

## TEST LABORATORY

### STATEMENT N°: EN 14411/ISO 13006\_210.417\_3\_s

The Centro Ceramico – Bologna, officially recognized by Decree of the President of Italian Republic on 1978 (DRP 10/04/1978, n. 806) and accredited by ACCREDIA, a recognized **ILAC** body, (number of accreditation 0058), in its capacity as the authorised laboratory for Italy, carries out tests and controls on ceramic tiles in accordance with the “International Conformity Certification Program” and the “Mutual Recognition Agreement on test reports (CENCER CC5 – CERAMIC TILES)”,

**declares that:**

- the goods listed in the attached summary table are ceramic tiles classified “**Bill group (W.A. >10%) – Glazed surface**” according to the standard **EN 14411 § 4: 2016 and ISO 13006 § 4: 2012** and manufactured by CERAMICHE SERRA S.p.A. (Italy);
- the tiles have been subjected to laboratory tests according to the standards ISO 10545 listed in **EN 14411-L: 2016 and ISO 13006-L:2012**;
- the tiles have been proven to be in compliance with the requirements of the standard **EN 14411-L: 2016 and ISO 13006-L:2012**.



Prof. Maria Chiara Bignozzi  
DIRECTOR

*Annex: Summary table dated 21/04/17 with reference to results, test reports and requirements.*

**SUBJECT:** Glazed ceramic tiles 34 x 34 x 0,7 cm marked "Sizes 34x34 cm – Thickness 0,7 cm" (**Annex to statement n°: EN 14411/ISO 13006\_210.417\_3\_s**).

**SUMMARY TABLE**

<b>Characteristics (Test method)</b>	<b>Requirements EN 14411- L ISO 13006- L</b>	<b>Results</b>	<b>Test report</b>
Surface quality (GSO ISO 10545-2 § 7)	% of tiles without defects $\geq 95$	100%	3202/17
Lenght and width (ISO 10545-2 § 2)	Max deviat. % from $W \leq \pm 0.5$ ( $\pm 2.0$ mm)	Complies	3203/17
Thickness (ISO 10545-2 § 2)	Max deviat. % from $W \leq \pm 10$ ( $\pm 0.5$ mm)	Complies	3203/17
Straightness of sides (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0.3$ % ( $\pm 1.5$ mm)	Complies	3203/17
Rectangularity (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0.5$ % ( $\pm 2.0$ mm)	Complies	3203/17
Centre curvature (ISO 10545-2 § 2)	Max deviat. % $\leq + 0.5/ -0.3$ % (+ 2.0/ -1.5 mm)	Complies	3203/17
Edge curvature (ISO 10545-2 § 2)	Max deviat. % $\leq + 0.5/ -0.3$ % (+ 2.0/ -1.5 mm)	Complies	3203/17
Warpage (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0.5$ % ( $\pm 2.0$ mm)	Complies	3203/17
Determination of water absorption (%) (ISO 10545-3)	Average value $E > 10$ %	11,0	3171/17
Determination of modulus of rupture (N/mm <sup>2</sup> ) (ISO 10545-4)	$\geq 15$	23,3	3204/17
Breaking strenght (N) (ISO 10545-4)	$\geq 200$	603	3204/17
Determination of impact resistance (ISO 10545-5)	Test method available	0,64	3175/17



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<b>Characteristics (Test method)</b>	<b>Requirements EN 14411- L ISO 13006- L</b>	<b>Results</b>	<b>Test report</b>
Resistance to abrasion (Glazed tiles) (ISO 10545-7)	Abrasion class and cycles passed	4 (6000 rev)	3205/17
Determination of linear thermal expansion (ISO 10545-8)	Test method available	6,0/6,0	3179/17
Determination of resistance to thermal shocks (ISO 10545-9)	Test method available	Resistant	3182/17
Determination of moisture expansion (ISO 10545-10) (mm/m)	Test method available	0.0	3185/17
Determination of crazing resistance (Glazed tiles) (ISO 10545-11)	Required	Resistant	3188/17
Determination of chemical resistance - (Glazed tiles) (ISO 10545-13)	Declared value <sup>(1)</sup> / Min GB <sup>(2)</sup>	A	3191/17
Resistance to staining (ISO 10545-14)	Minimum class 3	5/5/5	3194/17
Lead and cadmium release (mg/dm <sup>2</sup> ) (ISO 10545-15)	Test method available	Pb < 0,02 Cd < 0,001	525/17

Note (1): low and high concentration acids and alkalis.

Note (2): only for resistance to household chemicals and swimming pool salts.




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Director