



TEST REPORT

CERAMIC TILES - DETERMINATION OF RESISTANCE OF MODULUS OF RUPTURE AND BREAKING STRENGTH

UNI EN ISO 10545-4: 2014

Test report n. 4997/2016 /I
Date of report: 11/15/2016
Customer: GRUPPO ROMANI S.P.A.
Via Alessandro Volta nr.9, 23/25
42013 CASALGRANDE (RE)
Requested on: 11/08/2016
Our ref.number: 18661
Execution place of tests: Scandiano (RE)
Description of the sample: "Ceramic tiles unglazed 60x60 cm
marked :Serie STONE BOX RET"
Sampling: carried out by the customer
Receipt date of samples: 11/10/2016
Execution date of tests: start: 11/15/2016 end: 11/15/2016
Test specification: UNI EN ISO 10545-4:2014
Determination of modulus of rupture and breaking strength



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.*



LAB N° 1170

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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: $l_2 = 577$ mm
Width of the sample: $b = 597$ mm

Test results: **Breaking load F**

n. sample	F [N]
1	2965
2	3195
3	2962
4	3206
5	3157
6	3062
7	3268

Average breaking load: $F_m[N] = 3116$



Breaking strength S

n. sample	S[N]
1	2866
2	3088
3	2863
4	3098
5	3051
6	2959
7	3158

Breaking strength average: $S_m[N] = 3012$



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Test results: **Modulus of rupture R**

n. sample	R[N/mm ²]
1	51,9
2	55,9
3	51,9
4	56,1
5	55,3
6	53,6
7	56,0

Average modulus of rupture: $R_m[N/mm^2]=$ 54,4

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THE DIRECTOR
(M. Simioli)