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PRODUCT DATASHEET HEX HEAD TEK SCREW FOR HEAVY STEEL

Product Details

Designed for: Fixing steel to heavy section steel

Head style: Hexagonal
Drive bit: 5/16" hexagonal
Drill point: Tek X spiral point

Thread form: Single, 14 threads per inch intermediate thread 'V' fluted

Coating: 1000hr Evoshield®

Shank material: Carbon steel Material grade: AISI C1022

Recommended drill speed: 1500-2500 RPM Steel thickness: 4.0mm – 30.0mm

Super Tek X Range - For Heavy Steel

Product code	Size	Drilling Capacity	Box Quantity	Carton Quantity
TSHW6.3-85-X	6.3 x 85.0mm	4.0 – 30.0mm	100	1,200
TSHW6.3-135-X	6.3 x 135.0mm	4.0 – 30.0mm	100	1,200

Technical Data

Tek X range – Un-factored Pull Out Loads									
Diameter	Drill	Steel Thickness							
Poin	Point	4.0mm	8.0mm	12.0mm	15.0mm	20.0mm	25.0mm	30.0mm	35.0mm
6.3mm	Tek X	5.7kN	10.9kN	15.3kN	17.6kN	21.5kN	23.4kN	25.4kN	27.8kN

Hardness Rating (Vickers Scale)			
Diameter	Surface Hardness	Core Hardness	
6.3mm	593.8 HV0.3	425.7 HV0.3	

Un-factored Mechanical Performance			
Diameter	Tensile Strength	Shear Strength	
6.3mm	22.7kN	12.5kN	

ABOUT OUR TESTING



All test results were derived from empirical testing performed by ETAS (Evolution Testing & Analytical Services), a UKAS (United Kingdom Accreditation Service) accredited testing laboratory (Accreditation No. 7485). The following tests were performed to the following standards.

Testing Procedures



7485

Test/ Parameter	Standard/ Method/ Procedure
Ultimate Tensile	ISO 6892-1: 2009 "Metallic materials – tensile testing – Part 1: Method of test at room temperature".
Ultimate Shear	MIL-STD-1312-13 "Military Standard: Fastener test method (Method 13) Double shear test".
Pull Out (Withdrawal Force)	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".
Pull Over	EN 14592: 2008 "Timber structures. Dowel type fasteners. Requirements".
Hardness	ISO 650 7-1: 2005 "Metallic materials – Vickers hardness test – Part 1: Test method".
Corrosion Resistance	EN ISO 9227: 2012 "Corrosion tests in artificial atmospheres. Salt spray tests".
Drilling Time Test	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".

Laboratory Contact Details

Evolution Testing & Analytical Services

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