



MODENA CENTRO PROVE s.r.l.
Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 r.a. - Fax 059380281 - e-mail : info@modenacentroprove.it -
www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



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

TEST REPORT: 20165399/1

Modena, 28/07/16

CUSTOMER

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

MATERIAL and/o SAMPLE to be tested

CERAMIC TILES;

Denomination

SERIE I TRAVERTINI DI REX; ARTICOLO TRAVERTINO BEIGE
STRUTTURATO; FORMATO 40X80 SUPERFICIE STRUTTURATO;
MARCHIO REX;

Date of sample reception

07/07/2016;

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

No one

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

no one

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. Nassetti Luca

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 : 07/21/2016

Analysis ending date : 07/22/2016

SAMPLE : Ceramic tiles, marked « **SERIE I TRAVERTINI DI REX; ARTICOLO TRAVERTINO BEIGE STRUTTURATO; FORMATO 40X80 SUPERFICIE STRUTTURATO; 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.

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	1497	1516	1526	1408	1516	1488	1503
Breaking strength S	N	2919	2956	2976	2746	2956	2902	2931
Modulus of rupture R	N/mm ²	49,6	52,4	51,6	45,6	52,4	49,3	49,8

Breaking load **F** average (N) = 1493

Breaking strength **S** average (N) = 2912

Modulus of rupture **R** average (N/mm²) = 50,1

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

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