

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 1 DIN-985 nut and 1 DIN-934 nut made of A2-70 stainless steel.
- Includes 2 DIN-125 washers 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

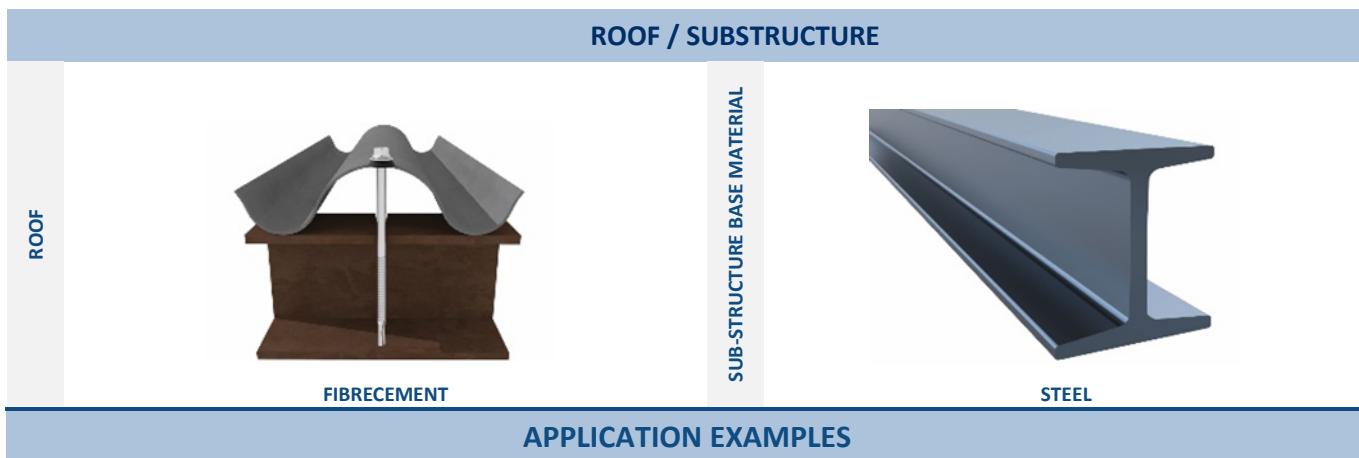


D603I08016

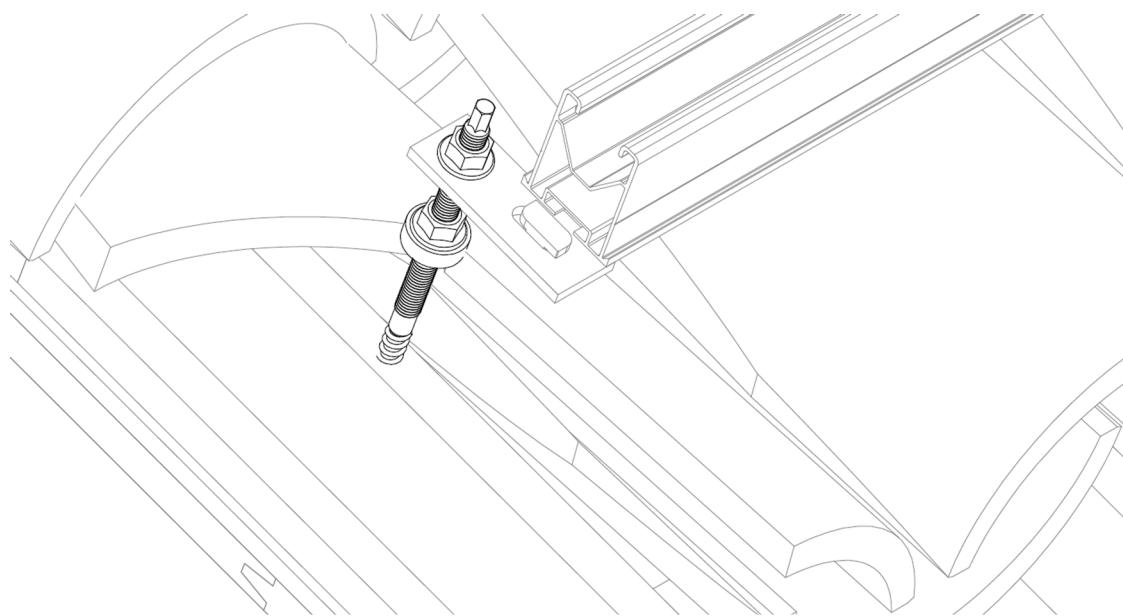


D6923IM08

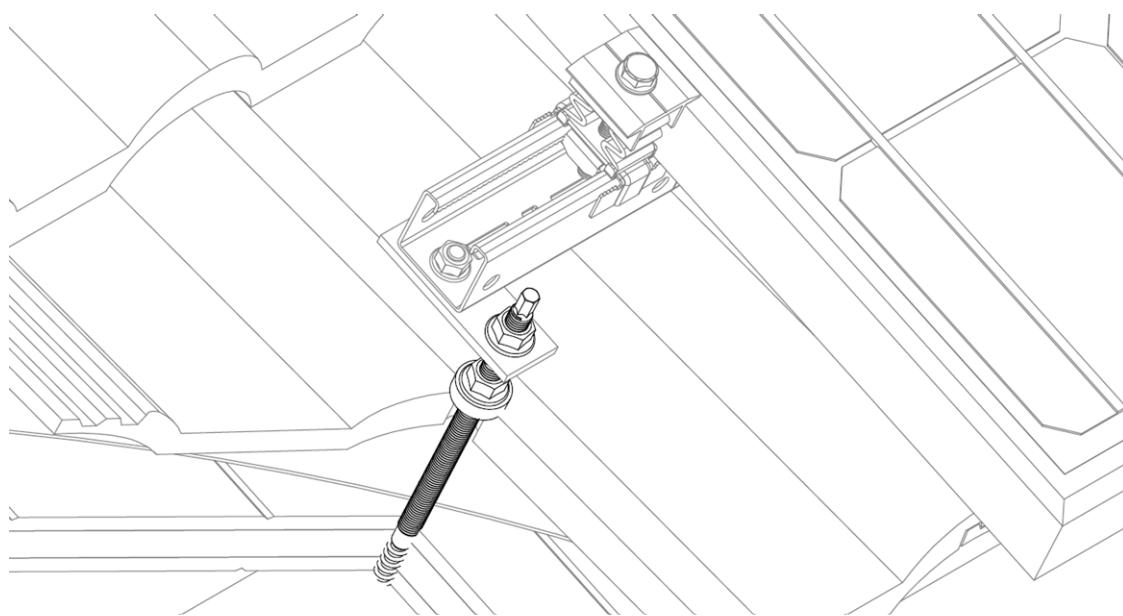
Used in **Atlantis steel coplanar systems** to attach solar panels to under-roof sub-structures. When mounting a **GP-XS** "INDEXTRUT solar perforated guide", a **PMO1012** "plate for double-threaded screw", a **D603I08016** "16 mm DIN-603 M8 bolt" and a **D6923IM08** "DIN-6923 M8 nut", both in A2-70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



APPLICATION 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 | 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 | |
