

PRODUCT DATASHEET

BI-METAL WING DRILL SCREW FOR LIGHT STEEL



Product Details

Purpose:	Fastening tough cementitious boards, timber boards and treated timbers to mild steel or aluminium substrates
Head style:	Countersunk w/nibs
Material Grade:	EN 1.4401 / A4 (AISI 316)
Coating:	Electroplated Zinc
Drill Point:	TEK 3
Thread Form:	Coarse Thread
Recess Type:	Torx 25
Recommended Drill Speed:	1500-2500 RPM

A4 Wing Drills TEK Screw Range- Products for use in Light Gauge Applications (1.2mm to 4.0mm mild steel)

SKU	Nominal Dimensions, dnom x Lnom (mm)	Effective Thread Length, Lthread (mm)	Drilling Capacity
A4WD4.8-38-3	4.8 x 38.0mm	FULL	1.2 - 4.0mm
A4WD5.5-62-3	5.5 x 62.0mm	FULL	1.2 - 4.0mm

Ultimate Withdrawal Resistance, N_{Rk} , from S355JR Steel (N)

Diameter	Nominal Substrate Thickness, t_{nom} (mm)					
	1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
4.8mm	1,700 N	2,500 N	3,300 N	4,600 N	5,100 N	6,100 N
5.5mm	1,800 N	2,200 N	2,500 N	3,400 N	4,300 N	6,200 N

Ultimate Mechanical Performance

Property	Magnitude (N)	
	4.8mm	5.5mm
Tensile Capacity, $F_{ult,Rk}$	9,200 N	13,200 N
Shear Capacity, $V_{ult,Rk}$	6,500 N	10,900 N

Ultimate Pullover Performance

Diameter (mm)	Magnitude (N)		
	Standard Plasterboard Thickness - 12.5mm	Fibre Cement Board Nominal Density of 1200 (kg/m ³) Thickness - 12.0mm	OSB Thickness - 15mm
4.8 mm	500 N	2,400 N	2,100 N
5.5 mm	600 N	3,300 N	2,600 N

NOTE: The results expressed in this document are determined from empirical testing. Specifiers, end-users and other third parties should make their own decision(s) on what safety factors to use relevant to their design(s)/ application(s). This document is provided, strictly: without prejudice, without recourse, without liability, non-assumpsit, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
©Evolution Fasteners UK Ltd, 2021.