

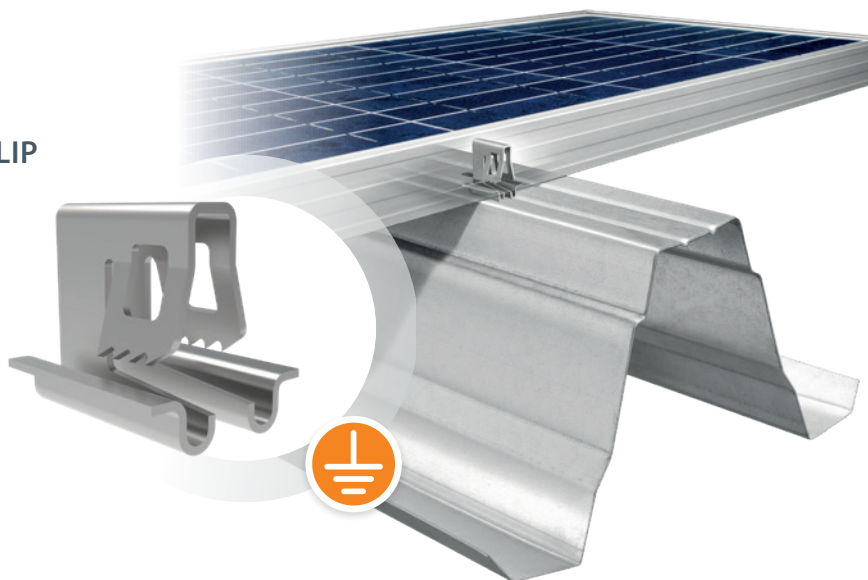
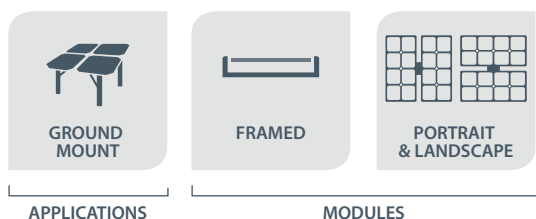
FASTENING & GROUNDING CLIP FOR FRAMED MODULES



Screwless and tool-free clipped fastening solutions provide fast and simple assembly, enabling customers to reduce the overall cost of renewable energies.

PowAR™ Slot

COMBINED **FASTENING & GROUNDING** CLIP
FOR FRAMED PV MODULE



Benefits

QUICK

- Fastening and grounding in a single operation.
- 1 module installed in less than 30 seconds⁽¹⁾.

COST SAVING

- Quick and tool free installation
- Lower maintenance costs: screwless, no periodic torque control required
- Hot spot risk reduction for PV modules thanks to elastic mechanical clamping⁽²⁾



EASY TO USE

- Easy panel alignment, specifically designed for uneven terrain
- Installation friendly: clips can be inserted from underneath the array
- Easy to dismount from the module's backside

APPROVALS

- Clip tested by ARaymond Energies test center
- Qualified by major module manufacturers⁽³⁾
- Tested by SERMA TECHNOLOGIES according to IEC 61215 - 2016

(1) According to field tests results available upon request.

(2) Mechanical shocks and daily thermal cycles often induce micro-cracks within cells, leading to hot spots and power output degradation.

(3) Report available upon request.

