

# CERTIFICATE OF CONFORMITY

*N. 020/13*

ISSUED TO THE COMPANY

**Tognana Industrie e Fornaci S.p.A.**

Via S. Antonino, 350/A - 31100 Treviso (TV)

FOR THE FACTORY

Via S. Antonino, 350/A - 31100 Treviso (TV)

FOR THE PRODUCT

**Tegola Marsigliese**

This Certificate of Conformity has a yearly validity from the date of issue.

Type tests were made on samples selected in the factory by qualified personnel of laboratory CertiMaC

Type test results are available in test report n° 010116 - R - 3196 annexed to this Certificate of Conformity

CERTIMAC DECLARES THAT THE ABOVE MENTIONED PRODUCT HAS SUCCESSFULLY OVERCOME THE LABORATORY TESTS IN ACCORDANCE WITH THE TYPE TESTS OF THE STANDARDS

**UNI EN 1304, UNI EN 1024, UNI EN 538, UNI EN 539-1, UNI EN 539-2**

IMPERMEABILITY: Method 1  
Category of Impermeability 1

FROST RESISTANCE: Method E, Level 3 (150 cycles)

First Issue 04/16/1998

Eng. Martino Labanti

Current Issue 02/06/2013

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

# TEST REPORT

010116 - R - 3196

## ANNEX TO THE CERTIFICATE OF CONFORMITY 020/13

### Tests executed by

Ind. Tech. Germano Pederzoli



Ind. Tech. Federica Farina



### Drawn up

Dr. Marco Marsigli



### Approved

Eng. Martino Labanti



PLACE AND DATE OF ISSUE: Faenza, 02/06/2013

COMPANY: **Tognana Industrie e Fornaci S.p.A.**

ADDRESS: Via S. Antonino, 350/A  
31100 Treviso (TV)

TYPE OF PRODUCT: **Tegola Marsigliese**  
(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 415 mm  
WIDTH 240 mm  
CAMBER 0.0 mm  
FIXING Yes

SAMPLING DATE: 12/17/2012

TESTS EXECUTED: January - February 2013

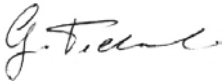
TESTS EXECUTED AT: CertiMaC, Faenza

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. Martino Labanti



Test	N. specimens	Results	Acceptance limits
<b>Appearance and structure</b> N. unsatisfactory specimens	100	0	$\leq 5$
<b>Flexural strength</b> Minimum breaking load Average breaking load Maximum breaking load Standard deviation	10	2.97 kN 3.28 kN 3.48 kN 0.18 kN	$F \geq 1.20 \text{ kN}$
<b>Impermeability</b> Maximum impermeability Average impermeability  Category of impermeability	10	0.08 cm <sup>3</sup> cm <sup>2</sup> gg <sup>-1</sup> 0.07 cm <sup>3</sup> cm <sup>2</sup> gg <sup>-1</sup>  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> $IF \leq 0.90 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$ $\bar{IF} \leq 0.80 \text{ cm}^3 \text{ cm}^2 \text{ gg}^{-1}$
<b>Frost resistance, method E</b> Number of cycles carried out without defects  Level	6	150  Level 3	$\geq 150$ ' Level 3 $\geq 90$ and $< 150$ ' Level 2 $\geq 30$ and $< 90$ ' Level 1
<b>Individual dimensions: Length</b> Average tolerance Minimum tolerance Maximum tolerance	10	- 0.1 % 0.0 % - 0.3 %	$L_T \leq \pm 2.0 \%$
<b>Individual dimensions: Width</b> Average tolerance Minimum tolerance Maximum tolerance	10	0.7 % 0.3 % 1.1 %	$l_T \leq \pm 2.0 \%$
<b>Camber</b> Average camber Minimum camber Maximum camber	10	0.5 % 0.3 % 0.9 %	$\bar{R}_L \leq 1.5 \%$
<b>Twist</b> Average twist Minimum twist Maximum twist	10	1.4 % 1.0 % 1.7 %	$C_p \leq 1.5 \%$