

CERTIFICATE

ALUMINCO SA
320 11 INOFITA VIOTIAS, HELLAS

This is to certify that

The static calculations of the supporting system of photovoltaic panels "ELECTRA" and "FAETHON" of the company ALUMINCO SA, described in the attached Annex I, have been elaborated according to the essential requirements of the following standards and regulations:

- Eurocode 1 (EN 1991): Actions on structures – General actions
- Eurocode 9 (EN 1993): Design of aluminium structures
- Greek Anti-Seismic Regulation (EAK 2003)

Certificate No: **550/11**

Valid until: 28/07/2016

Organization of Certification
TÜV AUSTRIA HELLAS

Athens, 29/07/2011

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ANNEX I to Certificate No. 550/11

TYPE	APPROVAL DATE	ENGINEERS
"ELECTRA"	22/07/2011	EMMANUEL STATHATOS/ G.C.VOSNIAKOS
"FAETHON"		

Remarks:

1. The wind and snow loads have been taken into account in accordance with Eurocode 1 "Actions on structures – General actions".
2. The seismic loads have been taken into account with the Greek Anti-Seismic Regulation (EAK 2003). It is noted that the seismic load has been calculated for ground seismic acceleration $\alpha=0,36g$, which corresponds to Zone III.
3. The check of the members and the links, after the relevant model resolution in the marginal failure situation, is being realized in accordance with the foreseen in Eurocode 9 "Design of aluminium structures".
4. The deviation limits from the members rectilinearity in the marginal operability situation shall be accepted by the client.
5. The correctness -according to EC1- of the loads combination of the study has not been checked. The check and certification of the study do not refer to numerical calculations verification. The project's engineer bears the sole responsibility for the study correctness and the numerical data authenticity.
6. The static calculation is valid for regions in Greece, that according to the Regulations that are each time in force, have similar characteristics to the ones taken into account in the calculation (i.e. wind load, snow load, panel load, region seismicity etc).



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