SpotFast™ Fasteners

High hardness for proper installation into stainless steel sheets

The PEM® SpotFast™ self-clinching fastener from PennEngineering creates a permanent, flush joining of two sheets of metal. The fastener installs smooth with the top sheet, and flush or sub-flush with the bottom sheet. Squeezing the fastener into place causes a cold-flow of panel material into the fastener's two separate clinch profiles. This fastener is capable of joining two dissimilar metals, including unequal thicknesses. Rotational by design, the use of a single fastener can also act as a hardened pivot point if so desired.

Features and Benefits

- Alternative to riveting or welding.
- No special installation equipment required.
- Standard parts install into sheets as thin as .039"/1mm.
- Flush mounted.
- Minimal space requirements.
- Can be installed blind into bottom (sheet 2) panel.
- Can join dissimilar metal (which otherwise can not be welded).
- Can be concealed with paints and powder coatings.
- Can be used as single flush-mounted pivot point.
- RoHS compliant.

www.pemnet.com
Installation

1. Punch or drill properly sized mounting hole in both panels. Do not perform any secondary operations such as deburring.

2. Place Panel 2 with smaller mounting hole on anvil and align Panel 1 mounting hole with the mounting hole of Panel 2. Place the smaller diameter end of the fastener through the mounting holes as shown in the drawing.

3. With the punch and anvil surfaces parallel, apply squeezing force until the fastener is flush with the top of Panel 1.

Material & Finish Specifications

**Fastener Material:** Precipitation Hardening Grade Stainless Steel

**Finish:** Passivated and/or tested per ASTM A380

**For Use In Sheet Hardness:** HRB 86 / HB 183 or less

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RoHS compliance information can be found on our web site.

Specifications subject to change without notice.

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