

# BISOL EasyMount ALU Rail 80

Universal solution for all types of trapezoidal roof

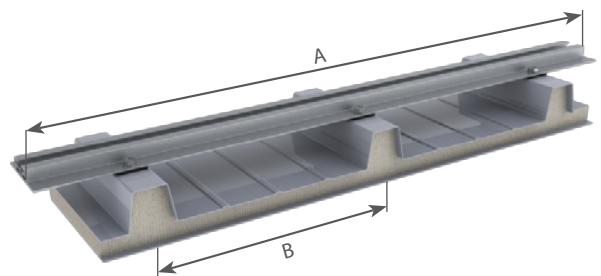
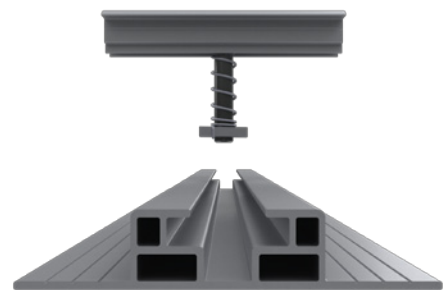



BISOL EasyMount Alu Rail 80 is a versatile solution suitable for all types of trapezoidal metal sheet roofs and designed to fit all wave angles and dimensions. This system is compatible with all module sizes and allows portrait and landscape module orientation with no additional material required. BISOL EasyMount Alu Rail 80 is made to withstand high wind and snow loads and provides high shear and pull-out resistance. Its simplicity and modularity allows for a quick and easy installation.


Technical Specifications	
Application	Pitched roofs with trapezoidal metal sheet (minimal thickness 0.6 mm)
Trapezoidal wave type	All trapezoidal wave dimensions and angles
Method of installation	Directly into the metal sheet
Module orientation	Portrait or landscape
Module frame tolerances	Suitable for all framed module dimensions
Material	Aluminum EN-AW 6060 T5 (ALU Rail 80) / Stainless steel (fastening elements)
System weight	0.005 kN/m <sup>2</sup> (without PV module)
Dimensions	Width: 80 mm / Height: 15 mm / Length: 450 mm or 530 mm or 730 mm


Length of ALU Rail 80 (A)	Distance between two waves (B)
450 mm (1' 5.7")	up to 21 cm (8.3")
530 mm (1' 8.9")	21 (8.3") - 25 cm (9.8")
730 mm (2' 4.7")	25 (9.8") - 35 cm (1' 1.8")

Cross section of ALU Rail 80:




 10-year durability guarantee

 High shear and pull-out resistance

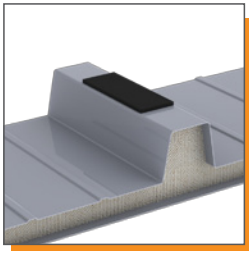
 Fits all wave dimensions and angles

 Quick and easy installation

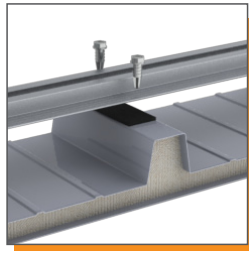
 Watertight connection

 Only very basic tools required

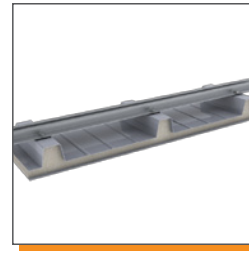
## System Components



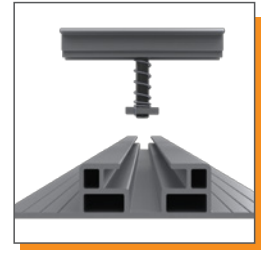
EPDM strip is included and should be placed under the ALU Rail 80 to protect the roof surface.



