

AEROCOMPACT®

ENGLISH

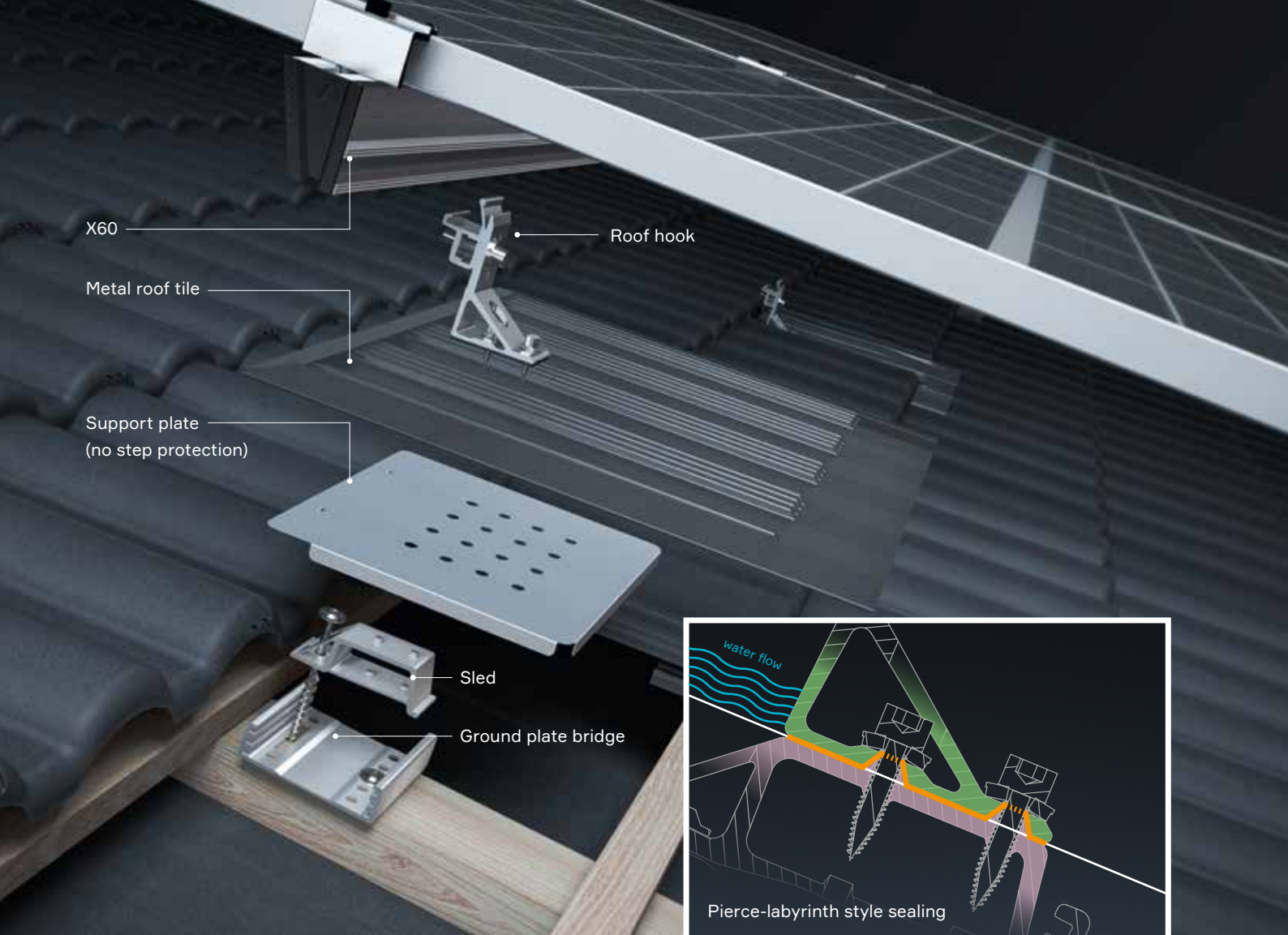
**FLEXIBLE IN
APPLICATION
AND HIGHEST
LOAD CAPACITY**

COMPACT**PITCH** **XM-F REPTILE**

THE COMPACTPITCH FAMILY IS CHARACTERIZED BY ITS VERSATILE MOUNTING OPTIONS FOR PITCHED ROOFS. WITH THE XM-F REPTILE, AEROCOMPACT ENABLES FAST INSTALLATION FOR ANY TYPE OF TILED ROOF: A FLEXIBLE COVER – AVAILABLE IN THREE COLOR VARIANTS – CAN BE ADAPTED TO THE SHAPE OF THE TILE IN JUST A FEW SIMPLE STEPS.

