

PRODUCT DATASHEET

Bi-Metal Self-Piercing Point Range



Product Details

Purpose:	For lap-fixings of profiled metal sheeting and sandwich panels and mitigating against swarf generation.
Head style:	Hex Head 5/16"
Material Grade:	AISI 304 / EN1.4301 (A2 Stainless Steel)
Coating:	Electroplated zinc
Thread Form:	Fine Thread
Drill Point:	Self-Piercing
Drilling Point Material Grade:	SAE C1022
Washer:	16mm ø bonded EPDM
Recommended Drill Speed:	1500-2500 RPM

Bi-Metal Sharp Point Range- Products for use in Very Light Gauge Applications (0.6mm to 1.2mm mild steel)

SKU	Nominal Dimensions, dnom x Lnom (mm)	Effective Thread Length, Lthread (mm)	Drilling Capacity
BMBW5.5-25-SP	5.5 x 25.0mm	FULL	0.6 - 1.2mm
BMBW6.3-25-SP ¹	6.3 x 25.0mm	FULL	0.6 - 1.2mm

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Characteristic Withdrawal Resistance¹, N_{Rk}, from S355JR Steel (N)

Diameter	Nominal Substrate Thickness, t _{nom} (mm)		
	0.6mm	1.0mm	1.2mm
5.5mm	940 N	1,870 N	2,250 N
6.3mm	1,270 N	2,540 N	3,050 N

Ultimate Mechanical Performance

Property	Magnitude (N)	
	5.5 mm	6.3 mm
Tensile Capacity, F _{ult,Rk}	10,600 N	14,100 N
Shear Capacity, V _{ult,Rk}	6,700 N	9,700 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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¹ Derived from calculations