SAHARA SERIES
Made With Diligence
Full Body Vitrified Tiles | 600x600mm
For South & West Zones
The Grains Story

Sahara Series Full Body range is a work of diligence, providing homogeneous body tiles. The aesthetic appeal of the tile remains intact even after prolonged exposure to wear and tear, making it the most preferred durable tile.

All the Six designs – WZ Sahara Ash, WZ Sahara Carbon, WZ Sahara Off White, WZ Sahara Golden, WZ Sahara Grainy Choco & WZ Sahara Dove Grey are made by mixing natural clay, feldspar, quartz and natural pigments. Our R & D experts use special pigment grains for even dispersion, ensuring minimal color variation across batches.

All the touch points like silos, lifting machines, conveyor belts where the mixture passes through are treated with utmost care to nullify impurities. As a precautionary measure, even the conveyor belt is covered to avoid dust.

And while the team ensures the consistency between the batches, the quality team works vigilantly to ensure that every batch meets the highest MOR standards.

The process of diligence thus makes the full body replete with functional USP(s) of higher durability and high breaking strength.
Adorn your Spaces with

Strength & Elegance

Product Features

HIGH STRENGTH   SCRATCH RESISTANT   ANTI-SKID   CHEMICAL RESISTANT   LOW MAINTENANCE   ECO FRIENDLY
WZ SAHARA GOLDEN & WZ SAHARA CARBON

600x600mm
WZ SAHARA GOLDEN
SAHARA SERIES
Made With Diligence

WZ SAHARA GRAINY CHOCO

600x600mm
WZ SAHARA GRAINY CHOCO
WZ SAHARA CARBON

600x600mm
WZ SAHARA CARBON
MIX & MATCH

WZ SAHARA GRAINY CHOCO & WZ SAHARA OFF WHITE
FULL BODY VITRIFIED TILES ADVANTAGES OVER KOTA STONE

Wear and Tear

Full body vitrified tiles are made by verification process and have a homogenous body. They can withstand heavy footfall since the MOH is 5 on scratch hardness test. The strength to resist weight does not hamper the aesthetic appeal of the tiles. While the continuous usage of Kota stone might result in flaking.

Color Variation

Full body tile shade has a slight variation (5-10%). But the quality & shade is unpredictable for Kota Stone being a natural product.

Stain Resistance

Full Body Tiles can resist stains due to an invisible glaze layer unlike in natural stone. Kota stone is porous, and hence susceptible to staining from spills & drops.

Chemical Resistance

Kota stone is not acid and alkali resistant and can be stained easily, whereas full body tiles are chemical restraint and this has been tested & certified in internal & external labs.

Water Absorption

Full body tiles have almost negligible water absorption (less than 0.08%), whereas Kota stone has slightly higher water absorption, approx. 0.31% (Source: Scribd). Hence, Full Body Tiles are most suitable for spaces with exposure to water and moisture.

Slip Resistance

Full body tiles are matte finish & to keep the friction high even when the surface is wet. On the other hand, Kota stone have the tendency of being slippery.

Installation Process

Full body vitrified Tiles are easy to install once the surface is prepared, while for Kota stone you need to polish it several times after installation leading to a noisy and cumbersome process. In addition, Kota stone may require polishing later to maintain its sheen.

Building Weight

Each tile of the Sahara series (of 600x600mm size) weighs approximately 7kg +/- 0.3kg. A Kota stone of similar size with 15mm thickness weighs around 20kg which eventually adds to the weight of the entire structure (building). Comparatively the lighter weight of Sahara full body vitrified tiles makes them the ideal choice.
## TECHNICAL SPECIFICATIONS

### 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. Mtrs.)</td>
</tr>
<tr>
<td>600X600 mm (WZ)</td>
<td>4</td>
<td>1.44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.50</td>
</tr>
</tbody>
</table>

