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PRODUCT DATASHEET

COARSE THREAD DRYWALL SCREW (PHOSPHATE)

Product Details

Designed for: *Fixing plasterboard to timber*
 Head style: *Bugle*
 Drive bit: *Phillips 2*
 Drill point: *Super sharp point*
 Thread form: *Single*
 Coating: *Black phosphate*
 Shank material: *Carbon steel*
 Material grade: *AISI C1022*



2008 = 01DW-01/14

Coarse Thread Phosphate Coated Drywall Range (in mm unless otherwise stated)

Product Code	Nominal Dimensions	Effective Thread Length	Rec. Drill Speed (RPM)	Max. Fixture Thickness
DWSC25	3.5 x 25.0	Full	3,000 – 4,000	15
DWSC32	3.5 x 32.0	Full	3,000 – 4,000	22
DWSC35	3.5 x 35.0	Full	3,000 – 4,000	22
DWSC38	3.5 x 38.0	Full	3,000 – 4,000	25
DWSC42	3.5 x 42.0	Full	3,000 – 4,000	32
DWSC50	3.5 x 50.0	Full	3,000 – 4,000	40
DWSC65	4.2 x 65.0	50.0	3,000 – 4,000	55
DWSC75	4.2 x 75.0	50.0	3,000 – 4,000	65
DWSC90	4.8 x 90.0	50.0	3,000 – 4,000	80
DWSC100	4.8 x 100.0	60.0	3,000 – 4,000	90
DWSC110	4.8 x 110.0	60.0	3,000 – 4,000	100
DWSC120	4.8 x 120.0	60.0	3,000 – 4,000	110
DWSC130	4.8 x 130.0	60.0	3,000 – 4,000	120
DWSC150	4.8 x 150.0	60.0	3,000 – 4,000	140
DWSC170	4.8 x 170.0	60.0	3,000 – 4,000	160

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

Hardness Rating (Vickers scale)		
Diameter	Surface Hardness	Core Hardness
3.5mm	580.0HV	470.0HV
4.2mm	630.0HV	460.0HV
4.8mm	590.0HV	480.0HV

Ultimate mechanical performance		
Diameter	Tensile Strength	Shear Strength
3.5mm	6.5kN	4.5kN
4.2mm	8.0kN	5.2kN
4.8mm	10.5kN	6.6kN

Ultimate pull out values			
Diameter	Timber embedment		
	25mm	30.0mm	40.0mm
3.5mm	2.8kN	n/a	n/a
4.2mm	3.0kN	4.0kN	4.8kN
4.8mm	3.4kN	4.0kN	5.8kN

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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