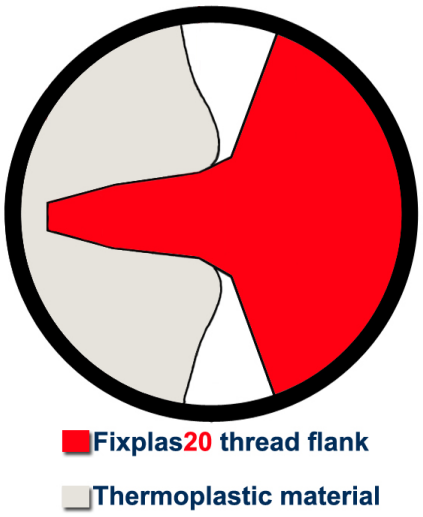
Thread Forming Screw For Thermoplastics

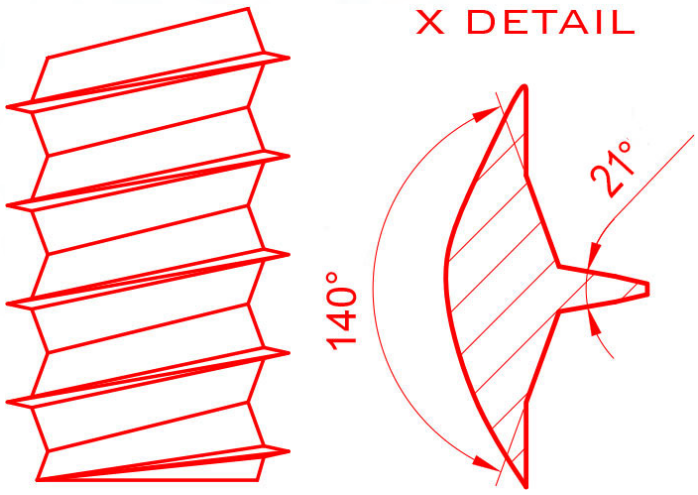
FIX-PLAS20 SCREW

FEATURES AND BENEFITS

The re-designed geometrical flank allows for optimized movement of plastic material while initiating the fastening procedure.

- Under static and dynamic stress, a considerable increase is ensured in the service life of the joint.
- At the same nominal diameter, up to 50% gain in torsional and tensile strength.
- As there is a larger core and reduction in the thread pitch length, shorter fasterners and/or smaller diameters may be used.
- Improved pitch provides added vibrational safety.





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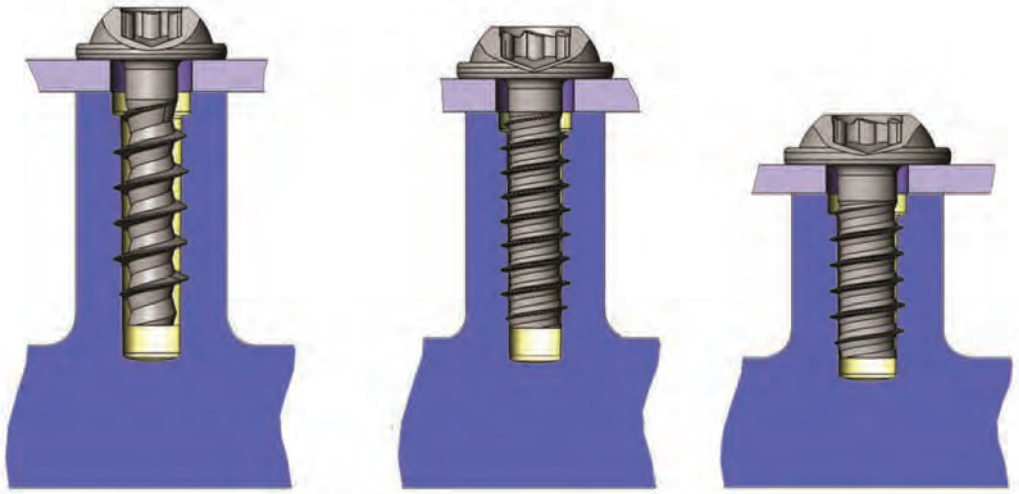
FEATURES AND BENEFEATURES AND BENEFITS

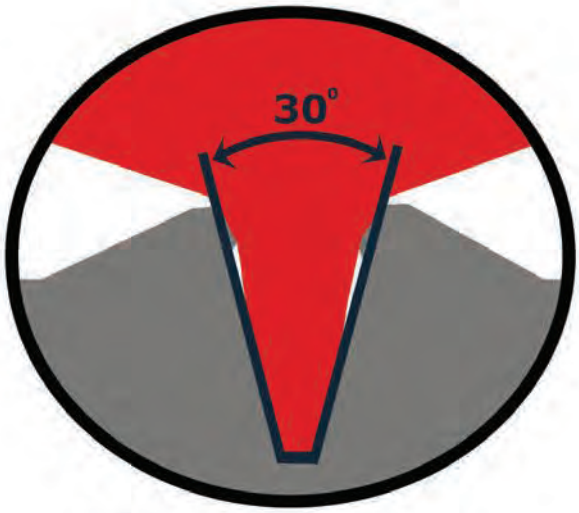
The visuals below show the advantages of a reduced fastener length and diameter by comparing PLAS30 to PLAS20. Substitute 1 provides a reduction in length, whereas Substitue 2 provides a reduction in diameter. For both scenarios, the reduction in pitch from the PLAS20 provides a maintainted thread flank. Thus, allowing for material cost savings as the boss diameters or heights are reduced without a decrease in joint performance.



Initial Situation
Plas20 - 40x14

Substitute 1
Plas20 - 50x14

Substitute 2
Plas30 - 50x18



- Plas30 thread flank
- Plas20 thread flank

Thermoplastic material

Prevention of Material Deiformationx

Advanced developments in flank design ensure optimal thread forming without damaging the material. Detailed analysis of thread forming and its disposition of material allowed for the creation of optimized flank geometry. Lowest resistance is observed during material deformation, which in return prevents frictional heating.

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