



LAB N° 1170

**TEST REPORT**

**CERAMIC TILES - DETERMINATION OF RESISTANCE OF FORCE AND BENDING STRENGTH  
UNI EN ISO 10545-4: 2014**

Test report n. 3448/2015 /I  
Date of report: 09/14/2015  
Customer: FLORIM CERAMICHE S.p.a.  
Via Canaletto, 24  
41042 FIORANO MODENESE (MO)  
Requested on: 09/09/2015  
Our ref.number: 15438  
Execution place of tests: Scandiano (RE)  
Description of the sample: "Ceramic tiles glazed 80x80 cm  
marked :I CLASSICI STATUARIO 6MM GLOSSY 80x80 marchio REX"  
Sampling: carried out by the customer  
Receipt date of samples: 09/10/2015  
Execution date of tests: start: 09/11/2015 end: 09/14/2015  
Test specification: UNI EN ISO 10545-4:2014  
Determination of resistance to bending and breaking force

**Warnings:**

*This test report can not be reproduced in part, without our written consent.  
The reported results relate only to the samples tested.  
The information included in quotation marks was provided by the customer.*





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Principle: Determination of the breaking load, breaking strength and modulus of rupture of tile by applying a force at a definite rate to centre of the tile, the point of application being in contact with the proper surface of the tile.

Used method: see principle

N. of samples tested: 7

Experimental conditions: Roller diameter:  $d = 20$  mm  
Thickness of the coating roller:  $T = 5$  mm  
Distance between the support point and the edge:  $l_1 = 10$  mm  
Distance between the points of support:  $l_2 = 777$  mm  
Width of the sample:  $b = 797$  mm

Test results: **Breaking load F**

n. sample	F [N]
1	1487
2	1568
3	1526
4	1290
5	1546
6	1626
7	1618

Average breaking load:  $F_m[N] = 1523$

**Breaking strength S**

n. sample	S[N]
1	1450
2	1529
3	1488
4	1258
5	1508
6	1585
7	1577

Breaking strength average:  $S_m[N] = 1485$





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Test results: **Modulus of rupture R**

n. sample	R[N/mm <sup>2</sup> ]
1	54,8
2	57,8
3	56,2
4	49,1
5	57,0
6	59,9
7	59,6

Average modulus of rupture:  $R_m[N/mm^2]=$  56,3

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THE DIRECTOR  
(M.L. Simioli)