

SEDE

Via Martelli, 26 - 40138 **Bologna**
Tel. (051) 534015 - Fax. (051) 530085

CERTI.CER.

LABORATORIO DI ZONA

Via Valle d'Aosta 1- 41049 **Sassuolo**
Tel. e Fax. (0536) 802154

Part. IVA 0094778-0375

Bologna, 08/05/09

Test report Nr° 4967/09

(translation of the test report Nr. 4966/09 of 08/05/09)

Requested by:	VITREX S.r.L. – Via Moncenisio, 5 – 41049 SASSUOLO (MO)
On (date):	27/03/09
For the sample marked:	Glass mosaic 1,5 x 1,5 x 0,4 cm marked “Serie R.A.L.”.

DIN 51094 - Resistance of the colours to the light

After the test the glazed surface did not show any colour variation.

Prof. Eng.  Giorgio Timellini
Director



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D.P.R. 10-4-1978 n. 806
(G.U. 20-12-1978 n. 353)

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Part. IVA 0094778-0375

Bologna, 08/05/09

TEST REPORT N° 4962/09

(translation of test report Nr. 4961/09 of 08/05/09)

Requested by: VITREX S.r.L. – Via Moncenisio, 5 – 41049 SASSUOLO (MO)

On (date): 27/03/09

For the sample marked: Glass mosaic 1,5 x 1,5 x 0,4 cm marked "Serie R.A.L.".

EN ISO 10545-13 § 8 - Determination of chemical resistance - Glazed tiles

Test solutions	Class of resistance				
	Test specimen 1	Test specimen 2	Test specimen 3	Test specimen 4	Test specimen 5
Household Chemicals:					
Ammonium Chloride 100g/l	GA(V)	GA(V)	GA(V)	GA(V)	GA(V)
Swimming pool salts:					
Sodium hypochlorite 20mg/l	GA(V)	GA(V)	GA(V)	GA(V)	GA(V)
Acids:					
Hydrochloric acid 3% V/V	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Citric acid 100g/l	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Alkali:					
Potassium Hydroxide 30g/l	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Acids:					
Hydrochloric acid 18%V/V	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)
Lactic acid 5% V/V	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)
Alkali:					
Potassium Hydroxide 100g/l	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)

CLASSIFICATION (Pencil test and/or reflexion test are not applicable:)

U: Unglazed tiles

G: Glazed tiles

L: Low concentration chemicals

H: High concentration chemicals

Class A(V): no visible effect

Class B(V): definitive change in appearance

Class C(V): partial or complete loss of the surface

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Part. IVA 0094778-0375

Bologna, 08/05/09

TEST REPORT N° 4957/09

(translation of test report Nr. 4956/09 of 08/05/09)

Requested by:	VITREX S.r.L. - Via Moncenisio, 5 - 41049 SASSUOLO (MO)
On (date):	27/03/09
For the sample marked:	Glass mosaic 1,5 x 1,5 x 0,4 cm marked "Serie R.A.L."

EN ISO 10545-12 - Determination of frost resistance

Number of tiles in the test sample:

10

Water content before the freeze-thaw test (%):

0,38

Water content after the freeze-thaw test (%):

0,39

Description of defects before the test:

Damages on the glaze or proper surface and the edges of tiles after the freeze-thaw test:

Number of damaged tiles after 100 cycles from -5°C to +5°C:

0

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Part. IVA 0094778-0375

TEST LABORATORY

Bologna, 08/05/09

TEST REPORT N° 4947/09

(translation of test report Nr. 4418/09 of 08/05/09)

Requested by:	VITREX S.r.L. – Via Moncenisio, 5 – 41049 SASSUOLO (MO)
On (date):	27/03/09
For the sample marked:	Glass mosaic 1,5 x 1,5 x 0,4 cm marked “Serie R.A.L.”.

EN ISO 10545-3 Determination of water absorption by boiling method

Water absorption (%) of each individual tile:

Test specimens	1	2	3	4	5	6	7	8	9	10
E(b)	0,42	0,33	0,39	0,38	0,35	0,41	0,35	0,38	0,37	0,37

E (b) absorption (%):

0,38

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Bologna, 08/05/09

TEST REPORT N° 4952/09

(translation of test report Nr. 4951/09 of 08/05/09)

Requested by:	VITREX S.r.L. – Via Moncenisio, 5 – 41049 SASSUOLO (MO)
On (date):	27/03/09
For the sample marked:	Glass mosaic 1,5 x 1,5 x 0,4 cm marked "Serie R.A.L."

EN ISO 10545-9 - Determination of resistance to thermal shocks

Water absorption (% according to ISO 10545-3): 0,38

Type of test performed: testing with immersion ☒
 testing without immersion ☐

Number of test specimens with visible defects: 3

Description of the visible defect:

Crazings and breaks.

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