



**MODENA CENTRO PROVE s.r.l.**  
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## TEST REPORT: 20198607/4

Modena, 11/12/19

<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 Rock salt of cerim articolo Danish smoke spessore 10 mm superficie naturale marchio Cerim;
<b>Date of sample reception</b>	18/11/2019;
<b>Date of sample acceptance</b>	18/11/2019;
<b>Kind of test executed</b>	Determination of Modulus of rupture and Breaking strength
<b>Referring standards</b>	UNI EN ISO 10545-4:2019
<b>Shifting from standards</b>	No one
<b>Equipment</b>	Flexural test machine cod. MCP C152 - Gauge cod. MCP C145 - Metric band-mill cod. MCP C56
<b>Subcontracted phases</b>	No one
<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.*

<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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## DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 02/12/2019

Analysis ending date : 03/12/2019

**SAMPLE** : Ceramic tiles, marked «serie Rock salt of cerim articolo Danish smoke spessore 10 mm superficie naturale marchio Cerim »

### RESULTS

#### The test has been performed on entire samples

Width of the test specimen <b>b</b>	580	mm
Dimension of tile <b>L</b>	600	mm
Diameter of rod <b>d</b>	20	mm
Thickness of rubber <b>t</b>	5	mm
Overlap of tile beyond the edge supports <b>l<sub>1</sub></b>	10	mm

PARAMETER	Unit of measure	Tile n°		
		1	2	3
Span between the support rods <b>l<sub>2</sub></b>	mm	580	580	580
Width of the test specimen <b>b</b>	mm	580	580	580
Minimum thickness of the specimen <b>h</b>	mm	9,0	9,2	9,2
Breaking load <b>F</b>	N	2889	2814	2834
Breaking strength <b>S</b>	N	2889	2814	2834
Modulus of rupture <b>R</b>	N/mm <sup>2</sup>	53,5	49,9	50,2

Breaking load <b>F</b> average value (N)	=	2846
Breaking strength <b>S</b> average value (N)	=	2846
Modulus of rupture <b>R</b> average value (N/mm <sup>2</sup> )	=	51,2

### REQUISITI UNI EN 14411:2016

GRUPPO:  
 UNI EN 14411:2016 Annex:

Bla  
 G

	SPESORE	REQUISITO
<b>FORZA DI ROTTURA</b>	Spessore ≥ 7,5 mm	> 1300 N
	Spessore < 7,5 mm	> 700 N

		REQUISITO
<b>MODULO DI ROTTURA*</b>	Valore medio	> 35 N/mm <sup>2</sup>
	Valore singolo	> 32 N/mm <sup>2</sup>

(\*) Non applicabile per piastrelle aventi forza di rottura > 3000 N

 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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