Tenn™ FASTENING SYSTEMS

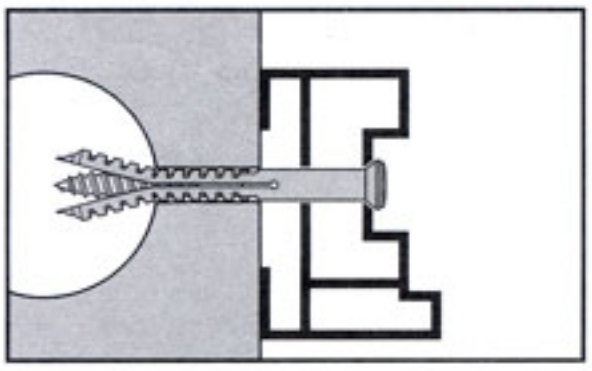
TENN FRESCON Frame Plugs

Tenn Frescon Frame Plugs are designed to speed up on-site assembly operations. These plugs make it easy to fasten timber battens, aluminium or wooden door and window frames, wall cabinetry etc. to brickwork and concrete. With Frescon plugs, there is no need to mark out the drill-hole locations; the anchor holes can be drilled through the clearance holes in the attachments.

Frescon Frame Plugs are supplied as a two-piece unit consisting of a full length Polyamide 6-6 expansion sleeve and a hardened carbon steel expander screw. The long length sleeve gives full support to the steel screw ensuring safe anchorage and consistent fastening results.

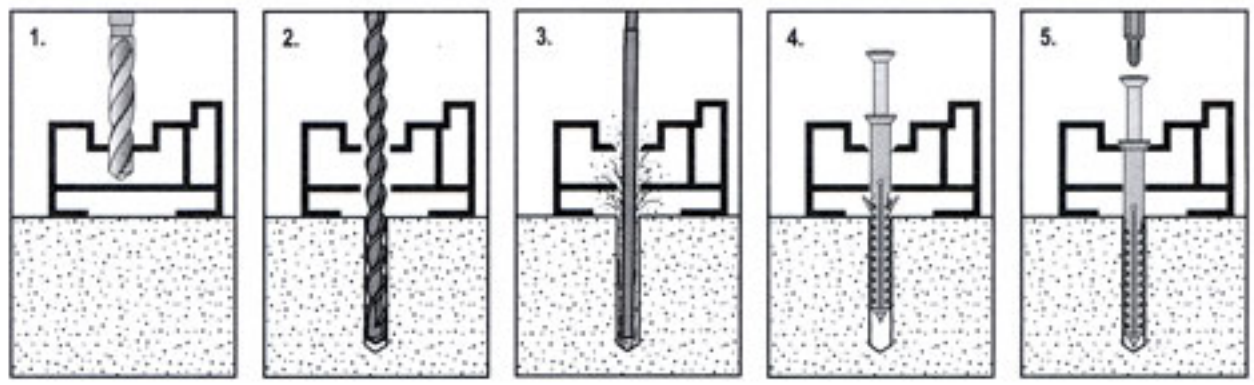
- Side lugs on the anchor body engage the frame to give extra support and prevent anchor rotation during setting
- Plastic sleeve isolates the anchor's internal steel screw from contact with the aluminium frame thereby preventing dissimilar metal contact that would result in galvanic contact and rust staining
- May also be used to fasten timber or aluminium door and window frames

Installation in Perforated Brick



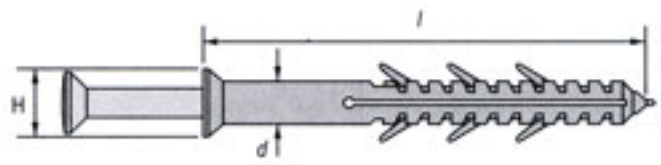
Due to its long expansion length, Frescon Frame Plugs can be used in perforated brick.

INSTALLATION PROCEDURE



1. Position the frame and drill an 11 mm (7/16") hole through the PVC or aluminium section using an HSS twist drill.
2. Drill the base material through the hole in the section to the required depth using a 10 mm masonry or hammer drill bit.
3. Vacuum or blow dust out of the hole.
4. Insert Tenn Frescon Frame Plug.
5. Turn in the screw to expand the anchor.

TENN FRESCON FRAME PLUG RANGE AND INSTALLATION DATA



Type	Anchor Dimensions d x l, mm	Drill-Hole Diameter d_o, mm	Maximum Attachment Thickness t_{fix}, mm	Minimum Drill-Hole Depth h_o, mm	Head Diameter d_k, mm	Clearance Hole Diamater - D2, mm
TFF.20902	10 x 105	10	45	70	14	11
TFF.20903	10 x 120	10	60	70	14	11
TFF.20904	10 x 140	10	80	70	14	11
TFF.20905	10 x 160	10	100	70	14	11

ULTIMATE LOADS

Effective Embedment Depth h_{ef}, mm	Critical Spacing s_{cr}, mm	Critical Edge Distance c_{cr}, mm	Average Ultimate Loads in C20/25 Concrete*		Average Ultimate Loads in solid brickwork**	
			Tension N_u, kN	Shear V_u, kN	Tension N_u, kN	Shear V_u, kN
60	60	60	7.20	8.60	3.20	3.80

*A safety factor of 4 is recommended for single anchors under static loading conditions.
**A safety factor of 5 is recommended for single anchors under static loading conditions.