

- Outperforms other types of plugless fixings in both performance and durability.
- Self-tapping hi-lo thread provides ultimate grip and re-fixing capability.
- Suitable for masonry blockwork, concrete, and stone.
- Ideal for window and door frame fixing.
- Effective for timber, facades, metal profiles and panels.

Technical Specifications

DETAIL	FFT 7.5mm	PFT 7.5mm
Designed For	Fixing wood, metal or PVCu frames to masonry structures - No plug required	
Head Style/Drive Recess	Truncated Countersunk/ Torx 30	Button Head/ Torx 30
Thread Form/Point	Twin Hi-Lo, partial cutting thread/ Sharp Point	
Effective Thread Length	Fully Threaded	
Material Grade	AISI C1022 Carbon Steel – Case Hardened	
Coating	Electroplated Zinc Yellow	Electroplated Zinc Clear
Corrosion Protection	Grade 3 acc. to BS EN 1670:2007	
Salt Spray Test (SST)	Minimum 96 Hours in accordance with BS EN ISO 9227:2022+A1:2024	

Mechanical Data – Average Resistance Characteristics

TYPE	TENSILE CAPACITY ($F_{TENS,K}$)	CHARACTERISTIC RESISTANCE (R_k)	SHEAR STRENGTH (T_{SHEAR} / T_{UT})	TORSIONAL CAPACITY (T_{ULT})
FFT 7.5mm	12.25kN	7.40kN	324 Mpa	13.96Nm
PFT 7.5mm	13.23kN	8.21kN	324 Mpa	15.68Nm

NOTE Data values are based on empirical testing calculations and are indicative only. Designers, specifiers and end-users are responsible for determining and applying appropriate safety factors along with ensuring correct installation for the specific application.

Installation Guidance

EXAMPLE DETAIL	MINIMUM EMBED DEPTH	CHARACTERISTIC PULL-OUT RESISTANCE	GENERAL TORQUE GUIDANCE
Engineering Brick	40mm	10.20kN*	9–13Nm
Concrete Block	50mm	6.91kN*	9–13Nm
Clay Brick	45mm	4.55kN*	6–10Nm
Medium Density Aerated Block	60mm	3.35kN*	5–8Nm
Drill Requirements	Pilot hole with a 6.0mm or 6.5mm dia masonry drill (dependent on substrate density)		

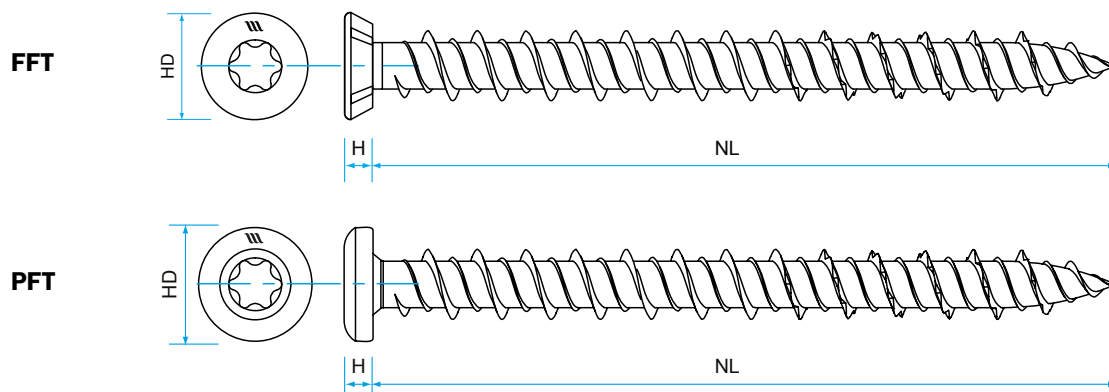
***NOTE** Pull out figures are typical values. Ultimate pull out will be dependant on the condition and compressive strength of the material. It is recommended that any user establish the condition of any substrate prior to usage and carry out best practice proof load testing for safety critical applications.

- Assess the suitability of the location during the design and selection process to ensure long-term reliability.
- Correct installation of masonry anchors is essential to ensure structural integrity and prevent failures – particularly in safety-critical applications.
- Careful drilling is critical to prevent damaged holes caused by excessive hammer or percussion drilling – PGM certified drill bits are advised for hammer drills.
- Resistance loads must have appropriate safety factors applied based on the specific application.
- Sufficient fixings should be provided to create alternative load paths in case of base material failure.
- Avoid over-tightening to maintain optimal fixing performance.
- Wet masonry and concrete creates corrosive environments, significantly impairing fixing effectiveness.



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STARFIX Product Range

PRODUCT CODE	SIZE – SHANK X NL	HD	H	BOX QUANTITY
FFT 7.5 X 62 Y	7.5mm X 62mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 82 Y	7.5mm X 82mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 102 Y	7.5mm X 102mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 122 Y	7.5mm X 122mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 142 Y	7.5mm X 142mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 152 Y	7.5mm X 152mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 182 Y	7.5mm X 182mm	11.0mm ±0.50mm	3.5mm	100
FFT 7.5 X 202 Y	7.5mm X 202mm	11.0mm ±0.50mm	3.5mm	100
PFT 7.5 X 102 Z	7.5mm X 102mm	12.0mm ±1.00mm	3.0mm	100
PFT 7.5 X 122 Z	7.5mm X 122mm	12.0mm ±1.00mm	3.0mm	100
PFT 7.5 X 142 Z	7.5mm X 142mm	12.0mm ±1.00mm	3.0mm	100

Supporting Documentation

- Report No.: 7485-24-000579-01-U
UKAS Single point shear tests on self-tapping concrete screws with nominal dimensions of 7.5 x 120.0mm
- Declaration of Performance:
005CPR02-05-2013-StarFix-Carbon-DoP
- ISO9001-2015-218503 BAB Management Certificate
- ISO14001-2015-241585 BAB Management Certificate

References and Sources

- BS EN ISO 17025: 2017
- MIL-STD-1312-13
- BS EN 1670:2007
- BS EN ISO 9227:2022+A1:2024
- BS EN 14566:2008+A1:2009
- BS 8539:2012+A1:2021
- BS EN 14351-1:2006+A2:2016
- BS 7412:2024



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