



PRODUCT DATASHEET

Low Profile Head TEK 3 Range for Light Steel

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:	Low Wafer Head
Drive:	Torx 25
Washer Size:	16mm Ø
Drill Point:	TEK 3
Thread Form:	Coarse Thread
Coating:	Electroplated Zinc ≥ 5µm minimum thickness, trivalent chromium only, waxed. BS EN ISO 4042
Shank Material:	Stainless Steel
Material Grade:	EN 1.4436 (SAE 316L)
Drilling Point Material Grade:	JIS SCM 435
Steel Thickness:	1.2 - 4.0mm
Recommended Drill Speed:	1,500 - 2,500 RPM

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)
A4LPHT16-5.5-135-3	5.5 x 105.0	60mm-115mm	75mm
A4LPHT16-5.5-150-3	5.5 x 135.0	75mm-130mm	75mm
A4LPHT16-5.5-185-3	5.5 x 150.0	105mm-165mm	75mm

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 Withdrawal Performance

Steel Thickness	Magnitude
0.6mm	4,070 N
1.2mm	9,530 N

NOTE: The results expressed in this document are determined from empirical testing unless stated otherwise. 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.

©Evolution Fasteners UK Ltd, 2023.