

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	7-37-19
Dimension	160x75 cm	Weight	41 Kg
Reference	6404	Color	White/Grey

Start Date	19/9/2019	End Date	23/9/2019
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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/

(Handwritten signature and date)
 23/9/19

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 : 17/9//2019
Material : Acrylic
Color : White/Grey
Dimension : 160X75 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.

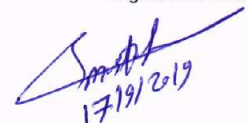
Agents	Time (min)	Results	Notice
Acetic acid (CH ₃ COOH), 10 % V/V	(120 ± 5)	Pass	
Sodium hydroxide (NaOH), 5 % m/m		Pass	
Ethanol (C ₂ H ₅ OH), 70 % V/V		Pass	
Sodium hypochlorite (NaOCl), 5 % active chlorine (Cl ₂) a		Pass	
Methylene blue, 1 % m/m		Pass	

Tested by/

Alaa Ezzat

Testing Manager/

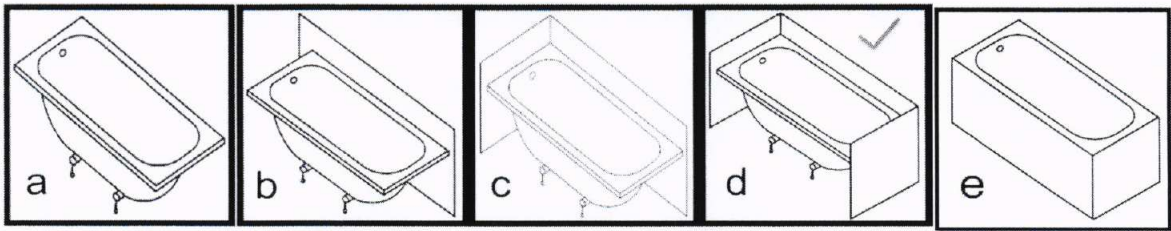
Eng. Mostafa Khalifa



17/9/2019


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 :	160*75 cm
Code :	6404	Color :	White/grey
Prod.Date :	7 37 19	Weight :	41 kg
Date :	18/09/2019	Client :	Balneo

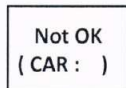
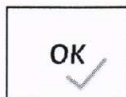


	Position 1	for 10 min
	Visual inspection	No Deformation
	<u>Load in Bottom Position 1</u> Visually there shall be no cracks or deformations	

	Position 2	for 10 min
	Visual inspection	No Deformation
	<u>Load in Bottom Position 2</u> 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

Mostafa Khalifa
 18/9/2019

Cleanability Tests for Bathtubs According to (EN 14516)

Model	ILOVA BTW	Color	White / Grey
Size	160x75 cm	Weight	41 kg
Code	6404	Production Date	7 37 19
Date	18/9/2019	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 : 