

PRODUCT DATASHEET

A2 Bi-Metal Composite Panel Fastener

EVO-DS-TB-CL-0066



PRODUCT DETAILS

Purpose:	Fixing cladding/roofing applications to hot/cold purlins/rails. Fastening liner panels and general components to steel. Fastening brick-tie channel through insulation to SFS.
Head style:	5/16" Hexagonal Head
Washer Size:	12mm Ø
Drill Point:	TEK 3
Thread Form:	Coarse Thread
Coating:	Electroplated Zinc ≥ 5µm
Shank Material:	Stainless Steel
Material Grade:	AISI A304
Drilling Point Material Grade:	SAE C1022
Steel Thickness:	1.2 - 4.0mm

Bi-Metal Composite Panel Fastener Range - Products for use in Light Gauge Steel Applications (1.2mm to 4.0mm mild steel)

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)	*Insulation Thickness Range	Effective Thread Length, L_{thread} (mm)
BMHT12-5.5-105-3	5.5 x 105.0	50mm-85mm	55.0
BMHT12-5.5-135-3	5.5 x 135.0	60mm-115mm	75.0
BMHT12-5.5-150-3	5.5 x 150.0	75mm-130mm	
BMHT12-5.5-165-3	5.5 x 185.0	90mm-145mm	
BMHT12-5.5-185-3	5.5 x 185.0	110mm-165mm	
BMHT12-5.5-200-3	5.5 x 200.0	125mm-180mm	
BMHT12-5.5-225-3	5.5 x 225.0	150mm-205mm	
BMHT12-5.5-235-3	5.5 x 235.0	160mm-215mm	
BMHT12-5.5-250-3*	5.5 x 235.0	175mm-225mm	
BMHT12-5.5-265-3	5.5 x 265.0	190mm-245mm	
BMHT12-5.5-275-3	5.5 x 275.0	200mm-255mm	
BMHT12-5.5-300-3	5.5 x 300.0	225mm-280mm	
BMHT12-5.5-325-3*	5.5 x 325.0	250mm-300mm	
BMHT12-5.5-350-3*	5.5 x 350.0	275mm-325mm	

*For Enterprise System applications, please contact our technical team

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

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

Ultimate Mechanical Performance

Property	Magnitude
Tensile Capacity, (F_{ult}, R_k)	13,300N
Shear Capacity, (V_{ult}, R_k)	9,900N

Ultimate Pullover Performance

Steel Thickness	Magnitude
0.6mm	2,400 N
1.2mm	8,100 N

NOTE: The results expressed in this document, unless stated otherwise, are determined from empirical testing in our UKAS accredited testing laboratory. Use of this document does not dispel nor alleviate designers and users of their statutory obligations pursuant to the Construction (Design and Management) Regulations 2015 or