

PRODUCT DATASHEET

BI-METAL WING DRILL SCREW FOR HEAVY STEEL



Product Details

Purpose:	Fastening when stainless steel product is required e.g. in conjunction with aluminium sheeting/ panels and steel substrates
Head style:	Countersunk
Material Grade:	AISI A304
Coating:	Electroplated Zinc
Thread Form:	Fine Thread with 'v' fluting
Recess Type:	Phillips 3
Recommended Drill Speed:	1500-2500 RPM

Bi-Metal Wing Drills TEK Screw Range- Products for use in Heavy Gauge Applications (4.0mm to 12.0mm mild steel)

SKU	Nominal Dimensions, dnom x Lnom (mm)	Effective Thread Length, Lthread (mm)	Drilling Point	Drilling Capacity
BMWD5.5-65-5	5.5 x 65.0mm	FULL	TEK 5	4.0 - 12.0mm
BMWD5.5-85-5	5.5 x 85.0mm	75.0	TEK 5	4.0 - 12.0mm
BMWD5.5-110-5	5.5 x 110.0mm	75.0	TEK 5	4.0 - 12.0mm
BMWD5.5-135-5	5.5 x 135.0mm	75.0	TEK 5	4.0 - 12.0mm

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

Diameter	Drill Point	Nominal Substrate Thickness, t_{nom} (mm)					
		4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
5.5mm	TEK 5	4,500 N	5,900 N	7,300 N	8,900 N	10,700 N	11,900 N

Ultimate Mechanical Performance

Property	Magnitude (N)
Tensile Capacity, $F_{ult,Rk}$	11,600 N
Shear Capacity, $V_{ult,Rk}$	9,800 N

Pullover Performance In 50mm of C16 Timber

Diameter (mm)	Magnitude (N)
5.5 mm	3,000 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.
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