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PRODUCT DATASHEET

FINE THREAD DRYWALL SCREW (PHOSPHATE)

Product Details

Designed for: *Fixing plasterboard to metal stud up to 1.2mm*
 Head style: *Bugle*
 Drive bit: *Phillips 2*
 Drill point: *Super sharp point*
 Thread form: *Twin thread, fine*
 Coating: *Black phosphate*
 Shank material: *Carbon steel*
 Material grade: *AISI C1022*



Coarse thread phosphate coated drywall range

Product Code	Size	Effective thread length	Recommended drill speed	Fixture thickness
DWSP25	3.5 x 25.0mm	Fully threaded	4000 – 6000RPM	15.0mm
DWSP32	3.5 x 32.0mm	Fully threaded	4000 – 6000RPM	22.0mm
DWSP38	3.5 x 38.0mm	Fully threaded	4000 – 6000RPM	28.0mm
DWSP42	3.5 x 42.0mm	Fully threaded	4000 – 6000RPM	32.0mm
DWSP50	3.5 x 50.0mm	Fully threaded	4000 – 6000RPM	40.0mm
DWSP65	4.2 x 65.0mm	50.0mm	4000 – 6000RPM	55.0mm
DWSP75	4.2 x 75.0mm	50.0mm	4000 – 6000RPM	65.0mm
DWSP100	4.2 x 100.0mm	65.0mm	4000 – 6000RPM	90.0mm

Technical Data

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
3.5mm	540.0HV	480.0HV
4.2mm	620.0HV	450.0HV
4.8mm	590.0HV	460.0HV

Ultimate mechanical performance		
Diameter	Tensile Strength	Shear Strength
3.5mm	6.5kN	4.4kN
4.2mm	8.1kN	5.1kN
4.8mm	12.3kN	7.0kN

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.



Technical Data continued...

Ultimate pull out values				
Diameter	Point	Steel Thickness		
		0.6mm	1.0mm	1.2mm
3.5mm	Super sharp point	0.8kN	1.6kN	2.0kN
4.2mm	Super sharp point	0.8kN	2.1kN	2.4kN
4.8mm	Super sharp point	1.0kN	2.1kN	2.6kN

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

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".



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Laboratory Contact Details

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