



## HSK MASTER FLOOR *Catalogue*

## 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](http://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



## Creating Solutions for Schools



Tile Mural-Periodic Table



Tile Mural-Suryanamaskar

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

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## 600x600mm | FT+GFT

|                                  |    |
|----------------------------------|----|
| GFT BDW ALASKA WOOD NATURAL FT   | 09 |
| GFT BDW ALDER BROWN FT           | 09 |
| GFT BHF ALDER WOOD MULTI FT      | 07 |
| GFT BHF BEAD SQUARE WOOD FT      | 05 |
| GFT BDM FRANJO IVORY FT          | 03 |
| GFT BHF GEOMETRIC SHAPES WOOD FT | 05 |
| GFT BDW HOOVER BROWN FT          | 06 |
| GFT BDW KOA PLANK BROWN FT       | 06 |
| GFT BDW MAGIC WOOD BROWN FT      | 06 |
| GFT BHF RIO WOOD FT              | 06 |
| GFT BDW RUBRA STRIP BROWN FT     | 09 |
| GFT BDW RUBRA STRIP MULTI FT     | 09 |
| GFT BHF SOFTMARBO CREMA FT       | 03 |
| GFT BDW TEXA BROWN FT            | 09 |
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| GFT BDW WALNUT WOOD FT           | 07 |
| GFT BDC WOOD SQUARE BEIGE FT     | 07 |
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| GFT FEDARO BROWN FT              | 04 |
| GFT FEDARO GREY FT               | 02 |
| GFT FEDARO IVORY FT              | 04 |

## 395x395mm | Ceramic

|                    |    |
|--------------------|----|
| MILO               | 13 |
| ODM CLOUDY COPPER  | 15 |
| ODM DENMARK COFFEE | 14 |
| ODM DENMARK CREMA  | 13 |
| ODM GALAXY BLACK   | 12 |
| ODM GENOVA BEIGE   | 14 |
| ODM HOOVER BROWN   | 14 |
| ODM IROKO RW WOOD  | 14 |
| ODM MADURA IVORY   | 13 |
| ODM NAPOLI BROWN   | 14 |
| ODM PAVONA BEIGE   | 13 |
| ODM PLAIN IVORY    | 13 |
| ODM SPRING BROWN   | 14 |
| ODM TANNER COTTO   | 15 |
| ODM VESTA BROWN    | 15 |
| ODM VESTA GREY     | 11 |
| ODM VESTA SLATE    | 11 |

## 300x300mm | Ceramic

|                      |    |
|----------------------|----|
| BDM EC BRAZIL BRICK  | 20 |
| BDM EC BRAZIL WOOD   | 21 |
| BDM EC CARPETO GRIS  | 18 |
| BFM EC CLOUDY COPPER | 21 |
| BDM EC CRUZE IVORY   | 20 |

|                           |    |
|---------------------------|----|
| BDM EC CURIO MULTI        | 20 |
| BFM EC DENIME CAFE        | 20 |
| BFM EC DENIME NERO        | 18 |
| BDM EC FUJI NATURAL       | 20 |
| BFM EC GAQARD MAGENTA     | 23 |
| BDM EC GLITTER BEIGE      | 20 |
| BDM EC GLITTER BLUE       | 19 |
| BDM EC GLITTER BROWN      | 20 |
| BDM EC GOLDEN TEAK        | 20 |
| BDM EC HOGGAR BROWN       | 20 |
| BDM EC MOSAIC BLUE        | 22 |
| BDM EC MOSAIC BROWN       | 22 |
| BDM EC NATA IVORY         | 22 |
| BFM EC NERO BLACK         | 18 |
| BFM EC PLAIN GREY         | 18 |
| BFM EC PLAIN IVORY        | 20 |
| BFM EC PLAIN WHITE        | 17 |
| BFM EC PORTICO TAN        | 21 |
| BFM EC QTZ BRIGHT BLUE    | 19 |
| BFM EC QUARTZO CREAM      | 20 |
| BFM EC QUARTZO GREEN      | 23 |
| BFM EC QUARTZO GREY       | 18 |
| BFM EC QUARTZO IVORY      | 20 |
| BFM EC QUARTZO PINK       | 23 |
| BDM EC RIVER PEBBLE MULTI | 20 |
| BFM EC SAND BROWN         | 20 |
| BFM EC SORRENTO BLUE      | 19 |
| BFM EC TERRA BROWN        | 21 |

## 300x300mm | ANTI SKID

|                                |    |
|--------------------------------|----|
| BDM ANTI SKID EC FUSION BROWN  | 27 |
| BDM ANTI SKID EC FUSION COFFEE | 27 |
| BDM ANTI SKID EC FUSION IVORY  | 27 |
| BFM ANTI SKID EC COFFEE BROWN  | 28 |
| BFM ANTI SKID EC BLUE          | 26 |
| BFM ANTI SKID EC BROWN         | 28 |
| BFM ANTI SKID EC GREEN         | 30 |
| BFM ANTI SKID EC IVORY         | 27 |
| BFM ANTI SKID EC PINK          | 29 |
| BFM ANTI SKID EC PISTA         | 30 |
| BFM ANTI SKID EC SILVER        | 25 |
| BFM ANTI SKID EC SLATE         | 25 |
| BFM ANTI SKID EC WENGÉ         | 27 |

## 400x400mm | PAVERS

|                        |    |
|------------------------|----|
| HRP ARCH STONE MULT    | 35 |
| HRP COBBLE STONE MULTI | 34 |

|                               |    |
|-------------------------------|----|
| HRP COBBLE STONE NATURAL      | 34 |
| HRP COBBLE SPANISH MOSAIC     | 33 |
| HRP COBBLE STONE RAKED GREY   | 32 |
| HRP COBBLE STONE SLATE        | 32 |
| HRP CUBE MULTI                | 35 |
| HRP PLANK MULTI               | 36 |
| HRP PLANK RUSTIC BEIGE        | 33 |
| HRP PLANK WOOD WENGÉ          | 36 |
| HRP ROCK NATURAL              | 34 |
| HRP STONE HEXAGON BROWN MULTI | 36 |
| HRP STONE HEXAGON SLATE DK    | 32 |
| HRP SHELL STONE GREY          | 32 |
| HRP SHELL STONE MULTI         | 35 |
| HRP STONE SLATE DK            | 32 |
| HRP SQUARES GEOMETRIC SLATE   | 32 |
| HRP SQUARES GEOMETRIC WOOD    | 33 |
| HRP SQUARES INDUS SEAL        | 34 |
| HRP TRIANGLE STRIP BROWN      | 33 |
| HRP WAVELOCK COTTO            | 33 |
| HRP WAVELOCK GRIGIO CREMA     | 35 |
| HRP WAVELOCK MULTI            | 36 |

