

Thermal Shock Test
 FO-QA-49
 Issue #1 Date: 17/7/2019
 Rev #0

**Thermal-Shock Test
 According to: Shower Trays EN 14527
 Bathtubs EN 14516**

Model	ILOVA Back to Wall	Production Date	4-38-19
Dimension	180x80 cm	Weight	47.5 Kg
Reference	6085	Color	White/Grey

Start Date	26/9/2019	End Date	30/9/2019
-------------------	-----------	-----------------	-----------

Visual Examination	Result	Specification
Test A 1 cycle (90C/12C)	No Deformation	No Deformation

Thermal Shock	Result	Specification
Test B 1st Cycle (75C/12C)	No Deformation	No Deformation

Thermal Shock	Result	Specification
Test B 1st 10 Cycles (75C/12C)	No Deformation	No Deformation

Visual Examination	Result	Specification
Test B 100 Cycles (75C/12C)	No Deformation	No Deformation

Water retention test	Result	Specification
After finishing test	No Water Retention	No Water retention

Remarks,

Testing Engineer/


Testing Inspection
FO-QA-50
Issue #1 Date #12/8/2018
Rev #0

Test Report
Chemical-Stain Resistance Test
According to EN 14516

Model : ILOVA Back to Wall
Date : 24/9/2019
Material : Acrylic
Color : White/Grey
Dimension : 180X180 cm

Test Conditions :

1- Ambient Temperature Of $23 \pm 5 \text{ C}^\circ$

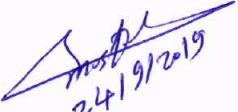
Procedure :

- Select an area to be tested.
- Use each test area only once for each application. Clean the test area thoroughly with hot soapy water, rinse and wipe dry with a clean dry cloth.
- At each of the test areas deposit a drop of the test solution. Cover the drop with a watch glass concave face downwards. The drop size shall be such that it is completely covered by the watch glass. Leave for (120 ± 5) min with the test area protected from sunlight.
- Thoroughly rinse the test areas with de-ionised water and visually check for any adverse change in appearance. If any deterioration is noticed, dip the foam disc in de-ionised water and place it on the surface that was tested. Rotate the cleaning device at a speed of 60 min⁻¹. Clean for 30 revolutions.
- Rinse with de-ionised water, dry and visually re-examine the test areas. If any deterioration persists, repeat the cleaning process using the abrasive comprising 12 h-alumina suspended in water and reexamine.

Agents	Time (min)	Results	Notice
Acetic acid (CH ₃ COOH), 10 % V/V	(120 ± 5)	Pass	
Sodium hydroxide (NaOH), 5 % m/m		Pass	
Ethanol (C ₂ H ₅ OH), 70 % V/V		Pass	
Sodium hypochlorite (NaOCl), 5 % active chlorine (Cl ₂) a		Pass	
Methylene blue, 1 % m/m		Pass	

Tested by/
Alaa Ezzat

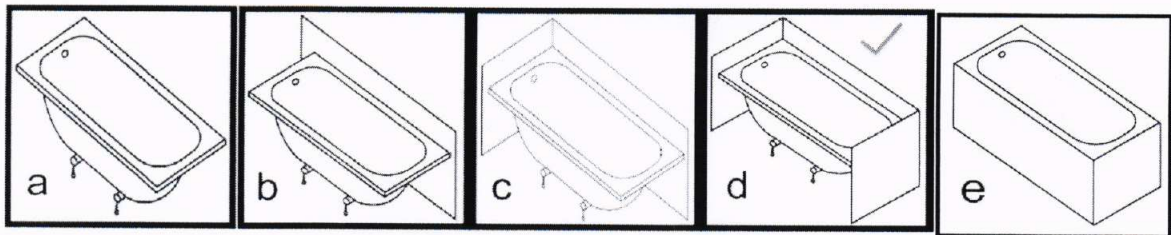
Testing Manager/
Eng. Mostafa Khalifa



24/9/2019


Testing Inspection
 FO-QA-53
 Issue #1 Date #12/8/2018
 Rev #0

Static Load Test for Bathtub (EN 14516)

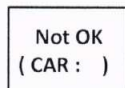
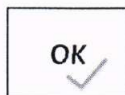
Model :	I Lova BTW	Size :	180*80 cm
Code :	6085	Color :	White/grey
Prod.Date :	4 38 19	Weight :	47.5 kg
Date :	24/09/2019	Client :	Balneo



	Position 1	for 10 min
	Visual inspection	No Deformation
	Load in Bottom Position 1 Visually there shall be no cracks or deformations	

	Position 2	for 10 min
	Visual inspection	No Deformation
	Load in Bottom Position 2 Visually there shall be no cracks or deformations	

Note: The load weight at position one equal the water capacity weight + Human weight
 The load weight at position two equal the water capacity weight only



Testing Manager/
 Eng. Mostafa Khalifa

(Handwritten Signature)
 24/9/2019

Cleanability Tests for Bathtubs According to (EN 14516)

Model	ILOVA BTW	Color	White / Grey
Size	180x80 cm	Weight	47.5 kg
Code	6085	Production Date	4 38 19
Date	24/9/2019	Client :	Balneo

	Result	Specification
Appearance of surface	Pass	the surfaces intended to come into contact with water shall be visibly smooth, non-absorbent and free from inaccessible corners that would impair the cleanability

	Result	Specification
Water Drainage	Pass	All water shall empty from the bathtub unless prevented by surface tension

Remarks	Signature :	