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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 – 35.0mm*

Super Tek X Range - For Heavy Steel

Product code	Size	Drilling Capacity	Box Quantity	Carton Quantity
TSHW6.3-135-X	6.3 x 135.0mm	4.0 – 35.0mm	100	1,200

Technical Data

Tek X range – Un-factored Pull Out Loads								
Diameter	Drill Point	Steel Thickness						
		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

NOTE: The results expressed in the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/ her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc).
Errors and Omissions Excepted.

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.

7485

Testing Procedures

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

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