## 300x300mm | PAVERS

|                  |    |
|------------------|----|
| GARDENA GRIS     | 38 |
| HEXA CARAMÉ      | 41 |
| HEXA DOVE        | 41 |
| HEXA EARTHY      | 42 |
| HEXA HAZEL       | 41 |
| HEXA IRON        | 42 |
| HEXA NERO        | 38 |
| HEXA SAND        | 41 |
| HEXA SHADOW      | 38 |
| HEXA SKY         | 42 |
| HULK GRIS        | 38 |
| HULK MULTI       | 42 |
| HULK SANDUNE     | 40 |
| KASO COFFEE      | 37 |
| KASO COTTO       | 40 |
| KASO EARTH       | 37 |
| KASO GRIS        | 37 |
| KASO MULTI       | 42 |
| NEBULA CAFE      | 40 |
| NEBULA GRIS      | 37 |
| NEBULA MULTI     | 40 |
| NEBULA SANDUNE   | 40 |
| ODP STONEX BROWN | 40 |
| ODP STONEX MULTI | 42 |
| RIBBED BROWN     | 42 |

|                       |    |
|-----------------------|----|
| RIBBED COTTO          | 40 |
| RIBBED GRIS           | 37 |
| RIBBED IVORY          | 40 |
| RIBBED MULTI          | 42 |
| STRIP COTTO           | 40 |
| SUBWAY ANTIQUE COPPER | 40 |
| SUBWAY BROWN          | 40 |
| SUBWAY GRIS           | 38 |
| SUBWAY SANDUNE        | 40 |

## 300x300mm | Step Tiles

|                         |    |
|-------------------------|----|
| HLP LEVEL CHARCOAL GRY  | 44 |
| HLP LEVEL GRANITE BLACK | 45 |
| HLP LEVEL GRANITE GREY  | 45 |
| HLP LEVEL NEBULA BEIGE  | 48 |
| HLP LEVEL NEBULA BROWN  | 48 |
| HLP LEVEL OAK WOOD      | 46 |
| HSP STEP CHARCOAL GRY   | 44 |
| HSP STEP GRANITE BLACK  | 45 |
| HSP STEP GRANITE GREY   | 45 |
| HSP STEP NEBULA BEIGE   | 48 |
| HSP STEP NEBULA BROWN   | 48 |
| HSP STEP OAK WOOD       | 46 |
| NEBULA MULTI            | 47 |
| NEBULA SANDUNE          | 47 |
| STEP MOSAIC CHIPS       | 47 |

## 300x300mm | Cool Tiles

|                     |    |
|---------------------|----|
| HULK COOL WHITE     | 50 |
| PAV COOL TILE WHITE | 50 |

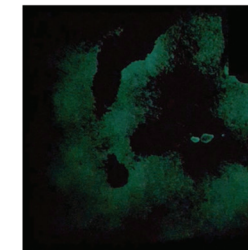


Listed on BSE (530365) for 20+ years.  
And also on NSE (ORIENTBELL).

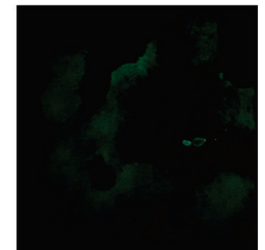




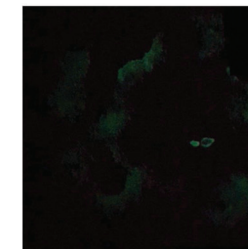
**#PapaJaisiProtection with Germfree Tiles. Work effectively between cleaning cycle.**



Zero Hour



After 8 Hours



After 16 Hours

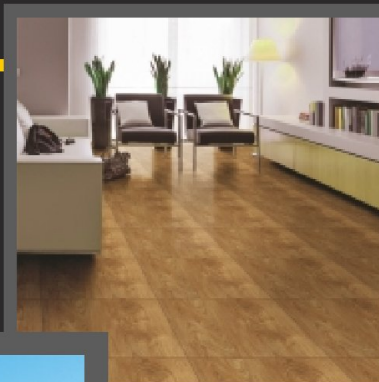


After 24 Hours

Effect of Orientbell Germfree Tiles on a germ Colony as seen under a microscope with the help of luminescent bio makers

Available in wide range of colors, designs & sizes  
For details, contact us at:  +91 87507 33333 or  
Visit :[www.orientbell.com/germ-free-tiles](http://www.orientbell.com/germ-free-tiles)





**600x600mm**

**GERM FREE FOREVER TILES**



## GREY

- 600x600mm
- Matte Finish Marble
- GFT + FT Tiles
- Plant:HSK



R



G5  
F4  
R3

600x600mm |  
GFT FEDARO GREY FT

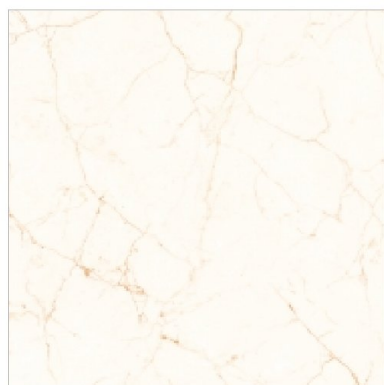
Preview Shown: GFT FEDARO GREY FT





## BEIGE & BROWN

- 600x600mm
- Matte Finish Marble
- GFT + FT Tiles
- Plant:HSK



G5  
F4  
R4

600x600mm |  
GFT BHF SOFTMARBO CREMA FT



G5  
F4  
R3

600x600mm |  
GFT BDM FRANJO IVORY FT



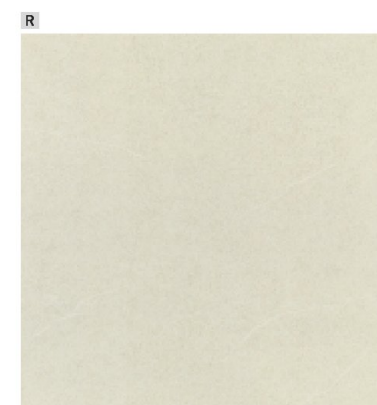
Preview Shown: GFT BHF SOFTMARBO CREMA FT





