



**MODENA CENTRO PROVE s.r.l.**

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C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

MECCANICA

ECOLOGIA

CERAMICA

ALIMENTARE



Certificato n°  
50 100 4582



Diploma  
IWR/IT n°  
30438



Socio



Membro



Socio

Unione Industriali  
Modena



Iscritto

Modena, 17/12/15

To **FLORIM CERAMICHE SPA**  
VIA CANALETTO 24  
41042 FIORANO MODENESE MO

Attn. **SIG. TURRINI**

**MATERIAL and/or SAMPLE to be tested** : PORCELAIN TILES;

**Denomination of the Sample** : Serie I Travertini di Rex Articolo GREY MATTE 80X80  
sp.6mm GL MARCHIO REX;

Client Reference: Your delivery

date: 4/12/2015

Here attached, you will receive the Test Report of Serial No. **20158300/n**, which shows the results of tests required.

**MODENA CENTRO PROVE**

MODENA CENTRO PROVE  
  
Director  
Sant'Unione dr. Giuseppe



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LAB N°1018  
Membro degli Accordi di Mutuo  
Riconoscimento EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual  
Recognition Agreements

## TEST REPORT: 20158300/1

Modena, 17/12/15

<b>CUSTOMER</b>	<b>FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO</b>
<b>MATERIAL and/o SAMPLE to be tested</b>	PORCELAIN TILES;
<b>Denomination</b>	Serie I Travertini di Rex Articolo GREY MATTE 80X80 sp.6mm GL MARCHIO REX;
<b>Date of sample reception</b>	04/12/2015;
<b>Kind of test executed</b>	Determination of Flexion Resistance
<b>Referring standards</b>	UNI EN ISO 10545-4:2014/EC 1-2015
<b>Shifting from standards</b>	None
<b>Equipment</b>	Crometro Flex 1000-LX cod. MCP C93 - Calibro Mitutoyo cod. MCP C95 - Bindella metrica MCP C56
<b>Calibration</b>	C93: Certificato n° 1312371FSE del 25/11/2013 – C95: Certificato n° 1302275DSI del 08/03/2013 - C56: Certificato n° C11310C8F0 del 16/07/2013
<b>Subcontracted phases</b>	None
<b>Sampling made by</b>	Customer

*The test results showing in this Report are only referred to the sample taken by our staff or supplied by the Customer. He commits himself to reproduce integrally this document. Partial reproduction is forbidden.  
The times of retain of the samples was indicated in the offer related to the test report.*

**Examiner**  
  
P.I. Fili Thomas

MODENA CENTRO PROVE  
  
Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE  
  
Director  
Sant'Unione dr. Giuseppe



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**DETERMINATION OF FLEXION RESISTANCE**

Beginning date : 12/10/2015

Analysis ending date : 12/11/2015

**SAMPLE** : Ceramic tiles, marked « **Serie I Travertini di Rex Articolo GREY MATTE 80X80 sp.6mm GL MARCHIO REX** »

The test has been performed applying a load on three points, with the central load to contact with the centre line of the does superior of the tile.

**EXPERIMENTAL CONDITIONS**

- **d** (switches diameter) mm : 20
- **t** (depth of switches covering) mm : 5
- **l** (distance between bearing surface and the lip of tile) mm : 10
- **L** (distance between bearing surface) mm : 780

**RESULTS**

Parametro	Unit of measure	1	2	3	4	5	6	7
Tile n°								
Breaking load <b>F</b>	N	1629	1562	1581	1600	1633	1611	1564
Breaking strength <b>S</b>	N	1588	1523	1541	1560	1592	1571	1384
Modulus of rupture <b>R</b>	N/mm <sup>2</sup>	63.5	59.9	60.1	60.9	60.2	59.3	59.5

Breaking load **F** average (N) = 1597  
 Breaking strength **S** average (N) = 1537  
 Modulus of rupture **R** average (N/mm<sup>2</sup>) = 60.3

**REQUIREMENTS**

(Standard EN 14411:2012 Annex G)

- Modulus of rupture **R** average N/mm<sup>2</sup> : ≥ 35, no applicable with breaking strength ≥ 3000 N.
- Single value **R** N/mm<sup>2</sup> : ≥ 32

<b>Examiner</b>  P.I. Fili Thomas	MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe
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## TEST REPORT: 20158300/2

Modena, 17/12/15

<b>CUSTOMER</b>	<b>FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO</b>
<b>MATERIAL and/o SAMPLE to be tested</b>	PORCELAIN TILES;
<b>Denomination</b>	Serie I Travertini di Rex Articolo GREY MATTE 80X80 sp.6mm GL MARCHIO REX;
<b>Date of sample reception</b>	04/12/2015;
<b>Kind of test executed</b>	Determination of Thermal Shock Resistance
<b>Referring standards</b>	UNI EN ISO 10545-9:2014
<b>Shifting from standards</b>	None
<b>Equipment</b>	Cold Room cod. MCP C107 - Forced ventilation stove cod. MCP C108
<b>Calibration</b>	C43: LAT 245-SE-14 del 07/07/2014 - C108: LAT 244-SE-14 del 07/07/2014
<b>Subcontracted phases</b>	None
<b>Sampling made by</b>	Customer

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## DETERMINATION OF THERMAL SHOCK RESISTANCE

Beginning date : 12/10/2015

Analysis ending date : 12/10/2015

**SAMPLE:** Ceramic tiles, marked « **Serie I Travertini di Rex Articolo GREY MATTE 80X80 sp.6mm GL MARCHIO REX** »

The test was performed placing test samples at low temperature (15°C) for 15 minutes, then at high temperature (145°C) for 20 minutes; this method happened 10 times.

### RESULTS

- Number of tiles tested : 5
- Test method used : For Immersion
- Water absorption average % : < 0.5
- Number of tiles damaged : 0

### REQUIREMENTS

( Norm EN 14411:2012 Annex G )

No ceramic tiles must present visible defects.

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