



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, 29/02/16

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 : 748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET
: TONO A48 CAL 5;

Client Reference: Your delivery VS CONSEGNA

date: 11/02/2016

Here attached, you will receive the Test Report of Serial No. **20161142/n**, which shows the results of tests required.

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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: 20161142/1

Modena, 29/02/16

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	PORCELAIN TILES;
Denomination	748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET TONO A48 CAL 5;
Date of sample reception	11/02/2016;
Kind of test executed	Determination of modulus of rupture and breaking strenght
Referring standards	UNI EN ISO 10545-4:2014/EC 1-2015
Shifting from standards	None
Equipment	Flexural test machine cod. MCP C93 - Gauge cod. MCP C95 - Metric band- mill cod. MCP C56
Calibration	C93: LAT 1600029FSE of 07/01/2016 - C95: LAT 1506358DSI of 26/05/2015 - C56: LAT C115163A0 of 18/09/2015
Subcontracted phases	None
Sampling made by	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



DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 02/16/2016

Analysis ending date : 02/17/2016

SAMPLE : Ceramic tiles marked «748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET TONO A48 CAL 5 »

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.

The test has been performed on entire samples.

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 F	N	1758	1714	1735	1662	1437	1451	1758
Breaking strength S	N	3428	3342	3383	3241	2802	2829	3428
Modulus of rupture R	N/mm ²	57,0	55,6	56,2	55,0	47,6	48,0	57,0

Breaking load **F** average (N) = 1645

Breaking strength **S** average (N) = 3208

Modulus of rupture **R** average (N/mm²) = 53,8

REQUIREMENTS

(Standard EN 14411:2012 Annex G)

- Modulus of rupture **R** average N/mm² : ≥ 35 , no applicable with breaking strength ≥ 3000 N.
- Single value **R** N/mm² : ≥ 32

Examiner

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