## BEIGE & BROWN

600x600mm  
Matte Finish Marble  
GFT + FT Tiles  
Plant: HSK



600x600mm |  
GFT FEDARO IVORY FT

G5  
F4  
R3



600x600mm |  
GFT FEDARO BROWN FT

G5  
F4  
R3

Preview Shown: GFT FEDARO BROWN FT & HWG RIOS BROWN LT



## BEIGE & BROWN

600x600mm

Matte Finish Stylized

GFT + FT Tiles

Plant:HSK



G5  
F1  
R1

600x600mm |  
GFT BHF GEOMETRIC SHAPES WOOD FT



G5  
F1  
R1

600x600mm |  
GFT BHF WOODEN FRAME MULTI FT



G5  
F1  
R1

600x600mm |  
GFT BHF BEAD SQUARE WOOD FT



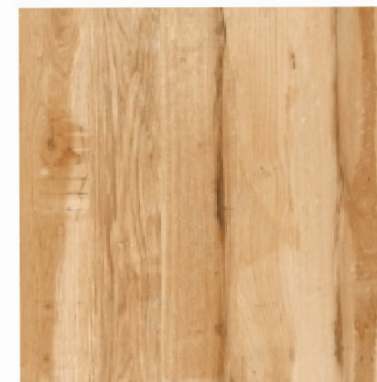




Preview Shown: GFT BDW KOA PLANK BROWN FT

## BEIGE & BROWN

600x600mm  
Matte Finish Wood  
GFT + FT Tiles  
Plant: HSK



G5  
F2  
R2

600x600mm |  
GFT BHF RIO WOOD FT

DLX



G5  
F2  
R2

600x600mm |  
GFT BDW VORTEX WOOD BROWN FT

DLX P



G5  
F4  
R4

600x600mm |  
GFT BDW HOOVER BROWN FT

DLX P



G5  
F4  
R4

600x600mm |  
GFT BDW MAGIC WOOD BROWN FT

EXL P



G5  
F2  
R2

600x600mm |  
GFT BDW KOA PLANK BROWN FT



## BEIGE & BROWN

600x600mm  
Matte Finish Wood  
GFT + FT Tiles  
Plant:HSK



G5  
F1  
R1

600x600mm |  
GFT BHF WOOD MULTI STRIPES FT



G5  
F3  
R3

600x600mm |  
GFT BDW WALNUT WOOD FT



G5  
F1  
R1

600x600mm |  
GFT BHF ALDER WOOD MULTI FT



G5  
F1  
R1

600x600mm |  
GFT BDC WOOD SQUARE BEIGE FT



Preview Shown: GFT BHF ALDER WOOD MULTI FT & HWH RIOS BAR HL







## BEIGE & BROWN

600x600mm  
Matte Finish Wood  
GFT + FT Tiles  
Plant:HSK



EXL P



G5  
F2  
R2

600x600mm |  
GFT BDW RUBRA STRIP MULTI FT

EXL P



G5  
F2  
R2

600x600mm |  
GFT BDW RUBRA STRIP BROWN FT

EXL



G5  
F1  
R1

600x600mm |  
GFT BDW ALDER BROWN FT

EXL P



600x600mm |  
GFT BDW TEXAS BROWN FT

EXL P



G5  
F4  
R4

600x600mm |  
GFT BDW ALASKA WOOD NATURAL FT



Preview Shown: GFT BDW ALDER BROWN FT





**395x395mm**

**CERAMIC FLOOR TILES**

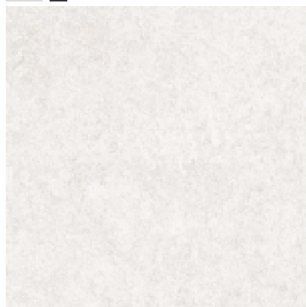


## GREY

- 395x395mm
- Matte Finish Cement
- Ceramic Tiles
- Plant:HSK



EXL P



G4  
F4  
R4

395x395mm | ODM VESTA GREY

EXL P