### As per Indian Standard (IS 15622:2017) Group B 1a

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Standard Test Method</th>
<th>IS 15622 Requirements</th>
<th>OBL Norms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions and Surface Quality:</td>
<td>IS 13630 Part 1</td>
<td>Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile</td>
<td>Conform</td>
</tr>
<tr>
<td>Deviation in Size (length &amp; Width)</td>
<td>IS 13630 Part 1</td>
<td>± 0.1 %</td>
<td>± 0.1 % (Max)</td>
</tr>
<tr>
<td>Deviation in thickness</td>
<td>IS 13630 Part 1</td>
<td>± 5.0 %</td>
<td>± 4.0 % (Max)</td>
</tr>
<tr>
<td>Straightness of sides</td>
<td>IS 13630 Part 1</td>
<td>± 0.1 %</td>
<td>± 0.1 % (Max)</td>
</tr>
<tr>
<td>Rectangularity</td>
<td>IS 13630 Part 1</td>
<td>± 0.1 %</td>
<td>± 0.1 % (Max)</td>
</tr>
<tr>
<td>Surface Flatness (Centre curvature, Edge Curvature &amp; warpage)</td>
<td>IS 13630 Part 1</td>
<td>± 0.5 %</td>
<td>± 0.2 % (Max)</td>
</tr>
<tr>
<td>Surface Quality</td>
<td>IS 13630 Part 1</td>
<td></td>
<td>Conform</td>
</tr>
<tr>
<td>Physical Properties:</td>
<td>IS 13630 Part 2</td>
<td>Average ≤0.088%, individual 0.10% Max.</td>
<td>Average ≤0.088%</td>
</tr>
<tr>
<td>Water absorption %</td>
<td>IS 13630 Part 6</td>
<td>Average 35, individual 32 Min.</td>
<td>Min 40 N/mm²</td>
</tr>
<tr>
<td>Modulus of rupture N/mm²</td>
<td>IS 13630 Part 3</td>
<td>0.02 Max</td>
<td>Conform</td>
</tr>
<tr>
<td>Moisture Expansion</td>
<td>IS 13630 Part 5</td>
<td>700 Min for thickness &lt;7.5 mm, 1300 Maximum for Thickness ≥7.5 mm</td>
<td>Min 1700 N</td>
</tr>
<tr>
<td>Scratch hardness (Moh’s Scale)</td>
<td>IS 13630 Part 13</td>
<td>5 Min</td>
<td>6 Min</td>
</tr>
<tr>
<td>Linear thermal expansion Co-efficient</td>
<td>IS 13630 Part 4</td>
<td>6x10^-6 max</td>
<td>6x10^-6 max</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>IS 13630 Part 14</td>
<td>10 Cycle Min</td>
<td>Passed</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>IS 13630 Part 17</td>
<td>0.55 , Min</td>
<td>0.75 to 0.80</td>
</tr>
<tr>
<td>Co-efficient of Friction</td>
<td>ISO 10545 Part-17</td>
<td>Manufacturer to declare the value &amp; test method</td>
<td>0.45 In Dry Condition (Pendulum Method)</td>
</tr>
<tr>
<td>Frost Resistance</td>
<td>IS 13630 Part 10</td>
<td>Required if agreed to between manufacturer and purchaser</td>
<td>50 cycle passed</td>
</tr>
<tr>
<td>Resistance to deep abrasion of glazed tiles</td>
<td>IS 13630 Part 12</td>
<td>140, Max</td>
<td>100 Max</td>
</tr>
<tr>
<td>Bulk density g/cc</td>
<td>IS 13630 Part 2</td>
<td>2.2 , Max</td>
<td>2.2 , Min</td>
</tr>
<tr>
<td>Chemical Properties:</td>
<td>IS 13630 Part 8</td>
<td>Class 1 Min</td>
<td>Conform</td>
</tr>
<tr>
<td>Stain resistant Unglazed tiles</td>
<td>IS 13630 Part 8</td>
<td>Class AA</td>
<td>Class AA</td>
</tr>
<tr>
<td>Resistance to Household chemicals, Resistance to acids &amp; alkalis (Except HF)</td>
<td>IS:13630 Part 8</td>
<td></td>
<td></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.
Making Tile Selection Easier

- SameLook™: Find tiles similar to a reference image
- TrialLook™: Tiles selected by you in your room
- QuickLook®: Visualise selected tiles & get a quote
- TruLook®: Share layout for a personalised render*

www.orientbell.com

CORPORATE OFFICE:
Iris House, 16 Business Centre,
Nangal Raya, New Delhi-110046, India
Tel: +91-11-47119100, Fax: +91-11-28521273

CIN: L14101UP1977PLC021546

REGISTERED OFFICE:
8 Industrial Area, Sikandrabad-203 205 (UP), India
Tel: +91-5735-222-203/24, +91-8191004575/76
Fax: +91-5735 222 642

CUSTOMER CARE:
customercare@orientbell.com
Missed Call: 87507 11111
WhatsApp: 87507 33333

Please join us on social media