

Instructions for maintenance Sigma ground mount system

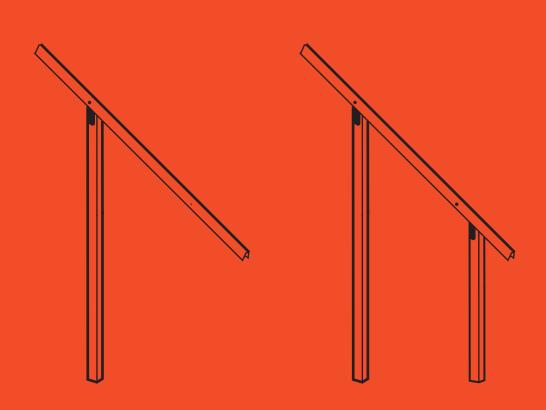


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Instructions for maintenance Sigma ground mount system

Mounting Systems GmbH stipulates a yearly maintenance of the ground mount system Sigma, both to ensure the longevity of the system and to notice and repair eventual damage at an early stage, thereby avoiding subsequent damage. We recommend carrying out the maintenance in the spring when the snow has already thawed. If an increase in the number of damages is detected during the inspection, the maintenance intervals are to be shortened accordingly. Additional maintenance work should be done, if necessary, after severe storms, floods, earthquakes or other natural disasters that could damage the ground mount system and the Sigma ramming posts.

The scope of the below listed maintenance work is limited to the mechanical security. Matters of electrical performance are not included. These are to be checked and serviced according to the module manufacturer's specifications.

Yearly maintenance:

- Visual inspection of the installation with special attention to
 - Damage on any of the components
 - Marked degradation of materials, for example corrosion of metal parts and Sigma posts on an area of
 1cm² (slight surface corrosion or tarnishing of the aluminum parts excluded, as these superficial reactions are normal and harmless)
 - Inspection of the ramming posts on soil erosion, above-average setting and deflection soiling of the system
- Inspection of the installation (spot tests with a scope of 0.1%):
 - Secure hold of all module fixations and bolts (Observe and adhere to the recommended torque specifications of your project overview drawing (POD).
- In case of observed damage or material degradation, appropriate repair or replacement work is to be executed after consultation of Mounting Systems GmbH.
- · Major soiling is to be removed.
- When determining soil erosion and above–average setting or deflection of the posts, appropriate countermeasures are to be taken after consultation with the originator of the ground appraisal.
- When discovering defects during the spot tests, the test batch is to be augmented by the factor 10. If the
 defect rate for the second test batch amounts to more than 1%, tests on the entire installation are to be
 carried out.
- Displaced modules and loose bolts are to be re-fixed in the proper positions or are to be replaced, if necessary.

Date:		
Power plant / Location:		mountii systems
Company:		, , ,
Person(s):	Signature:	
Scope of the test:		
Result of the test (Fotodocumentation if neces	ssary):	

Form for the documentation of maintenance works