INTELLIGENT SOLAR RACKING

- + Cost-effective due to savings on roof hooks
- + Pre-assembled
- + Assembly always on rafters, therefore higher loads possible
- + Adaptable to almost any tile shape
- + Flexible in application



THE CHALLENGE

The installation of roof hooks usually requires a wide variety of tools and machines. With conventional roof hooks, the roof tiles must be machined with an angle grinder in order to reinsert the tile flush over the roof hook. When working, there is a risk that they will break and leak over time. The positioning of the roof hook depends on the tile, so the forces are not optimally transferred into the roof structure via the rafter. The use of sheet metal substitute tiles results in high storage costs for the installer and, due to the large variety of types, especially on the European market, increases the risk of complications and thus delays in delivery and installation.

THE SOLUTION

The XM-F REPTILE system offers an innovative solution for a wide range of different roof tiles on pitched roofs: With a flexible cover that adapts to the shape of the tile. AEROCOMPACT's Pierce Labyrinth Seal allows flexible positioning of the roof hook on the flashing. The roof hook can therefore always be mounted centrally on the rafter, regardless of the tile position, thus guaranteeing optimal force transmission. This results in an enormous load-bearing capacity of the roof hook and, depending on the area of application and system combination, leads to a significant reduction of fastening points. A support plate (no step protection) is only required to prevent accumulation due to snow loads if the cover plate is located outside the module field.

The slide can be adjusted to three different heights and adapted to the roof batten height. Fine adjustment of the engaged rail is possible with the pre-assembled quick connector. With our specially developed thin sheet metal screw, installers only need one bit to tighten all screws. The XM-F REPTILE system is a novel roof hook design that is particularly strong due to the optimized force transmission into the rafters. This makes it much easier to install in areas with high snow loads. In areas with lower snow loads, the number of roof hooks can be significantly reduced by combining them with the X60 rail, thus saving installation time and construction costs.



X60

reduction of roof hooks

UP TO
40%
TIME SAVING
IN ASSEMBLY

THE VERSIONS

Compared to replacement metal roofing tiles, the reduction to just one variant reduces storage costs many times over. The flexible solution is available in brown, red and anthracite. A roof hook for every requirement simplifies logistics and work preparation. For customers who use sheet metal replacement tiles, the reduction in the number of variants makes purchasing, storage costs and planning easier.



AEROCOMPACT®

- + One-man assembly possible
- + Minimal stock-keeping
- + Optimized for pre-assembly
- + Highest load capacity
- + Developed in Austria
- + Color-coordinated and can be integrated elegantly

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| DESCRIPTION | Rail-based mounting systems for framed PV modules on roof tiles and pantiles with a size up to 450 x 440 mm and a bead height with a maximum of 40 mm. |
| AREA OF APPLICATION | On roof tiles and pantiles. |
| MODULE DIMENSIONS | Any length and width, frame height 30-50 mm. |
| INSTALLATION ANGLE | Parallel to the roof. |
| DISTANCE TO ROOF SURFACE | 80–120 mm |
| DISTANCE FROM THE ROOF EDGE | No minimum distance, roof areas F and G according to EN 1991-1-4 can be occupied. |
| MAX. ROOF INCLINATION | 75° (min. 10°), with suitable PV modules also steeper. |
| MAX. FIELD SIZE | Approx. 12 m, along continuous rail, otherwise unlimited. |
| MIN. FIELD SIZE | 1 x 1 Modul |
| WIND LOAD | Suction load up to 2.4 kN/m ² (kPa) |
| SNOW LOAD | Compressive load up to 6.0 kN/m ² (kPa) |
| DESIGN / PROOF OF STABILITY | Software-supported on the basis of European/international standardization. |
| ON-SITE REQUIREMENTS | Sufficient static load-bearing capacity of the roof structure and the building support structure as well as sufficient pressure load-bearing capacity of the roof structure must be ensured by the customer. The general terms and conditions of business and warranty as well as the user agreement apply. The module release must also be checked by the customer. |
| COMPONENTS | Module clamps with grounding pins; rail arrangement single layer horizontal/vertical or cross bond; roof hooks, flexible metal replacement tile. |
| MATERIALS | Load-bearing connecting parts made of aluminum EN AW 6063 T66, EN AW 6005 T6 and stainless steel 1.4301 / A2-70; EPDM seals. |