

TECHNICAL DATA SHEET

Fixing
Point.

FP SLP12

**Description:**

Ø5.5mm x Lmm, Self-drilling, Bi-metal stainless steel, Heavy Section

Fastener Material:

Austenitic Stainless Steel A2 (304 Grade)

Drill Point:

Hardened Carbon Steel

Drilling Capacity:

4.0mm – 12.0mm

Washer Material:

1.0mm Austenitic Stainless Steel A2 (304 Grade)

EPDM Thickness:

S12 – 2.5mm

EPDM Hardness:

50° Shore

Head Styles & Drive:

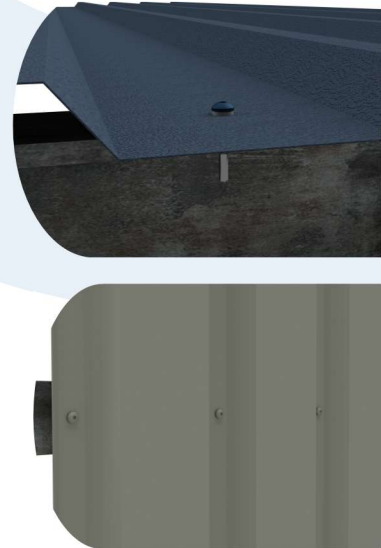
SLP12 10.5mm Low Profile with plain finish

SLP12+COL 10.5mm Low Profile with P.P.C. finish

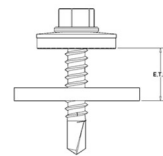
Application(s):

Single Skin to heavy section rail

Flashing to heavy section rail



Code	Length	Effective Thread Length
SLP1240	40mm	8mm
SLP1260	60mm	28mm
SLP1280	80mm	48mm



Effective Thread Length includes the maximum substrate thickness and ensures that only stainless threads are engaged.

Code Explanation

SLP 12 40

SLP = FP Stainless Steel Low Profile Fastener

12 = Heavy Section

40 = Fastener Length

* Supplied standardly with a 12mm stainless bonded washer

SLP 12 60 10A05

10A05 = Colour Reference – Suffix the code with the colour signifies a P.P.C. Head

SLP = FP Stainless Steel Low Profile Fastener

12 = Light Section

60paste = Fastener Length

* Supplied standardly with a 12mm stainless bonded washer

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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:

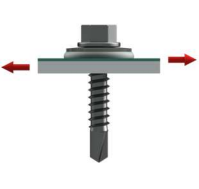
Pull Out

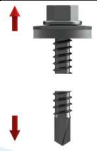
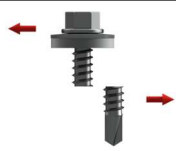
	Material Thickness	4.0mm	4.0mm	5.0mm	6.0mm	8.0mm
	Grade	S235JR	S275JR			
	Pull Out (kN)	5.10	5.863	7.329	8.795	11.726

Pull Through

	Washer	S12			
	Material Grade Thickness	Steel S220 0.5mm		Aluminium 170N/mm ² 0.9mm	
	Pull Through (kN)	1.34		1.33*	

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)
	12.571		7.41

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 or calculated according to the procedures in BS EN 1993-1-3:2024. 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.