

**TEST REPORT**

**Number:** SAC/0595/21      **date:** 11/10/2021  
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**ACCESS S.R.L.**  
VIA PROVINCIALE 56, 56  
23879 VERDERIO INFERIORE LC

Data supplied by the Customer:

**Sample:** No. 2 SHAPED GALVANIZED MESHES ~ 450x450mm and No. 1 REFERENCE PLAIN GALFAN COATED MESH

**Identification:** A - B

**Date of receipt:** 20/09/2021

**NEUTRAL SALT SPRAY CORROSION TEST  
EN ISO 9227:2017**

**OPERATIVE CONDITION (P.C. 182)**

Surface treatment: as received (slightly cleaned with Ethyl Alcohol)  
Nebulization solution: 5% weight NaCl RPE in distilled water  
Time of exposure: 240 hours  
Exposed surface conditions: the samples were placed at 20° from the vertical on an inert support in the test room.

Test time (h)	Temperature (°C)	Solution pH	Pluviometric constant (ml/h)	Density (g/cm <sup>3</sup> )
<i>Initial Condition</i>	34.5	6.5	1.1	1.030
24 ÷ 240	34.5 ÷ 35.5	6.5 ÷ 6.6	1.0 ÷ 1.2	1.029

**Equipment:** Salt spray chamber identified SAC-0191  
pH -meter identified SAC-0206  
Analytical balance identified SAC-0208  
Technical balance identified SAC-0112  
Thermometer identified SAC-0217

**Technician/s:** A. TREVISSON

**ING. MARCO CASARIL**  
**RESPONSABILE DEL LABORATORIO**  
**TECHNICAL MANAGER**

**FIRMATO DIGITALMENTE**  
**DIGITALLY SIGNED**



**Date/s of execution:** 21/09 ÷ 01/10/2021

**At:** OMECO Lab. - Monza

*This document concerns only the sample submitted to the test. The sampling operations were performed by the Customer. The test results refers to the sample as received. The Laboratory is not responsible for the data supplied by the Customer*

*The samples have to be kept, after the issue of the document : 30 days  
Technical recordings are kept: 10 years*

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### TEST RESULT

- a no appreciable changes
- b white oxidation
- c red rust

Exposure Time (hours)	OBSERVATIONS	
	Galvanized (Fig. 1 -2)	GALFAN
24	b. important on most of the exposed surface (up to about half of the exposed surfaces)	b. very slight (mainly at the mesh rods intersection points)
48 ÷ 72	b. slight progressive increase up to about 90% of the exposed surface	b. slight progressive increase up to about half of the exposed surface
96	b. about the whole of the exposed surface c. first appearance (mainly at the mesh rods intersection points) – fig. 3	b. slight increase (up to about 60% of the exposed surface)
144	b. about the whole of the exposed surface c. slight mainly at the mesh rods intersection points	b. very slight increase
168	b. about the whole of the exposed surface c. slight at the mesh rods intersection points, appearance on the mesh road – fig. 4	b. very slight increase (up to about 70% of the exposed surface) – fig. 5
192÷216	Slight increase of previously stated corrosion spots	b. slight progressive increase (up to about 90% of the exposed surface)
240	b. about the whole of the exposed surface c. spots at the mesh rods intersection points and on the mesh road (about 10% of the exposed surfaces) – figg. 6-7-8	b. on about the whole of the exposed surface. Figg. 9-10)



Fig. 1 : Shaped galvanized meshes showing some zinc coating burrs (before test start)



Fig. 2 : Detail of one of the galvanized meshes before test beginning.

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Fig. 3 : first appearance of reddish products below the white oxidation layer after 96 hours of NSS exposure

