

**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

MECCANICA

ECOLOGIA

CERAMICA

ALIMENTARE



Certificato n°
50 100 4582



Diploma
IWR/IT n°
30438



Socio



Membro



Socio

Unione Industriali
Modena

Iscritto

Modena, 28/09/17

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

Attn. **Turrini**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
porcelain tiles	serie MATERIES DI REX marchio REX articolo MATIÈRES DE REX GRIS STR 20MM 20.2x30.4	Ns. ritiro	18/09/2017

Here attached, you will receive the Test Report of Serial No. **20176457/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: 20176457/1

Modena, 28/09/17

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	porcelain tiles;
Denomination	serie MATERIES DI REX marchio REX articolo MATIÈRES DE REX GRIS STR 20MM 20.2x30.4;
Date of sample reception	15/09/2017;
Date of sample acceptance	15/09/2017;
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 C145 - Metric band- mill cod. MCP C56
Calibration	C93: LAT 1600029FSE of 07/01/2016 – C145: LAT N° 110 17-73-002 du 25/01/2017- 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. 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 : 15/09/2017

Analysis ending date : 18/09/2017

SAMPLE : Ceramic tiles marked « **serie MATERIES DI REX marchio REX articolo MATIÈRES DE REX GRIS STR 20MM 20.2x30.4** »

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.

RESULTS

Width of the test specimen **b** 202 mm
 Dimension of tile **L** 304 mm
 Diameter of rod **d** 20 mm
 Thickness of rubber **t** 5 mm
 Overlap of tile beyond the edge supports **l₁** 10 mm

PARAMETER	Unit of measure							
Tile n°		1	2	3	4	5	6	7
Span between the support rods l₂	mm	284	284	284	284	284	284	284
Width of the test specimen b	mm	202	202	202	202	202	202	202
Minimum thickness of the specimen h	mm	19,0	19,1	19,5	19,4	19,2	19,6	19,3
Breaking load F	N	9464	9515	9281	9989	8486	8165	9199
Breaking strength S	N	13306	13378	13049	14044	11931	11480	12933
Modulus of rupture R	N/mm ²	55,3	55,0	51,5	56,0	48,5	44,8	52,1

Breaking load **F** average value (N) = 9157
 Breaking strength **S** average value (N) = 12874
 Modulus of rupture **R** average value (N/mm²) = 51,9

REQUIREMENTS UNI EN 14411:2016

GROUP: Bla
 UNI EN 14411:2016 Annex: g

	THICKNESS	REQUIREMENT
BREAKING STRENGTH	Thickness ≥ 7,5 mm	> 1300 N
	Thickness < 7,5 mm	> 700 N

		REQUIREMENT
MODULUS OF RUPTURE*	Average value	> 35 N/mm ²
	Individual value	> 32 N/mm ²

(*) Not applicable to ceramic tiles with breaking strenght > 3000 N

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