Eliane S/A Revestimentos Cerâmicos



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## TECHNICAL CHARACTERISTICS OF PRODUCT

The characteristics of the product specified in this technical report meet the specification and test methods according to norm NBR 13818 and ISO 13006 requirements.

## **PRODUCT SPECIFICATION**

| Reference                   | METRO WHITE 10X20   |  |  |  |
|-----------------------------|---------------------|--|--|--|
| Product Code                | 180661              |  |  |  |
| Nomimal Size (N)            | 10 cm x 20 cm       |  |  |  |
| Work Size (W)               | 100,0 mm x 200,0 mm |  |  |  |
| Thickness                   | 7,7 mm              |  |  |  |
| Water Absorption            | BIII (> 10,0%)      |  |  |  |
| Shade Variation             | V1                  |  |  |  |
| Application Joint           | 2,0 mm              |  |  |  |
| Coverage Area               | 1,00 m²/cx          |  |  |  |
| Number of pieces per box    | 50                  |  |  |  |
| DIMENSIONAL CHARACTERISTICS |                     |  |  |  |

| Deviation on W in relation to N                 | ± 2,00 (max. ±5,0 n | nm)            |                                   |
|---|---------------------|----------------|-----------------------------------|
| Deviation on r1 in relation to W                | ± 0,75mm            | ± 0,50%        | (max. ±2,0 mm) <sup>1</sup>       |
| Deviation on e in relation to eW                | ± 0,50 mm           | ± 10,0%        | (max. ±0,5 mm) <sup>1</sup>       |
| Wedging of size - deviation in relation to W    | ± 0,50 mm           | ± 0,30%        | (max. ±1,5 mm) <sup>1</sup>       |
| Rectangularity - deviation in relation to W     | ± 0,75 mm           | ± 0,50%        | (max. ±2,0 mm) <sup>1</sup>       |
| Edge curvature - deviation in relation to W     | -0,50 / + 0,75 mm   | -0,30 / +0,509 | % (max1,50 / +2,0mm) <sup>1</sup> |
| Center Curvature - deviation in relation to W   | -0,50 / + 0,75 mm   |                |                                   |
| Warpage - deviation in relation to W            | ± 0,75 mm           |                |                                   |
| <sup>1</sup> Specifications for the side length |                     |                |                                   |

<sup>1</sup> Specifications for the side length

Definition - Dimensional Characteristics

Wedging of size: occurs when the sides of the piece show a curvature either concave or convex.

Rectangularity: identifies if the tile is set square or not.

Edge curvature: occurs when one of the sides of the piece presents curvature, compared to the standard piece.

Center curvature: occurs when the center of the piece presents curvature, compared to the standard piece.

Warpage: is the difference of one of the four sides (end) related to the three sides leaned on the equipment, compared to the standard piece.

N - Nominal size (cm).

W - Work size (mm).

r - Average size of one piece (average of two sides if rectangular format and four sides when square format).

R - Average size of 10 pieces (average of two sides if rectangular format and four sides when square format).

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| PHYSICAL PROPERTIES                     |            |  |
|---|------------|--|
| Flexion resistance (N/mm <sup>2</sup> ) | ≥ 12       |  |
| Breaking strength (N)                   | ≥ 600      |  |
| Moisture expansion (mm/m)               | ≤ 0,60     |  |
| Crazing resistance                      | Guaranteed |  |

| Resistance to household chemicals and swimming pool salts - Ammonium Chloride 100g/L | ≥GB      |
|--|----------|
| Resistance to household chemicals and swimming pool water - Sodium Hypochlorite 20mg | ≥GB      |
| Acid - low concentration - chloridric acid 3%  | ≥GLB     |
| Acid - low concentration - citric acid 100g/L  | ≥GLB     |
| Alkalis - low concentration - potassium hydroxide 30g/L                              | ≥GLB     |
| Resistance to staining - Green Chrome (40% in oil)                                   | ≥Class 3 |
| Resistance to staining - Olive Oil   | ≥Class 3 |
| Resistance to staining - Alcohol iodine (13g / L)                                    | ≥Class 3 |

Definition - Chemical Resistance

Codes of classification: XYZ (Ex: GHA)

X – One letter: G or U, glazed or unglazed

Y - One letter: H or L, high or low concentration

Z – One letter: Chemical resistance class: A = High

B = Medium

C = Low

Definition - Resistance to Stain

Class 5 - The stain can be removed easily.

Class 4 - The stain can be removed with a light chemical product.

Class 3 - The stain can be removed with a strong chemical product.

Class 2 - The stain can be removed with solvent.

Class 1 - The stain can not be removed.

## Attention:

- Sand may produce scratches on any type of surface covering (stone, wood, vinyl or ceramic tiles).
  Therefore, ceramic tiles are not warranted against scratches, especially concerning glossy surface products.
- Special care is recommended during the application and its use
- In residential areas, we recommend to protect the base of furniture and appliances.
- Product manufactured by the wet process.
- Product with Class I combustibility, according to NBR 15575.

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