G4  
F4  
R4

395x395mm | ODM VESTA SLATE



Preview Shown: ODM VESTA GREY & ODM VESTA SLATE





Preview Shown: ODM GALAXY BLACK

**BLACK**

395x395mm  
Matte Finish Texture  
Ceramic Tiles  
Plant:HSK



DLX



G4  
F2  
R2

395x395mm |  
ODM GALAXY BLACK



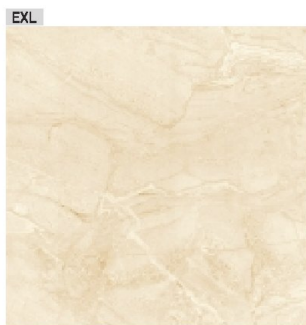
## BEIGE & BROWN

395x395mm  
Matte Finish  
Ceramic Tiles  
Plant:HSK



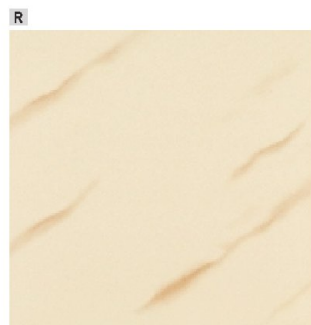
395x395mm |  
ODM PLAIN IVORY

G4  
F1  
R1



395x395mm |  
ODM MADURA IVORY

G4  
F1  
R1



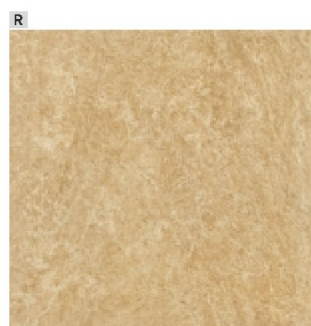
395x395mm | MILO

G4  
F1  
R1



395x395mm |  
ODM PAVONA BEIGE

G4  
F1  
R1



395x395mm |  
ODM DENMARK CREMA

G4  
F4  
R4



Preview Shown: ODM MADURA IVORY & ODM DENMARK COFFEE





Preview Shown: ODM DENMARK COFFEE

## BEIGE & BROWN

395x395mm  
Matte Finish  
Ceramic Tiles  
Plant:HSK

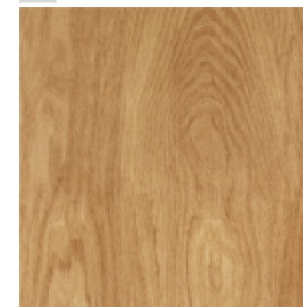


DLX P



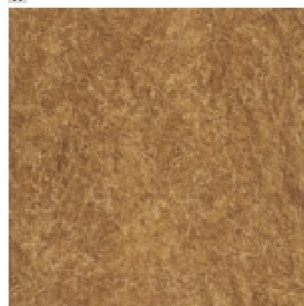
395x395mm |  
ODM HOOVER BROWN

EXL



395x395mm |  
ODM IROKO RW WOOD

R



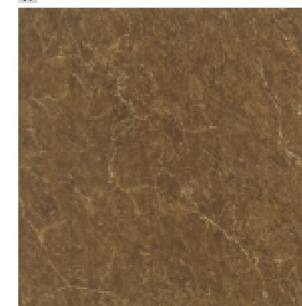
395x395mm |  
ODM GENOVA BEIGE

R



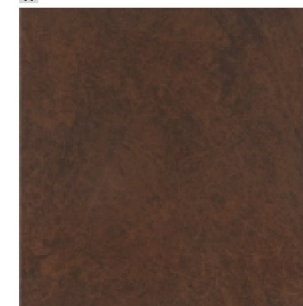
395x395mm |  
ODM SPRING BROWN

R



395x395mm |  
ODM DENMARK COFFEE

R



395x395mm |  
ODM NAPOLI BROWN



## BEIGE & BROWN

395x395mm  
Matte Finish  
Ceramic Tiles  
Plant:HSK



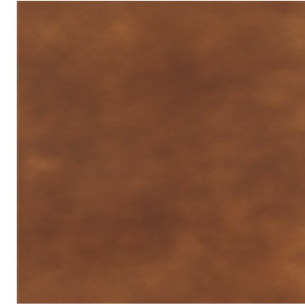
EXL P



G4  
F4  
R4

395x395mm |  
ODM VESTA BROWN

R



G4  
F4  
R4

395x395mm |  
ODM CLOUDY COPPER

EXL P



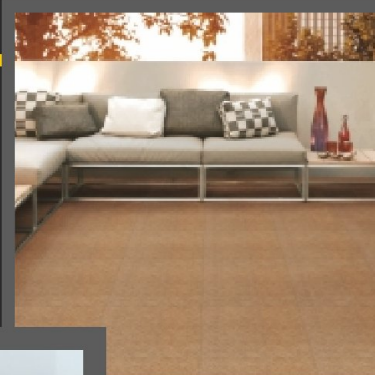
G4  
F4  
R4

395x395mm |  
ODM TANNER COTTO





cut  
**Edge**



**300x300mm**

**CERAMIC FLOOR TILES**



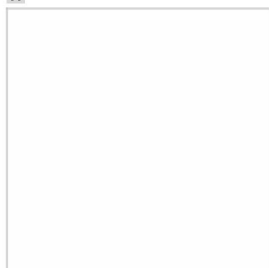
## WHITE

- 300x300mm EC
- Matte Finish
- Ceramic Tiles
- Plant:HSK



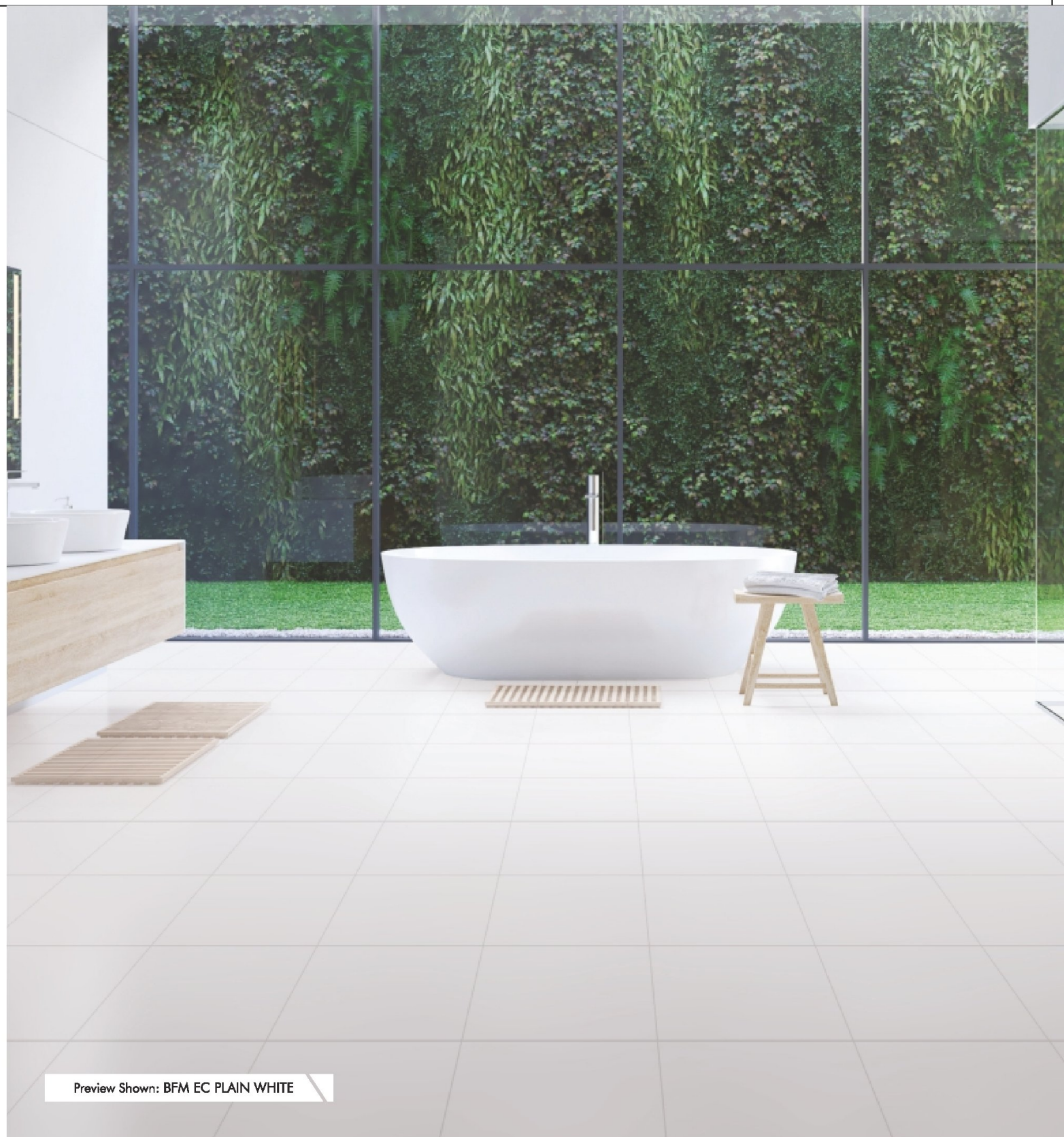
Edge<sup>cut</sup>

A



G4  
F1  
R1

300x300mm |  
BFM EC PLAIN WHITE



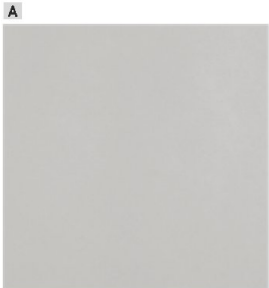




# GREY & BLACK

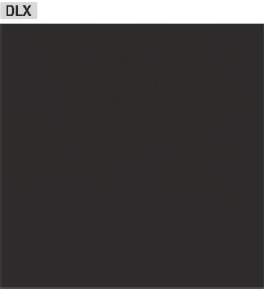
300x300mm EC  
Matte Finish  
Ceramic Tiles  
Plant:HSK

