TECHNICAL DATA SHEET
EPPIC Insert System

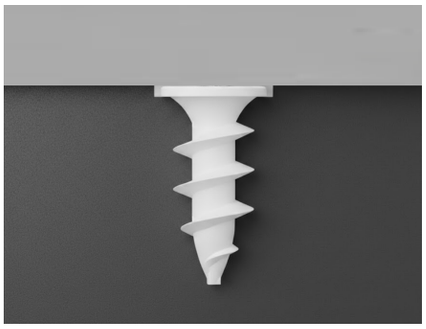


When to choose EPPIC Insert System?

The EPPIC system is designed for the easy and efficient assembly of EPP foam to metal, plastic, or other cover materials. It is the ideal solution for applications requiring:

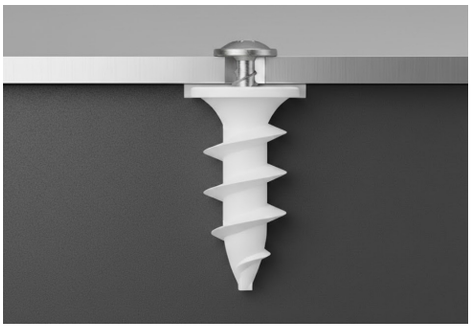
- Repeated assembly and disassembly.
- High pull-out and loosening resistance.
- Manual, semi-automated or fully automated assembly lines.
- Process reliability: a large safety margin between installation and stripping torque.

How does EPP Insert System work?



EPPIC Insert installation into EPP

- The special point design pierces and compacts the foam around the insert, **eliminating the need for pilot holes.**
- LOBED cross-section **reduces installation torque** and enhances EPP foam retention between the threads for **superior locking.**

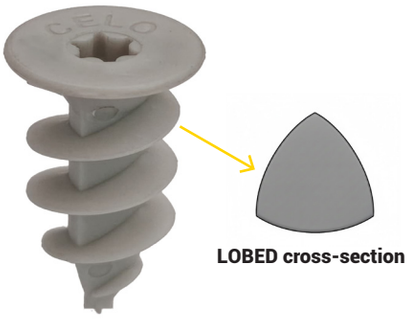


Screw installation

- The assembly of the cover part is completed by driving a self-threading screw into the internal hole of the EPPIC insert. We recommend TWINPLAST or REMFORM® screws.
- **TWINPLAST screw:** Twin lead thread ensures a fast installation and allows for a higher tightening torque.

*We provide technical recommendations for tightening torque and validation for your assembly line.

Benefits of EPPIC Inserts System



- **High process reliability:** Allows higher tightening and secure assembly without damaging the EPP foam.
- **Superior retention**. High pull-out resistance ensures a reliable components retention in the EPP foam.
- **High resistance to loosening.** The unique design enhances foam compression, ensuring effective mechanical locking and preventing loosening.
- EPPIC inserts can be **installed directly into the foam**, no pilot hole is required.
- **Versatile assembly** into manual, semi-automated or fully automated lines.
- **Reusable.**The EPPIC insert **stays in position and does not become loose.**
- The EPPIC insert is **100% recyclable.**
- **Reduces total assembly costs by eliminating scrap and rework of EPP components.**

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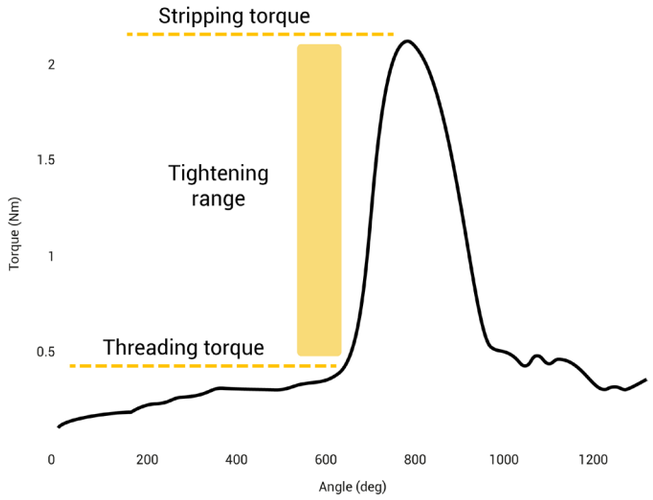
Assembly Guidelines

Screwing the insert into EPP

EPP Density (g/L)	Tightening Torque (Nm)
60	1,7
80	2,2
100	2,5
100	2,6

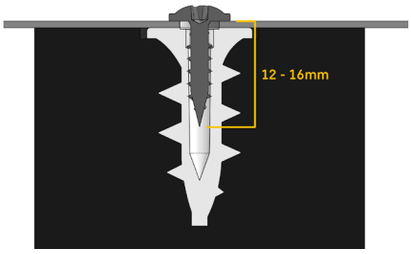
* These values are indicative and must be verified the first time by application testing.

Screw installation



Recommended tightening torque 1,3 Nm at 500 RPM max.

EPPIC Inserts System Specifications



EPPIC insert is available in length 30mm for optimal load distribution.

TWINPLAST screw is available in wide lengths range to accommodate different cover thickness. Screw length should be selected to achieve an engagement of 12–16 mm.

TWINPLAST screw features

Cut off-point for easier engagement into the EPPIC insert

Twin lead thread for a fast installation and higher tightening torque without risk of stripping.

Further information at: **www.celofasteners.com**

Contact us by E-mail: **celo@celo.com**

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