

WARRANTY CERTIFICATE

MUNIELLOS SYSTEM

SCOPE OF THE WARRANTY:

- Alusín Solar S.L.U. warrants that the Muniellos system structures supplied for the installation of the solar panels are manufactured under strict production control and are free of defects, complying with the applicable quality and safety standards.
- This document warrants the replacement of the structural steel profiles, aluminium profiles and screws which have any deficiency that endangers the structural resistance of the solar photovoltaic installation for which they have been designed and provided that their assembly has been carried out correctly and following the instructions and written recommendations provided by Alusín Solar S.L.U.
- The warranty covers any defects in the structures which affect their normal operation during the warranty period stipulated in Clause 2.

WARRANTY PERIOD:

- The warranty takes effect from the date of the delivery note of the structures and has a period of:
 - Structural warranty: 25 years.
 - Overhead parts corrosion warranty: 25 years.
 - Buried parts corrosion warranty: 15 years.

IMPLEMENTATION CONDITIONS:

- The warranty applied to overhead parts (transoms, purlins etc.) is valid for corrosive environments up to C3 according to the corrosion category table included in the enclosed UNE-EN ISO 12944-2 Standard. For C4 and C5 environments a detailed project study shall be necessary.
- The warranty applied to the buried parts (piles) is subject to soils which meet the following requirements:
 - Fine grain gravimetric content < 50% (soil texture)
 - PH between 5.5 – 8.5
 - Soil resistivity > 5000 $\Omega \times \text{cm}$, measured at a distance < 6 m
 - Low concentration of chloride ions < 150mg/kg
 - Low sulphate concentration < 500 mg/kg
 - Low sulphides concentration < 5 mg/kg
 - No fertiliser.
 - Absence of vertical heterogeneity of the soil exceeding the limits specified in this warranty document.
 - No effect of bacterial activity.
 - No stray currents.
 - No presence of groundwater above the length of the poles.
 - No soil change during the validity of this warranty.

UNE-EN ISO 12944-2	
CORROSIVITY CATEGORY	EJEMPLOS DE AMBIENTES TÍPICOS EN UN CLIMA TEMPLADO
C1 VERY LOW	-
C2 LOW	Atmospheres with low levels of contamination. Rural areas.
C3 MEDIUM	Urban and industrial atmospheres with moderate SO ₂ contamination. Coastal areas with low salinity.
C4 HIGH	Industrial and coastal areas with moderate salinity.
C5-I VERY HIGH INDUSTRIAL	Industrial areas with high humidity and aggressive atmosphere.
C5-M VERY HIGH SEA	Coastal and sea areas with high salinity.

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- The Client may demonstrate that the abovementioned conditions are met throughout the validity of this warranty by means of a soil analysis carried out by an external, accredited laboratory. A non-binding service life of 25 to 30 years can be expected until perforation or rupture due to corrosion in the soil, if the soil meets the aforementioned conditions.

WARRANTY LIMITATIONS:

- This warranty does not apply to:
 - Areas exposed to industrial or natural fumes, acid rainwater or rainwater containing chemicals, radioactive fallout or carbon particles, metals such as iron or copper, ash, cement dust or unexpected abrasion.
 - The solar panels themselves nor other components or accessories other than the structures supplied by Alusín Solar S.L.U.
 - Structural failures due to excessive or insufficient tightening torques.
 - Deficiencies caused by negligence, blows, use, maintenance or improper handling.
 - Accidents, cleaning or dropping abrasive, corrosive or mechanical traction products on the profiles or screws its surface.
 - Structural deterioration due to accumulation of dirt or debris.
 - Aesthetic defects which do not affect structural safety.
 - Wind or snow loads exceeding those specified in the technical data sheet of the system.
 - Prolonged exposure to temperatures exceeding the range -20° to 60°.
 - Damage resulting from natural disasters, acts of third parties, explosions, earth movements or any other cause beyond the control of Alusín Solar S.L.U.
- The Client must comply with the installation and maintenance instructions provided by the Supplier to maintain the validity of the warranty.

CLAIM PROCEDURE:

- In the event that the Client identifies a defect covered by the warranty, the Client must notify Alusín Solar S.L.U. in writing within 7 days from the discovery of the defect.
- The Client must furnish the documentation required by Alusín Solar S.L.U. to execute the warranty and determine the causes of the defect.
- The warranty period commences from the date of the delivery note and shall be revoked if the client has failed to comply with the payment terms and conditions agreed in the invoice.
- Alusín Solar S.L.U., reserves the right to inspect the structures and determine if the defect is covered by the warranty. If so, the supplier shall take the necessary measures to repair or replace the defective structures pursuant to the warranty provisions.

EXCLUSION OF LIABILITY:

- To the maximum extent permitted by law, Alusín Solar S.L.U. shall not be held liable for any indirect, consequential, incidental or special damages derivative from the warranty or use of the structures, including, but not limited to, loss of profits, loss of income, business interruption or property damage.

APPLICABLE LAW AND JURISDICTION:

- This agreement shall be governed by and interpreted pursuant to the laws of Spain.
- Any dispute related to this agreement shall be submitted to the exclusive jurisdiction of the competent courts of Spain.

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