GROUNDING STATIC CHARGE ~24/7~

ANTI-STATIC TILES 600x600 mm
About OBL

Orient Bell Limited (OBL) is amongst the largest manufacturers of Wall and Floor Tiles. Established in 1977, OBL has been a pioneer in the Industry with a focus on customer-centric innovation.

First to manufacture ultra-vitrified tiles, new product designs & development is a continuous process at OBL. As a result it has an extensive range of tiles with various finishes & textures. It has 4 patent-pending technologies: Forever Tiles, GermFree Tiles, Cool Tiles & Life Tiles.

To display extensive range of tiles, we have a chain of signature showrooms. Privileged to be associated with premier architects and construction agencies of the country, it also counts most leading developers as well as government & public sector institutions as its customers.

- The ISO 9001:2015 accreditation for our quality control management systems reflects the quest for manufacturing international standard products.

- In 2015 our Sikandarabad plant was awarded with prestigious ISI certification for its products.

- In May 2000, OBL was awarded ISO 14001 certification by the internationally recognised BSI Management Systems, UK.

- Our manufacturing units are ISO 14001:2015 certified, the most complete and global expression for an environment friendly industrial company.

- We have been awarded OHSAS 18001 Certification for Health & Safety Standards. No waste water is ever discharged from our factory.

- We were also awarded with “Certificate Of Merit” in 'National Energy Conservation Award' 2016 organised by Ministry of Power for saving Power and Fuel consumption.
OBL Awards & Accolades

Realty+ recognizes the best of the best within the ranks of Indian Real Estate

Website of the Year-Jan 2020  
for www.orientbell.com  
(India’s construction & design industry)

Brand of the Year-Jan 2021  
(Flooring Idea-Tiles & Ceramic)

Best Infrastructure Brands (2021)

Best Omnichannel Retail Model  
Winners Future of Retail Summit & Awards 2020

Customer Retail Journey Innovation  
Winners Future of Retail Summit & Awards 2020

CEO with HR Orientation  
ZEE BUSINESS National Human Capital Leadership Congress & Awards
WHAT IS STATIC CHARGE?

Static electrical charge may be built due to rubbing of any two surfaces. For example, when we walk on the floor or when clothes are rubbed together, Static charge is generated through friction.

WHY IT IS DANGEROUS?

When static charge dispersed to sensitive electronic equipments or transferred in fire prone areas, it could create an unexpected combustion & electrocution.
INTRODUCING

OBL ANTI-STATIC TILES

Orientbell Tiles is proud to introduce the Anti-static range of vitrified tiles that drastically reduce the generation of static electricity, ensuring safe and reliable floors. This is ideal for environments where build-up of static electricity is a possibility. It has two color options to add utility as well as boost aesthetics.
HOW OBL ANTI-STATIC TILES ENSURES SURFACE CONDUCTION?

- Ensures that the surface electrical conductivity is below $10^6$ Ohm/sqm for static conductive requirements.

- Especially designed surface charge collector at all the edges of the tile.

- The conductive grout collects the static charge from the edges & transfer it to the earth via ground earthing connectors.
ANTI-STATIC
CONDUCTIVE TILE
Surface Resistance (10^3 to 10^6 ohm/sq)

Major Applications Area:

- Data Centre
- Server Room
- MRI Room
- IT Industry
- PCB Manufacturing
- Medical Labs
- Computer Labs
- Mobile/TV Assembly Units
- PLC Panel Rooms
- Operations Theatre
- Ordinance Factories
- Defense Factories
- Petro Chemical Factories
- Chemical Plants
- Shell Making Factories
- Pharma Industry
- Bulk Drug Units
Two colors can be creatively used to achieve a variety of operational outcomes.
Orientbell Anti-Static tiles are made in Satin Finish which ensures less accumulation of dirt and thereby reduces the chance of friction that causes static charge. Easy to clean and maintain, satin finish gives a clean and neat look to your spaces.
OBL Anti-Static tiles has been certified by India’s Most Reputed IISc Bangalore, which is one among the World’s Top 100 Universities.
VARIOUS APPLICATION AREAS
## COMPARISON

