

TECHNICAL DATA SHEET

Fixing Point.

FP SDHT



Description:

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

Fastener Material:

Austenitic Stainless Steel A2 (304 Grade)

Drill Point:

Hardened Carbon Steel

Drilling Capacity:

1.2mm – 3.0mm

Washer Material:

1.0mm Austenitic Stainless Steel A2 (304 Grade)

EPDM Thickness:

S16 – 2.5mm / S19 – 3.0mm / S29 – 3.0mm

EPDM Hardness:

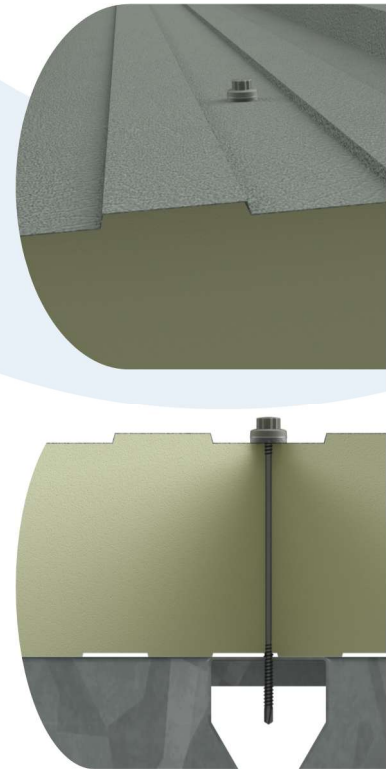
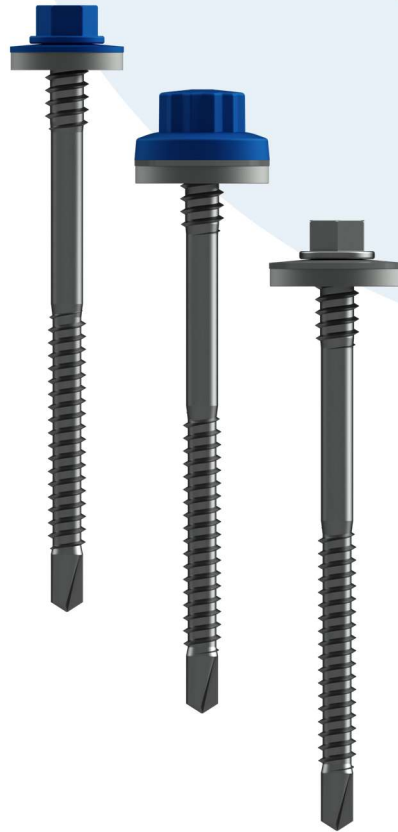
50° Shore

Head Styles & Drive:

SDHT 8.0mm Hex with plain finish
 SPCTHT 8.0mm Hex with P.P.C. finish
 SCTHT 11.0mm Bi-hex nylon moulded finish

Application(s):

Composite panel to light section rail



Code	Length	Minimum (Panel)	Maximum Incl. Purlin
SDHT065	65mm	30mm	45mm
SDHT080	80mm	40mm	60mm
SDHT110	110mm	35mm	90mm
SDHT125	125mm	50mm	105mm
SDHT150	150mm	75mm	130mm
SDHT180	180mm	105mm	160mm

Code	Length	Minimum (Panel)	Maximum Incl. Purlin
SDHT200	200mm	125mm	180mm
SDHT230	230mm	155mm	210mm
SDHT250	250mm	175mm	230mm
SDHT275	275mm	200mm	255mm
SDHT300	300mm	225mm	280mm

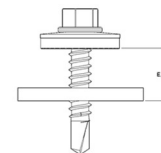
Code Explanation

SD HT 150 S19

SD = FP Stainless Steel Light Section Fastener
 HT = High Thread / Composite Panel
 150 = Fastener Length
 S19 = 19mm Stainless Steel Bonded Washer

10A05 SCT HT 125 S16

10A05 = Colour Reference
 SCT = FP Bi-hex Nylon Moulded 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, C2 or C3 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 C4 or C5 in accordance with these Tables.

Warranties up to 25-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:

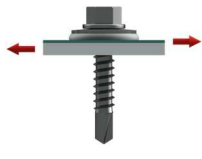
Pull Out


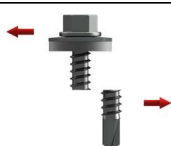
	Material Thickness	1.2mm	1.5mm	1.8mm	2.0mm	2.5mm	3.0mm
	Grade	S450					
	Pull Out (kN)	1.460	2.578*	3.695*	4.440	5.590*	6.740

Pull Through

	Washer	S16		S19	
	Material Grade Thickness	Steel S220 0.5mm	Aluminium 170N/mm ² 0.9mm	Steel S220 0.5mm	Aluminium 170N/mm ² 0.9mm
	Pull Through (kN)	1.73	1.82*	1.87	1.97*

Shear

	Sheet - Material Grade Thickness	Steel S220 0.5mm		
	Purlin / Rail - Material Grade Thickness	Steel S450 1.2mm	Steel S450 2.0mm	Steel S450 3.0mm
	Shear (kN)	1.51	1.46	1.48

	Ultimate Tensile (kN)		Ultimate Shear (kN)
	10.107		7.79

All values shown are Characteristic value (NRk & VRk). The values have been derived from methodology as defined in the European Assessment Document (EAD) 33046-01-062. 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.