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60X60 CM

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Satin Matte Finish

DGVT MARCO BROWN
Satin Matte Finish

DGVT SPARKLE WHITE
## TECHNICAL SPECIFICATIONS

### Glazed Vitrified Tiles

#### Packing Details

<table>
<thead>
<tr>
<th>Size</th>
<th>No. of Tiles Per Carton</th>
<th>Covered Area Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>[In mm.]</td>
<td></td>
<td>(In Sq. Mtr.)</td>
</tr>
<tr>
<td>600x600 (West Zone)</td>
<td>4</td>
<td>1.44</td>
</tr>
</tbody>
</table>

#### Group B Ia as per ISO 13006:2012 and Group B Ib as per IS 15622:2017

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Test Methods</th>
<th>Requirement as per ISO 13006 (\leq 0.5) Group B Ia</th>
<th>Requirement as per IS 15622:2017 (0.08\leq% \leq 2) Group B Ib</th>
<th>OBL Norms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension &amp; Surface Quality</td>
<td></td>
<td>Unrectified</td>
<td>Rectified</td>
<td></td>
</tr>
<tr>
<td>Deviation in Length &amp; Width</td>
<td>IS 15630 (Part 1):2006</td>
<td>(\pm 0.8)%</td>
<td>(\pm 0.4)%</td>
<td>(\pm 0.1)%</td>
</tr>
<tr>
<td>Deviation in Thickness</td>
<td></td>
<td>(\pm 0.5)%</td>
<td>(\pm 0.5)%</td>
<td>(\pm 0.1)%</td>
</tr>
<tr>
<td>Straightness of Sides</td>
<td></td>
<td>(\pm 0.5)%</td>
<td>(\pm 0.3)%</td>
<td>(\pm 0.1)%</td>
</tr>
<tr>
<td>Rectangulality</td>
<td></td>
<td>(\pm 0.5)%</td>
<td>(\pm 0.3)%</td>
<td>(\pm 0.1)%</td>
</tr>
<tr>
<td>Surface Flatness</td>
<td></td>
<td>(\pm 0.5)%</td>
<td>(\pm 0.2)%</td>
<td>(\pm 0.2)%</td>
</tr>
<tr>
<td>Surface Quality</td>
<td></td>
<td>Min. 95% tiles should be free from visible defects</td>
<td>Min. 95% tiles should be free from visible defects</td>
<td>Conforms</td>
</tr>
<tr>
<td>Physical Properties</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>IS 15630 (Part 2):2006</td>
<td>Avg (\leq 0.5), Individual max, 0.6</td>
<td>Avg (0.08\leq% \leq 3), Individual 3.3, Max</td>
<td>Avg (\leq 0.5), Individual max, 0.6</td>
</tr>
<tr>
<td>Modulus of Rupture in [N/mm²]</td>
<td>IS 15630 (Part 6):2006</td>
<td>Min 35, Individual 32, Min</td>
<td>Avg 30, Individual 27, Min</td>
<td>Avg 35 Min, Individual 35, Min</td>
</tr>
<tr>
<td>Breaking Strength in [N]</td>
<td>IS 15630 (Part 6):2006</td>
<td>(&lt; 7.5) mm thickness 700, Min</td>
<td>(&lt; 7.5) mm thickness 700, Min</td>
<td>1500, Min</td>
</tr>
<tr>
<td>Moisture Expansion in [mm²/24h]</td>
<td>IS 15630 (Part 3):2006</td>
<td>Declare Value</td>
<td>(&lt; 0.02)</td>
<td></td>
</tr>
<tr>
<td>Scratch Hardness of Surface (Moh's Scale)</td>
<td>IS 15630 (Part 13):2006</td>
<td>NA</td>
<td>5, Min</td>
<td>5 to 8 Depending on Design/ Surface</td>
</tr>
<tr>
<td>Resistance to Surface Abrasion of Glazed Tiles (Class II Y)</td>
<td>IS 15630 (Part 11):2006</td>
<td>Test Method Available</td>
<td>Class II, Min</td>
<td>Class III to Class V Depending as per Design/ Surface</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion from Ambient Temperature to 100°C</td>
<td>IS 15630 (Part 4):2006</td>
<td>Test Method Available</td>
<td>(7\times10 ^{7})°K/, Max</td>
<td>Conforms</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>IS 15630 (Part 5):2006</td>
<td>Test Method Available</td>
<td>10 cycles, Min</td>
<td>Passed</td>
</tr>
<tr>
<td>Frost Resistance</td>
<td>IS 15630 (Part 10):2006</td>
<td>Test Method Available</td>
<td>4 Cycles@7.5 bar, Min</td>
<td>4 Cycle @ 7.5 Bar Min</td>
</tr>
<tr>
<td>Bulk Density, in [g/cm³]</td>
<td>IS 15630 (Part 12):2006</td>
<td>Manufacturer to Store</td>
<td>0.35, Min</td>
<td>&gt; 2.1</td>
</tr>
<tr>
<td>Impact Resistance - Coefficient of Restitution</td>
<td>IS 15630 (Part 14):2006</td>
<td>Test Method Available</td>
<td>0.78-0.85</td>
<td>Conforms</td>
</tr>
<tr>
<td>Chemical Properties</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistance to Staining of Glazed Tiles</td>
<td>IS 15630 (Part 8):2006</td>
<td>Mix, Class 3</td>
<td>Class I, Min</td>
<td>Conforms</td>
</tr>
<tr>
<td>Resistance to Household Chemicals</td>
<td></td>
<td>Mix, GA</td>
<td>Class AA, Min</td>
<td>Conforms</td>
</tr>
<tr>
<td>Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compounds)</td>
<td>IS 15630 (Part 8):2006</td>
<td>Test Method Available</td>
<td>Required, if agreed</td>
<td>Conforms</td>
</tr>
</tbody>
</table>

**NOTE:** Certain amount of Size and Shade variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

Every effort has been made to ensure the accuracy of the information given. However, the company reserves the right to delete & change, any of the items, colors, sizes & technical specifications without any prior notice.
Creating Solutions for Schools

There are 1.6+ million schools in India. The top 100 thousand schools benefit from the innovation trending in the education space.

However, for the 1 million schools at the bottom of the pyramid, the quality of basic education remains a challenge. Lack of textbooks, parent & student apathy compound the problem.

To make an impact on learning outcomes we designed tiles having educational content that is relevant for all classes. These tiles, applied as a mural on a classroom wall, create a positive learning environment as well as keep the walls looking clean with minimal maintenance requirements.

As a part of our CSR initiative, this unique range of educational tiles has revamped quite a few schools in Delhi, UP and Rajasthan. The impact makes the effort worthwhile.

Impact on Learning Outcomes

- 36% increase in enrolments in just 2 years
- 31% reduction in absenteeism, reduced from 53% to 12% in 2 years
- Increased performance in exams
- Creates an interactive learning experience
- Enables quick revision of topics
- Active visual learning while on the move
- Increased retention of complex concepts
- Reduces violence & bullying in school premises
- Scribble proof

* Data collected from schools revamped by Orientbell as part of their CSR initiative.
Make small spaces look bigger with Orientbell tiles

Big solutions for small bathrooms

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Listed on BSE (530365) for 20+ years. And also on NSE (ORIENTBELL).

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