

ATMOSPHERIC CORROSION PERFORMANCE OF GALFAN METAL COATING

Adress: Dala-Profil AB

Tested coating:

<u>Item</u>	<u>Trade name</u>	<u>Coating type</u>	<u>Nominal coating weight</u>
ZA300	Galfan ZA300	Zinc Aluminum	300 g/m ²

Test panels: 0.5mm - Galfan ZA300 - flat 150x100mm - masked back and edges

Statement:

The tested metal coating fulfills the durability class Very high in corrosivity category C5 for carbon steel according to the atmospheric corrosion exposure test.

Test site:

Location: Bohus-Malmön Kvarnvik, Sweden

Distance to sea: <5m

Classification: Marine

Test racks: mounting with insulating fixings

Inclination and orientation: 45°S

Average temperature and relative humidity during 6 years of exposure: 9°C and 82%

Corrosivity category for carbon steel according to ISO 9223: C5

Test and test results:

Test performed by: French Corrosion Institute during 2011-2017

Test type: Atmospheric corrosion exposure of 6 years

Total mass loss: 27 g/m² (one side)

Average mass loss per year: 4.5 g/m² (one side)

Corrosion reference standards:

EN ISO 8565 Metals and alloys. Atmospheric corrosion testing. General requirements

EN ISO 9223 Corrosion of metals and alloys. Corrosivity of atmospheres. Classification, determination and estimation

EN ISO 14713-1 Zinc coatings. Guidelines and recommendations for the protection against corrosion of iron and steel in structures. Part 1: General principles of design and corrosion resistance