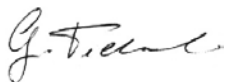


CertiMaC
soc.cons. a r.l.
Via Granarolo, 62
48018 Faenza RA
Italy
tel. +39 0546 670363
fax +39 0546 670399
www.certimac.it
info@certimac.it

R.I. RA,
partita iva e
codice fiscale
02200460398
R.E.A. RA
180280
capitale sociale
€ 84.000
interamente versato

Tests executed by

Ind. Tech. Germano Pederzoli



Ind. Tech. Federica Farina



Drawn up

Dr. Marco Marsigli



Approved

Eng. Luca Laghi



TEST REPORT

010120 - R - 5271

ANNEX TO THE CERTIFICATE OF CONFORMITY 010/17

PLACE AND DATE OF ISSUE: Faenza, 03/22/2017

COMPANY: **Cottosenese S.p.A.**

ADDRESS: Via Fornaci, 55/A
53027 San Quirico d'Orcia (SI)

TYPE OF PRODUCT: **Tegola Portoghese**
(tile with sidelock and headlock)

STANDARD APPLIED: UNI EN 1304, UNI EN 1024, UNI EN 538,
UNI EN 539-1, UNI EN 539-2

DECLARED VALUES:

LENGTH 410 mm
WIDTH 245 mm
CAMBER 0.0 mm
FIXING Yes

SAMPLING DATE: 12/15/2016

TESTS EXECUTED: February - March 2017

TESTS EXECUTED AT: CertiMaC, Faenza

CertiMaC
soc. cons. a r.l.
Via Granarolo, 62
48018 Faenza RA
Italia
tel +39 0546 670363
fax +39 0546 670399
www.certimac.it
info@certimac.it

R.I.RA,
partita iva e
codice fiscale
02200460398
R.E.A.RA
180280
capitale sociale
€ 60.000
interamente versato

Tests executed by

Ind. Tech. Germano Pederzoli

Ind. Tech. Federica Farina

Drawn up

Dr. Marco Marsigli

Approved

Eng. Luca Laghi

Test	N. specimens	Results	Acceptance limits
Appearance and structure N. unsatisfactory specimens	100	0	≤ 5
Flexural strength Minimum breaking load Average breaking load Maximum breaking load Standard deviation	10	4.83 kN 5.55 kN 6.22 kN 0.43 kN	$F \geq 1.20 \text{ kN}$
Impermeability Maximum impermeability Average impermeability Category of impermeability	10	0.04 cm ³ cm ² gg ⁻¹ 0.03 cm ³ cm ² gg ⁻¹ 1	<u>Category 1</u> $IF \leq 0.60 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$ $\bar{IF} \leq 0.50 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$ <u>Category 2</u> $IF \leq 0.90 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$ $\bar{IF} \leq 0.80 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$
Frost resistance, European single test method Number of cycles carried out without defects Level	6	150 Level 1	≥ 150 (Level 1) ≥ 90 and < 150 (Level 2) ≥ 30 and < 90 (Level 3)
Individual dimensions: Length Average tolerance Minimum tolerance Maximum tolerance	10	0.3 % 0.1 % 0.4 %	$L_T \leq \pm 2.0 \%$
Individual dimensions: Width Average tolerance Minimum tolerance Maximum tolerance	10	0.1 % 0.0 % 0.3 %	$I_T \leq \pm 2.0 \%$
Camber Average camber Minimum camber Maximum camber	10	0.6 % 0.5 % 0.6 %	$\bar{R}_L \leq 1.5 \%$
Twist Average twist Minimum twist Maximum twist	10	0.3 % 0.1 % 0.6 %	$C_p \leq 1.5 \%$