



**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

Modena, 20/02/18

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

Attn. **sig. Turrini**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
porcelain tiles	Serie Artwork articolo Micro 02 matte formato 40x80 cm spessore 10 mm marchio Casa Dolce casa	Vs. consegna	08/02/2018

Here attached, you will receive the Test Report of Serial No. **20180969**/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: 20180969/1

Modena, 20/02/18

### CUSTOMER

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

### MATERIAL and/o SAMPLE to be tested

porcelain tiles;

### Denomination

Serie Artwork articolo Micro 02 matte formato 40x80 cm spessore 10 mm  
marchio Casa Dolce casa;

### Date of sample reception

08/02/2018;

### Date of sample acceptance

14/02/2018;

### 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. Bortolai Alberto

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 MODULUS OF RUPTURE AND BREAKING STRENGHT**

Beginning date : 14/02/2018

Analysis ending date : 15/02/2018

**SAMPLE** : Ceramic tiles, marked « **Serie Artwork articolo Micro 02 matte formato 40x80 cm spessore 10 mm marchio Casa Dolce casa** »

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** 400 mm  
 Dimension of tile **L** 800 mm  
 Diameter of rod **d** 20 mm  
 Thickness of rubber **t** 5 mm  
 Overlap of tile beyond the edge supports **l<sub>1</sub>** 10 mm

PARAMETER	Unit of measure	1	2	3	4	5	6	7
Tile n°								
Span between the support rods <b>l<sub>2</sub></b>	mm	780	780	780	780	780	780	780
Width of the test specimen <b>b</b>	mm	400	400	400	400	400	400	400
Minimum thickness of the specimen <b>h</b>	mm	8,9	9,1	9,2	9,2	9,0	9,1	9,1
Breaking load <b>F</b>	N	1424	1563	1582	1602	1472	1623	1538
Breaking strength <b>S</b>	N	2777	3048	3085	3124	2870	3165	2999
Modulus of rupture <b>R</b>	N/mm <sup>2</sup>	52,6	55,2	54,7	55,4	53,2	57,3	54,3

Breaking load **F** average value (N) = 1543  
 Breaking strength **S** average value (N) = 3010  
 Modulus of rupture **R** average value (N/mm<sup>2</sup>) = 54,7

**REQUIREMENTS UNI EN 14411:2016**

GROUP: Bla  
 UNI EN 14411:2016 Annex: G

	THICKNESS	REQUIREMENT
<b>BREAKING STRENGHT</b>	Thickness ≥ 7,5 mm	> 1300 N
	Thickness < 7,5 mm	> 700 N

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

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

<b>Examiner</b>  p.i. Bortolai Alberto	<b>MODENA CENTRO PROVE</b>  Ceramic Dept. Responsible P.I. De Pasquale Roberto	<b>MODENA CENTRO PROVE</b>  Director Sant'Unione dr. Giuseppe
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