



Evolution Fasteners (UK) Ltd
 Units 2A & 2B Clyde Gateway Trade Park
 Dalmarnock Road, Rutherglen, Glasgow G73 1AN
 Tel: +44 (0)141 647 7100 / Fax: +44 (0)141 647 5100
 Email: technical@evolutionfasteners.co.uk



www.evolutionfasteners.co.uk



PRODUCT DATASHEET

STRUCTURAL DECKING SCREW

Product Details

Designed for: *Fixing timber to timber where a structural fixing is required.*

Head style: *8mm Hex Head*

Thread form: *Coarse thread*

Coating: *Evoshield 1000hr*

Drill point: *Type 17*



Structural decking screw range

Product Code	Size	Recommended drill speed
SDSFHC75	6.3x75mm	1500-2500 RPM
SDSFHC90	6.3x90mm	1500-2500 RPM
SDSFHC100	6.3x100mm	1500-2500 RPM
SDSFHC125	6.3x125mm	1500-2500 RPM
SDSFHC150	6.3x150mm	1500-2500 RPM
SDSFHC200	6.3x200mm	1500-2500 RPM
SDSFHC250	6.3x250mm	1500-2500 RPM
SDSFHC300	6.3x300mm	1500-2500 RPM
SDSFHC350	6.3x350mm	1500-2500 RPM
SDSFHC400	6.3x400mm	1500-2500 RPM

Technical Data

Hardness Rating (Vickers scale)			Ultimate Mechanical Performance		
Diameter	Surface Hardness	Core Hardness	Diameter	Tensile Strength	Shear Strength
6.3mm	528.0HV	399.2HV	6.3mm	17.7kN	20.7kN

Ultimate pull out values			
Diameter	Drill point	Timber Embedment Depth	
		15.0mm	30.0mm
6.3mm	Type 17	1.9kN	2.7kN

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.



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

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