Edge<sup>cut</sup>



300x300mm |  
BFM EC PLAIN GREY

G4  
F1  
R1



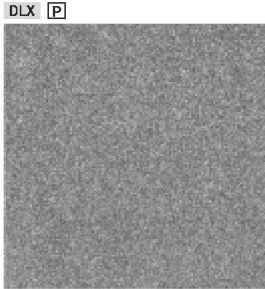
300x300mm |  
BFM EC NERO BLACK

G4  
F1  
R1



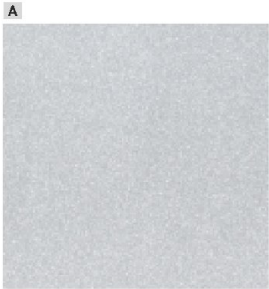
300x300mm |  
BDM EC CARPETO GRIS

G4  
F4  
R4



300x300mm |  
BFM EC DENIME NERO

G4  
F4  
R4



300x300mm |  
BFM EC QUARTZO GREY

G4  
F2  
R2



# BLUE

300x300mm EC  
Matte Finish  
Ceramic Tiles  
Plant:HSK



Edge

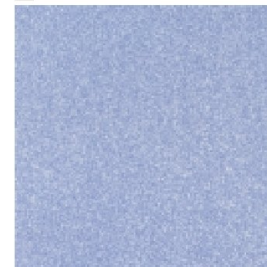
R P



G5  
F4  
R4

300x300mm |  
BDM EC GLITTER BLUE

A



G4  
F2  
R2

300x300mm |  
BFM EC QTZ BRIGHT BLUE

R



G4  
F1  
R1

300x300mm |  
BFM EC SORRENTO BLUE

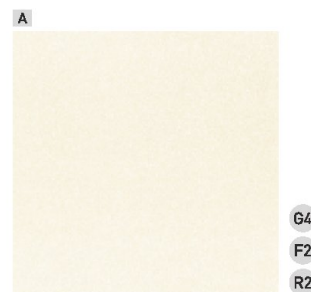




## BEIGE & BROWN

300x300mm EC  
Matte Finish  
Ceramic Tiles  
Plant:HSK

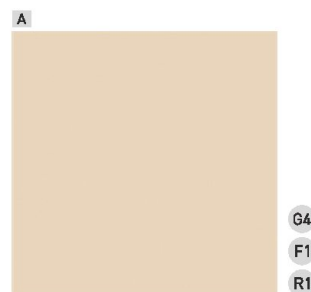
Edge<sup>cut</sup>



300x300mm |  
BFM EC QUARTZO CREAM



300x300mm |  
BFM EC QUARTZO IVORY



300x300mm |  
BFM EC PLAIN IVORY



300x300mm |  
BDM EC GLITTER BEIGE



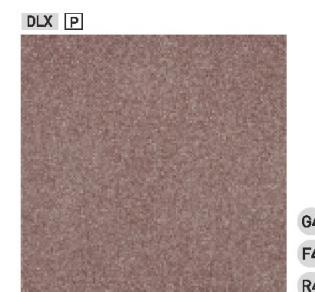
300x300mm |  
BDM EC CRUZE IVORY



300x300mm |  
BDM EC CURIO MULTI



300x300mm |  
BDM EC HOGGAR BROWN



300x300mm |  
BFM EC DENIME CAFE



300x300mm |  
BDM EC GLITTER BROWN



300x300mm |  
BFM EC SAND BROWN



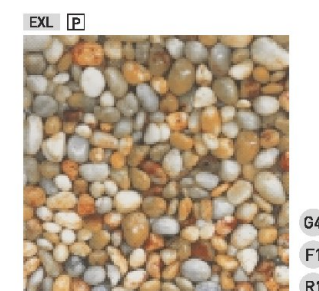
300x300mm |  
BDM EC FUJI NATURAL



300x300mm |  
BDM EC GOLDEN TEAK



300x300mm |  
BDM EC BRAZIL BRICK



300x300mm |  
BDM EC RIVER PEBBLE MULTI



## BEIGE & BROWN

300x300mm EC

Matte Finish

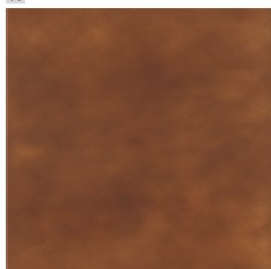
Ceramic Tiles

Plant:HSK



Edge<sup>cut</sup>

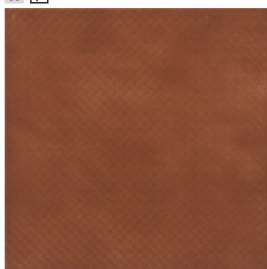
A



G4  
F4  
R4

300x300mm |  
BFM EC CLOUDY COPPER

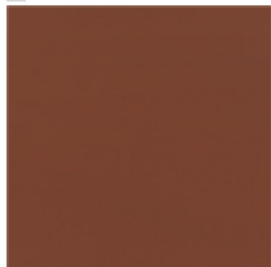
R P



G4  
F2  
R2

300x300mm |  
BFM EC PORTICO TAN

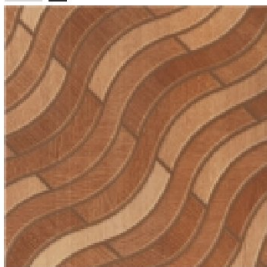
R



G4  
F1  
R1

300x300mm |  
BFM EC TERRA BROWN

DLX P



G4  
F1  
R1

300X300 MM |  
BDM EC BRAZIL WOOD



Preview Shown: BFM EC CLOUDY COPPER





# MOSAIC

300x300mm EC  
Matte Finish  
Ceramic Tiles  
Plant:HSK

Edge<sup>cut</sup>



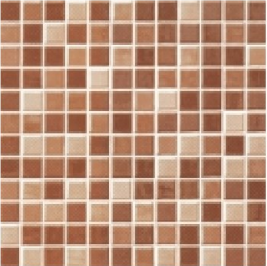
EXL P



G4  
F1  
R1

300x300mm |  
BDM EC NATA IVORY

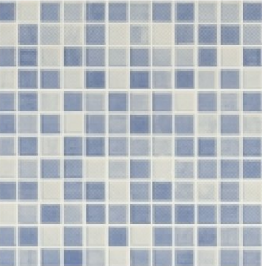
EXL P



G4  
F1  
R1

300x300mm |  
BDM EC MOSAIC BROWN

EXL P



G4  
F1  
R1

300x300mm |  
BDM EC MOSAIC BLUE

Preview Shown: BDM EC NATA IVORY



## PINK & GREEN

300x300mm EC  
Matte Finish  
Ceramic Tiles  
Plant:HSK

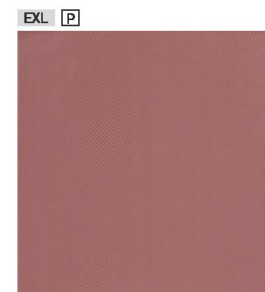


Edge<sup>cut</sup>



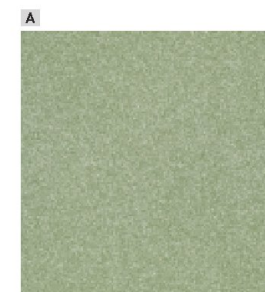
300x300mm |  
BFM EC QUARTZO PINK

