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PRODUCT DATASHEET

Bi Metal Standard Tek (Washered)

Product Details

Purpose:	Fastening in aluminium sheeting and panels
Head style:	Hexagonal Drive bit: 5/16" hexagonal
Thread Form:	Coarse thread (Tek 3)/Fine thread (Tek 5)
Coating:	Electroplated Zinc ≥ 5µm
Shank Material:	Stainless Steel
Shank Material Grade:	EN 1.4301/ A2 (AISI 304)
Washer:	16mm ø bonded EPDM
Washer Steel Material Grade:	EN 1.4301/ A2 (AISI 304)
Drill Point Material:	Carbon Steel
Drill Point Material Grade:	SAE C1022
Recommended Drill Speed:	1,500 - 2,500 RPM

Bi-Metal Standard TEK (Washered)- Products for use in Light Gauge Steel Applications (1.2mm to 4.0mm mild steel)

SKU	Nominal Dimensions, d_{nom} x L_{nom} (mm)	Effective Thread Length L_{thread} (mm)	Drill Point	Drilling Capacity H_{cap} (mm)
BMBW5.5-25-3	5.5 x 25.0	Fully Threaded	TEK 3	1.2 - 4.0
BMBW5.5-38-3	5.5 x 38.0	Fully Threaded		
BMBW5.5-50-3	5.5 x 50.0	Fully Threaded		
BMBW5.5-75-3	5.5 x 75.0	60mm		
BMBW5.5-100-3	5.5 x 100.0	75mm		

Bi-Metal Standard TEK (Washered)- Products for use in Heavy Gauge Steel Applications (4.0mm to 12.0mm mild steel)

SKU	Nominal Dimensions, d_{nom} x L_{nom} (mm)	Effective Thread Length L_{thread} (mm)	Drill Point	Drilling Capacity H_{cap} (mm)
BMBW5.5-38-5	5.5 x 38.0	Fully Threaded	TEK 5	4.0 - 12.0
BMBW5.5-50-5	5.5 x 50.0	Fully Threaded		
BMBW5.5-65-5	5.5 x 65.0	Fully Threaded		
BMBW5.5-75-5	5.5 x 75.0	Fully Threaded		
BMBW5.5-100-5	5.5 x 100.0	Fully Threaded		

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

Diameter	Drill Point	Nominal Substrate Thickness, t_{nom}					
		1.2mm	1.6mm	2.0mm	2.5mm	3.0mm	4.0mm
5.5	TEK 3	1,700 N	2,100 N	2,500 N	3,200 N	4,300 N	5,500 N

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

Diameter	Drill Point	Nominal Substrate Thickness, t_{nom}					
		4.0mm	5.0mm	6.0mm	8.0mm	10.0mm	12.5mm
5.5	TEK 5	6,500 N	7,800 N	10,000 N	11,500 N	12,000 N	12,400 N

Ultimate Mechcnical Performance

Property	Magnitude
Tensile Capacity, (F_{ult},R_k)	10,600 N
Shear Capacity, (V_{ult},R_k)	6,700N

Ultimate Pullover Performance

Nominal steel Thickness, t_{nom}	Magnitude
0.6mm	2,700 N
1.2mm	8,400N

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.