



Datasheet **Corrosion resistance**

Results

Both the flat roof and pitched roof solar mounting systems of Van der Valk Solar Systems have been extensively tested for corrosion resistance. The tests indicate that even with the toughest corrosion test (1440 hours), the mounting systems continue functioning and the solar panels remain firmly secured.

Test method

Determination of the resistance to corrosion was done in conformance with ISO 9227-5.2 NSS, Neutral Salt Spray Test (ISO 17025 scope number 4). The test assemblies were subjected to the salt spray test according to 9227 NSS and COT work directive 30.01.27-1.

Interim evaluations were conducted after 240, 480, 720 and 1000 hours of testing. After 1440 hours the individual components were assessed. After the final evaluation, the test assemblies were taken apart to evaluate the individual components.

Technical information

The hours of testing involved can be classified according to the ISO 12944-6 into categories.

- 240 hours C3-M Urban and industrial environments, moderate sulphur dioxide pollution.
- 480 hours C3-H -
- 720 hours C4-H Industrial areas and coastal regions with a moderate salt level.
- 1000 hours - -
- 1440 hours Im2-H Industrial terrains with high humidity and an aggressive atmosphere.
Im3-H Coastal and offshore regions with a high salt level.

Application

When in open terrain and in direct sight of open water with a high salt level a minimum distance of 500m applies from the solar system to the coast. When there are buildings in between the solar system and open water with a high salt level which prevent salty spray coming down to the solar system the minimum distance is 250m.

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