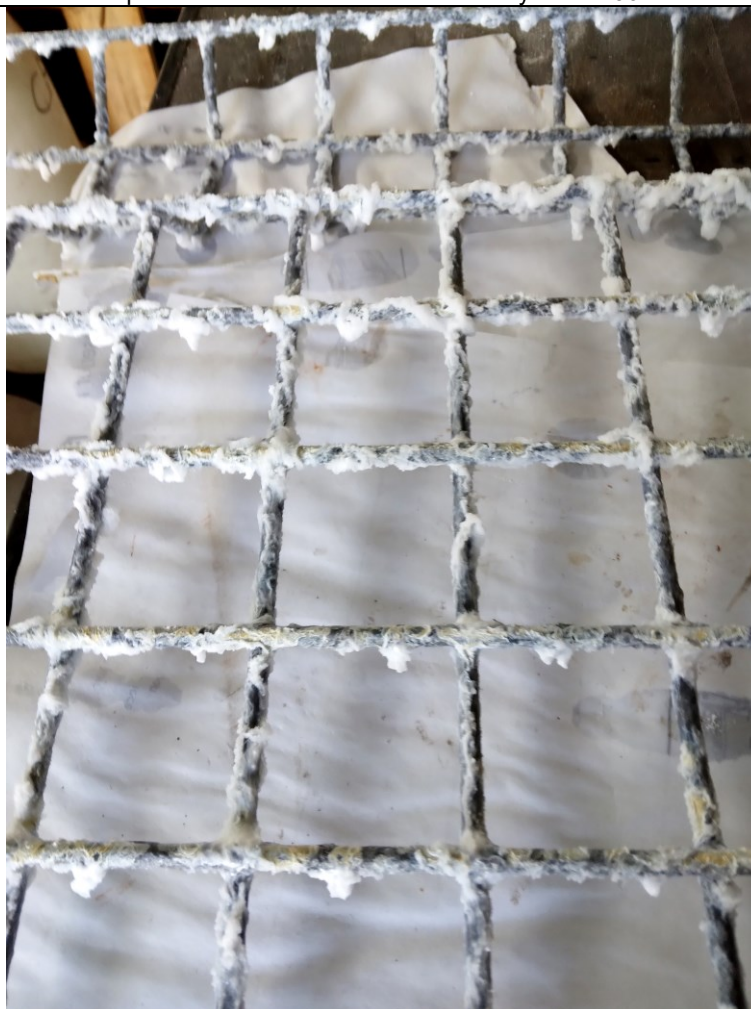


Fig. 4 : red rust, below the white oxidation layer, after 168 hours of NSS exposure (both mesh rod and mesh rods intersections)



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Fig. 5 : white oxidation of the plain Galfan reference sheet after 168 hours of NSS exposure

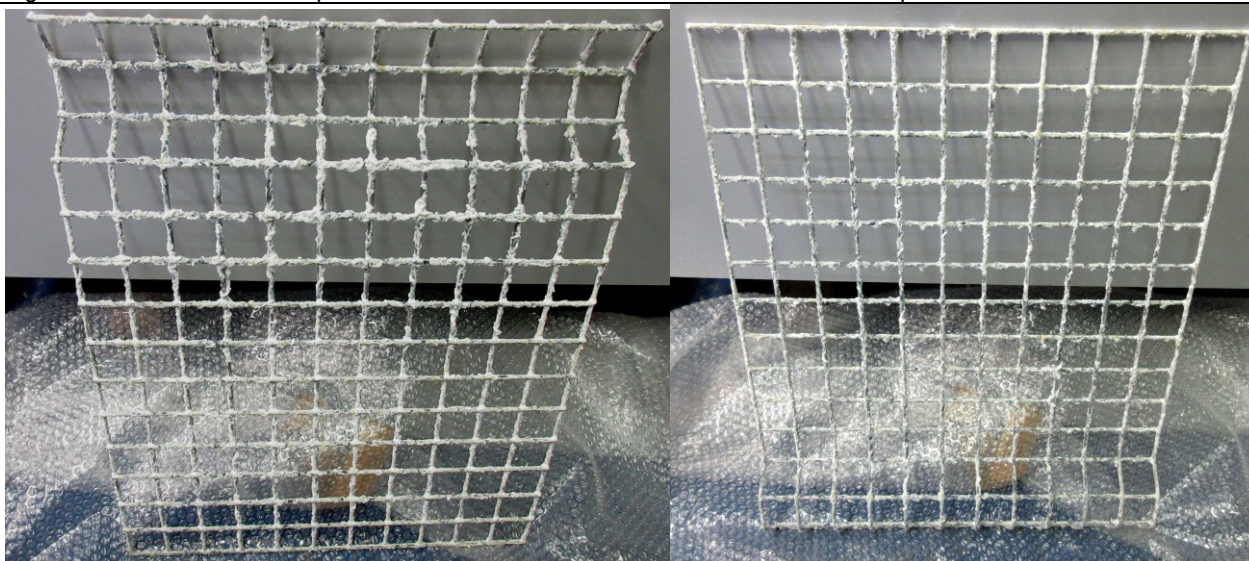


Fig. 6 : Shaped Galvanized Meshes after 240 hours exposure, final rinsing and drying (test end)



Fig. 7 : Shaped Galvanized Meshes after 240 hours exposure, final rinsing and drying (test end)



Fig. 8 : Shaped Galvanized Meshes after 240 hours exposure, final rinsing and drying (test end)



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Fig. 9 : plain Galfan reference mesh after 240 hours exposure, final rinsing and drying (test end)



Fig. 10 : plain Galfan reference mesh – detail after 240 hours exposure, final rinsing and drying (test end)

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