

Corrosion resistance. Acetic salt chamber test

Objective.

To determine in an accelerated manner the corrosion resistance of continuously applied finishes of Asturiana de Laminados using an acetic salt chamber test, carried out according to EN 13523-8.

Duration.

The material was examined after 500 hours and after 1000 hours.

Assessment of results.

The results are assessed according to the following table.

Classification	Value	Edge blistering	Surface blistering
Excellent	9 – 10	0mm	0% blistering
Very good	7 – 8	< 1,5mm	< 1% blistering
Good	5 – 6	< 3mm	< 5% blistering
Weak	3 – 4	3 – 4mm	< 10% blistering
Bad	1 – 2	> 4mm	<10% blistering

Samples that were tested.

No 1 – unperforated sample with cross scored on surface

No 2 – Face A of 1st perforated sample with cross scored on surface

No 3 – Face A of 2nd perforated sample with cross scored on surface

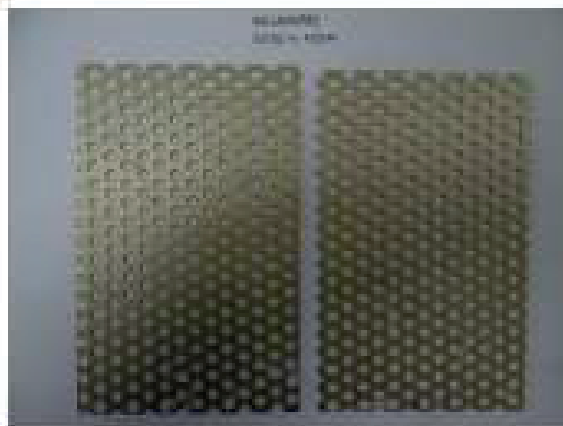
No 4 – Face B of 1st perforated sample with cross scored on surface

No 4 – Face B Of 2nd perforated sample with cross scored on surface

Results after 500h.

Rainbow Gold	500h acetic salt chamber test - classification			Classification
	Blistering at score and edge	Blistering around perforation	Surface blistering	
Sample 1	0mm		0%	Excellent
Sample 2	0mm (at edge)	0mm	0%	Excellent
Sample 3	0mm	0mm	0%	Excellent
Sample 4	0mm (at edge)	0mm	0%	Excellent
Sample 5	0mm	0mm	0%	Excellent

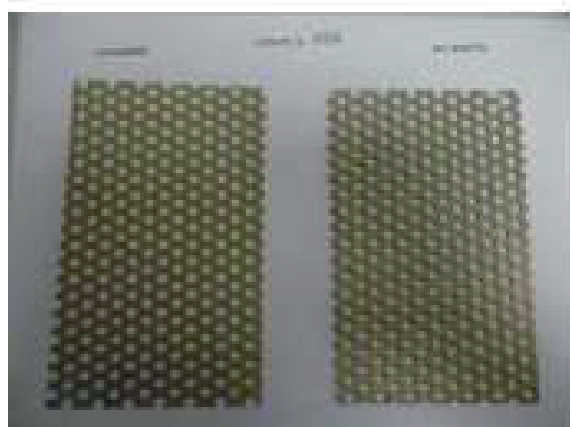
Photographs after 500 hours.



Results after 1000hours

Rainbow Gold	1000h acetic salt chamber test - classification			Classification
	Blistering at score and edge	Blistering around perforation	Surface blistering	
Sample 1	<1,5mm	-	0%	Very good
Sample 2	0mm (at edge)	< 1mm	0%	Very good
Sample 3	0mm	< 1mm	0%	Very good
Sample 4	0mm (at edge)	< 1mm	0%	Very good
Sample 5	0mm	< 1mm	0%	Very good

Photos after 1000h.





Global assessment.

The product tested in the acetic salt chamber test has reached the classification "Very good" after 1000 hours.

The blistering that appears at 1000 hours around the perforated holes is less than 1mm.

Interpretation of results.

According to EN ISO 4628 – 8, an edge peel of less than 2mm corresponds to an RCS category finish.

This is the highest category specified under ISO 12944. Therefore, the Rainbow samples tested achieved RCS corrosion resistance category, the highest classified under ISO norm.

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