PowAR™ Slot: FASTENING & GROUNDING CLIP FOR FRAMED MODULES OR GROUND MOUNT



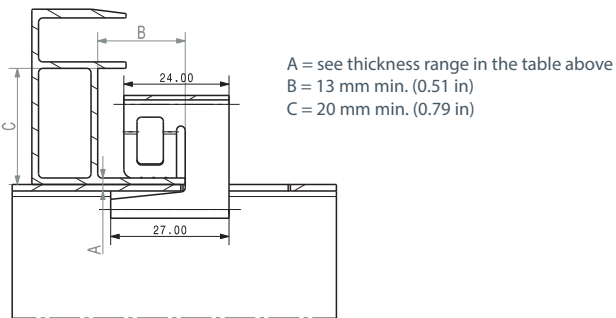
TECHNICAL SPECIFICATIONS

| | | POWAR™ SLOT S | POWAR™ SLOT L | POWAR™ SLOT XL | |
|-----------------|--|---|--------------------|----------------|--------------|
| PRODUCT DETAILS | ARTICLE N° | 269872 | 265165 | 265166 | |
| | RANGE (RAIL + FRAME THICKNESS = A) | in mm | 2,0 to 2,7 | 2,6 to 3,6 | 3,5 to 4,2 |
| | | in inches | 0.08 to 0.11 | 0.10 to 0.14 | 0.14 to 0.17 |
| | DIMENSIONS | in mm | 27 x 22 x 25 | | |
| | | in inches | 1.06 x 0.87 x 0.98 | | |
| | MATERIAL | Steel 1.1231 - DIN EN 10132:2000 | | | |
| | SURFACE TREATMENT | Aluminum enriched Zinc flake coating | | | |
| WEIGHT IN G | 12,8 | | | | |
| PERFORMANCES | STATIC & DYNAMIC MECHANICAL RESISTANCE | Static Load +5400/-2400 Pa compliant with IEC 61215-1-2.16:2016 and Dynamic Load compliant with IEC/TS 62782 :2016 | | | |
| | CORROSION RESISTANCE | No red rust after 720 hours salt spray acc. EN 60068-2-11:1999 | | | |
| | GROUNDING CONTINUITY | Compliant with IEC 60439-1: 2004 8.2.4.1 | | | |
| ENVIRONMENT | PV MODULE SPECIFICATIONS | Module with minimum lip thickness D of 1,1 mm and lip length B of 13 mm (see technical drawing) for modules surface of 2,3 m ² Max (for higher dimensions, please contact us). | | | |
| | RAIL SPECIFICATIONS | Standard steel rails (see technical drawing) | | | |

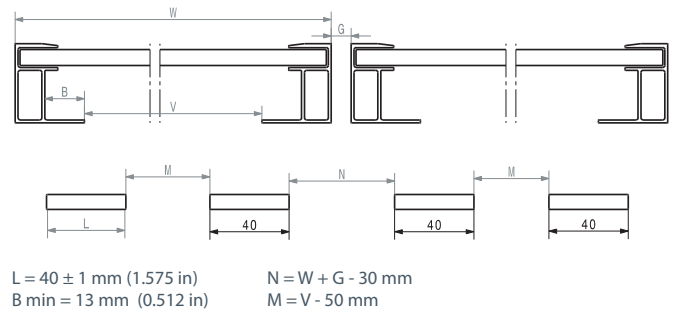
Product information disclosed in this "datasheet" can be modified without any previous notice. Please refer to our instruction manual.

EXAMPLES OF RAIL SPECIFICATIONS

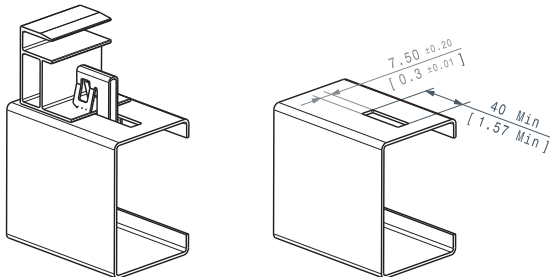
Cross section view & PV module specifications



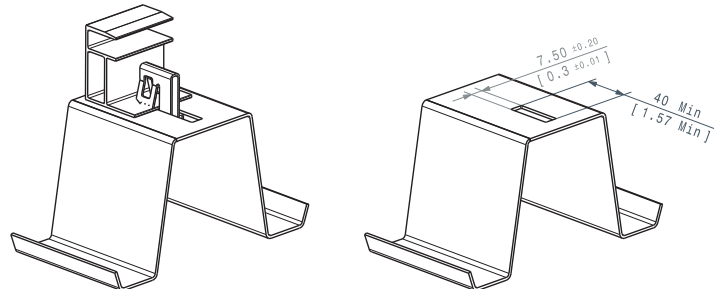
Rail interface design rules for adjustment capability of ±15 mm



C-Shape configuration



Hat-Shape configuration



www.araymond-energies.com



ARaymond Energies SAS (RCS Grenoble 798 705 604) - ZI Technisud 123 rue Hilaire de Chardonnet - 38100 Grenoble - FRANCE has designed this datasheet. "ARaymond Network" means a network of companies which have a license of use of ARAYMOND™. This datasheet is provided for information purposes only and does not constitute an offer or an agreement. ARaymond Energies makes no warranty or representation whatsoever, express or implied, including but not limited to the accuracy, reliability, novelty, completeness, fit for a particular purpose or merchantability of the information contained in it. If you need further information, please contact ARaymond Energies.
 1012_19|05|2022-EN - ©Raygroup Communication. Photo Credit: ©ARaymond Network, ©Ronan Kerloch.