



PRODUCT DATASHEET

SuperTEK@7 Bi-Metal Stainless Steel Composite Panel Fastener

Product Details

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Purpose: | Fixing cladding/roofing applications to hot/cold purlins/rails. Fastening liner panels and general components to steel. |
| Head style and drive: | Hexagonal, 5/16" hexagonal |
| Washer: | 19mm Bonded EPDM |
| Drill Point: | TEK 7 Spiral Point |
| Drill Point Material Grade: | Carbon Steel (SAE C1022) |
| Thread Form: | Fine Thread with 'V' Fluting |
| Shank Material/Grade: | EN 1.4401 / A4 (AISI 316) |
| Coating: | ≥ 5µm electrodeposited zinc |
| Recommended Drill Speed: | 1500 - 2500RPM |

SuperTEK@7 Grade - Products for use in Heavy Gauge Applications (4.0mm to 18.5mm mild steel)

| SKU | Nominal Dimensions, dnom x Lnom (mm) | Effective Thread Length, Lthread (mm) | *Insulation Thickness Range | Drilling Capacity |
|--------------------|--------------------------------------|---------------------------------------|-----------------------------|-------------------|
| A4BMHT19-5.5-185-7 | 5.5 x 185mm | 80mm (60mm Thread) | 105-120mm | 4.0-18.5mm |
| A4BMHT19-5.5-235-7 | 5.5 x 235mm | 80mm (60mm Thread) | 155-170mm | 4.0-18.5mm |
| A4BMHT19-5.5-250-7 | 5.5 x 250mm | 80mm (60mm Thread) | 170-185mm | 4.0-18.5mm |
| A4BMHT19-5.5-275-7 | 5.5 x 275mm | 80mm (60mm Thread) | 195-210mm | 4.0-18.5mm |
| A4BMHT19-6.3-300-7 | 6.3 x 300mm | 80mm (60mm Thread) | 220-235mm | 4.0-18.5mm |

*For Enterprise System applications, please contact our technical team

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

| Diameter | Drill Point | Nominal Substrate Thickness, t_{nom} (mm) | | | | | |
|----------|-------------|---------------------------------------------|-------|--------|--------------------------------------|------|------|
| | | 4.0 | 5.0 | 8.0 | 12.5 | 15.0 | 18.0 |
| 5.5mm | TEK 7 | 6,400 | 7,600 | 11,300 | Tensile Capacity of Fastener Reached | | |

Characteristic Mechanical Performance

| Property | Magnitude |
|--------------------------------------|-----------|
| Tensile Capacity, $F_{ult,Rk}$ (N) | 12,270 N |
| Shear Capacity, $V_{ult,Rk}$ (N) | 8,400 N |
| Torsional Capacity, $r_{ult,Rk}$ (N) | 12.5 Nm |

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.
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