### ANTIC-STATIC vs PVC/EPoxy ANTI-STATIC FLOORING

<table>
<thead>
<tr>
<th><strong>Anti-Static Tiles</strong></th>
<th><strong>PVC/ Epoxy Anti-Static Flooring</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONDUCTIVITY PERFORMANCE</strong></td>
<td>Less conductive</td>
</tr>
<tr>
<td><strong>MAINTENANCE</strong></td>
<td>High maintenance</td>
</tr>
<tr>
<td><strong>ABRASION</strong></td>
<td>High chances of wear and tear</td>
</tr>
<tr>
<td><strong>COMPRESSION</strong></td>
<td>Becomes thinner and brittle over period of time due to equipment load</td>
</tr>
<tr>
<td><strong>STAIN RESISTANCE</strong></td>
<td>Get stains easily</td>
</tr>
<tr>
<td><strong>CHEMICAL RESISTANCE</strong></td>
<td>Very high chances of reacting even with mild acids and alkalis</td>
</tr>
<tr>
<td><strong>FIRE RESISTANCE</strong></td>
<td>Prone to catch fire</td>
</tr>
<tr>
<td><strong>WATER ABSORPTION</strong></td>
<td>Moisture underneath causes corrodes the adhesive</td>
</tr>
<tr>
<td><strong>COLOR DISCOLORATION</strong></td>
<td>Color fades with time</td>
</tr>
<tr>
<td><strong>FUNGUS FORMATION</strong></td>
<td>Humidity and moisture causes fungus formation</td>
</tr>
<tr>
<td>Much better because of metals presence in the glaze</td>
<td></td>
</tr>
<tr>
<td>Low, Easy to clean</td>
<td></td>
</tr>
<tr>
<td>No wear and tear</td>
<td></td>
</tr>
<tr>
<td>No effect of load, no compression as made of vitrified base only</td>
<td></td>
</tr>
<tr>
<td>Stain resistant</td>
<td></td>
</tr>
<tr>
<td>No effect of acid and alkalis (except HF acids &amp; its derivatives)</td>
<td></td>
</tr>
<tr>
<td>Fire Resistant</td>
<td></td>
</tr>
<tr>
<td>Almost negligible</td>
<td></td>
</tr>
<tr>
<td>Color remains intact for years</td>
<td></td>
</tr>
<tr>
<td>No possibility of fungus, top surface don't react with moisture</td>
<td></td>
</tr>
</tbody>
</table>
## TECHNICAL SPECIFICATIONS
### Anti-Static Tiles

### Packing Details

<table>
<thead>
<tr>
<th>Size</th>
<th>No. of Tiles</th>
<th>Covered Area Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in mm.)</td>
<td>Per Carton</td>
<td>(in Sq. Mtr.)</td>
</tr>
<tr>
<td>600x600</td>
<td>4</td>
<td>1.44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.5</td>
</tr>
</tbody>
</table>

### Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Testing Methods</th>
<th>Requirement as per IS 15622:2017 0.08&lt;ES3 (Group B lb)</th>
<th>OBL Norms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension &amp; Surface Quality</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deviation in Length &amp; Width</td>
<td>±0.4%</td>
<td>± 0.1%</td>
<td>±0.1%</td>
</tr>
<tr>
<td>Deviation in Thickness</td>
<td>± 5.0 %</td>
<td>±4.0%</td>
<td></td>
</tr>
<tr>
<td>Straightness of Sides</td>
<td>± 0.3 %</td>
<td>±0.1%</td>
<td></td>
</tr>
<tr>
<td>Rectangularity</td>
<td>± 0.3 %</td>
<td>±0.1%</td>
<td></td>
</tr>
<tr>
<td>Surface Flatness</td>
<td>± 0.5 %</td>
<td>±0.2%</td>
<td></td>
</tr>
<tr>
<td>Surface Quality</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>Conforms</td>
<td></td>
</tr>
<tr>
<td>Physical Properties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Absorption %</td>
<td>IS 13630 Part 2</td>
<td>Avg 0.08 &lt; E ≤ 3 % , Individual 3.3 % Max</td>
<td>Avg &lt;0.5 %</td>
</tr>
<tr>
<td>Modulus of Rupture in N/mm²</td>
<td>IS 13630 Part 6</td>
<td>Avg 30, Individual 27, Min</td>
<td>Min 38 N/mm²</td>
</tr>
<tr>
<td>Breaking Strength (N)</td>
<td>IS 13630 Part 6</td>
<td>700 Min for thickness &lt; 7.5 mm, 1100 Min for thickness ≥ 7.5 mm</td>
<td>Min 1500 N</td>
</tr>
<tr>
<td>Moisture Expansion</td>
<td>IS 13630 Part 3</td>
<td>0.02, Max</td>
<td>Conforms</td>
</tr>
<tr>
<td>Scratch Hardness (Moh's Scale)</td>
<td>IS 13630 Part 13</td>
<td>5, Min</td>
<td>Min 5</td>
</tr>
<tr>
<td>Resistance to Surface Abrasion of glazed tiles Class I to V (Applicable for floor applications only)</td>
<td>IS 13630 Part 11</td>
<td>Class I, Min (Depending on surface)</td>
<td>Class III to IV</td>
</tr>
<tr>
<td>Linear thermal expansion Co-efficient</td>
<td>IS 13630 Part 4</td>
<td>7x10⁶, Max</td>
<td>Conforms</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>IS 13630 Part 5</td>
<td>10 Cycles, Min</td>
<td>Passed</td>
</tr>
<tr>
<td>Crizzling Resistance</td>
<td>IS 13630 Part 9</td>
<td>4 Cycles at 7.5 Bar, Min</td>
<td>4 Cycles at 7.5 Bar</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>IS 13630 Part 14</td>
<td>0.55, Min</td>
<td>Min 0.7</td>
</tr>
<tr>
<td>Skid Resistance</td>
<td>DIN 51130</td>
<td>Manufacturer to declare value where required</td>
<td>&gt;R9</td>
</tr>
<tr>
<td>Frost Resistance</td>
<td>IS 13630 Part 10</td>
<td>Required if agreed to between manufacturer and purchaser</td>
<td>Resistant</td>
</tr>
<tr>
<td>Bulk density g/cc</td>
<td>IS 13630 Part 2</td>
<td>2.0, Min</td>
<td>2.1, Min</td>
</tr>
<tr>
<td>Surface Electrical Resistance</td>
<td>ANSI/ESD 57.1</td>
<td>10⁻³ ohm/square to 10⁻⁶ ohm/square (Conductive) 10⁻⁶ ohm/square to 10⁻⁹ ohm/square (Dissipative) 10⁻⁶ to 10⁻⁸ ohm/square</td>
<td>0.1 x 10⁻⁶ ohm/square</td>
</tr>
<tr>
<td>Chemical Properties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistance to staining of glazed tiles</td>
<td>IS 13630 Part 8</td>
<td>Class I, Min</td>
<td>Min Class 1</td>
</tr>
<tr>
<td>Resistance to household chemicals</td>
<td>IS 13630 Part 8</td>
<td>Class AA, Min</td>
<td>Min Class AA</td>
</tr>
<tr>
<td>Resistance to acids and alkalis</td>
<td>IS 13630 Part 8</td>
<td>Require if Agreed</td>
<td>Min Class AA</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.
ORIENT BELL TILE BOUTIQUE

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Tel.: +91 172 4624 342

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New No: 85, Old No: 30, Maharaja Tower, 2nd Floor, 1st Avenue,
Asnok Nagar, (Above Kotak Mahindra Bank), Chennai-600 083,
Tel.: +91 44 4213 8687

COCHIN
“SURYA GAYATRI”, Building No. 32/a, B3, Puthya Road, New Junction,
(Opposite Holiday Inn Hotel) Ernakulam By Pass Road, Cochin-682 031
Tel.: +91 97457 68058

COIMBATORE
11, 1st Floor, Venkata Samy Road (East), R.S. Puram,
Coimbatore-641 002.
Tel.: +91 89799 41666

DEHRADUN
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Dehradun-248 001,
Tel.: +91 97197 01064

KOLKATA
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Tel.: +91 33 4068 4046/7

LUCKNOW
Raj Rani Apartment, Ground Floor, Near Beej Nigam, Badhshah Nagar Railway Station, Lucknow-226 006,
Tel.: +91 99847 86404

NEW DELHI
M-47, GK-II, M Block, New Delhi-110 048,
Tel.: +91 11 4068 7468/69

PUNE
Shop No. 3 and 4, A Tower Vega Centre, C.T.S No. 710, Final Plot No. 401/1,
Shankarsheeth Road, Gulfekari, Swargate, Pune-411 037
Tel.: +91 73910 72247

VADODRA DISPLAY CENTRE
78-79, 2nd Floor, Surya Kisan Complex, Beside Banker Heart Institute,
Old Padra Road, Vadodara-390007, Gujarat
Tel.: +91 98254 14113

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