

# CENTRO CERAMICO

CENTRO DI RICERCA E SPERIMENTAZIONE  
PER L'INDUSTRIA CERAMICA

## SEDE

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## CERTI.CER.

### LABORATORIO DI ZONA

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Tel. e Fax. 0536 802154

Part. IVA 0094778-0375

Bologna, 26/01/09

Spett.le

ENERGIE KER (GOLD ART GROUP)

Via Giardini Nord, 231/233

41026 PAVULLO NEL FRIGNANO (MO)

## TEST LABORATORY

STATEMENT N°: EC\_EN 14411\_260.109\_1\_s

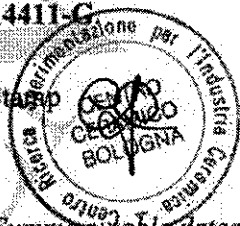
The Centro Ceramico - Bologna, officially recognized by Decree of the President of Italian Republic on 1978 (DPR 10/04/1978, n. 806), and accredited by SINAL (number of accreditation 0058), in its capacity as the authorised laboratory for Italy, carries out tests and controls on ceramic tiles in accordance 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 "Dust pressed tiles - Low water absorption tile (W.A.  $\leq 0,5\%$ )" according to the standard EN 14411 § 4: 2006 and manufactured by ENERGIE KER (GOLD ART GROUP) (Italy);
- the tiles have been subjected to laboratory tests according to the standards ISO 10545 listed in EN 14411-G;
- the tiles have been proven to be in compliance with the requirements of the standard

EN 14411-G

Official Stamp



Prof. Eng. Giorgio Cimellini  
DIRECTOR

Annex: Summary table dated 26/01/09 with reference to test reports and to requirements.



Consorzio universitario per la gestione del  
«Centro di ricerca e sperimentazione per  
l'industria ceramica»  
D.P.R. 10-4-1978 n. 806  
(G.U. 25-12-1978 n. 383)

Laboratorio autorizzato ad effettuare il  
servizio di rilevamento dell'inquinamento  
atmosferico.  
Decreto MINISTERO SANITÀ 10-9-1974  
(G.U. 14-9-1974 n. 240)

Laboratorio iscritto nell'elenco dei «Laboratori Esterni  
Pubblici e Privati Altamente Qualificati»  
Decreto MINISTERO RICERCA SCIENTIFICA 6-6-1983  
(G.U. 6-7-1983 n. 183)

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American Society for  
Testing and Materials

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SPERIMENTAZIONE PER L'INDUSTRIA  
CERAMICA

Bologna, 26/01/09

Spett.le  
ENERGIE KER (GOLD ART GROUP)  
Via Giardini Nord, 231/233  
41026 PAVULLO NEL FRIGNANO (MO)

SUBJECT: Glazed ceramic tiles of different sizes marked "Porcelain stoneware tiles manufactured by ENERGIE KER (GOLD ART GROUP)" (Annex to statement n°: EC\_EN 14411\_260.109\_1\_s).

Characteristics (Test method)	Requirements EN 14411/ISO - G	Results	Test Report
Surface quality (ISO 10545-2 § 7)	% of tiles without defects $\geq 95$	100%	2305/09
Length and width (ISO 10545-2 § 2)	Max deviat. % from W $\leq \pm 0,6$	-0,3	2306/09
Length and width (ISO 10545-2 § 2)	Max deviat. % from average size $\leq \pm 0,5$	-0,2	2306/09
Thickness (ISO 10545-2 § 2)	Max deviat. % from W $\leq \pm 5$	-3,8	2306/09
Straightness of sides (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5$ %	-0,1	2306/09
Rectangularity (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,6$ %	0,2	2306/09
Centre curvature (ISO 10545-2 § 2)	Max deviat. % $\leq + 0,5$ %	0,1	2306/09
Edge curvature (ISO 10545-2 § 2)	Max deviat. % $\leq + 0,5$ %	0,1	2306/09
Warpage (ISO 10545-2 § 2)	Max deviat. % $\leq \pm 0,5$ %	-0,1	2306/09
Water absorption (%) (ISO 10545-3)	Average value E $\leq 0,5$ %	0,09	2307/09
Modulus of rupture (N/mm <sup>2</sup> ) (ISO 10545-4)	$\geq 35$	45,7	2308/09
Breaking strenght (N) (ISO 10545-4)	$\geq 700$	1469	2308/09
Resistance to abrasion GL (ISO 10545-7)	According to class indicated by the manufacturer	4 (> 2100 rev)	2309/09
Crazing resistance (ISO 10545-11)	Required	Resistant	2310/09
Frost resistance (ISO 10545-12)	Required	Resistant	2311/09
Chemical resistance GL (ISO 10545-13§8) (1)	According to class indicated by the manufacturer /min GB	Resistant	2312/09
Resistance to staining (ISO 10545-14)	Minimum class 3	S/5/4	2313/09

Prof. Eng. Giorgio Tassinari  
Director



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"Centro di ricerca e sperimentazione per  
l'industria ceramica"  
D.P.R. 10-4-1974 n. 826  
(G.U. 20-12-1974 n. 353)

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Decreto MINISTERO SANITA' 10-9-1974  
(G.U. 14-9-1974 n. 243)

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Decreto MINISTERO RICERCA SCIENTIFICA 6-6-1983  
(G.U. 6-7-1983 n. 163)

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