



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

TEST REPORT

PETITIONER: VIDREPUR, S.A.
ADDRESS: C/ Comercio, nº 4
CITY: ALMAZORA (Castellón)
TEST REPORT Nº: 51.831
PAGE Nº: 1 / 6
DATE OF TEST REPORT: 31/07/2012
DATE OF RECEIPT OF THE SAMPLE: 17/07/2012
DATE OF TESTS PERFORMANCE: 17 - 31/07/2012
NUMBER OF TILES SUPPLIED: 300 units.

DESCRIPTION OF THE SAMPLE:

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

TEST PERFORMED:

- UNE-EN-ISO 10545-3 : DETERMINATION OF WATER ABSORPTION.
- UNE-EN-ISO 10545-11 : DETERMINATION OF CRAZING RESISTANCE. GLAZED TILES.
- UNE-EN-ISO 10545-13 : DETERMINATION OF CHEMICAL RESISTANCE.
- UNE-EN-ISO 10545-14 : DETERMINATION OF RESISTANCE TO STAINS.
- UNE 67101 and 1M : DETERMINATION OF SCRATCH HARDNESS ACCORDING TO MOHS.

José A. Estibález Catalán
MANAGER

The samples and his description have been chosen by the petitioner.
The reported results relate only to the samples tested.
This report must not be reproduced in part without the written permission of Laboratory.



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

Test report n°: 51.831
Page n°: 2 / 6
Petitioner: VIDREPUR
Date: 31/07/2012

DETERMINATION OF WATER ABSORPTION

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 3:1997**)

* Water absorption for each tile (**Boiling method "E_b"**):

Tile	Water absorption (E_b) (%)
1	0.0
2	0.1
3	0.1
4	0.1
5	0.1

* Average water absorption of the sample: **0.1 %**

* Measurement uncertainty: **U = ± 0.1 % (k=2)**

* Average value uncertainty: **U = ± 0.1 % (k=2)**



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

Test report nº: 51.831
Page nº : 3 / 6
Petitioner: VIDREPUR
Date: 31/07/2012

DETERMINATION OF CRAZING RESISTANCE *** GLAZED TILES ***

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 11:1997**)

* Number of tiles tested: **Twenty-five**

* Number of tiles showing crazing: **Not - one.**

* Description of crazing: The tiles tested are free from crazes on the glazed surface.



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

Test report n°: 51.831

Page n° : 4 / 6

Petitioner: VIDREPUR

Date: 31/07/2012

DETERMINATION OF CHEMICAL RESISTANCE

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 13:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Test solutions</u>	<u>Classification</u>	<u>Visual Changes</u>
* <u>Household chemicals</u> - Ammonium Chloride	GA	- No visible effects.
* <u>Swimming pool salts</u> - Sodium Hypochlorite	GA	- No visible effects.
* <u>Acids and Alkalis (Low concentrations)</u> - Hydrochloric Acid	GLA	- No visible effects.
- Citric Acid	GLA	- No visible effects.
- Potassium Hydroxide	GLA	- No visible effects.
* <u>Acids and Alkalis (High concentrations)</u> - Hydrochloric Acid	GHA	- No visible effects.
- Lactic Acid	GHA	- No visible effects.
- Potassium Hydroxide	GHA	- No visible effects.



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

Test report n°: 51.831

Page n° : 5 / 6

Petitioner: VIDREPUR

Date: 31/07/2012

DETERMINATION OF RESISTANCE TO STAINS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 14:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Staining Agents</u>	<u>Cleaning Procedure</u>	<u>Class</u>	<u>Observations</u>
* <u>Stains having tracing action (Pastes).</u> - Green staining agent in light oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having chemical / oxidizing action</u> - Iodine alcohol solution	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having filming action</u> - Olive oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.

* Observations: The chromium oxide used as green staining agent have a grain size less than 80 microns, being the 50 % (m/m) of theirs down on 3 microns.



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

N.I.F: Q - 4670001 - I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

Test report nº: 51.831

Page nº : 6 / 6

Petitioner: VIDREPUR

Date: 31/07/2012

DETERMINATION OF SCRATCH HARDNESS ACCORDING TO MOHS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm. Ref.:

-- **Serie "LUX"** --

Code Lab.: 264-12

RESULTS.- (Test performed after Standard **UNE 67-101:1985 and UNE 67-101/1M:1992**) (*)

<u>Tile</u>	<u>Mohs Hardness</u>
1	4
2	4
3	4

(*) Note: This standards are repealed since 18.03.2009.