



PennEngineering

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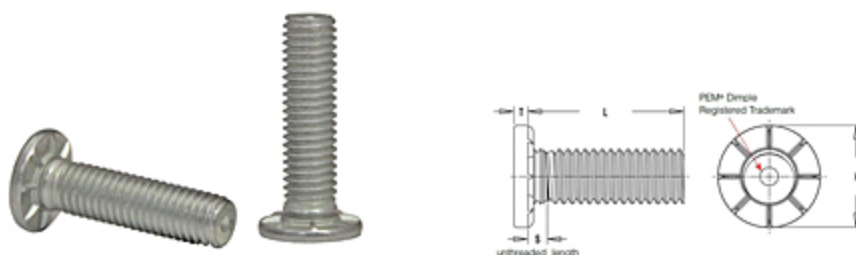
Website: www.pemnet.com

Part # HFLH-M8-30ZI, Type HFLH™ Hard Panel Studs - Metric

- Installs into thinner, harder, high strength steel materials (high strength steel sheets up to 700 MPa maximum ultimate tensile)
- Allows overall weight reduction for all vehicles
- Provides lower installed cost

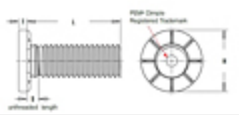
Compare to other thin sheet fastening devices:

- Addresses environmental concerns
- Lighter weight
- Close to edge of panel mounting
- No embossing required
- Hardened stud material provides stronger thread strength
- Can be installed automatically using press or in-die technology



Specifications

Thread Size x Pitch	M8 x 1.25
Thread Code	M8
Length Code	30
Min. Sheet Thickness	1.5 mm

Hole Size in Sheet + 0.13	8 mm	
L - Length ± 0.4	30 mm	
H ± 0.25	15.3 mm	
S Max.¹	3.3 mm	
T Max.	2.13 mm	
Max. Hole in Attached Parts	10.3 mm	
Min. Dist. Hole C/L to Edge	14.5 mm	
Tensile strength	900 MPa	
For Use in Sheet Hardness²	HRB 96 / HB 216 or Less	
Thread Specification	External, ASME B1.13M, 6g B1.1, 2A / ASME	
Fastener Material	Heat-Treated Alloy Steel	
Standard Finish	Zinc plated per ASTM B633, SC1 (5µm), Type III, colorless	
CAD Supplier	PennEngineering® (PEM®)	

¹ 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.

² HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell