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PRODUCT DATASHEET COMPOSITE PANEL FOR TIMBER

Product Details

Designed for: Headstyle: Coating: Shank material: Material grade: Fixing cladding and roofing applications to timber. 5/16 hex-head 500 hour Evoshield [®] Carbon steel AISI C1022

Composite Panel for Timber Range

Product code	Dimensions (mm)	Box Quantity	Carton Quantity
TSBWHT6.3-80-GP	6.3 x 80.0	100	1,400
TSBWHT6.3-100-GP	6.3 x 100.0	100	1,200
TSBWHT6.3-125-GP	6.3 x 125.0	100	1,200
TSBWHT6.3-150-GP	6.3 x 150.0	100	900

Technical Data

Hardness Rating (Vickers scale)		Ultimate Mechanical Performance			
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
6.3mm	569.3 HV0.3	452.1 HV0.3	6.3mm	23.3kN	16.0kN

Ultimate Pull Out Values						
Diameter	Drill Point	Substrate				
		0.6mm steel	1.2mm steel	C16 timber		
6.3mm	Gash Point	1.2kN	2.9kN	1.7kN		

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).

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 <i>"Military Standard: Fastener test method (Method 13)</i> <i>Double shear test".</i>
Pull Out (Withdrawal Force)	EN 14566: 2009 <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>
Pull Over	EN 14592: 2008 <i>"Timber structures. Dowel type fasteners. Requirements".</i>
Hardness	ISO 650 7-1: 2005 <i>"Metallic materials – Vickers hardness test – Part 1:</i> <i>Test method".</i>
Corrosion Resistance	EN ISO 9227: 2012 "Corrosion tests in artificial atmospheres. Salt spray tests".
Drilling Time Test	EN 14566: 2009 <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>
Laboratory Contact Details	Evolution Testing & Analytical Services Units 2A & 2B Clyde Gateway Trade Park Dalmarnock Road Rutherglen South Lanarkshire G73 1AN T: (0141) 643 4125 F: (0141) 647 5100 E: sales@etasuk.com