certificazione materiali per costruzioni

Experimental Laboratory for Certification

CERTIFICATE OF CONFORMITY

N. 022/13

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 - 3198 annexed to this Certificate of Conformity

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

Tuscany Coppo

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	03/04/2010	Eng. Martino Labanti
Current Issue	02/06/2013	

Fondato e partecipato da:

ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

istec Consiglio Nazionale delle Ricerche Istituto di Scienza e Tecnologia dei Materiali Ceramici

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TEST REPORT

010116 - R - 3198

ANNEX TO THE CERTIFICATE OF CONFORMITY 022/13

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:	**Tuscany Coppo** (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	255 mm
CAMBER	0.0 mm
FIXING	Yes
SAMPLING DATE:	12/17/2012
TESTS EXECUTED:	January - February 2013
TESTS EXECUTED AT:	CertiMaC, Faenza

Tests executed by

Ind. Tech. Germano Pederzoli

Ind. Tech. Federica Farina

Drawn up

Dr. Marco Marsigli

Approved

Eng. Martino Labanti

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Ind. Tech. Federica Farina

Drawn up

Dr. Marco Marsigli

Approved

Eng. Martino Labanti

Test	N. specimens	Results	Acceptance limits
Appearance and structure	100		
N. unsatisfactory specimens		0	≤ 5
Flexural strength	10		
Minimum breaking load		4.22 kN	F ≥ 1.20 kN
Average breaking load		4.84 kN	
Maximum breaking load		5.77 kN	
Standard deviation		0.53 kN	
Impermeability	10		Category 1
Maximum impermeability		0.09 $cm^3 cm^{-2} gg^{-1}$	IF ≤ 0.60 $cm^3 cm^{-2} gg^{-1}$
Average impermeability		0.07 $cm^3 cm^{-2} gg^{-1}$	$\overline{IF}$ ≤ 0.50 $cm^3 cm^{-2} gg^{-1}$
			Category 2
			IF ≤ 0.90 $cm^3 cm^{-2} gg^{-1}$
			$\overline{IF}$ ≤ 0.80 $cm^3 cm^{-2} gg^{-1}$
Category of impermeability		1	
Frost resistance, method E	6		
Number of cycles carried out without defects		150	≥ 150 ' Level 3
			≥ 90 and < 150 ' Level 2
			≥ 30 and < 90 ' Level 1
Level		Level 3	
Individual dimensions: Length	10		
Average tolerance		- 0.5 %	L_T ≤ ± 2.0 %
Minimum tolerance		- 0.4 %	
Maximum tolerance		- 0.6 %	
Individual dimensions: Width	10		
Average tolerance		- 1.9 %	I_T ≤ ± 2.0 %
Minimum tolerance		- 1.6 %	
Maximum tolerance		- 2.0 %	
Camber	10		
Average camber		0.7 %	$\overline{R}_L$ ≤ 1.5 %
Minimum camber		0.5 %	
Maximum camber		0.9 %	
Twist	10		
Average twist		0.2 %	C_p ≤ 1.5 %
Minimum twist		0.1 %	
Maximum twist		0.4 %	