Waterfix M10 ASFALTO

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8010201012040 FYT Waterfix M10 ASFALTO

1. DESCRIPTION

FYT Waterfix M10 consists of a pre-drilled round fixing base and an M10x40 mm stud. The base has a bituminous primer to which a flashing piece made from the same bituminous membrane as the roof waterproofing is welded. The part is patented.

PATENTADO

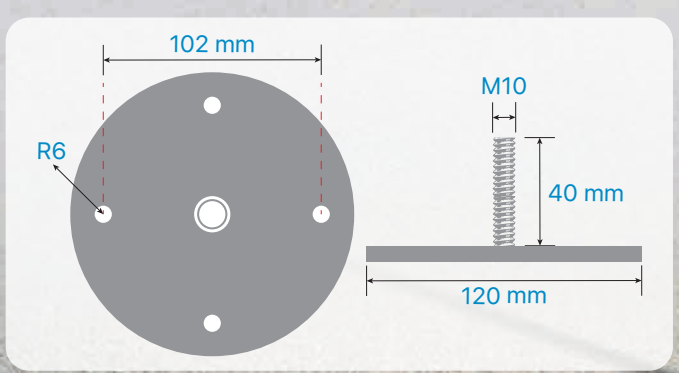
2. CHARACTERISTICS

• No critical points. • All fasteners are hidden behind 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 customer requirements (more fixing points for higher strength, a different outer profile to suit the customer's end use).

3. MATERIALS

ITEM	COMPONENT	STEEL TYPE
1	PLATE	Standard carbon steel
2	M10 STUD	Standard carbon steel
3	COATING	Bituminous membrane

4. DIMENSIONS



5. APPROVALS

Product approved by Danosa for use with its PVC and bituminous membranes.

6. FASTENER SELECTION BY SUBSTRATE

The FYT Waterfix M10 ASFALTO 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

7. INSTALLATION PROCEDURE

1. Installation must be carried out by waterproofing professionals able to weld bituminous membranes with a hand welder.
2. Clean the bearing surface of the FYT Waterfix M10 ASFALTO part thoroughly. 3. Choose suitable fasteners for the substrate. 4. Install the fasteners following the manufacturer's recommendations so that the FYT Waterfix M10 ASFALTO part bears fully on the roof without being driven into it.
5. Cover the perimeter of the FYT Waterfix M10 ASFALTO part with bituminous membrane (the flashing piece). 6. Weld the flashing piece over the FYT Waterfix M10 ASFALTO part so that the fasteners are fully covered, making sure at least 5 cm is welded onto the part. 7. Weld the flashing piece onto the existing membrane with a minimum overlap of 5 cm. 8. Check with a probe or similar tool that all overlaps are fully welded.



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 FYT Waterfix M10 point (4 fasteners)	Characteristic strength per FYT Waterfix M10 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

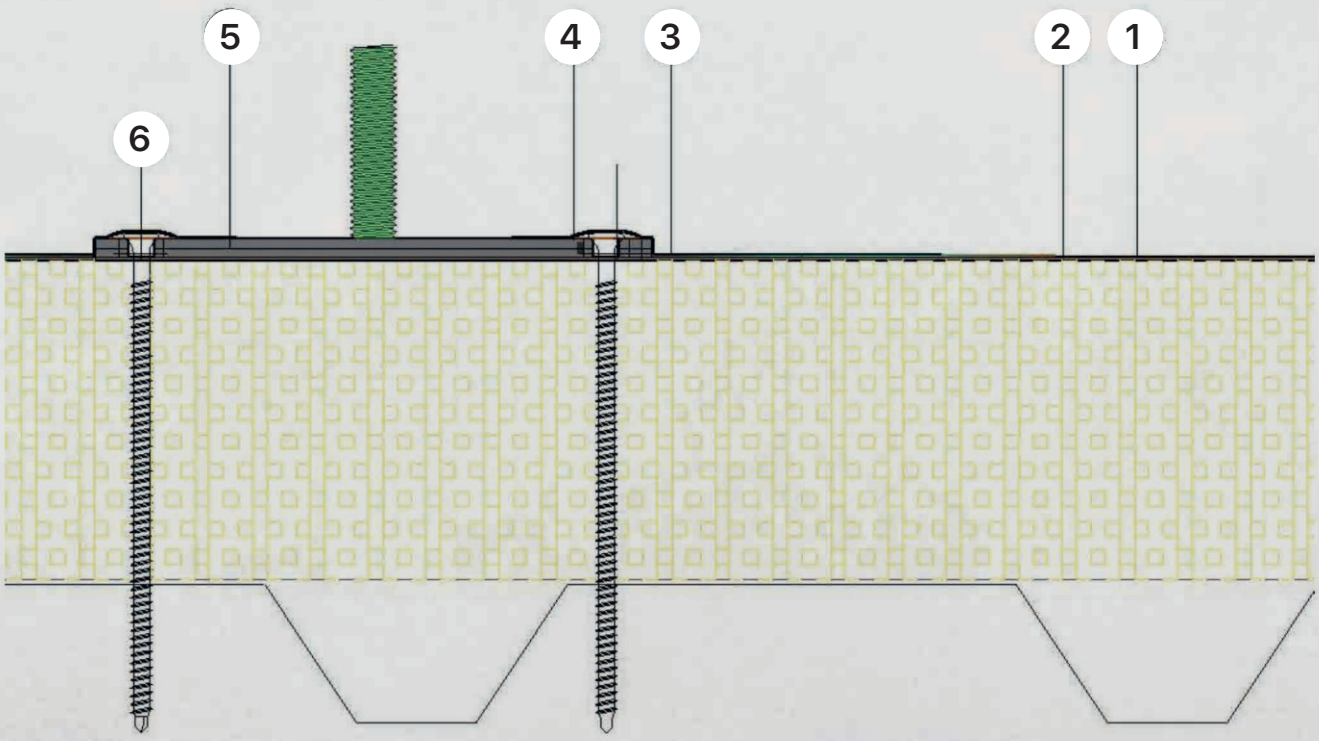
FACTOR SAFETY	REDUCTION FACTOR FOR STRENGTH		FACTOR LOAD FACTOR
	CONCRETE FAILURE	STEEL FAILURE	
Tension	3	2	1.50

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.

9. INSTALLATION DIAGRAM



1. Geotextile felt
2. BITUMINOUS waterproofing membrane
3. Flashing piece - bitumen-bitumen weld
4. Bituminous primer
5. Carbon steel core
6. Mechanical fastener

FYT Waterfix

