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EXTERNAL SHELL CERTIFICATION

Quality manufacturing is a system, not just a slogan.







## **EXTERNAL SHELL CERTIFICATION**

Solar thermal boilers are always exposed to all weather and atmospheric conditions. This means the outside shell of the tank will have to respond to conditions, worsened by various chemical elements in the atmosphere, that are prevalent in urban environments. It will also have to be able to bear conditions of humidity including salt or winds that may include sand, conditions that occur near seas.

All of the above make it necessary for the shell of the solar product to respond to such conditions for multiple years, to provide an extended life expectancy .At our company we have taken this into very serious consideration and we have ensured that the shell we use features the ability to respond to all the conditions mentioned above.

Prepainted metal sheet for water tank shell



## Standard organic coated

The Nature collection

Properties	<ul> <li>Good corrosion resistance</li> <li>Good formability</li> <li>Surface treatment and paint: free of hexavalent chromium and heavy metals</li> </ul>	
Applications	Basic coating for outdoor applications (cladding, roofing and accessories )	
Description	Thickness (1)	25 microns
	Composition	Front: 5 microns primer + 20 microns top coat Back: 7 microns backing coat Double-side finishavailable
	Gloss (Gardner 60°) (1)	30 GU Other gloss levels on request
	Colours	Colour palette Other colours on request
	Appearance	Smooth
	Temporary protection (optional)	Not Available
Performance	Adhesionof the coating (T-bend)	≤ 2 T
	Resistance to cracking on bending (T-bend)	≤3 T
	Impact resistance	18 J
	Surface "pencil" hardness	HBto H
	Clemen scratch resistance	≥ 2 kg
	Corrosion resistance:  Salt spray test Corrosion resistance category	360 hours RC3
	Condensation resistance (QCT)	1000 hours
	U\resistance: • QU\(UVA+ H <sub>2</sub> O) test (2000 hours) • UVresistance category	ΔE ≤ 5; GF ≥ 30% RUV2
	Fire behaviour classification (EN 13501-1)	A1
	Resistance to acids and bases	Good
	Resistance to solvents:  Aliphatcs and alcohols  ketones  Aromatics	Very good Low Good to very good
	Resistance to mineral oils	Verygood

## Remarks

Performance characteristics

These performance characteristics refer specificallyto metalliccoating Z225.

If any product (film, oilfoam, glue, paint etc) is to be applied after coildelivery, compatibility with the coating needs to be checked first.

colour category

≤ 10 years, depending on the external environment

 $\leq$  5 years, depending on the geographic location and the paint

≤ 5 years, depending on the external environment

(1) Nominalvalue, tolerance according to EN10169

Aesthetic appearance (ΔE ≤ 5; Gloss retention ≥ 30%)

· Non-perforation of the sheet metal

· Non-delamination of the paint