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BAFD

CERTIFIED ISO 9001

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PRODUCT DATASHEET

A2 Bi-Metal Composite Panel Fastener

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 Thckness:	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} x L_{nom} (mm)	Insulation Thickness Range**	Effective Thread Length, L_{thread} (mm)
BMHT12-5.5-105-3	5.5 x 105.0	50mm-80mm	55.0
BMHT12-5.5-135-3	5.5 x 135.0	60mm-110mm	75.0
BMHT12-5.5-150-3	5.5 x 150.0	75mm-125mm	
BMHT12-5.5-185-3	5.5 x 185.0	110mm-160mm	
BMHT12-5.5-200-3	5.5 x 200.0	125mm-175mm	
BMHT12-5.5-225-3	5.5 x 225.0	150mm-200mm	
BMHT12-5.5-235-3	5.5 x 235.0	160mm-210mm	
BMHT12-5.5-250-3*	5.5 x 250.0	175mm-225mm	
BMHT12-5.5-275-3	5.5 x 275.0	200mm-250mm	
BMHT12-5.5-300-3	5.5 x 300.0	225mm-275mm	
BMHT12-5.5-325-3*	5.5 x 325.0	250mm-300mm	
BMHT12-5.5-350-3*	5.5 x 350.0	275mm-325mm	

*Coming soon
** For Brick Tie Applications please see Enterprise Documentation

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 Mechcnical 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 the Building Safety Act 2022. This document is provided, strictly: errors and omissions excepted, subject to change without notice and all rights reserved.