

Declaration of Conformity

Easy Plan 3M

Energy Systems assures that the Easy Plan 3M is produced under a rigorous process of engineering and quality, ensuring a high performance in the fixation of photovoltaic modules on Sandwich panels and metal roof.

The structure is made of extruded aluminum, according to the AIMgSI 6060 (EN AW-6060) rules and it has **15 years** of manufacturing warranty. It has thermal treatments T5 following the NP EN 573-3 e EN 755-2 rules, with stainless steel accessories according to the DIN ISO 4759/1 e DIN 267/2 standards.

The fixation is made by the exclusive bonding technology with double-sided tape 3M which was extensively tested in the 3M Laboratories Iberia, located in Madrid – Spain.

These tests checked the resistance and adherence of the VHB Tape 3M following the method ASTM D-3330, with the evaluation of the components in aggressive environments. The mounting system was placed in the climatic chamber in a cycle ISO 9142 D3 modified in compliance with the conditions below:

- 4h / 80°C;
- 16h / 40°C - 98% of humidity level;
- 4h / -20°C;
- Cycle repeated for 7 days.

Once this cycle was finished and after 24h at 23°C, the adherence was tested again through the repetition of the cycle, with climatic ageing, wind speed 300mm/minute and angle of inclination 90°.

Technical Testing: ST-18-HG-048. Date 21.06.2018.

In addition to the laboratory tests, it was made a prototype, analysis and applications in real environments, being the solution approved in all the requirements of usability and safety.

Therefore, we ensure that the Easy Plan 3M supplied to **xxxxxx**, in the order **xxxxxxx**, has **xxxxxxx** of bonding warranty, as long as the following conditions are respected: Cleaning all the points of fixation with Isopropyl Alcohol; Application of the Primer 3M; total fixation of the double-sided tape on the surface. This period was indicated considering the information sent by the client, according to the characteristics and conditions of the roof.

EXCLUSIONS

This warranty will not be applicable if Energy Systems proves, by tests and analysis, that the structure was damaged by: careless installation; accidents or incorrect use; modification; storage, transport or handling careless; not following the assembly instructions and maintenance; to be used for another purpose than for photovoltaic installations; any repair made by anyone not authorized by Energy Systems.

The warranty will not be applicable to defects caused by due to forces of nature, force majeure and other unpredictable circumstances outside the control of Energy Systems, for example: earthquakes, typhoons, whirlwinds, volcanic eruptions, floods, lightning strikes, snow damage, nuclear events etc...; by improper maintenance, flying objects or external load, loads that are higher than the named design load in Eurocode EC1.

Sincerely,

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