

CERTIFICATE OF COMPLIANCE FOR MOUNTING SYSTEMS:

HELIOS H2100 Free Field systems

HELIOS H2200 TILE ROOF

HELIOS H2300 FLAT ROOF

HELIOS H2400 INDUSTRIAL ROOF

The company ALUMIL S.A. certifies that:

- According to the Consumer Protection Act, we provide a guarantee of 20 years for the material (aluminum profiles, polyamides) and its mechanical properties.
- The aluminum profiles produced by Alumil are in accordance with EN AW-6060 (AlMgSi0.5)/6063/6005/6082) and ISO2768 (General Tolerances) and have chemical composition conforming under the European Standard EN DIN573-3.
- The mechanical properties of aluminum profiles comply under European Standard EN DIN755-2, Brinell - hardness test (acc. EN ISO 6506-1), Tensile Test (acc. EN10002, Part 1.)
- The production process conforms to the standards ISO9001:2008, ISO14001:2000 and EL0T1801.
- The electrostatic painting of aluminum profiles complies with Qualicoat Standard minimum coating thickness to 60 µm.
- The anodized aluminum profiles complies with Qualanod Standard, with the middle class anodizing 15µm. After a special agreement with the client, the class of anodizing can range from 5µm to 25µm.
- If the project is placed less than 3km from the sea, or the atmosphere is highly contaminated with industrial pollutants or in any other case considers by project engineer, the warranty for the material only applies if the profiles are anodized as specified above.
- The static design of the PV mounting systems is certified by structural and foundation design studies, made in accordance to Eurocodes for every typical system.
- The warranty is transferable to the project owner.

Further notes and requirements

- The installer must comply with the instructions and technical manuals for the assembly, maintenance and inspection of construction. Alumil is not responsible for failures or omissions that may occur due to errors during installation.
- The customer has to verify thoroughly all required parameters. Particularly, snow loading, wind speed, exposure and topographic factor have to be confirmed with the local authorities or a licensed professional engineer. The project parameters must fit exactly the conditions on site and have to be determined at customer's responsibility.
- Only Alumil's parts used in conjunction with installer provided parts that are specified in the Installation Guide may be used.

Exclusions

- Wind loads in excess of those published in Alumil Solar's static studies according to Euro Codes 1, 3, 9
- Snow load in excess of those published in Alumil Solar's static studies according to Euro Codes 1, 3, 9
- Deterioration caused by mishandling
- Extraordinary environmental influences or force majeure (lightning strike, hail, fire, storm, natural catastrophe, acid rain etc.) or vandalism or theft.
- Corrosion arising from atmospheric pollution, condensation, salt, or from contact with gases, fumes or chemicals not commonly present in the atmosphere
- Unprofessional installation of the PV system
- Installation of defective components

Limitations

- Alumil Solar's obligations shall only be to supply replacement parts.
- In no case shall Alumil Solar's liability exceed the purchase price paid for the defective products or defective components
- Failure to comply with the above mentioned exclusions render this warranty invalid.
- This Limited Warranty does not cover damage to the Product that occurs during its shipment, storage or installation. Additionally, the Warranty is voided if the Product is modified, moved or relocated after the original installation.
- The Warranty covers only its Product and not any related items such as bolts and nuts, PV modules, inverters, batteries, transformers, disconnects and data acquisition components.

Pile Warranty Conditions

- Typology: ALUMIL H2 100 mounting system with direct soil piling
- Hot dip galvanization standard: EN ISO 146 1:2009
- Minimum zinc coating thickness: EN ISO 146 1:2009 & table 3: 70 µm
- Steel type: S235 as per EN 10025:2006
- Steel mill's test certificates as per EN 10204/3.1
- **Atmospheric corrosion zinc coating lifecycle: 20 years warranty as per EN ISO 14713:2009**
- **Soil corrosion zinc coating lifecycle: 20 years warranty according to Geotechnical study and/or Soil Survey report that it has been provided.**
- Corrosive or extremely corrosive soils with zinc corrosion rate higher than 4µm/year should be evaluated by independent third party expertise. Indications of soil corrosive behavior include: low soil resistivity (<50 Ω*m) - high soil moisture (> 17%) - high chlorides concentration(> 100 PPM) - increased sulfates level (>200 PPM) - unusual soil acidity levels (PH <5, > 10)
- Warranty exclusions: product surfaces chemically or mechanically processed after galvanization are excluded from this warranty document
- Warranty Validity: the validity of this document starts from Invoicing date and is strictly related to the initial site conditions described in the provided engineering data. Significant omissions or future changes in the initial site conditions that might affect atmospheric and/or soil corrosivity will invalidate the warranty. Force majeure and natural catastrophe are not included in this warranty.

ALUMIL S.A.
Tourountzis Kostas
Quality Control Supervisor



Information

T +30 210 6298100, +30 2313 011000
solar@alumil.com, www.alumil.com

Offices and Customer Service Centers

8 Gogousi str., GR 56429 Efkarpia, Thessaloniki | T +30 2313 011000, F +30 2310 692473
67 Tatoiou Av., GR 13677, Aharnes, Athens | T 210 6298100, F 210 8003801

Factory

Kilkis Industrial Area, GR 61100 Kilkis | T +30 23410 79300, F +30 23410 71988
