

Testing, Experimentation and Quality Control Laboratory

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TEST REPORT n. 2294/2025/I

CERAMIC TILES

SASO ISO 10545-4:2019

DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

Date of report:	09/04/2025		
Customer:	CERAMICA DEL CONCA S.p.A.		
	Via Croce, 8 47832 SAN CLEMENTE (RN)		
Requested on:	28/03/2025		
Our ref.number:	39785		
Execution place of tests:	Scandiano (RE)		
Description of the sample:	"Glazed ceramic tiles 80x80 cm marked: GLAZED CERAMIC TILES Bla GL RECTIFIED"		
Sampling:	carried out by the customer		
Receipt date of samples:	28/03/2025		
Execution date of tests:	start:	07/04/2025	end: 08/04/2025
Test specification:	SASO ISO 10545-4:2019 Ceramic tiles - Determination of modulus of rupture and breaking strength		
Warnings:	<i>This test report may not be reproduced in part without our written approval. The results reported only refer to the samples tested, as received, and are only valid under the conditions in which the work was carried out. The information enclosed in inverted commas was provided by the customer and the laboratory accepts no liability for it.</i>		

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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 specimens tested: 3

Preparation of the test: the test was performed on whole tiles
number of tiles: 3
n. of specimens tested for each tile: 1
length of the specimens: L = 795 mm
width of the specimens: B = 795 mm

Experimental conditions: roller diameter: d = 20 mm
thickness of the coating roller: t = 5 mm
distance between the support point and the edge: l₁ = 10 mm
span between the support rods: l₂ = 775 mm
width of the sample: B = 795 mm

Test results: Breaking load F

Specimens	F [N]
1	3119
2	2786
3	2922

Mean value F [N] 2943

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Specimens	S [N]
1	3040
2	2716
3	2849

Mean value S [N] Test results: **Modulus of rupture R**

Specimens	R[N/mm ²]
1	66,2
2	59,1
3	66,8

Mean value R [N/mm²] **Requirements (Standard SASO GSO ISO 13006:2022 - Table G.1)**

- | | |
|--|---|
| Breaking strength S (Thickness $\geq 7,5$ mm) | - Not less than 1300 N |
| Modulus of rupture R (Thickness $\geq 7,5$ mm) | - Minimum 35 N/mm ² |
| | - Individual minimum 32 N/mm ² |



The Director
Giulia Gaido