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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: 20185382/1

Modena, 31/07/18

CUSTOMER

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

MATERIAL and/o SAMPLE to be tested

porcelain tiles;

Denomination

749161 NEUTRA 6.0 01 BIANCO 6MM 60X120 RET tono t50E cal 5;

Date of sample reception

20/07/2018;

Date of sample acceptance

20/07/2018;

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 C152 - Gauge cod. MCP C145 - Metric band-
mill cod. MCP C56

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



DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGHT

Beginning date : 26/07/2018

Analysis ending date : 27/07/2018

SAMPLE : Ceramic tiles, marked «749161 NEUTRA 6.0 01 BIANCO 6MM 60X120 RET tono t50E 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.

RESULTS

The test has been performed on entire samples

Width of the test specimen b	600	mm
Dimension of tile L	1200	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	1180	1180	1180	1180	1180	1180	1180
Width of the test specimen b	mm	600	600	600	600	600	600	600
Minimum thickness of the specimen h	mm	5,9	5,9	6,0	6,0	5,8	5,9	5,9
Breaking load F	N	704	735	721	728	695	714	701
Breaking strength S	N	1385	1446	1418	1432	1367	1404	1379
Modulus of rupture R	N/mm ²	59,7	62,3	59,1	59,7	60,9	60,5	59,4

Breaking load F average value (N)	=	714
Breaking strength S average value (N)	=	1404
Modulus of rupture R average value (N/mm ²)	=	60,2

REQUIREMENTS UNI EN 14411:2016

GROUP: Bla
 UNI EN 14411:2016 Annex: G

	THICKNESS	REQUIREMENT
BREAKING STRENGHT	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

 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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