

## KFS-AT



## PRODUCT DESCRIPTION

- Self-drilling screw kit. Stainless steel A2 with Atlantis C4-M coating

## CHARACTERISTICS

- Includes 1 self-drilling double-threaded screw for A2-70 stainless steel with zinc finish.
- Includes 3 DIN-6923 nuts made of A2-70 stainless steel.
- Includes 1 ARS-P umbrella washer made of EPDM/A2-70.
- For outdoor use
- Hexagonal footprint at the end for installation with a screwdriver.
- Central hexagon for adjustment.
- BZ self-drilling tip.
- Guarantees watertightness on corrugated roofs using the ARS-P umbrella washer.
- Fixes under the roof to a steel substructure.

## APPLICATIONS / ASSEMBLY ACCESSORIES



PSE-A



KFSFIM08



PMO1012

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.



PSE-C



KFSFIM08



PMOL1012

Used coplanar assembled aluminium 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** "Aluminium solar profile for assembled fixing", on each double-threaded screw, the following accessories were used: a unit of **PMOL1012** "mounting L-plate for double-threaded screws", and a unit of **KFSFIM08** "cross connector for fixing".



GP-XS

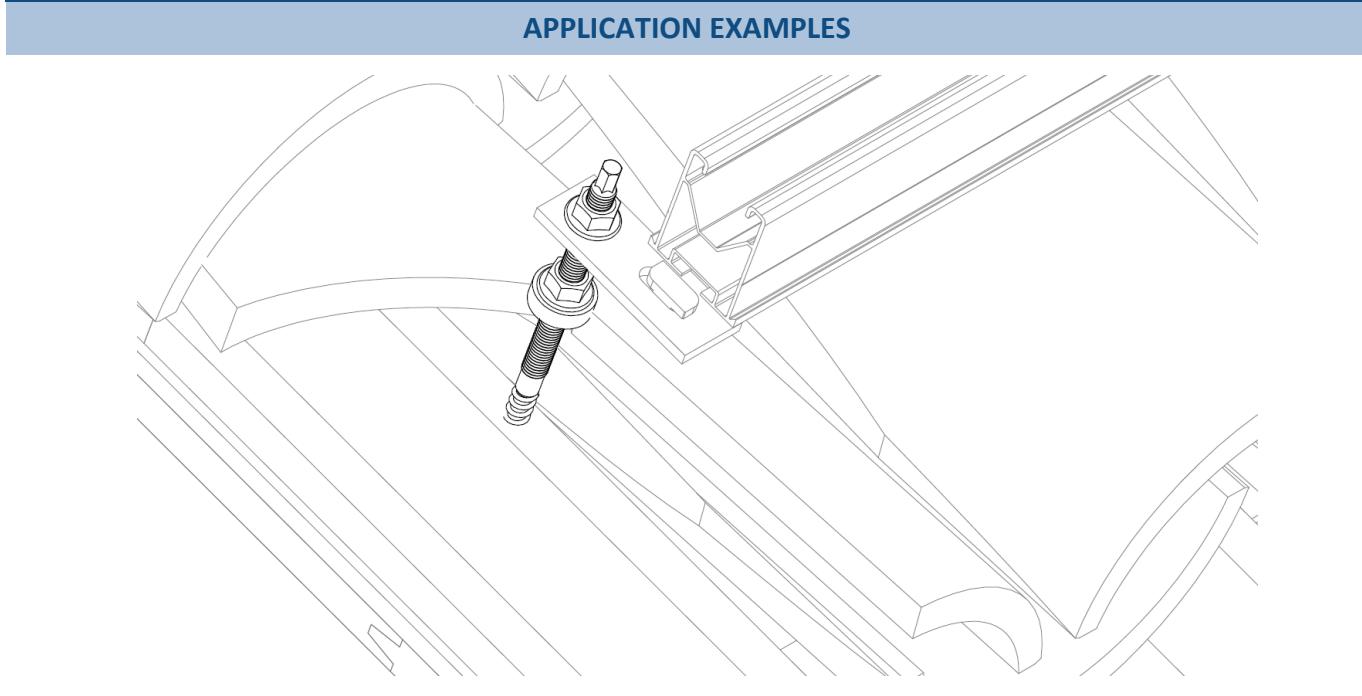
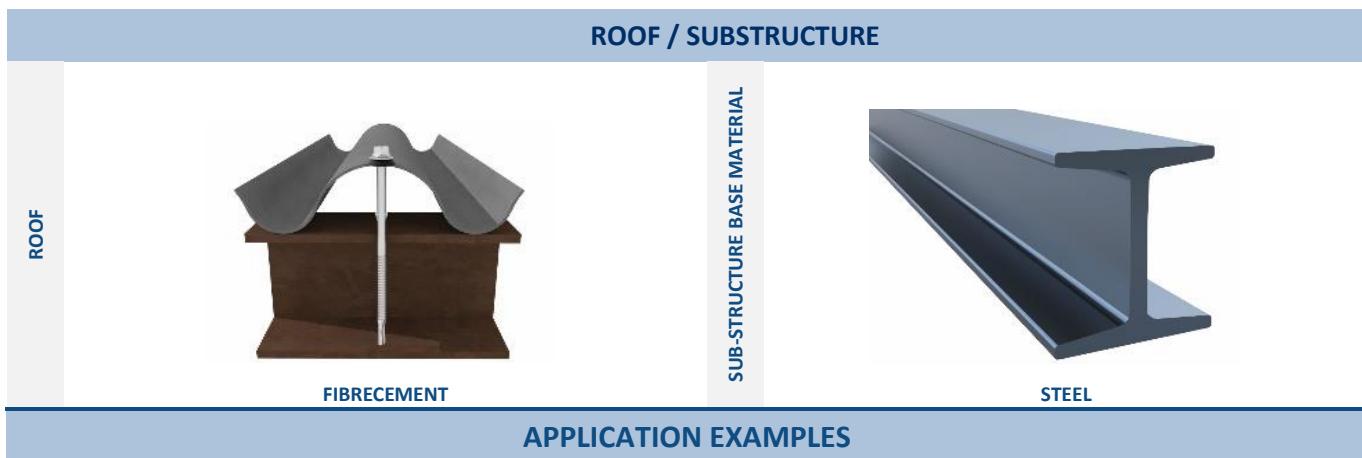