|---|--|--|---------|
|  |  | D603I08016 + D6923IM08 DIN-603 M8x16 + DIN-6923 M8 | KFSIM08 |
| EPDM | EPDM | PMO | PMO-L |
| 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

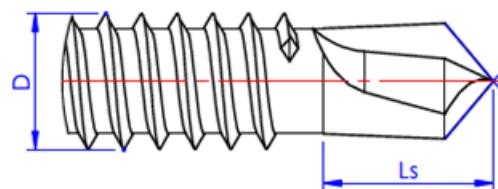
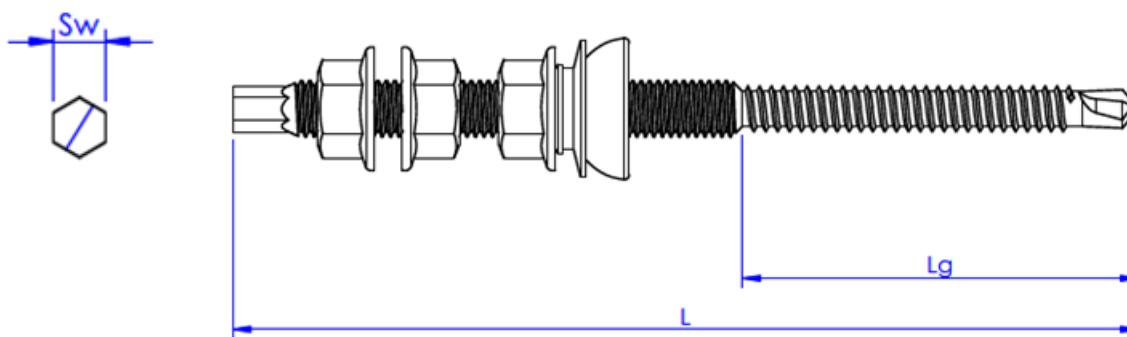
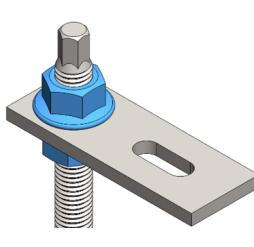
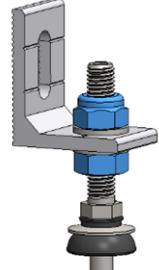
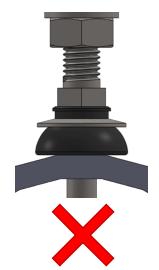


Table showing installation parameters

| 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 _{Rd} (kN) | e = 3,0mm N _{Rd} (kN) | e ≥ 4,0mm N _{Rd} (kN) |
|------------|----------------------------------|-----------------------------------|-----------------------------------|
| KFSAT10160 | 1,73 | 2,67 | 4,0 |
| KFSAT10200 | 1,73 | 2,67 | 4,0 |