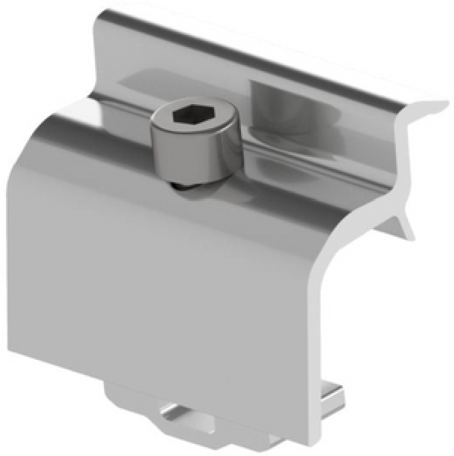
EcoMid and EcoEdge module clamps for trapezoidal roofs:

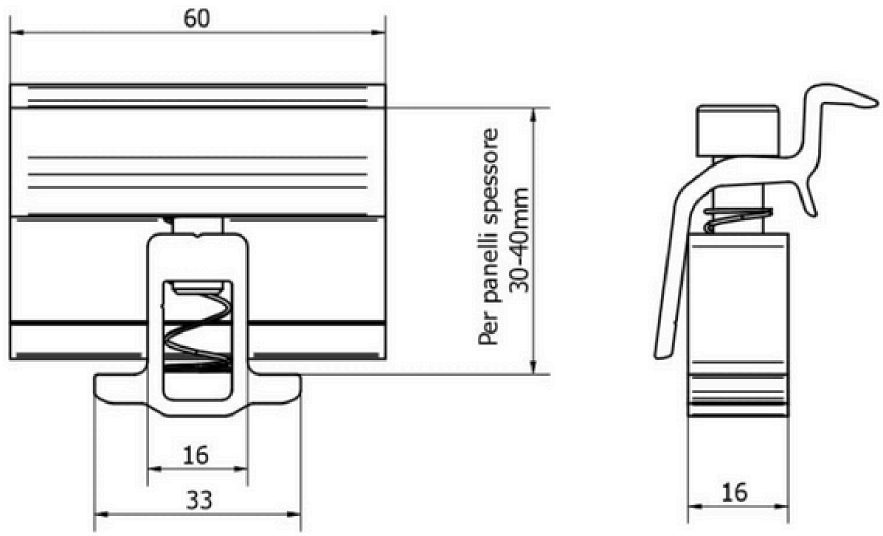
The **EcoMid** (mid clamp) and **EcoEdge** (end clamp) module clamps with M8 screw can be used to fix framed PV modules with frame heights between 30 mm and 40 mm in conjunction with the **EcoFlat, EcoHigh and EcoBasic** short rails or the EcoRoof Mount flat roof system.

The **EcoMid** and **EcoEdge** module clamps are designed to easily withstand extreme pressure and suction loads from snow and wind.

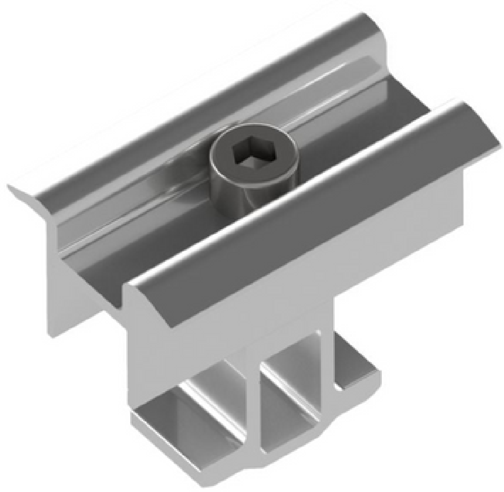
Advantages over conventional solutions:

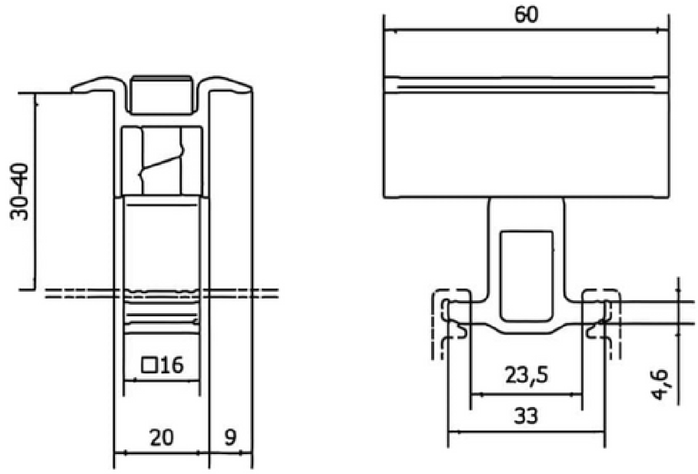
- **Pre-assembled** EcoMid and EcoEdge module clamps save time during installation.
- **Fast and efficient** assembly with few components.
- **Flexible use** for vertical or horizontal module installation.