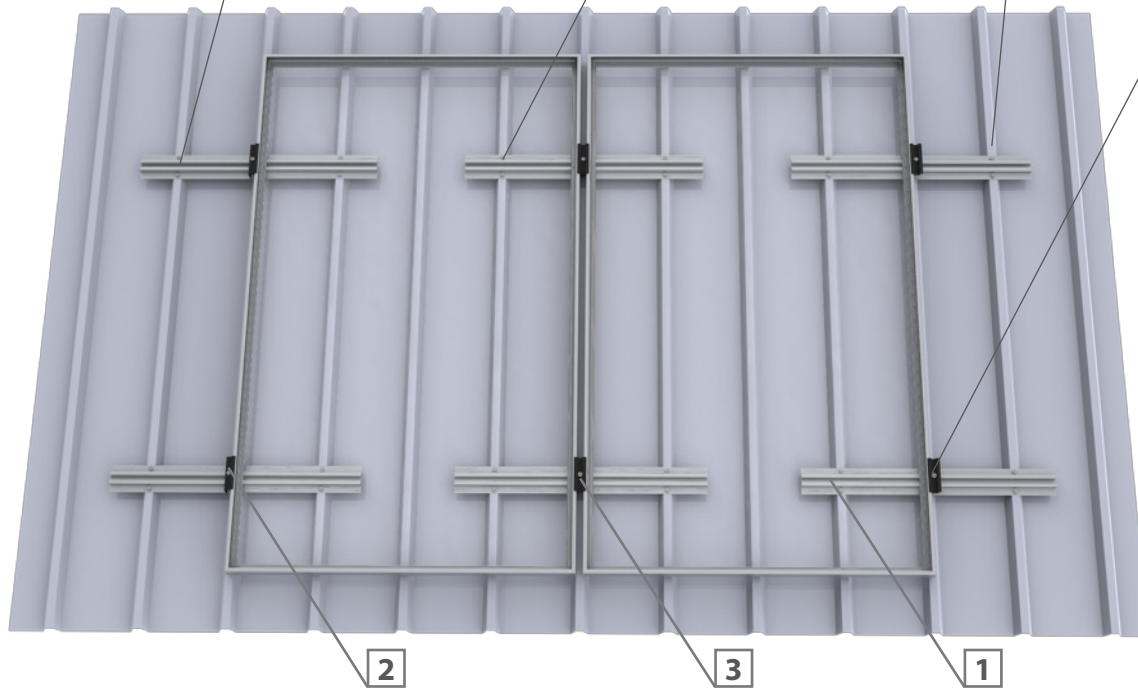
ALU Rail 80 is mounted with 2 screws per wave.



We recommend that ALU Rail 80 is mounted across three waves.



PV modules are fixed onto ALU Rail 80 using middle and end clamps. One grounding plate must be used for each PV module.



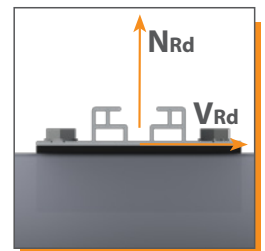
## Example of design resistance for 5.5 x 25 self-drilling screw

### Aluminium trapezoidal metal sheet

Trapezoidal metal sheet thickness [mm]	0.70 0.028"	0.75 0.030"	0.80 0.032"	0.90 0.035"	0.95 0.037"	1.00 0.039"	1.20 0.047"	1.50 0.059"
Pull-out design resistance [NRd in kN]	0.17	0.19	0.21	0.25	0.27	0.29	0.39	0.54
Shear design resistance [VRd in kN]	0.45	0.50	0.55	0.66	0.72	0.77	1.02	1.42

### Steel trapezoidal metal sheet

Trapezoidal metal sheet thickness [mm]	0.60 0.024"	0.63 0.025"	0.75 0.030"	0.88 0.035"	1.00 0.039"	1.13 0.045"	1.25 0.049"	1.50 0.059"
Pull-out design resistance [NRd in kN]	0.32	0.34	0.50	0.74	0.93	1.09	1.26	1.26
Shear design resistance [VRd in kN]	0.53	0.65	0.80	0.93	0.96	0.96	0.96	0.96



Component	ID Code	Component description
1	SEKP-EMRL80_450 SEKP-EMRL80_530 SEKP-EMRL80_730	EasyMount ALU Rail 80 x 450 mm set EasyMount ALU Rail 80 x 530 mm set EasyMount ALU Rail 80 x 730 mm set
2	SEKP-EMMC	Clamp middle EasyMount, preassembled

Component	ID Code	Component description
3	SEKP-EMEC	Clamp end EasyMount, preassembled
4	SEKP-EMGP	Grounding plate EasyMount <sup>(1)</sup>

<sup>(1)</sup> Optional