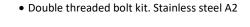


KFS-MA

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PRODUCT DESCRIPTION



CHARACTERISTICS

- Includes one double threaded screw for wood in A2-70 stainless
- Includes three DIN-6923 knurled bolts in A2-70 stainless steel.
- Includes one EPDM ARS-S seal washer.
- For outside use
- Hexagonal end for screwdriver installation.
- Self-tapping pointed DIN-571 type-C screw.
- Guarantees watertightness on roof through the ARS-S joint.
- Attach under roof to wood sub-structure.
- Suitable for use with chemical anchors.

APLICACIONES / COMPLEMENTOS MONTAJE







Used in coplanar aluminium assembly systems to attach solar panels to under-roof sub-structures. When assembling a PSE-A "aluminium profile for assembled fixing", a PMO1012 "plate for double-threaded screw" and a KFSFIM08 "cross connector for bottom fixing kit" are used on each double-threaded screw.



KFSFIM08







PSE-C

KFSFIM08

PMOL1012

Used coplanar assembled aluminum system, for mounting solar panels, it is used as a fixing element to the substructure below the roof. In the assembly of the PSE-C "Aluminum solar profile for assembled fixing", on each double-threaded screw, the following accessories were used: a unit of PMOL1012 "mounting L-plate for doublethreaded screws", and a unit of KFSFIM08 "cross connector for fixing".





D603I08016



GP-XS

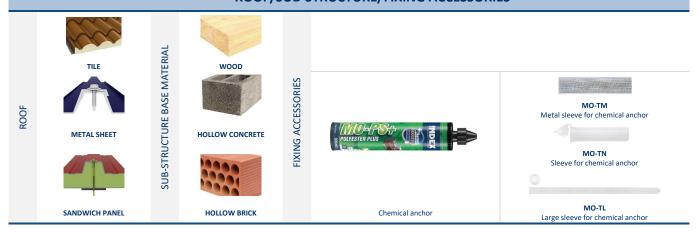
D6923IM08



PMO1012

Used in Atlantis steel coplanar systems to attach solar panels to under-roof substructures. When mounting a GP-XS "INDEXTRUT solar perforated guide", a PMO1012 "plate for double-threaded screw", a D603I08016 "16 mm DIN-603 M8 bolt" and a D6923IM08 "DIN-6923 M8 nut", both in A2-70 stainless steel, are used on each double-threaded screw.

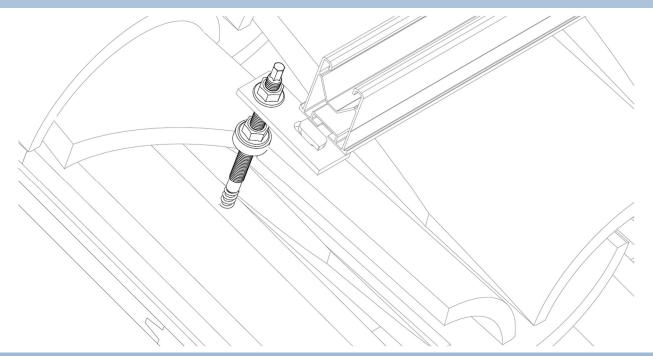
ROOF/SUB-STRUCTURE/FIXING ACCESSORIES



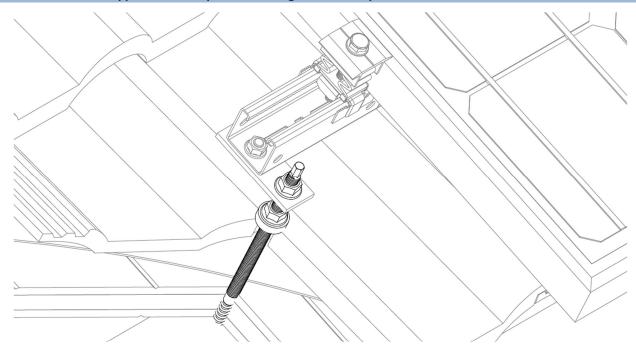
FT_GS_IR_KFS-MA_en 10/11/22 1 de 4 Ref. Rev: 2



APPLICATION EXAMPLES



Application example 1: Mounting of the PSE-A profile on curved roof tiles.



Application example 2: Mounting of GP-XS perforated guide on concrete roof tiles.