D603I08016

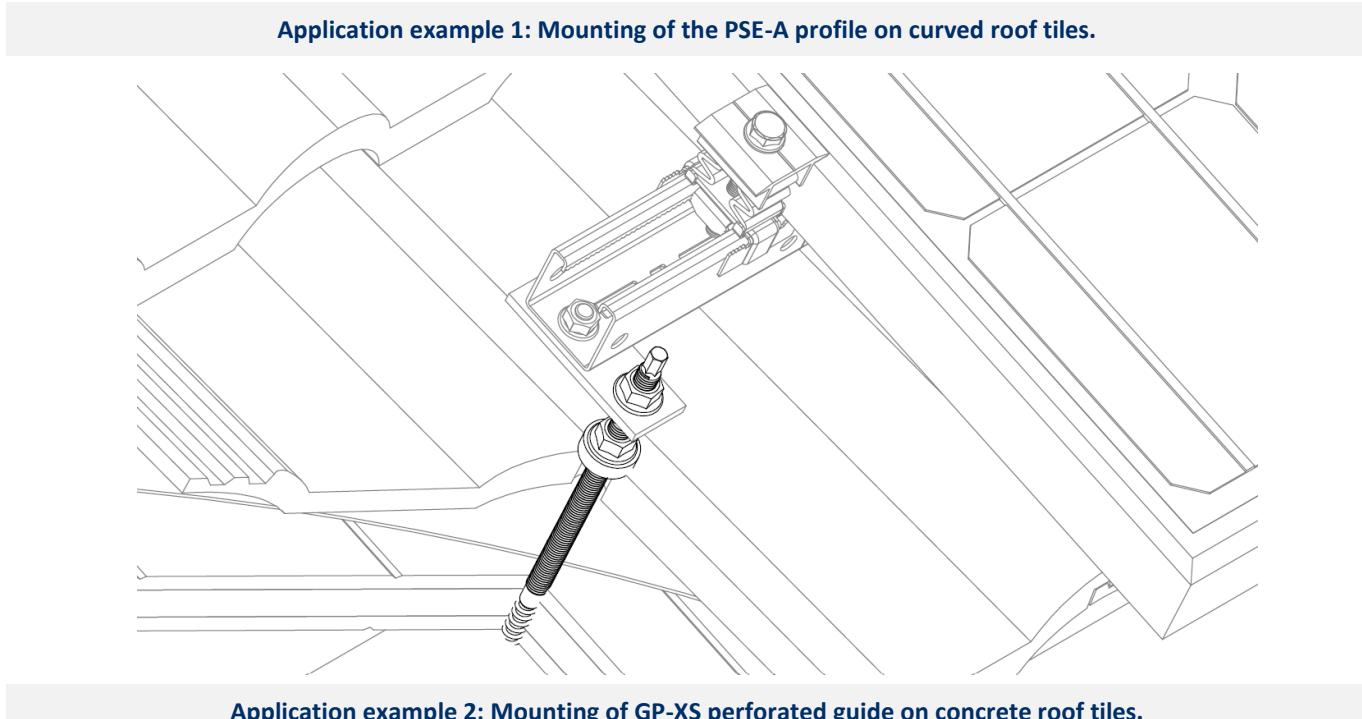


D6923IM08

Used in **Atlantis steel coplanar systems** to attach solar panels to under-roof sub-structures. 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.



