



CENTRO DI RICERCA E Sperimentazione
PER L'INDUSTRIA CERAMICA

Sassuolo 08/05/18

Messrs

KALE ITALIA S.r.l.
Via Viazza II Tronco, 45
41042 Fiorano (MO), frazione Ubersetto

TEST LABORATORY

STATEMENT N°: SASO ISO 13006_080.518_1_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 "**Dry - pressed tiles. Bla group (W.A. ≤0,5%) – Glazed surface**" according to the standard **SASO ISO 13006 § 4: 2016** and manufactured by KALE ITALIA S.r.l. (Italy);
- the tiles have been subjected to laboratory tests according to the standards ISO 10545 listed in **SASO ISO 13006-G:2016**;
- the tiles have been proven to be in compliance with the requirements of the standard **SASO ISO 13006-G:2016**.



Prof. Maria Chiara Bignozzi
DIRECTOR

Annex: Summary table dated 08/05/18 with reference to results, test reports and requirements.



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Via Viazza II Tronco, 45
41042 Fiorano (MO), frazione Ubersetto

SUBJECT: Glazed ceramic tiles of different sizes marked "Ceramic tiles Bla group manufactured by KALE ITALIA S.r.l." (**Annex to statement n°: SASO ISO 13006_080.518_1_s).**

SUMMARY TABLE

Characteristics <i>(Test method)</i>	Requirements SASO ISO 13006 - G	Results	Test report
Surface quality (GSO ISO 10545-2 § 7)	% of tiles without defects ≥ 95	100%	2893/18
Lenght and width (GSO ISO 10545-2 § 2)	Max deviat. % from W $\leq \pm 0,6$ $(\pm 2,0 \text{ mm})$	Complies	2894/18
Thickness (GSO ISO 10545-2 § 2)	Max deviat. % from W $\leq \pm 5 (\pm 0,5 \text{ mm})$	Complies	2894/18
Straightness of sides (GSO ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5 \%$ $(\pm 1,5 \text{ mm})$	Complies	2894/18
Rectangularity (GSO ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5 \%$ $(\pm 2,0 \text{ mm})$	Complies	2894/18
Centre curvature (GSO ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5 \%$ $(\pm 2,0 \text{ mm})$	Complies	2894/18
Edge curvature (GSO ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5 \%$ $(\pm 2,0 \text{ mm})$	Complies	2894/18
Warpage (GSO ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5 \%$ $(\pm 2,0 \text{ mm})$	Complies	2894/18
Determination of water absorption (%) (GSO ISO 10545-3)	Average value E $\leq 0,5 \%$	0,06	2895/18
Determination of modulus of rupture (N/mm ²) (GSO ISO 10545-4)	≥ 35	57,5	2896/18
Breaking strenght (N) (GSO ISO 10545-4)	≥ 1300	2515	2896/18
Determination of impact resistance (GSO ISO 10545-5)	Test method available	0,83	2897/18
Resistance to abrasion (Glazed tiles) (GSO ISO 10545-7)	Abrasion class and cycles passed	4 (6000 rev)	2898/18

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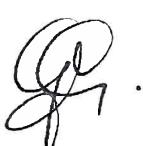
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SUBJECT: Glazed ceramic tiles of different sizes marked "Ceramic tiles Bla group manufactured by KALE ITALIA S.r.l." (**Annex to statement n°: SASO ISO 13006_080.518_1_s**).

Characteristics (Test method)	Requirements SASO ISO 13006 - G	Results	Test report
Determination of linear thermal expansion (GSO ISO 10545-8)	Test method available	7,0/7,0	2899/18
Determination of resistance to thermal shocks (GSO ISO 10545-9)	Test method available	Resistant	2900/18
Determination of moisture expansion (GSO ISO 10545-10) (mm/m)	Test method available	0,0	2901/18
Determination of crazing resistance (Glazed tiles) (GSO ISO 10545-11)	Required	Resistant	2902/18
Determination of frost resistance (GSO ISO 10545-12)	Required	Resistant	2903/18
Determination of chemical resistance - (Glazed tiles) (GSO ISO 10545-13)	Declared value ⁽¹⁾ / Min GB ⁽²⁾	A	2904/18
Resistance to staining (GSO ISO 10545-14)	Minimum class 3	5/5/4	2905/18

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

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




Prof. Maria Chiara Bignozzi
Director