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PRODUCT DATASHEET

A4 STAINLESS STEEL WOODSCREWS

Product Details

Designed for: *Universal fixing to wood, chipboard, MDF, plastics and composites where a stainless steel version is required*

Head style: *Double countersunk with nibs*

Shank material: *Stainless steel*

Material grade: *AISI316 (A4)*

A4 Stainless Steel Woodscrews

Product Code	Size	Box Qty	Carton Qty
A4WS4040	4.0 x 40.0mm	200	6,400
A4WS4050	4.0 x 50.0mm	200	6,400
A4WS4070	4.0 x 70.0mm	200	4,800
A4WS5040	5.0 x 40.0mm	200	4,800
A4WS5050	5.0 x 50.0mm	200	4,800
A4WS5060	5.0 x 60.0mm	200	3,200
A4WS5070	5.0 x 70.0mm	200	3,200
A4WS5090	5.0 x 90.0mm	200	3,200
A4WS50100	5.0 x 100.0mm	100	2,400
A4WS60100	6.0 x 100.0mm	100	2,400
A4WS60120	6.0 x 120.0mm	100	1,600

Technical Data

Ultimate pull out data		
Diameter	Embedment depth	Ultimate load
4.0mm	20.0mm	1.0kN
	50.0mm	1.8kN
5.0mm	30.0mm	2.1kN
	60.0mm	4.8kN
6.0mm	40.0mm	2.3kN
	60.0mm	7.5kN

Hardness rating (Vickers scale)		
Diameter	Surface hardness	Core hardness
4.0mm	465.0HV	330.0HV
5.0mm	464.0HV	352.0HV
6.0mm	445.0HV	376.0HV

Ultimate mechanical performance		
Diameter	Tensile strength	Shear strength
4.0mm	4.0kN	3.1kN
5.0mm	6.4kN	4.3kN
6.0mm	10.4kN	7.5kN

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.

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ABOUT OUR TESTING



7485

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

Test/ Parameter	Standard/ Method/ Procedure
Ultimate Tensile	ISO 6892-1: 2009 <i>"Metallic materials – tensile testing – Part 1: Method of test at room temperature".</i>
Ultimate Shear	MIL-STD-1312-13 <i>"Military Standard: Fastener test method (Method 13) 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: Test method".</i>
Corrosion Resistance	EN ISO 9227: 2012 <i>"Corrosion tests in artificial atmospheres. Salt spray tests".</i>
Drilling Time Test	EN 14566: 2009 <i>"Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods".</i>

Laboratory Contact Details

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