



FOR IMMEDIATE RELEASE

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New PEM® Type THFE™ Heavy-Duty Studs with Large Diameter Heads Clinch Permanently Into Thin Metal Sheets and Reduce Stress on Panels

New PEM® Type THFE™ heavy-duty studs from PennEngineering® clinch permanently into thin metal sheets to provide robust fastening solutions and practical alternatives to weld studs for especially demanding applications where high strength attachment may be required. Their enlarged head diameter distributes axial tightening force over a wide area to reduce compressive stress on the host panel, improve pull through performance, and develop full thread strength. In addition, a thicker head design serves to accommodate larger holes in attached panels.

These studs install easily and quickly using any standard press by inserting them into a properly sized mounting hole (punch side) and into the anvil hole and then applying sufficient squeezing force. This action embeds the ribs on the head of the stud into the host sheet and the fastener becomes a permanent part of the assembly.

Type THFE self-clinching studs install reliably into steel or aluminum sheets as thin as .031" / 0.8mm with hardness of HRB 85 or less on the Rockwell "B" scale and HB 165 or less on the Hardness Brinell scale. Thread sizes range from ¼-20 through 5/16-18 and M6 through M8. Standard stud lengths are available up to 2" / 50mm.

Detailed specifications, CAD models, and performance data (Bulletin THFE) for these RoHS-compliant studs can be accessed at www.pemnet.com

About Penn Engineering

Penn Engineering & Manufacturing Corp. founded in 1942 in Doylestown, Pennsylvania, USA is the global leader in the design and manufacture of thin sheet fastening devices and installation systems. The Company is the developer and the sole manufacturer of PEM® brand self-clinching, broaching, surface mount, weld and other fasteners. The Company has manufacturing and technical facilities in two U.S. locations, Galway, Ireland and Kunshan, China. Together they support a network of exclusive global distributors and engineering representatives, providing customers with consistent quality, local sourcing, and technical expertise anywhere in the world. www.pemnet.com

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