



LAB N° 1170

TEST REPORT

**CERAMIC TILES - DETERMINATION OF RESISTANCE OF MODULUS OF RUPTURE AND BREAKING STRENGTH
UNI EN ISO 10545-4: 2014**

Test report n. 2553/2018 /I

Date of report: 06/08/2018

Customer: FLORIM CERAMICHE S.p.a.
Via Canaletto, 24
41042 FIORANO MODENESE (MO)

Requested on: 05/25/2018

Our ref.number: 22703

Execution place of tests: Scandiano (RE)

Description of the sample: "Ceramic tiles 40x80 cm
marked :Serie Urban Style articolo Plomb matte formato 40x80 cm
spessore 10 mm marchio Casa Dolce Casa"

Sampling: carried out by the customer

Receipt date of samples: 06/05/2018

Execution date of tests: start: 06/06/2018 end: 06/07/2018

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.*





TEST REPORT

**CERAMIC TILES - DETERMINATION OF RESISTANCE OF MODULUS OF RUPTURE AND BREAKING STRENGTH
UNI EN ISO 10545-4: 2014**

Test report n. 2553/2018 /I

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: $l_2 = 776$ mm
Width of the sample: $b = 396$ mm

Test results:

Breaking load F

n. sample	F [N]
1	1402
2	1468
3	1456
4	1543
5	1476
6	1465
7	1494

Average breaking load: $F_m[N] = 1472$



Breaking strength S

n. sample	S[N]
1	2748
2	2876
3	2854
4	3023
5	2891
6	2870
7	2927

Breaking strength average: $S_m[N] = 2884$



LAB N° 1170

TEST REPORT
CERAMIC TILES - DETERMINATION OF RESISTANCE OF MODULUS OF RUPTURE AND BREAKING STRENGTH
UNI EN ISO 10545-4: 2014

Test report n. 2553/2018 /I

Test results: **Modulus of rupture R**

n. sample	R[N/mm ²]
1	50,9
2	53,3
3	52,9
4	56,0
5	54,8
6	53,1
7	54,2

Average modulus of rupture: R_m [N/mm²]= 53,6

End of the document



THE DIRECTOR
(M.L. Simion)