

## SPECIFICATIONS of collection (semigres): ELEMENTI

### 1. Product and process features

Ceramic tiles – Group BIII – for internal walls coverings.

### 2. Compliance with Standards

The material, in compliance with the requirements of European standards EN 14411 Encl. L and International standards ISO13006 Encl. L, must meet the following technical features:

ISO 10545-3 (Water absorption)

ISO 10545-2 (Dimensions and surface quality)

ISO 10545-4 (Modulus of rupture (R))

ISO 10545-8 (Thermal expansion coefficient)

ISO 10545-9 (Thermal shock resistance)

ISO 10545-11 (Determination of crazing resistance)

ISO 10545-13 (Chemical resistance)

ISO 10545-14 (Stain resistance)

The Quality Control System implemented by the company guarantees the mentioned above features in accordance with UNI-EN-ISO 9001:2015 standards; our company also guarantees the constant respect of the laws in force concerning the health and safety of workers through the ISO 45001 management scheme.

Slabs, with a low environmental impact, obtained by pursuing policies of continuous improvement aimed at reducing the wastes of non-renewable resources by using natural raw materials that are not environmentally valuable.

Objectives achieved through the adoption of Environmental and Energy Management Systems respectively certified in accordance with the UNI-EN ISO 14001:2015 and ISO 50001:2018 standards as well as through the registration to the “ECO-MANAGEMENT” Community system according to the requirements of the EMAS Regulations.

### 3. Commercial Description of the Product

<b>Company</b>	Iris Ceramica
<b>Collection</b>	ELEMENTI
<b>Product</b>	Lava Carbone - Lava Cobalto - Lava Giallo - Lava Mare - Lava Rosso
<b>Finish</b>	Glossy
<b>Size in inch</b>	8x8
<b>Size in cm</b>	20x20
<b>Thickness in mm</b>	7,5

#### 4. Technical features

Chemical Physical	Norms	Required Standards	Average Values of Production
Water absorption	ISO 10545-3	Eb > 10%	> 16%
Length and Width	ISO 10545-2	± 0,5 %	Compliant
Thickness		± 10 %	
Linearity		± 0,3%	
Rectangularity		± 0,5 %	
Surface Flatness		+ 0,5 % / - 0,3 %	
Modulus of rupture (R)	ISO 10545-4	$R \geq 15 \text{ N/mm}^2$	20 N/mm <sup>2</sup>
Coefficient of linear thermal expansion	ISO 10545-8	Test method available	$8 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Thermal shock resistance	ISO 10545-9	Test method available	Resistant
Crazing Resistance	ISO 10545-11	Test method available	Resistant
Chemical resistance* - Household chemicals - Swimming pool salts - Low concentration of acid and alkalis - High concentration of acid and alkalis	ISO 10545-13	- Min. Class B - Manufacturer is to state classification - Test method available	A LB HB
Stain resistance	ISO 10545-14	Min. Class 3	On request

(\*) With the exception of HYDROFLUORIC acid (HF) or its derivatives and compounds.

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