SOLARFYT PRO PPT

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1. DESCRIPTION

SOLARFYT PRO PPT consists of a pre-drilled round base made of technical polypropylene fitted with an M8x125 mm stud. The material allows TPO membranes to be welded directly. The parts are installed directly on the roof with 6 radial fasteners that pass through the existing membrane and fix the part to the roof deck. A TPO flashing piece is then welded to both the roof and the SOLAR FYT TPO parts, so the roof's watertightness is fully restored and never compromised. SOLARFYT PRO PPT parts are supplied with the flashing piece pre-installed and welded to the part. The part is patented.

PRODUCTO PATENTADO

2. CHARACTERISTICS

• No critical points. • All fasteners are hidden under the membrane. • Fixed to the roof deck, not to the existing membrane. • Suitable for all roof types, both flat and pitched. • High wind uplift resistance. • High UV and bacterial resistance. • Can be adapted to project requirements. • Plastic part and stainless steel rod suitable for the most aggressive environments.

3. MATERIALS

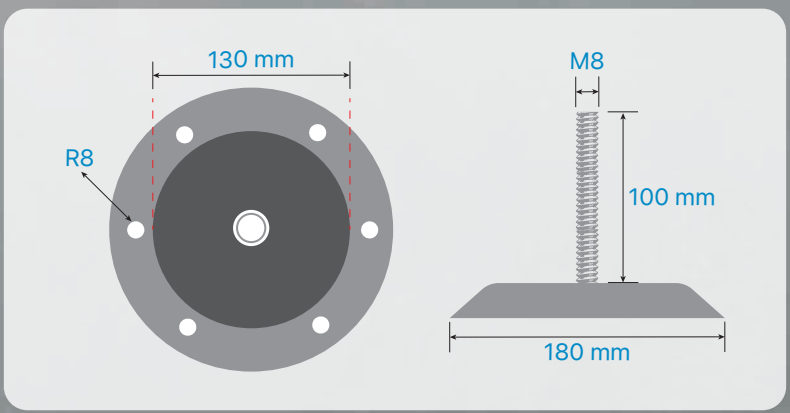
ITEM	COMPONENT	STEEL TYPE
1	BASE	Technical polypropylene
2	STUD	A2 stainless steel

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4. DIMENSIONS



5. FASTENER SELECTION BY SUBSTRATE

The SOLARFYT PRO PPT system can be installed on different substrates. Select the right fastener for each substrate from the following table:

	Steel sheet 0.5 - 0.7 mm	Steel sheet 0.7 - 1.5 mm	Concrete	Timber
Fastener description	**Deck FYT EDS-B 58**	**Deck FYT Hex CE**	**Deck FYT EFHD**	**Deck FYT EDS-H**
Fastener diameter	5,5 mm.	4,8 mm.	6,3 mm.	4,8 mm.
Pre-drilling required	NO	NO	YES (5.5 mm)	NO
Characteristic strength per fastener	1.104 N	1.180 N	2.400 N	1.780 N
Minimum penetration into substrate	*t + 20 mm	*t + 20 mm	35 mm.	24 mm.

*t: sheet thickness

6. INSTALLATION PROCEDURE

1. Installation must be carried out by waterproofing professionals able to weld TPO membranes with a Leister-type hand welder or similar.
2. Clean the bearing surface of the SOLARFYT PRO part thoroughly. 3. Choose suitable fasteners for the substrate (see section 4 of this data sheet). 4. Install the fasteners following the manufacturer's recommendations so that the SOLARFYT PRO PPT part bears fully on the roof without being driven into it.
5. The SOLARFYT PRO PPT part includes a pre-welded flashing piece. 6. Weld the flashing piece onto the existing membrane with a minimum overlap of 5 cm. 7. Check with a probe or similar tool that all overlaps are fully welded.

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Translation of the Spanish version; it may contain errors.

7. CHARACTERISTIC TENSILE STRENGTHS

The following table shows the characteristic* tensile strength of the fasteners as approved under European Technical Assessment ETA 06/0007

Fastener	Substrate	Strength Characteristics*	Characteristic strength per SOLARFYT PRO point PPT (4 fasteners)	Characteristic strength per SOLARFYT PRO+ point PPT (6 fasteners)
Deck FYT EDS-B 58	Sheet 0.5-0.7 mm	1.104 N	**4.416 N**	**6.624 N**
Deck FYT Hex CE 4,8	Sheet 0.7-1.5 mm	1.180 N	**4.720 N**	**7.080 N**
Deck FYT EDS-B 58	Sheet 0.7-1.5 mm	1.720 N	**6.880 N**	**10.320 N**
Deck FYT EFXHD	Sheet 0.7-1.5 mm	1.980 N	**7.920 N**	**11.880 N**
Deck FYT EFHD	Concrete	2.400 N	**9.600 N**	**14.400 N**
Deck FYT GBS	Concrete	1.830 N	**7.320 N**	**10.980 N**
Deck FYT EDS-B 48	Timber	1.780 N	**7.120 N**	**10.680 N**

* The characteristic strength of an anchor is the value with a 95% probability of being exceeded in a failure test. It depends on the mean failure values, the number of tests carried out and the scatter of their results.

Recommended safety factors

FACTOR SAFETY	REDUCTION FACTOR FOR STRENGTH		FACTOR LOAD FACTOR
	CONCRETE FAILURE	STEEL FAILURE	
Tension	3	2	1.50

8. DESIGN SHEAR STRENGTHS

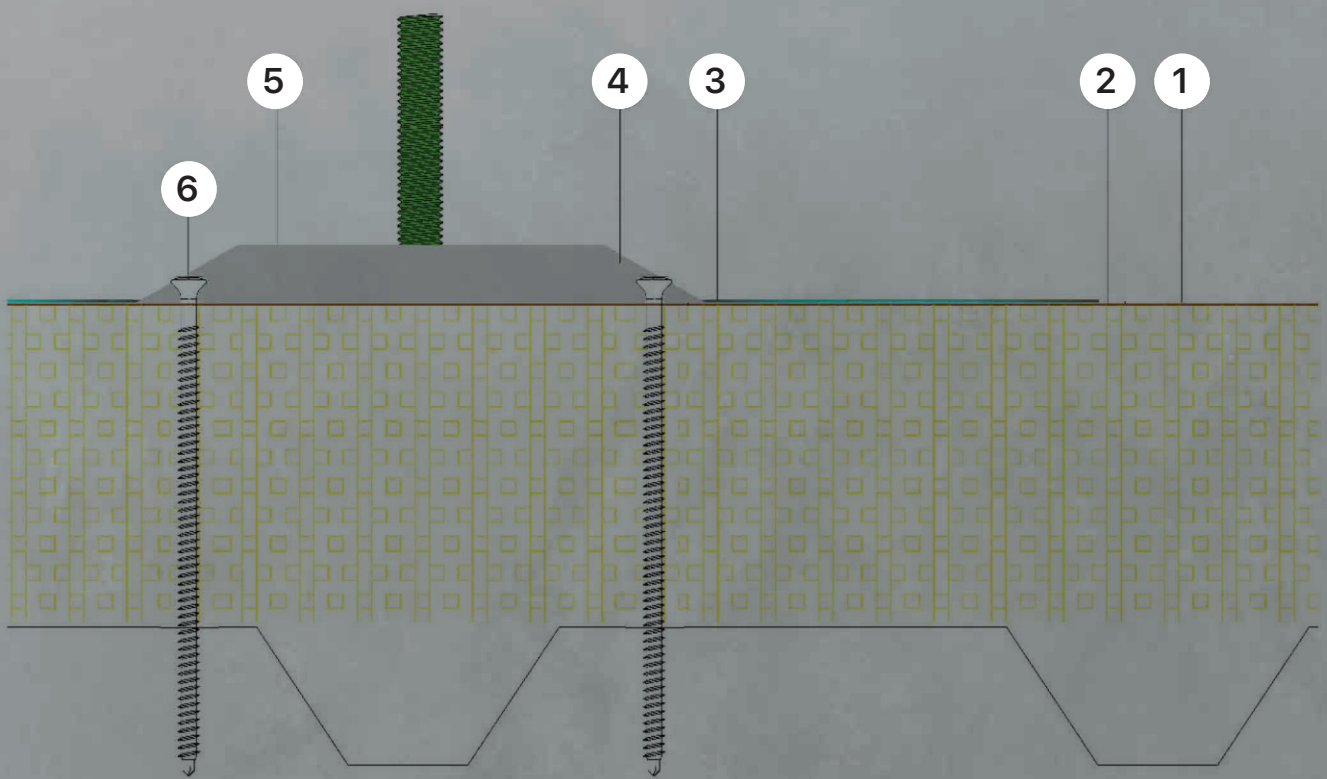
Fastener	Substrate	Strength under shear loads*	Characteristic strength per SOLARFYT PRO point PPT (4 fasteners)	Characteristic strength per SOLARFYT PRO+ point PPT (6 fasteners)
Deck FYT EDS-B 58	Sheet 0.5-0.7 mm	743 N	**2.972 N**	**4.458 N**
Deck FYT Hex CE 4,8	Sheet 0.7-1.5 mm	1.150 N	**4.600 N**	**6.900 N**
Deck FYT EDS-B 58	Sheet 0.7-1.5 mm	1.230 N	**4.920 N**	**7.380 N**
Deck FYT EFHD	Concrete	5.645 N	**22.580 N**	**33.870 N**

* Design strength according to the Spanish structural steel code.

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9. INSTALLATION DIAGRAM



1. Geotextile felt
2. TPO waterproofing membrane
3. Flashing piece - TPO-TPO weld
4. TPO co-laminate - TPO-TPO weld
5. Carbon steel core
6. Mechanical fastener



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10. APPLICATION EXAMPLES:







