



TECHNICAL DATA SHEET

PowerLoc HEAVY DUTY TIMBER SCREW



We confirm our range of PowerLoc Heavy Duty Timber Screws are manufactured from C1022 Case Hardened Steel and have the following characteristics / specifications:-

HEAD:	8mm Hex / Fixed Washer / Countersunk
SHANK:	U-Thread
THREAD:	Pitch - 2.88mm to 3.52mm / Angle - 55° to 65°
POINT:	Type 17 Slash Cutting Point / Angle 25° to 35° (Sharp)
FINISH:	Green Organic Coating , ACQ Resistant, SST 1,000Hrs, No Red Rust

The screw dimensional specifications are as follows (all sizes):-

FEATURE	SPECIFICATION
Width Across Flats	7.78 to 8.00mm
Width Across Corners	8.71mm (Min.)
Head Thickness	6.00 to 6.30mm
Washer Diameter	11.50 to 12.20mm
Washer Thickness	1.00mm (Min.)
Neck Diameter	7.80 to 7.95mm
Neck Angle	40° to 45°
Neck Length	3.50mm (Ref.)
Shank Diameter	4.95 to 5.05mm
U-Thread Diameter	5.80mm (Ref.)
U-Thread Length	12.50mm (Ref.)
U-Thread Length	2.17mm (Ref.)
Pitch	2.88 to 3.52mm
Thread Angle	55° to 65°
Point Angle	25° to 35°
Thread Length	50.00 to 55.00mm
Torsional Strength	130kgf-cm (Min.)
Surface Hardness	450 to 750 HV 0.3
Core Hardness	320 to 450 HV

The screws are CE certified to BS EN 14592:2008 for performance, results as follows:-

FEATURE	SPECIFICATION
Withdrawal resistance	12.5 N/mm ²
Pull Through Resistance	25.0 N/mm ²
Torsional Resistance	3.6 Nm
Torsional Ratio	24.3
Yield Moment	23008
Tensile Capacity	414.4 N/mm ²

The individual screw length specifications are as follows:-

PRODUCT (VJT Code / Length)	SPECIFICATION (Total Length)
13260010 / 100mm	98.50 to 101.50mm
13260020 / 150mm	148.50 to 151.50mm
13260030 / 200mm	198.50 to 201.50mm
13260040 / 250mm	248.50 to 251.50mm

This data sheet is valid until there is significant change in the product and characteristics.

Signed By:

Name:

Richard Dunn

Position:

Managing Director

Date:

28 September 2017