G4  
F2  
R2



300x300mm |  
BFM EC GAQARD MAGENTA

G4  
F2  
R2



300x300mm |  
BFM EC QUARTZO GREEN

G4  
F2  
R2

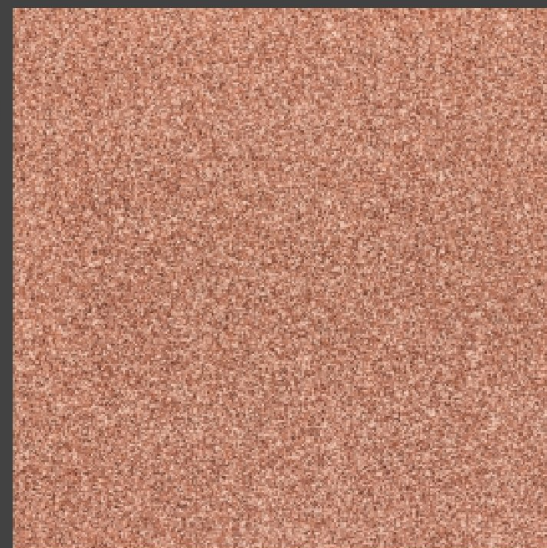




Edge<sup>cut</sup>

ANTI SKID TILES

300x300mm





## GREY

- 300x300mm EC
- Matte Finish Anti Skid
- Ceramic Tiles
- Plant:HSK



Edge

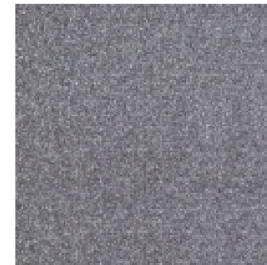
A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC SILVER

A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC SLATE







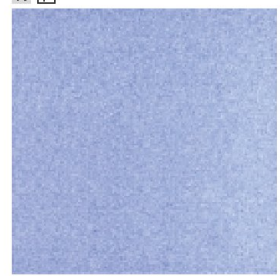
**BLUE**

300x300mm EC  
Matte Finish Anti Skid  
Ceramic Tiles  
Plant:HSK

Edge<sup>cut</sup>



A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC BLUE

Preview Shown: BFM ANTI SKID EC BLUE



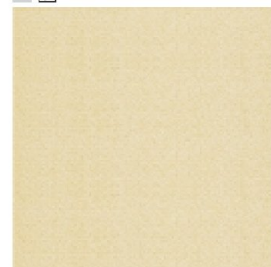
## BEIGE & BROWN

- 300x300mm EC
- Matte Finish Anti Skid
- Ceramic Tiles
- Plant:HSK



Edge<sup>cut</sup>

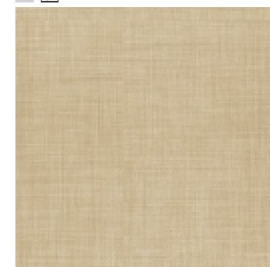
A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC IVORY

R P



G4  
F4  
R4

300x300mm |  
BDM ANTI SKID EC  
FUSION IVORY

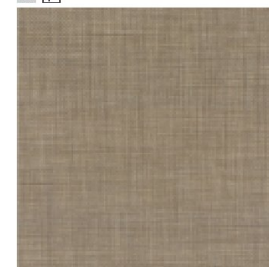
R P



G4  
F4  
R4

300x300mm |  
BDM ANTI SKID EC  
FUSION BROWN

R P



G4  
F4  
R4

300x300mm |  
BDM ANTI SKID EC  
FUSION COFFEE

A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC WENGE







Preview Shown: BFM ANTI SKID EC BROWN

## BEIGE & BROWN

300x300mm EC  
Matte Finish Anti Skid  
Ceramic Tiles  
Plant:HSK

Edge<sup>cut</sup>



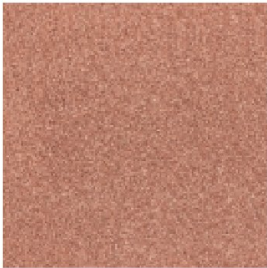
A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC BROWN

A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC COFFEE  
BROWN



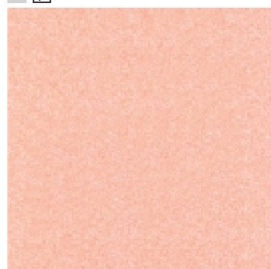
## PINK

- 300x300mm EC
- Matte Finish Anti Skid
- Ceramic Tiles
- Plant:HSK



Edge

A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC PINK







# GREEN

300x300mm EC  
Matte Finish Anti Skid  
Ceramic Tiles  
Plant:HSK

Edge<sup>cut</sup>



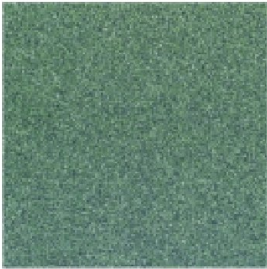
A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC PISTA

A P



G4  
F2  
R2

300x300mm |  
BFM ANTI SKID EC GREEN

Preview Shown: BFM ANTI SKID EC PISTA





**RHINO PAVERS | 400x400mm**

**PAVERS | 300x300mm**

**ULTIMATE STRENGTH & PERFORMANCE**





Preview Shown: HRP COBBLE STONE RAKED GREY

# GREY

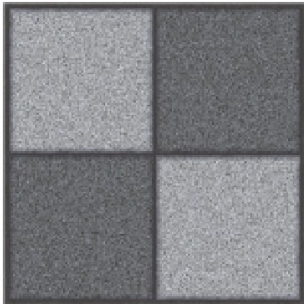
400x400mm  
Matte Finish  
Pavers  
Plant:HSK



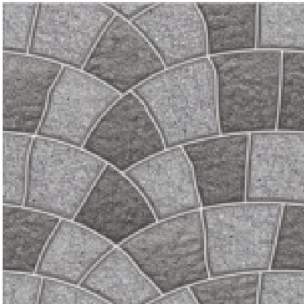
400x400mm I  
HRP COBBLE STONE RAKED GREY



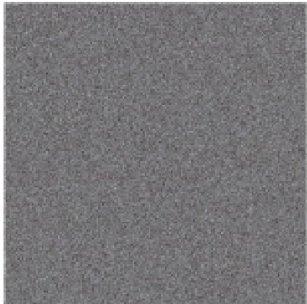
400x400mm I  
HRP SQUARES GEOMETRIC SLATE



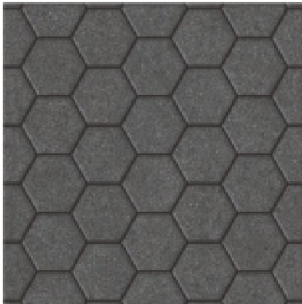
400x400mm I  
HRP COBBLE STONE SLATE



400x400mm I  
HRP SHELL STONE GREY



400x400mm I  
HRP STONE SLATE DK

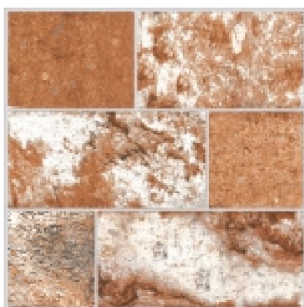


400x400mm I  
HRP STONE HEXAGON SLATE DK



## BEIGE & BROWN

- 400x400mm
- Matte Finish
- Pavers
- Plant:HSK



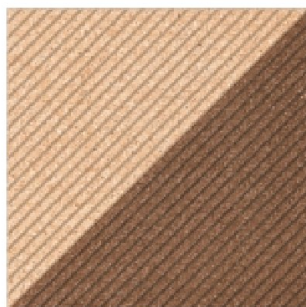
400x400mm |  
HRP PLANK RUSTIC BEIGE



400x400mm |  
HRP COBBLE SPANISH MOSAIC



400x400mm |  
HRP WAVELOCK COTTO



400x400mm |  
HRP TRIANGLE STRIP BROWN



400x400mm |  
HRP SQUARES GEOMETRIC WOOD



Preview Shown: HRP TRIANGLE STRIP BROWN





Preview Shown: HRP COBBLE STONE MULTI

# BEIGE & BROWN

400x400mm  
Matte Finish  
Pavers  
Plant: HSK



400x400mm |  
HRP ROCK NATURAL



400x400mm |  
HRP COBBLE STONE NATURAL



400x400mm |  
HRP COBBLE STONE MULTI



400x400mm |  
HRP SQUARES INDUS SEAL



## MULTI

400x400mm  
Matte Finish  
Pavers  
Plant:HSK



400x400mm |  
HRP SHELL STONE MULTI



400x400mm |  
HRP ARCH STONE MULTI



400x400mm |  
HRP CUBE MULTI



400x400mm |  
HRP WAVELOCK GRIGIO CREMA



Preview Shown: HRP SHELL STONE MULTI





Preview Shown: HRP Stone Hexagon Brown Multi

# MULTI

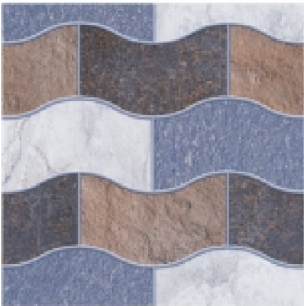
400x400mm  
Matte Finish  
Pavers  
Plant: HSK



