs and into the annular groove – creating a flushhead assembly and securely locking the stud into the sheet with high torque-out and pushout resistances.

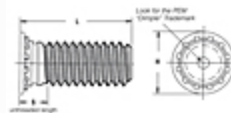
**FH (flush-head) studs** are available in aluminum, steel, or

[+ more](#)



### Specifications

<b>Thread Size</b>	.250-20 (1/4-20)
<b>Thread Code</b>	0420
<b>Length Code</b>	24
<b>Min. Sheet Thickness</b>	.062 in
<b>Hole Size in Sheet + .003 - .000</b>	.249 in
<b>Max. Hole in Attached Parts</b>	.270 in
<b>L - Length ± .015</b>	1.50 in
<b>H ± .015</b>	.337 in
<b>S Max.<sup>1</sup></b>	.135 in
<b>Min. Dist. Hole C/L to Edge</b>	.312 in
<b>For Use in Sheet Hardness</b>	HRB 80 / HB 150 or less
<b>Thread Specification</b>	External, ANSI B1.1, 2A



<b>Fastener Material</b>	Heat-Treated Carbon Steel	
<b>Standard Finish</b>	Zinc plated per ASTM B633, SC1	(5µm), Type III, colorless
<b>CAD Supplier</b>	PennEngineering® (PEM®)	

<sup>1</sup> Threads are gageable to within 2 pitches of the “S” Max. dimension. A class 3B/5H maximum material commercial nut shall pass up to the “S” Max. dimension.