

Mounting systems for solar technology



RECOMMENDATION
D-DOME SYSTEM
LIGHTNING PROTECTION RECOMMENDATIONS

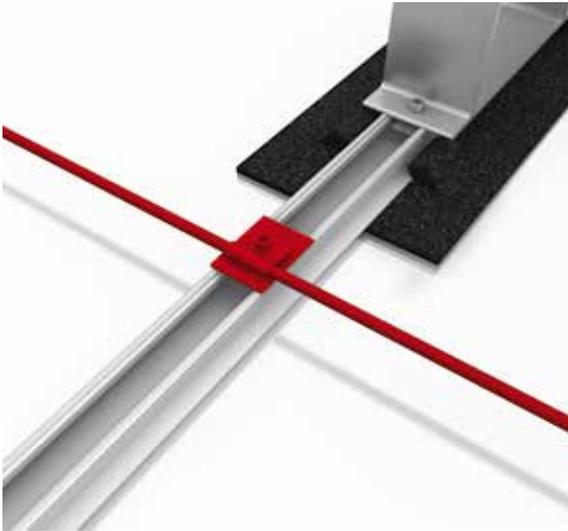
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RECOMMENDATIONS FOR LIGHTENING PROTECTION CONNECTION ELEMENTS FOR THE D-DOME SYSTEM

The D-Dome system's ability to carry lightning currents has been proven according to the testing methods specified in DIN EN 50164-1. These tests were carried out with parts from Dehn & Söhne. During the tests, the components listed below were used in addition to those of the D-Dome system. The items listed in *italics* can be obtained directly from the manufacturer Dehn & Söhne and are to be installed together with the D-Dome system as follows.

	K2 Allen bolt M8x30 DIN EN ISO 4762 Material: stainless steel A2, WS 6 mm	1000086
	M K2 Slot nut with clip Material: stainless steel, PA	1001643
	K2 Washer 8,4x20x1.5 mm Material: stainless steel A2	1000122
	K2 Underlay plate Material: aluminium	1000789
	<i>Lightning Rod</i> Material: stainless steel	101000
	<i>Round Wire</i> Material: stainless steel	840018
	<i>Earthing Clamp</i> Material: stainless steel	540251
	<i>Terminal Clamp</i> Material: stainless steel	372019

INTEGRATION IN EXISTING LIGHTNING PROTECTION SYSTEMS:



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INSTALLING LIGHTNING CURRENT-BEARING CONNECTIONS

Within the module arrays the rails must be connected with the K2 slot nut, underlay plate, earthing clamp and round wire as follows:

Insert the K2 slot nut in the rail, turn clockwise 90 degrees. Then fasten the underlay plate with the earthing clamp and round wire with an Allen bolt and locking washer.

Please note that each module array can be interconnected to form a mesh structure on the roof.

Tightening torque: 16 Nm

Required items: K2 slot nut, underlay plate, earthing clamp, round wire, Allen bolt M8x30 and locking washer



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INSTALLING THE LIGHTNING ROD

Position, quantity and length of the lightning rods can be determined according the tried and tested German 'rolling sphere method'.

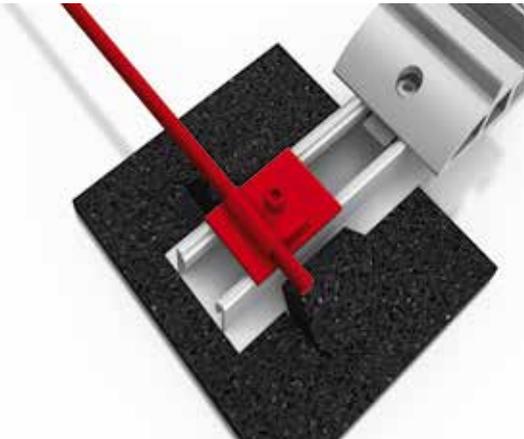
The lightning rods are mounted at the top of the D1000 or D800 Dome component.

After fixing the terminal clamp and lightning rod, turn the rod by 90 degrees and adjust.

Tightening torque: 25 Nm

Required items: Terminal clamp, lightning rod

INTEGRATION IN EXISTING LIGHTNING PROTECTION SYSTEMS:



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LIGHTNING PROTECTION AND EARTHING SYSTEM INSTALLATION

The integration of a PV system into the earthing system of the building has to be done according to the specific norms and standards.

Insert the K2 slot nut in the rail, turn clockwise 90 degrees. Then fasten the underlay plate with the earthing clamp and round wire with an Allen bolt and locking washer.

Tightening Torque: 16 Nm

Required items: K2 slot nut, underlay plate, earthing clamp, round wire, Allen bolt M8x30 and locking washer

K2 Systems GmbH expressly points out that the use of the listed components is only a recommendation. Alternatively, lightning protection components from other manufacturers may also be used. Please follow all instructions given by the module and inverter manufacturers. Effective operation of existing lightning protection systems must not be compromised in any way by a photovoltaic installation. Ensure that the lightning protection concept is approved by a lightning protection planning office or a lightning protection specialist. Please refer to the relevant standards for planning requirements.

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SERVICE-HOTLINE
+49 (0)7159 42059-0
Info@k2-systems.de

Empfehlung D-Dome | GB1 | 0515 | Änderungen vorbehalten
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