1. RANGE									
ITEM	CODE	РНОТО	DESCRIPTION	METRIC	LENGTH	MAT	ERIAL		
	KFSMA10200		Double threaded bolt kit. Stainless steel A2	M10	200 mm	A2 INOX AISI 304			
1	KFSMA10250			M10	250 mm		EPDM		
1	KFSMA12300			M12	300 mm				
	KFSMA12350			M12	350 mm	AISI-304	EPDM		

Ref. **FT_GS_IR_KFS-MA_en** Rev: 2 **10/11/22 2** de **4**



MO-TL

Large nylon sleeve for chemical anchor

2. INSTALLATION INFORMATION



Measurement table

Hollow brick

Chemical anchor

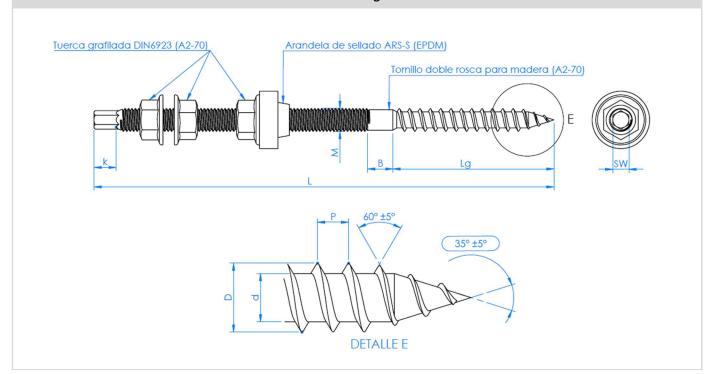
Hollow

concrete

Wood

Code	M	L (mm)	Lg (mm)	ØD (mm)	Ød (mm)	P (mm)	B (mm)	SW (mm)	K (mm)	Washer EPDM
KFSMA10200	M10	200	70	10	7	4,5	10	7	10	ARSS10
KFSMA10250	M10	250	70	10	7	4,5	10	7	10	ARSS10
KFSMA12300	M12	300	90	12	9	5	20	9	12	ARSS12
KFSMA12350	M12	350	90	12	9	5	20	9	12	ARSS12

Drawing



Ref. **FT_GS_IR_KFS-MA_en** Rev: 2 **10/11/22** 3 de 4

TECHNICAL DATASHEET:





TECHNICAL PROPERTIES							
Essential characteristics	Features						
Essential Characteristics	Unit	M10	M12				
Characteristic plastic modulus My,k	[Nmm]	41348	68353				
Characteristic withdrawal parameter (throughout the fibre) fax,k with ρ k = 450 kg/m ³	[N/mm²]	12,23	13,77				
Characteristic withdrawal parameter (perpendicular to the fibre) fax,k with ρk = 450 kg/m ³	[N/mm²]	8,68	9,85				
Characteristic head pull-through parameter fhead,k with $\rho k = 450 \text{ kg/m}^3$	[N/mm²]	20,76	21,0				
Characteristic tensile strength ftens,k	[kN]	30,12	37,3				
Characteristic torsional ratio with ρk = 450 kg/m ³	-	4,80*	4,80*				
EN 1995-1-1 corrosion protection.	-	Class 3	Class 3				
(*) Pre-drilled. Harmonised technical specification: EN 14592:2008 + A1:2012							

		Table showing instal	llation narameters					
Table showing installation parameters Installation on base material								
Code	Installation wrench (mm)	Installation on wood Ø drill hole (mm)	Installation with chemical anchor					
KFSMA10200	Sw7	7	See technical data sheets for the chemical anchors used					
KFSMA10250	Sw7	7	See technical	data sheets for the chen	nical anchors used			
KFSMA12300	Sw9	10	See technical data sheets for the chemical anchors used					
KFSMA12350	Sw9	10	See technical data sheets for the chemical anchors used					
	Assembly of PI	MO/ PMO-L plate	Installation of joint on roof					
Code	Metric/Wrench (M/Sw)	Maximum tightening torque (Nm)	Ø Roof drill hole (mm)	Metric/Wrench (M/Sw)	Maximum tightening torque (Nm)			
KFSMA10200	M10 / Sw15	28	16	M10 / Sw15	Until adjustment of the joint (See Figure)			
KFSMA10250	M10 / Sw15	28	16	M10 / Sw15	Until adjustment of the joint (See Figure)			
KFSMA12300	M12 / Sw18	45	16	M12 / Sw18	Until adjustment of the joint (See Figure)			
KFSMA12350	M12 / Sw18	45	16	M12 / Sw18	Until adjustment of the joint (See Figure)			
			X					

Ref. **FT_GS_IR_KFS-MA_en** Rev: 2 **10/11/22 4** de **4**