



CENTRO CERAMICO BOLOGNA

CENTRO DI RICERCA E SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA
VIA MARTELLI, 26 – 40138 BOLOGNA – TEL. 051/534015 – FAX 051/530085

TECHNICAL CHARACTERISTICS ACCORDING TO INTERNATIONAL STANDARDS Glazed ceramic tiles 32,5 x 65 x 1,1 cm marked "CRIS – Serie FEEL"

<i>Characteristics</i>	<i>Test method</i>	<i>Requirements EN 14411/ISO 13006-L</i>	<i>Results ⁽¹⁾</i>
Water absorption (%)	ISO 10545-3	Average > 10	AA average = 14,1
Modulus of rupture (N/mm ²)	ISO 10545-4	R ≥ 12	R = 22,0
Breaking strength (N)	ISO 10545-4	S ≥ 600	S = 1490
Determination of linear thermal expansion	ISO 10545-8	Test method available	α = 5,9-6,1
Determination of crazing resistance	ISO 10545-11	Required	Resistant
Thermal shock	ISO 10545-9	Test method available	Resistant
Resistance to low concentrations of acids and alkalis	ISO 10545-13	Class stated by manufacturer	GLA
Resistance to high concentrations of acids and alkalis	ISO 10545-13	Test method available	GHA
Resistance to household chemical and swimming pool water	ISO 10545-13	GB min	GA
Determination of stain resistance	ISO 10545-14	3 min	Cleanable tiles

(1) Test report of Centro Ceramico Bologna from n. 2612/09 to n. 2617/09 and n. 2672/09 dated 03/03/09.

Prof. Eng. *Giorgio Tinelli*
Director

Centro Ceramico Bologna – Research and Experimentation Center for the Ceramic Industry – is the Italian national research structure for the ceramic industry sectors, as well as the official laboratory and test house for analysis, control and certification of ceramic products.

Centro Ceramico Bologna, on the basis of the accreditations received, is the official test laboratory specified for procedures for the granting of national and international quality marks for ceramic materials.