### 3D Wall Design

**Sizes**
- 50x110 cm 19\%x43\% 4''
- 50x110 cm 19\%x43\% 4''
- 40x80 cm 15\%x31\% 4''
- 40x80 cm 15\%x31\% 4''
- 30.5x56 cm 12\%x22''

#### Regularity features

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Permitted deviation, in % or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).</th>
<th>Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length and width</td>
<td>± 0.4 [*] Rect.</td>
<td>ISO 10545-2</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Thickness</td>
<td>± 0.5 (***) Rect.</td>
<td>ISO 10545-2</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Straightness of sides</td>
<td>± 0.4 [**] Rect.</td>
<td>ISO 10545-2</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Perpendicularity</td>
<td>± 0.4 [**] Rect.</td>
<td>ISO 10545-2</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Surface flatness</td>
<td>c.c. ± 0.6 Rect.</td>
<td>ISO 10545-2</td>
<td>Not applicable</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

#### Structural features

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Average &gt;10% if this value &gt; 20%, it must be indicated. Single value &gt; 9%</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water absorption level (sides by mass)</td>
<td>ISO 10545-3</td>
<td>Average &gt;10%</td>
<td>10%&lt;EV ≤20%</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Breaking strength</td>
<td>ISO 10545-4</td>
<td>S ≥600 N</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Bending resistance</td>
<td>R ≥12 N/mm²</td>
<td>ISO 10545-8</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Coefficient of linear thermal expansion</td>
<td>Declared value</td>
<td>ISO 10545-9</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Thermal shock resistance</td>
<td>Test passed in accordance with ISO 10545-1</td>
<td>ISO 10545-10</td>
<td>Suitable for</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

#### Bulk mechanical features

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture expansion (in mm)</td>
<td>Declared value</td>
<td>ISO 10545-11</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Crazing resistance glazed tiles</td>
<td>Test passed in accordance with ISO 10545-1</td>
<td>ISO 10545-12</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

#### Thermo-igrometric features

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond strength</td>
<td>Declared value</td>
<td>EN 1348</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

#### Physical properties

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction to fire</td>
<td>Class A1</td>
<td>-</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Resistance to household chemicals and swimming pool salts</td>
<td>Minimum B class</td>
<td>ISO 10545-13</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Resistance to low concentrations of acids and alkalis</td>
<td>Declared class</td>
<td>ISO 10545-14</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Resistance to high concentrations of acids and alkalis</td>
<td>Declared class</td>
<td>ISO 10545-15</td>
<td>Suitable for</td>
</tr>
<tr>
<td>Stain resistance of glazed tiles</td>
<td>Maximum Class 3</td>
<td>-</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

#### Chemical features

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Test method</th>
<th>ISO</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release of dangerous substances</td>
<td>Declared value</td>
<td>ISO 10545-16</td>
<td>Suitable for</td>
</tr>
</tbody>
</table>

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* Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).
** Permitted deviation, in % or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).
*** Maximum permitted straightness deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
**** Maximum permitted perpendicularity deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
***** Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
**** Maximum permitted bend deformation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).
(1) Determining the slip resistance of pedestrian surfaces; not applicable to sports flooring or road traffic flooring.
(2) The anti-slip performance is guaranteed at the time of delivering the product.
(3) However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not limited to, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers’ guidelines and recommendations.
(4) For further details, please refer to the outdoor design general catalogue.
(5) Only for products with 20 mm thickness.

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**3D WALL DESIGN**

**TECHNICAL FEATURES**

**ANNEX L GROUP BIII**

**WHITE BODY TILES**

**Suitable for**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

**Not Suitable for**

- Not suitable for 0%<EV ≤ 5%
- Not suitable for LA ≤ 5%
- Not suitable for LA ≤ 10%<EV
- Not suitable for LA ≤ 20%
- Not suitable for LA ≤ 30%
- Not suitable for LA ≤ 40%
- Not suitable for LA ≤ 50%
- Not suitable for LA ≤ 60%
- Not suitable for LA ≤ 70%
- Not suitable for LA ≤ 80%
- Not suitable for LA ≤ 90%
- Not suitable for LA ≤ 100%

**Regularity features**

- Suitable for LA ≤ 5%
- Suitable for LA ≤ 10%<EV
- Suitable for LA ≤ 20%
- Suitable for LA ≤ 30%
- Suitable for LA ≤ 40%
- Suitable for LA ≤ 50%
- Suitable for LA ≤ 60%
- Suitable for LA ≤ 70%
- Suitable for LA ≤ 80%
- Suitable for LA ≤ 90%
- Suitable for LA ≤ 100%

**Structural features**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

**Bulk mechanical features**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

**Thermo-igrometric features**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

**Physical properties**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

**Chemical features**

- Suitable for 5% ≤ LA ≤ 10%<EV
- Suitable for 10%<EV ≤ 20%
- Suitable for 20%<EV ≤ 30%
- Suitable for 30%<EV ≤ 40%
- Suitable for 40%<EV ≤ 50%
- Suitable for 50%<EV ≤ 60%
- Suitable for 60%<EV ≤ 70%
- Suitable for 70%<EV ≤ 80%
- Suitable for 80%<EV ≤ 90%
- Suitable for 90%<EV ≤ 100%

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