



TEST REPORT

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

Test report n. 3420/2015 /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: 15437
Execution place of tests: Scandiano (RE)
Description of the sample: "Ceramic tiles glazed 60x120 cm
marked :MAPS OF CERIM WHITE NAT 60x120 RET marchio CERIM"
Sampling: carried out by the customer
Receipt date of samples: 09/10/2015
Execution date of tests: start: 09/10/2015 end: 09/11/2015
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: 5

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: $l_2 = 1177$ mm
Width of the sample: $b = 597$ mm

Test results: **Breaking load F**

n. sample	F [N]
1	1307
2	1247
3	1214
4	1321
5	1208

Average breaking load: $F_m[N] = 1260$

Breaking strength S

n. sample	S[N]
1	2577
2	2459
3	2394
4	2605
5	2382

Breaking strength average: $S_m[N] = 2483$





LAB N° 1170

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Test results: **Modulus of rupture R**

n. sample	R[N/mm ²]
1	53,5
2	52,3
3	52,1
4	52,8
5	50,6

Average modulus of rupture: $R_m[N/mm^2]=$ 52,3

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THE DIRECTOR
(M. Simioli)