

EFC Engineering Solutions

EJOT SHEETtracs®

INTERNATIONAL
ISO 9001:2008 CERTIFIED

Perfect for a secure screw joint in thin sheet metals

Today the thickness of sheet metals is constantly being reduced for cost saving measures. The process-safe assembly of thin sheets with pilot holes has always been a problem. The Ejot SHEETtracs® is a self tapping screw designed for a safe joint in thin sheet metals with a pre-formed pilot hole.

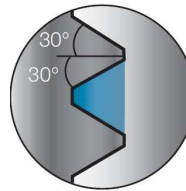


Features and Benefits:

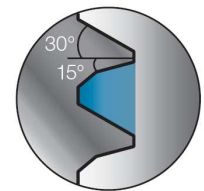
- High strength of the joint
- High vibration resistance
- Simple and safe assembly due to good alignment and low installation torque
- High stripping torque due to a robust female thread
- Metric compatibility

Characteristics of SHEETtracs®

- * The **reduced flank angle of 45°** creates a more stable female thread compared to common 60° threads, increasing the torque level and enables a safe assembly in thin sheet metal.

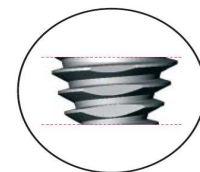
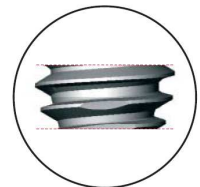
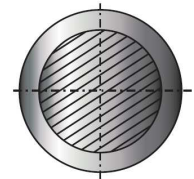


60° thread

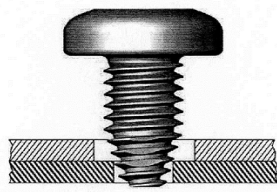


SHEETtracs

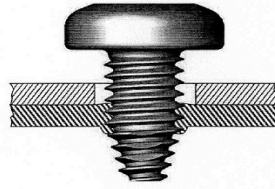
- * The **circular cross section** is designed to maximize the thread engagement area compared to non-circular thread geometries.
- * The **reversed flank angle**: Since the through draft's direction is in the same direction as the fastening direction an additional increase in thread penetration depth can be expected. The thread forming zone only affects the lead threads of the screw and ends before reaching the nominal diameter of the thread.
- * **Non-circular thread forming zone** enables simple and concentric insertion resulting in easy fastening of the screw. The raised thread area enables a safe engagement into sheet metal.



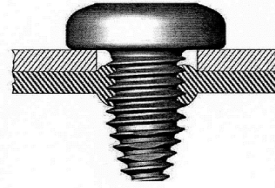
Stages of assembly:



Applying



Thread forming



Tightening

Usage of the screw

Fastening into thin sheet metal (with pilot hole) made of:

- * Mild unalloyed steels with tensile strength up to 410MPa acc. To DIN EN 10130 (DC 01—DC 05)
- * Micro alloyed steel with higher yield strength acc. To DIN EN 10268 (H 240 M—H 320M)
- * Phosphorous alloyed steels with higher yield strength for cold forming and bake-hardening steels (H 240 M—H 320 M)
- * Preferred material thicknesses: 0.50—1.50 mm
- * Stainless steel is not possible



Atlanta | St. Louis | Chicago | Toronto

800.888.3326

www.efc-intl.com