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TEST REPORT: 20192982/3

Modena, 06/05/19

CUSTOMER	FLORIM CERAMICHE SPA - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	PORCELAIN TILES;
Denomination	760274 AIRTECH BASEL_GREY NAT 80X80 RET tono A50;
Date of sample reception	04/04/2019;
Date of sample acceptance	04/04/2019;
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
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DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 15/04/2019

Analysis ending date : 16/04/2019

SAMPLE : Ceramic tiles, marked « **760274 AIRTECH BASEL_GREY NAT 80X80 RET tono A50** »

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	800	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 l₁	10	mm

PARAMETER	Unit of measure	Tile n°						
		1	2	3	4	5	6	7
Span between the support rods l₂	mm	780	780	780	780	780	780	780
Width of the test specimen b	mm	800	800	800	800	800	800	800
Minimum thickness of the specimen h	mm	9,6	9,8	9,7	9,7	9,8	9,6	9,7
Breaking load F	N	3341	3413	3427	3384	3472	3265	3346
Breaking strength S	N	3257	3328	3341	3299	3385	3183	3262
Modulus of rupture R	N/mm ²	53,0	52,0	53,3	52,6	52,9	51,8	52,0

Breaking load F average value (N)	=	3378
Breaking strength S average value (N)	=	3294
Modulus of rupture R average value (N/mm ²)	=	52,5

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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