SOLARFYT PRO

FIJAMOS EL MUNDO

1. DESCRIPTION

SOLARFYT PRO consists of a pre-drilled square metal fixing base and an M10x50 mm stud. The base has a TPO co-laminate to which a flashing piece of the same material is welded. Both the co-laminate and the flashing piece must be the same brand and model as the membrane they are installed on, for full compatibility. SOLARFYT PRO parts are supplied with the flashing piece pre-installed and welded to the metal base. The part is patented.

PRODUCTO PATENTADO

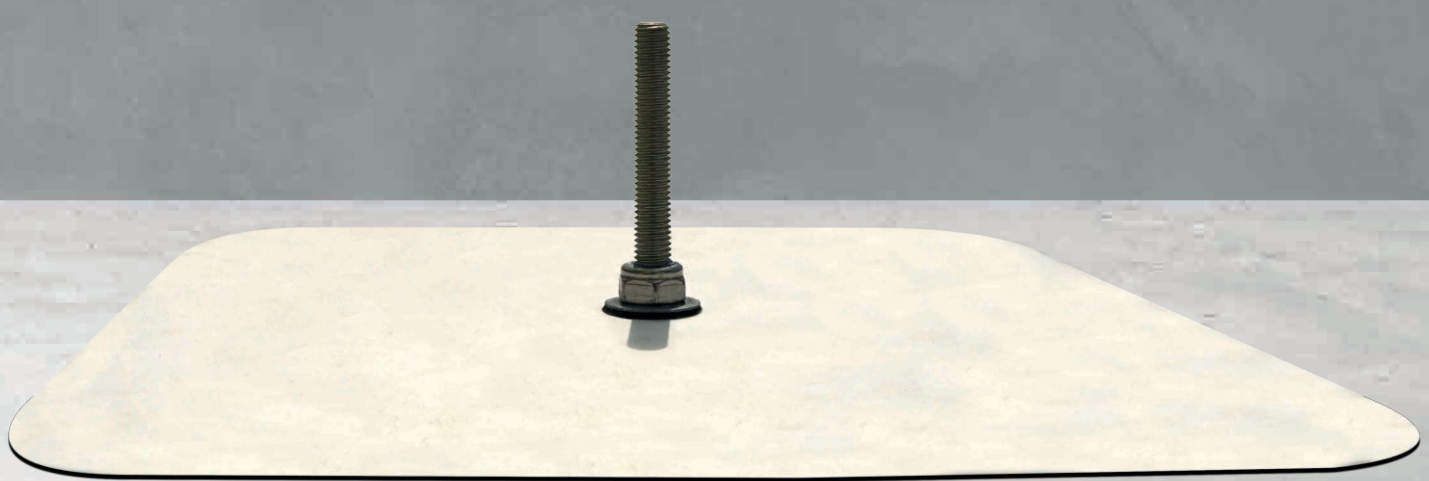
2. CHARACTERISTICS

• 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. • Standard finish with 700 h salt spray protection. Also available with higher-grade finishes or in stainless steel.

3. MATERIALS

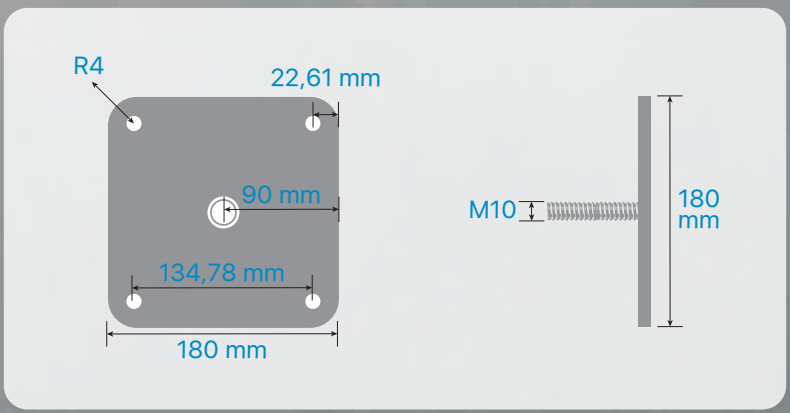
ITEM	COMPONENT	STEEL TYPE
1	PLATE	Carbon steel, 700 h salt spray
2	M10 STUD	Carbon steel, 700 h salt spray
3	CO-LAMINATE	TPO / carbon steel co-laminate
4	COATING	TPO membrane

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4. DIMENSIONS



5. FASTENER SELECTION BY SUBSTRATE

The SOLARFYT PRO 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 EDS-B**	**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 5 of this data sheet). 4. Install the fasteners following the manufacturer's recommendations so that the SOLARFYT PRO part bears fully on the roof without being driven into it.
5. The SOLARFYT PRO part includes a flashing piece pre-welded to the metal base. 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 (4 fasteners)	Characteristic strength per SOLARFYT PRO+ point (6 fasteners)
Deck FYT EDS-B 58	Sheet 0.5-0.7 mm	1.104 N	**4.416 N**	**6.624 N**
Deck FYT EDS-B 48	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

