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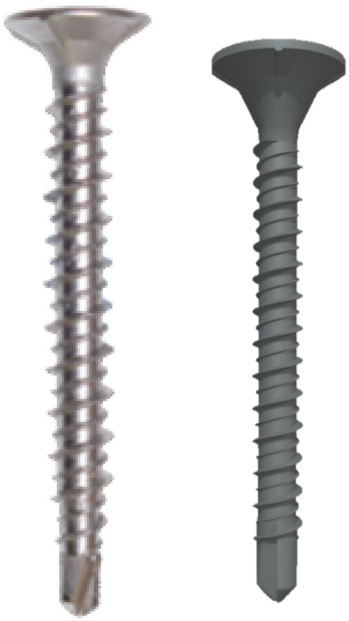
Technical Datasheet

CFCBS – Cementitious Board Screws



EXTERIOR GRADE CEMENTITIOUS BOARD SCREW

Designed for: Fixing cementitious and other dense to timber and metal substrates for 0.6-2.5mm steel
Head style: Double countersunk with nibs
Recess style: PH2
Material: Carbon steel C1022
Coating: Exterior Grade 1,000Hr SST
Drilling Point: TEK 2
Thread type: Hi-Lo

TECHNICAL DATA

Product Code	Size (mm)	Box Qty	Effective Thread Length (mm)	Drilling Capacity	Recommended Drill Speed (rpm)
CFCBS-E-4.2*32	4.2 x 32	200	22	0.6 – 2.5mm	1500 – 2500
CFCBS-E-4.2*42	4.2 x 42	200	32	0.6 – 2.5mm	1500 – 2500
CFCBS-E-4.2*60	4.2 x 60	200	50	0.6 – 2.5mm	1500 – 2500
CFCBS-E-4.2*80	4.2 x 80	200	70	0.6 – 2.5mm	1500 – 2500
CFCBS-E-4.2*100	4.2 x 100	200	90	0.6 – 2.5mm	1500 – 2500

Hardness Rating (Vickers Scale)		
Diameter	Surface Hardness	Core Hardness
4.2mm	553.6HV	414.0HV

Unfactored Mechanical Performance		
Diameter	Tensile Strength	Shear Strength
4.2mm	6.9kN	5.0kN

Ultimate Pull Out Values in Steel Substrate (S275 JR Mild Steel)*			
	Steel Thickness		
Diameter	1.2mm	1.8 mm	2.5mm
4.2 mm	1.6kN	1.9kN	3.8kN

Ultimate Pull Out Values in C16 Timber*			
	Embedment Depth		
Diameter	15mm	30 mm	50mm
4.2 mm	1.9kN	2.7kN	3.2kN

*All pull out values are unfactored

BI-METAL A2 STAINLESS CEMENTITIOUS BOARD SCREW FOR LIGHT SECTION STEEL

Designed for: Fixing cementitious and other dense to timber and metal substrates for 0.7-2.5mm steel
Head style: Double countersunk with nibs
Recess style: PH2
Material: 304 Stainless Steel (A2 Stainless Steel)
Drill Point Material: SAE C1022 Carbon Steel (Hardened)
Coating: Zinc
Drilling Point: TEK 2
Thread type: Hi-Lo

Product Code	Size (mm)	Box Qty	Effective Thread Length (mm)	Drilling Capacity	Recommended Drill Speed (rpm)
CFCBS-2-4.8*32	4.8 x 32	200	22	0.7 – 2.5mm	1500 – 2500
CFCBS-2-4.8*42	4.8 x 42	200	32	0.7 – 2.5mm	1500 – 2500
CFCBS-2-4.8*50	4.8 x 50	200	40	0.7 – 2.5mm	1500 – 2500
CFCBS-2-4.8*70	4.8 x 70	200	60	0.7 – 2.5mm	1500 – 2500

Ultimate Pull Out Values in Steel Substrate (S275 JR Mild Steel)*						
Diameter	Steel Thickness					
4.8 mm	0.7 mm	1.0mm	1.2 mm	1.5 mm	2.0mm	2.5mm
	1.10kN	1.20kN	1.60kN	1.80kN	2.20kN	3.60kN

Ultimate Pull Out Values in C16 Timber*			
Diameter	Timber Grade	Embedment Depth	Load
4.8 mm	C16 (soft wood)	27 mm	2.6kN
		35 mm	3.0kN

Ultimate Pull Out Values in C16 Timber*			
Diameter	Masonry Grade	Embedment Depth	Load
4.8 mm	7N Aerated Concrete (Breeze Block)	35.0mm	0.8kN
Diameter	Masonry Grade	Embedment Depth	Load

*All pull out values are unfactored

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".