

## 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>         | Pietra Di Sciara Carbone |
| <b>Finish</b>          | Matt                     |
| <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 ≥ 15 N/mm <sup>2</sup>   | 20 N/mm <sup>2</sup>                |
| Coefficient of linear thermal expansion   | ISO 10545-8  | Test method available  | 8x10 <sup>-6</sup> °C <sup>-1</sup> |
| Thermal shock resistance  | ISO 10545-9  | Test method available  | Resistant                           |
| Crazing Resistance  | ISO 10545-11 | Test method available  | Resistant                           |
| Chemical resistance*<br>- Household chemicals<br>Swimming pool salts<br>- Low concentration of acid and alkalis<br>- High concentration of acid and alkalis | ISO 10545-13 | - Min. Class B<br>- Manufacturer is to state classification<br>- Test method available | A<br>LA<br>HA                       |
| Stain resistance  | ISO 10545-14 | Min. Class 3   | Class 5                             |

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

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