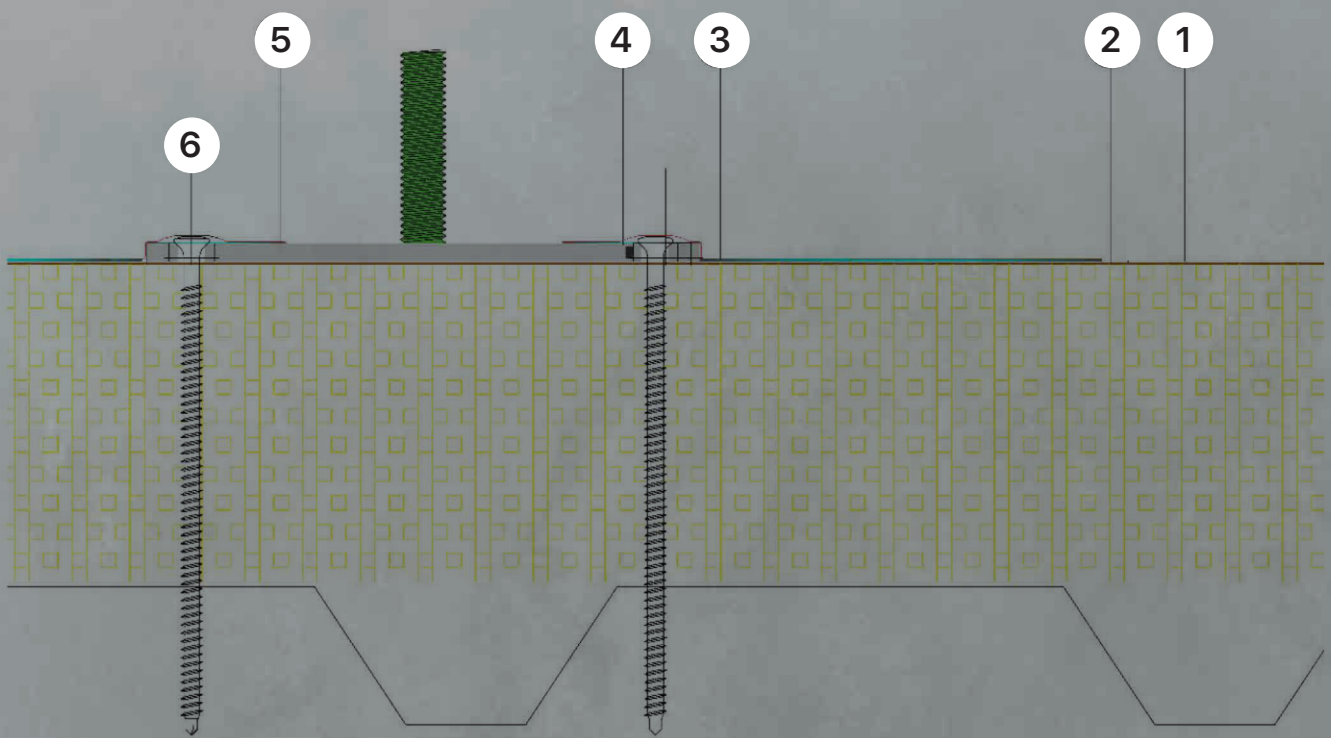
Fastener	Substrate	Strength under shear loads*	Characteristic strength per SOLARFYT PRO point (4 fasteners)	Characteristic strength per SOLARFYT PRO+ point (6 fasteners)
Deck FYT EDS-B 58	Sheet 0.5-0.7 mm	743 N	**2.972 N**	**4.458 N**
Deck FYT EDS-B 48	Sheet 0.7-1.5 mm	1.150 N	**4.600 N**	**6.900 N**
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.

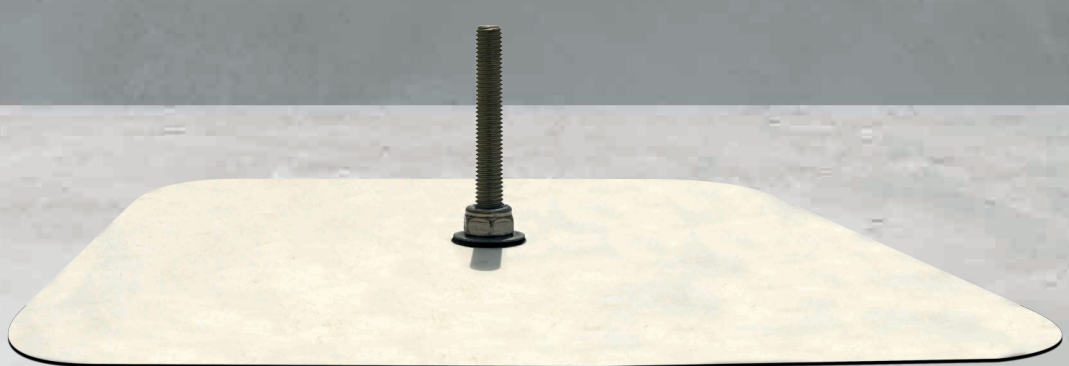
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9. INSTALLATION DIAGRAM



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:









