

**MODENA CENTRO PROVE s.r.l.**

Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 r.a. - Fax 059380281 - e-mail : info@modenacentroprove.it - www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

MECCANICA

ECOLOGIA

CERAMICA

ALIMENTARE

Modena, 08/08/19

To **GRUPPO ROMANI S.P.A.**
VIA A.VOLTA 9
23/25
42013 CASALGRANDE RE

Attn. **sig. Marastoni**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
PORCELAIN TILES	1066579 FOSSIL CREMA RET 60X60	NS RITIRO	15/7/19

Here attached, you will receive the Test Report of Serial No. **20195782/n**, which shows the results of tests required.

MODENA CENTRO PROVE

MODENA CENTRO PROVE

Director
Sant'Unione dr. Giuseppe



MODENA CENTRO PROVE s.r.l.
Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 r.a. - Fax 059380281 - e-mail : info@modenacentroprove.it -
www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



LAB N°1018L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

TEST REPORT: 20195782/1

Modena, 08/08/19

CUSTOMER

**GRUPPO ROMANI S.P.A. - - VIA A.VOLTA 9
23/25 - 42013 - CASALGRANDE - RE**

MATERIAL and/o SAMPLE to be tested

PORCELAIN TILES;

Denomination

1066579 FOSSIL CREMA RET 60X60;

Date of sample reception

15/07/2019;

Date of sample acceptance

15/07/2019;

Kind of test executed

Determination of Modulus of rupture and Breaking strenght

Referring standards

UNI EN ISO 10545-4:2014/EC 1-2015

Shifting from standards

No one

Equipment

Flexural test machine cod. MCP C152 - Gauge cod. MCP C145 - Metric band-mill cod. MCP C56

Subcontracted phases

No one

Sampling made by

Customer

*The test results showing in this Report are only referred to the sample taken by our staff or supplied by the Customer. He commits himself to reproduce integrally this document. Partial reproduction is forbidden.
The times of retain of the samples was indicated in the offer related to the test report.*

Examiner

p.i. Bortolai Alberto

MODENA CENTRO PROVE

Ceramic Dept. Responsible
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

Director
Sant'Unione dr. Giuseppe



DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 30/07/2019

Analysis ending date : 31/07/2019

SAMPLE : Ceramic tiles, marked «**1066579 FOSSIL CREMA RET 60X60**»

The test has been performed applying a load on three points, with the central load to contact with the centre line of the does superior of the tile.

RESULTS

The test has been performed on entire samples

Width of the test specimen b	600	mm
Dimension of tile L	600	mm
Diameter of rod d	20	mm
Thickness of rubber t	5	mm
Overlap of tile beyond the edge supports l₁	10	mm

PARAMETER	Unit of measure	Tile n°						
		1	2	3	4	5	6	7
Span between the support rods l₂	mm	580	580	580	580	580	580	580
Width of the test specimen b	mm	600	600	600	600	600	600	600
Minimum thickness of the specimen h	mm	9,2	9,3	9,2	9,1	9,3	9,2	9,3
Breaking load F	N	3112	3061	3286	3130	3197	3140	3200
Breaking strength S	N	3008	2959	3176	3026	3090	3035	3093
Modulus of rupture R	N/mm ²	53,3	51,3	56,3	54,8	53,6	53,8	53,6

Breaking load F average value (N)	=	3161
Breaking strength S average value (N)	=	3055
Modulus of rupture R average value (N/mm ²)	=	53,8

REQUIREMENTS UNI EN 14411:2016

GROUP: Bla
 UNI EN 14411:2016 Annex: G

	THICKNESS	REQUIREMENT
BREAKING STRENGTH	Thickness ≥ 7,5 mm	> 1300 N
	Thickness < 7,5 mm	> 700 N

		REQUIREMENT
MODULUS OF RUPTURE*	Average value	> 35 N/mm ²
	Individual value	> 32 N/mm ²

(*) Not applicable to ceramic tiles with breaking strenght > 3000 N

Examiner p.i. Bortolai Alberto	MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe
---------------------------------------	--	---