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02200460398
R.E.A. RA
180280
capitale sociale
€ 84.000
interamente versato

TEST REPORT

010118 - R - 4288

ANNEX TO THE CERTIFICATE OF CONFORMITY 029/15

Tests executed by

Ind. Tech. Germano Pederzoli



Ind. Tech. Federica Farina



Drawn up

Dr. Marco Marsigli



Approved

Eng. Luca Laghi



PLACE AND DATE OF ISSUE: Faenza, 04/02/2015

COMPANY: **F.B.M. – Fornaci Briziarelli Marsciano S.p.A.**

ADDRESS: Località Fornaci
06055 Marsciano (PG)

TYPE OF PRODUCT: **Tegola Olandese**
(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 430 mm
WIDTH 263 mm
CAMBER 0.0 mm
FIXING Yes

SAMPLING DATE: 12/10/2014

TESTS EXECUTED: February - March 2015

TESTS EXECUTED AT: CertiMaC, Faenza

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| 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 | 3.16 kN 3.64 kN 4.44 kN 0.42 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 | - 0.6 % - 0.6 % - 0.7 % | $L_T \leq \pm 2.0 \%$ |
| Individual dimensions: Width Average tolerance Minimum tolerance Maximum tolerance | 10 | - 0.8 % - 0.5 % - 1.3 % | $l_T \leq \pm 2.0 \%$ |
| Camber Average camber Minimum camber Maximum camber | 10 | 0.4 % 0.2 % 0.6 % | $\bar{R}_L \leq 1.5 \%$ |
| Twist Average twist Minimum twist Maximum twist | 10 | 0.4 % 0.1 % 0.8 % | $C_p \leq 1.5 \%$ |