TECHNICAL DATA SHEET

FP SA4DHT





Description:
Ø5.5/6.3mm x Lmm, Self-drilling, Bi-metal stainless steel, Composite Panel, Light Section

Fastener Material:
Austenitic Stainless Steel A4 (316 Grade)

Drill Point:
Hardened Carbon Steel

Drilling Capacity:
1.2mm – 3.0mm

Washer Material:
1.0mm Austenitic Stainless Steel A4 (316 Grade)

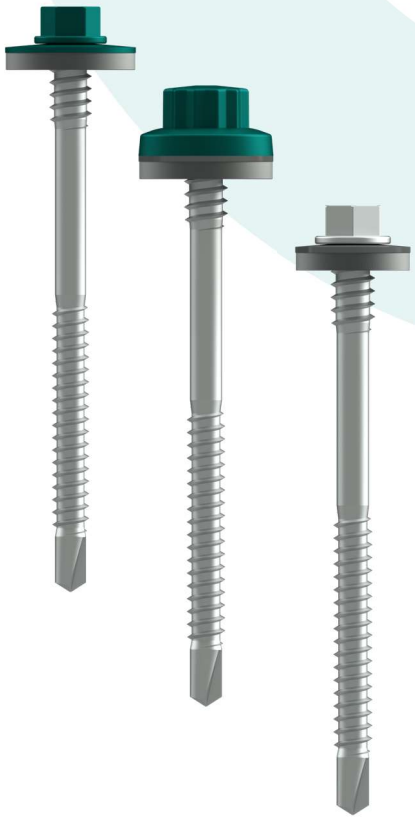
EPDM Thickness:
S16 – 2.5mm / S19 – 3.0mm / S29 – 3.0mm

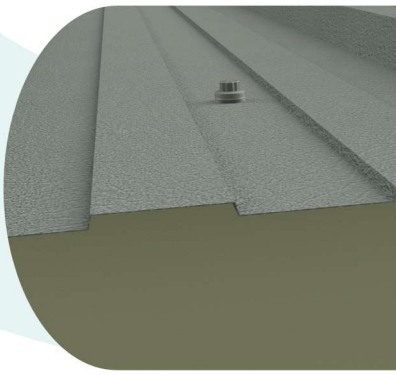
EPDM Hardness:
50° Shore

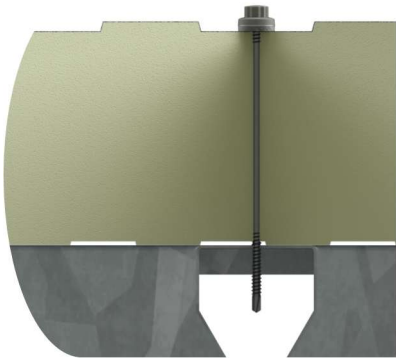
Head Styles & Drive:

SA4DHT	8.0mm Hex with plain finish
SA4PCTHT	8.0mm Hex with P.P.C. finish
SA4CTHT	11.0mm Bi-hex nylon moulded finish

Application(s):
Composite panel to light section rail







Code	Length	Minimum (Panel)	Maximum Incl. Purlin
SA4DHT065	65mm	30mm	45mm
SA4DHT080	80mm	40mm	60mm
SA4DHT110	110mm	35mm	90mm
SA4DHT125	125mm	50mm	105mm

Code	Length	Minimum (Panel)	Maximum Incl. Purlin
SA4DHT150	150mm	75mm	130mm
SA4DHT180	180mm	105mm	160mm
SA4DHT200	200mm	125mm	180mm

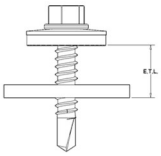
Code Explanation

SA4D HT 150 S19

SA4D	=	FP A4 (316 Grade) Stainless Steel Light Section Fastener
HT	=	High Thread / Composite Panel
150	=	Fastener Length
S19	=	19mm Stainless Steel Bonded Washer

10A05 SA4CT HT 125 S16

10A05	=	Colour Reference
SA4CT	=	FP Bi-hex Nylon Moulded A4 (316 Grade) Stainless Steel Light Section Fastener
HT	=	High Thread / Composite Panel
125	=	Fastener Length
S16	=	16mm Stainless Steel Bonded Washer



Maximum dimension includes the maximum substrate thickness and ensures that only stainless threads are engaged.

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Everything on point

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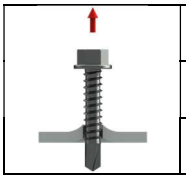
Durability:
These products may be used for indoor and outdoor applications with corrosion category class of C1 – C4 in accordance with Table B1 and Table B2 in EN 1993-1-3 and EN ISO 12944-2. Subject to approval by Fixing Point, they may also be used in applications with a corrosion category class C5 in accordance with these Tables.

Warranties up to 40-years on these products are available with prior project approval from Fixing Point.

Note: These products are not considered suitable for use in swimming pool buildings where they may be exposed to a chlorine-rich environment and the risk of condensation – consult Fixing Point

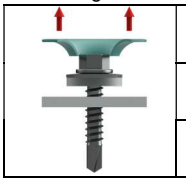
Technical Data:

Pull Out



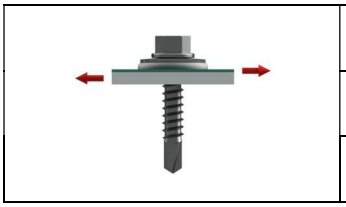
Material Thickness	1.2mm	1.4mm	1.5mm	1.8mm	2.0mm	2.5mm	3.0mm
Grade	S450						
Pull Out (kN)	1.462	2.203*	2.573	3.244*	3.692	5.977*	8.262

Pull Through

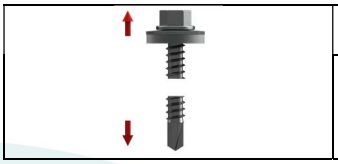


Washer	S16		S19	
Material Grade Thickness	Steel S220 0.5mm	Aluminium 170N/mm² 0.9mm	Steel S220 0.5mm	Aluminium 170N/mm² 0.9mm
Pull Through (kN)	1.98	1.97*	2.26	2.25*

Shear



Sheet - Material Grade Thickness	Steel S220 0.4mm
Purlin / Rail - Material Grade Thickness	Steel S450 1.2mm
Shear (kN)	0.76



Characteristic Tensile (kN)
10.107



Characteristic Shear (kN)
9.758

All values shown are Characteristic value (NRk & VRk). The values have been derived from methodology as defined in the European Assessment Document (EAD) 33046-01-0602 specific to the ETA 23/0661. To determine the Design Value (NRd & VRd) the material safety factor of 1.33 must be applied to the Characteristic Values – unless a greater safety factor is specified.

Values marked * are interpolated.

Installation Guidelines:
Self-drilling fasteners should always be installed with a dedicated variable speed screwgun, fitted with an appropriately adjusted depth locating nosepiece. This will ensure that the correct compression of the washer is achieved.

Under no circumstances should impact drivers be used to install self-drilling fasteners they are detrimental to the mechanical performance of the fastener.

Based upon industry standards the following washer diameters should be used for the following applications:



Roof Primary / Main-fix = 19mm
Rooflight Primary / Main-fix = 29mm
Wall Primary / Main-fix = 16mm
Roof, Rooflight & Wall Secondary / Stitcher = 16mm

As well as choosing the appropriate washer diameter, the EPDM thickness and shore hardness is equally as important. It is recommended that for composite panels a minimum 3.0mm EPDM with a Shore hardness of between 40-60 and for built-up systems a minimum EPDM thickness of 2.0mm and Shore hardness of 60-80.