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# PRODUCT DATASHEET

## A4 WING DRILL TEK SCREW

### Product Details

<i>Designed for:</i>	Fastening to timber when stainless steel product is required e.g. in conjunction with aluminium sheeting/ panels and steel substrates
<i>Head style:</i>	Countersunk
<i>Drive bit:</i>	Torx 25
<i>Shank material:</i>	Stainless steel
<i>Material grade:</i>	AISI316 (A4)
<i>Coating:</i>	Electroplated zinc

### A4 Wing Drill Tek Screw Range

Product Code	Size	Drill Point	Effective Thread Length	Drilling Capacity	Recommended drill speed	Timber Thickness
A4WD4.8-38-3	4.8 x 38.0mm	Tek 3	24.0mm	1.2 – 3.5mm	1500 – 2500RPM	6.0 – 22.0mm
A4WD5.5-62-3	5.5 x 62.0mm	Tek 3	48.0mm	1.2 – 3.5mm	1500 – 2500RPM	6.0 – 44.0mm



Technical Data

Pullover performance	
Diameter	Substrate – 50mm timber
4.8mm	1.7kN
5.5mm	1.7kN

Unfactored pull out values							
Diameter	Drill point	Steel thickness					
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
4.8mm	Tek 3	1.7kN	2.5kN	3.3kN	4.6kN	5.1kN	6.1kN
5.5mm	Tek 3	1.8kN	2.2kN	2.5kN	3.4kN	4.3kN	6.2kN

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
4.8mm	457.0 HV0.3	369.0 HV0.3
5.5mm	457.0 HV0.3	369.0 HV0.3

Unfactored Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
4.8mm	9.2kN	6.5kN
5.5mm	13.2kN	10.9kN

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

## Laboratory Contact Details

### Evolution Testing & Analytical Services

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