



# PRODUCT DATASHEET

## A2 Bi-Metal Composite Panel Fastener

### PRODUCT DETAILS

<b>Purpose:</b>	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.
<b>Head style:</b>	5/16" Hexagonal Head
<b>Washer Size:</b>	12mm Ø
<b>Drill Point:</b>	TEK 3
<b>Thread Form:</b>	Coarse Thread
<b>Coating:</b>	Electroplated Zinc $\geq 5\mu\text{m}$
<b>Shank Material:</b>	Stainless Steel
<b>Material Grade:</b>	AISI A304
<b>Drilling Point Material Grade:</b>	SAE C1022
<b>Steel Thickness:</b>	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, $d_{\text{nom}} \times L_{\text{nom}}$ (mm)	Insulation Thickness Range	Effective Thread Length, $L_{\text{thread}}$ (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	
BMHT12-5.5-185-3	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	
BMHT12-5.5-265-3*	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	

\*Coming soon

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

Diameter	Nominal Substrate Thickness, $t_{\text{nom}}$					
	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, $(F_{\text{ult}}R_k)$	13,300N
Shear Capacity, $(V_{\text{ult}}R_k)$	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 the Building Safety Act 2022. This document is provided, strictly: errors and omissions excepted, subject to change without notice and all rights reserved.  
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