**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	PHOTO	DESCRIPTION	METRIC	LENGTH	MATERIAL	FINISHED	
1	KFSAT10160		Self-drilling screw kit. Stainless steel A2 with Atlantis C4-M coating	M10	160mm		EPDM	
	KFSAT10200				200mm	AISI-304/Steel		

## 2. INSTALLATION INFORMATION

### 2.1 KFS-AT

Self-drilling screw kit. Stainless steel A2 with Atlantis C4-M coating



Material	Coating	Fixing accessories	
		DIN-603 M8x16 + DIN-6923 M8	KFSIM08
AISI-304/Acero	Atlantis C4-M	DIN-603 M8x16 + DIN-6923 M8	KFSIM08
EPDM			
Roof		Sub-structure base material	
			
Fibrecement		Steel	

#### Measurement table

Code	M	L (mm)	Lg (mm)	Ls (mm)	ØD (mm)	SW (mm)	Washer EPDM
KFSAT10160	M10	160	70	11,0	8,0	5	ARSP08
KFSAT10200	M10	200	70	11,0	8,0	5	ARSP08

#### Drawing

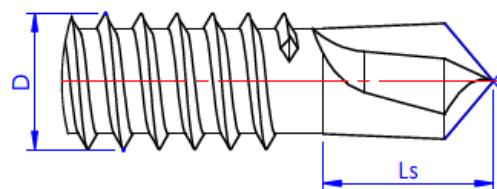
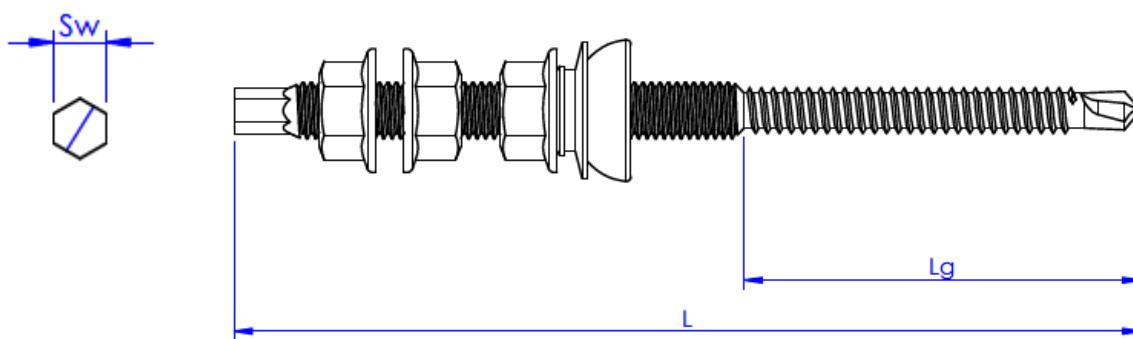
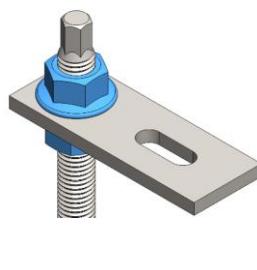
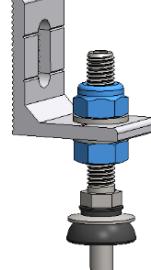


Table showing installation parameters

Installation on base material						
Code	Wrench size (mm)	Steel thickness 2 - 3mm Pre-drill diameter (mm)	Steel thickness 3-5mm Ø Pre-drill diameter (mm)	Steel thickness 5-10mm Ø Pre-drill diameter (mm)	Steel thickness ≥10mm Ø Pre-drill diameter (mm)	
KFSAT10160	Sw7	--	7mm	7,2mm	7,4mm	
KFSAT10200	Sw7	--	7mm	7,2mm	7,4mm	
Assembly of PMO/ 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)	
KFSAT10160	M10 / Sw15	28	8-10	M8 / Sw13	Until adjustment of the joint (See Figure)	
KFSAT10200	M10 / Sw15	28	8-10	M8 / Sw13	Until adjustment of the joint (See Figure)	
						

Design loads at extraction / Steel thickness (S235)

Code	e = 2 mm N <sub>Rd</sub> (kN)	e = 3,0mm N <sub>Rd</sub> (kN)	e ≥ 4,0mm N <sub>Rd</sub> (kN)
KFSAT10160	1,73	2,67	4,0
KFSAT10200	1,73	2,67	4,0