Packaging unit per box: EcoMid or EcoEdge: 50 pieces





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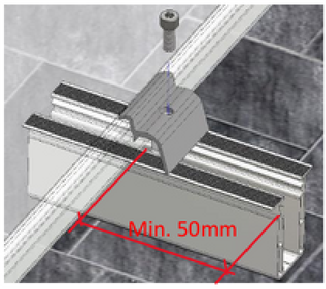
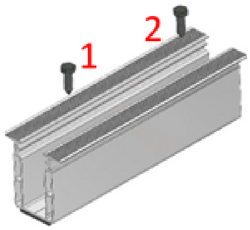
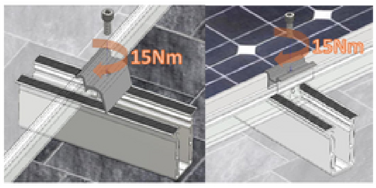
Assembly instructions:

- Minimum distance from the edge of the PV module:
  - The distance from the edge of the PV module to the edge of the short rail must be at least 50 mm.
- Rail mounting:
  - Use at least 2 sheet metal screws to attach the rail.
- Procedure for loose screws:
  - If a screw keeps loosening after tightening, drill another hole 20 mm away and insert a new sheet metal screw until the screw reaches the correct tightening torque.
- Alternative placement:
  - If the result is still unsatisfactory, try placing the rail in a different location as close as possible to the original position.
- Tightening torque of the clamps:
  - The tightening torque of the clamps is 15 Nm.







Please note the following in general:

- Installation of our products should only be carried out by qualified professionals and specialist companies with the necessary expertise and experience working on roofs. During installation, the warranties of all trades and the roof itself, as well as all regulations governing work on roofs (e.g., the use of fall protection systems, safety nets above an eave height of 3 meters, accident prevention measures, building regulations, etc.) must be observed.
- We accept no liability for defects and damages resulting from failure to follow our assembly instructions, from the installation or assembly of our products with competitor components, or from the use and combination of other components not purchased from us. In such cases, the warranty is excluded.
- The building owner, proprietor, or operator is responsible for the structural stability of a building. The installer carrying out the installation is responsible not only for the installation itself but also for the roof on which it is installed. Anyone installing a system on an existing roof without first verifying its structural stability is violating existing law! Sufficient holding power of the roof covering to the supporting or substructure must always be ensured. This verification must be provided by the building owner. In cases of doubt, a structural engineer must be consulted beforehand to determine the load and its distribution.
- When installing metal roofing on wooden sheathing, the edge and corner areas should not be covered with modules due to the limited load-bearing capacity of the roofing and the clips. In the central area, skipping seams is generally not possible. Therefore, we recommend installing clamps on each seam. The installation of, for example, PV systems represents a point load; therefore, we recommend reduced clip spacing and screwed-in clips. The clamp should be installed and fastened between the clips to achieve optimal load distribution.
- The thermally induced change in length of the metal roofing must not be obstructed!
- When mounting rigid objects such as rails, pipes, cable ducts, etc. on the clamps, these must be separated at regular intervals (after max. 3m) to limit deformations due to thermally induced changes in length (in longitudinal and transverse directions).
- The respective installation instructions do not relieve the executing company of the responsibility to clarify the possible uses and applications of our products, also in conjunction with the other materials used, for each individual project beforehand. The material properties of the respective metals, their combination with one another, as well as the processing instructions and regulations of all manufacturers involved (including those of the metal roofing material) must be observed.
- RoofTech recommends that the planned installation, PV system, snow guard, etc. be checked by a qualified professional who is responsible for the snow and wind loads, the loads of the installation, the statics and assembly as well as the planning and construction of and on metal roofs.
- The suitability of our products for their intended use must be verified by the planner and user. If technical details are not described separately, this does not relieve the executing company of the responsibility to conduct a case-by-case review and clarify the facts beforehand. RoofTech GmbH, S-5!-Metal Roof Innovations Ltd., and our manufacturers generally do not assume responsibility for installation, suitability, or application.

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