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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 REPORT

**010112 - R - 1368**

ANNEX TO THE CERTIFICATE OF CONFORMITY 006/09

PLACE AND DATE OF ISSUE: Faenza, 01/30/2009

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

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

TYPE OF PRODUCT: **Tegola Portoghese Crete Senesi**  
(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: 12/11/2008

TESTS EXECUTED: January 2009

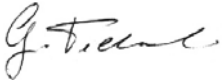
TESTS EXECUTED AT: CertiMaC, Faenza

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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	5.48 kN 6.60 kN 7.26 kN 0.68 kN	$F \geq 1.20$ kN
<b>Impermeability</b> Maximum impermeability Average impermeability  Category of impermeability	10	0.17 cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup> 0.15 cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup>  1	<u>Category 1</u> $IF \leq 0.60$ cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup> $\bar{IF} \leq 0.50$ cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup> <u>Category 2</u> $IF \leq 0.90$ cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup> $\bar{IF} \leq 0.80$ cm <sup>3</sup> cm <sup>-2</sup> gg <sup>-1</sup>
<b>Frost resistance, method C</b> Appearance and structure Mass loss	10	satisfactory 0.0 %	satisfactory/unsatisfactory $\Delta M \leq 1.0$ %
<b>Individual dimensions: Length</b> Average tolerance Minimum tolerance Maximum tolerance	10	1.1 % 1.0 % 1.3 %	$L_T \leq \pm 2.0$ %
<b>Individual dimensions: Width</b> Average tolerance Minimum tolerance Maximum tolerance	10	0.3 % 0.0 % 0.7 %	$I_T \leq \pm 2.0$ %
<b>Camber</b> Average camber Minimum camber Maximum camber	10	0.5 % 0.3 % 0.6 %	$\bar{R}_L \leq 1.5$ %
<b>Twist</b> Average twist Minimum twist Maximum twist	10	0.4 % 0.2 % 0.7 %	$C_p \leq 1.5$ %