400x400mm |  
HRP Stone Hexagon  
Brown Multi



400x400mm |  
HRP Plank Wood Wenge



400x400mm |  
HRP WaveLock Multi



400x400mm |  
HRP Plank Multi

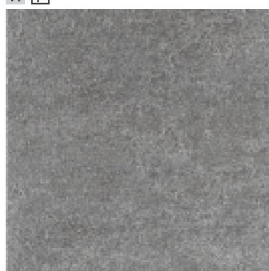


## GREY

300x300mm  
Matte Finish  
Pavers  
Plant:HSK



A P



G5  
F4  
R4

300x300mm |  
NEBULA GRIS



Preview Shown: KASO EARTH

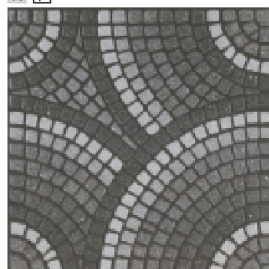
A P



G5  
F1  
R1

300x300mm |  
KASO EARTH

A P



G5  
F1  
R1

300x300mm |  
KASO GRIS

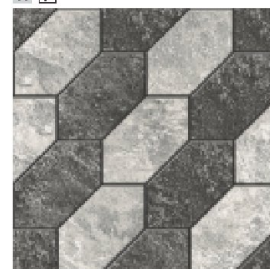
A P



G5  
F1  
R1

300x300mm |  
KASO COFFEE

A P



G5  
F2  
R2

300x300mm |  
RIBBED GRIS





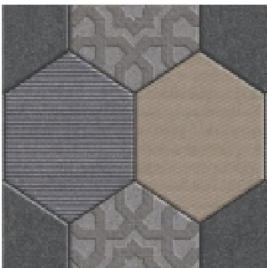
Preview Shown: SUBWAY GRIS

# GREY

300x300mm  
Matte Finish  
Pavers  
Plant: HSK



300x300mm |  
HEXA SHADOW



300x300mm |  
HEXA NERO

F1  
R1



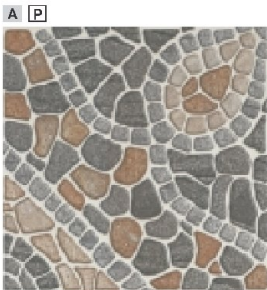
300x300mm |  
SUBWAY GRIS

G5  
F2  
R2



300x300mm |  
HULK GRIS

G5  
F1  
R1



300x300mm |  
GARDENA GRIS

G5  
F1  
R1

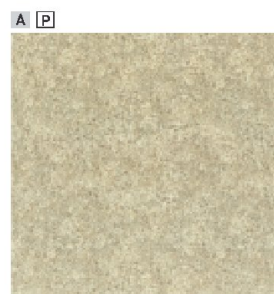






## BEIGE & BROWN

300x300mm  
Matte Finish  
Pavers  
Plant: HSK



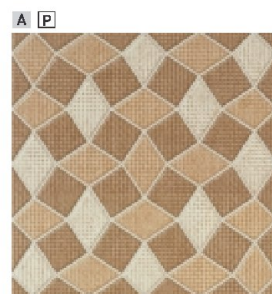
300x300mm |  
NEBULA MULTI

G5  
F4  
R4



300x300mm |  
NEBULA SANDUNE

G5  
F4  
R4



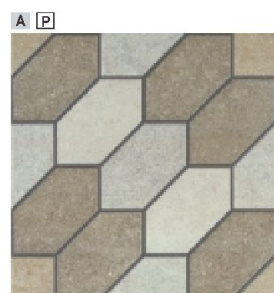
300x300mm |  
HULK SANDUNE

G5  
F1  
R1



300x300mm |  
SUBWAY SANDUNE

G5  
F2  
R2



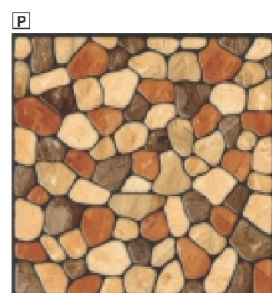
300x300mm |  
RIBBED IVORY

G5  
F2  
R2



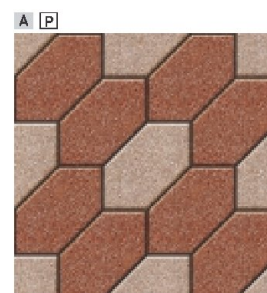
300x300mm |  
STRIP COTTO

G5  
F1  
R1



300x300mm |  
ODP STONEX BROWN

G5  
F1  
R1



300x300mm |  
RIBBED COTTO

G5  
F2  
R2



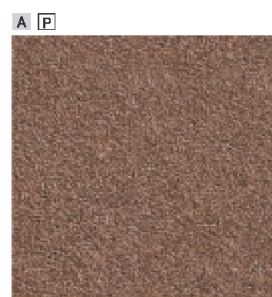
300x300mm |  
SUBWAY BROWN

G5  
F2  
R2



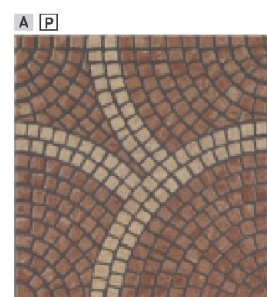
300x300mm |  
SUBWAY ANTIQUE COPPER

G5  
F2  
R2



300x300mm |  
NEBULA CAFE

G5  
F4  
R4



300x300mm |  
KASO COTTO

G5  
F1  
R1



## BEIGE & BROWN

300x300mm

Matte Finish

Pavers

Plant:HSK



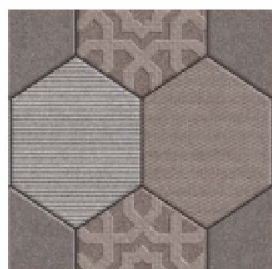
F1  
R1

300x300mm |  
HEXA HAZEL



F1  
R1

300x300mm |  
HEXA CARAMEL



F1  
R1

300x300mm |  
HEXA DOVE



F1  
R1

300x300mm |  
HEXA SANDUNE

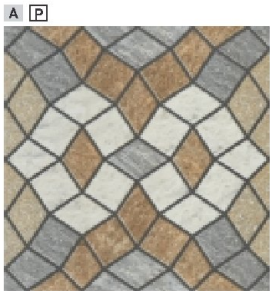


Preview Shown: HEXA DOVE



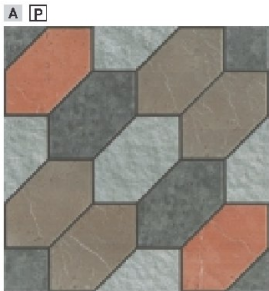
# MULTI

300x300mm  
Matte Finish  
Pavers  
Plant:HSK



300x300mm |  
HULK MULTI

G5  
F1  
R1



300x300mm |  
RIBBED MULTI

G5  
F2  
R2



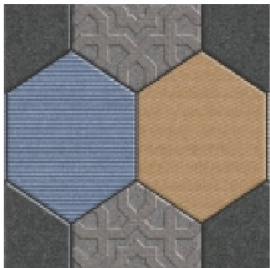
300x300mm |  
HEXA SKY

F1  
R1



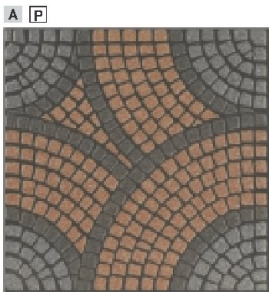
300x300mm |  
HEXA IRON

F1  
R1



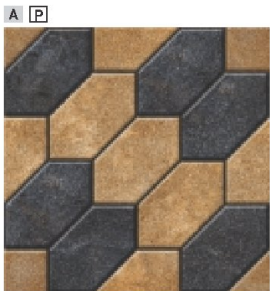
300x300mm |  
HEXA EARTHY

F1  
R1



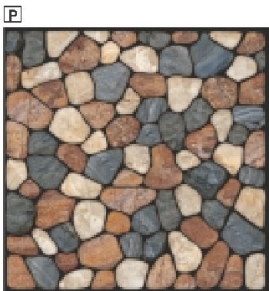
300x300mm |  
KASO MULTI

G5  
F1  
R1



300x300mm |  
RIBBED BROWN

G5  
F2  
R2



300x300mm |  
ODP STONEX MULTI

G5  
F1  
R1



Preview Shown: HULK MULTI



# ASCEND

STEP UP  
YOUR  
STYLE  
QUOTIENT!





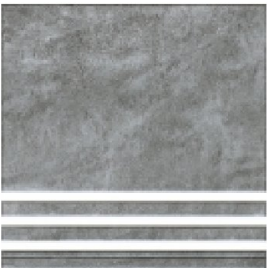
**GREY**

300x300mm  
Step Pavers  
Ceramic Tiles  
Plant:HSK

**ASCEND**



300X300mm |  
HLP LEVEL CHARCOAL GREY



300x300mm |  
HSP STEP CHARCOAL GREY

Preview Shown: HLP LEVEL CHARCOAL GREY & HSP STEP CHARCOAL GREY



## GREY/ BLACK

300X300mm

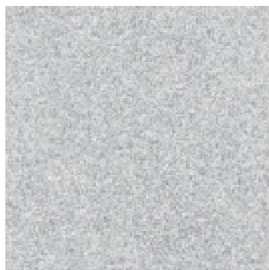
Matte Finish

Step Pavers

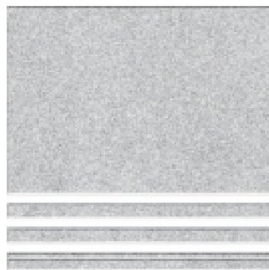
Plant:HSK



**ASCEND**



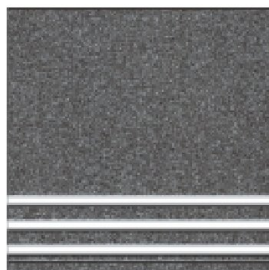
300x300mm |  
HLP LEVEL GRANITE GREY



300x300mm |  
HSP STEP GRANITE GREY



300X300mm |  
HLP LEVEL GRANITE BLACK



300x300mm |  
HSP STEP GRANITE BLACK



Preview Shown: HLP LEVEL GRANITE GREY, HSP STEP GRANITE GREY, HLP LEVEL GRANITE BLACK & HSP STEP GRANITE BLACK





**BEIGE & BROWN**

300x300mm  
Matte Finish  
Step Pavers  
Plant:HSK

**ASCEND**



300x300mm |  
HLP LEVEL OAK WOOD



300x300mm |  
HSP STEP OAK WOOD

Preview Shown: HLP LEVEL OAK WOOD & HSP STEP OAK WOOD



## BEIGE & BROWN

300X300mm  
Matte Finish  
Step Pavers  
Plant:HSK



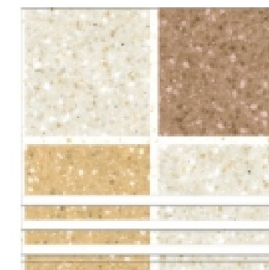
**ASCEND**



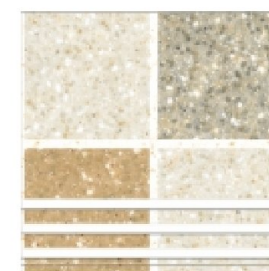
300X300mm |  
NEBULA MULTI



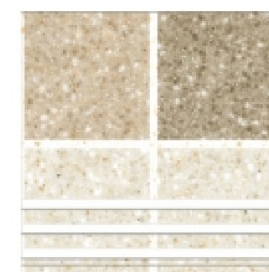
300x300mm |  
NEBULA SANDUNE



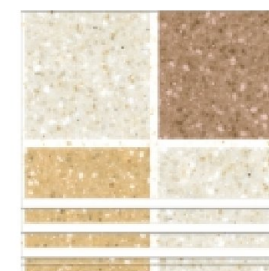
300x300mm |  
STEP MOSAIC CHIPS



FACE 1



FACE 2



FACE 3







**BEIGE & BROWN**

300x300mm  
Matte Finish  
Step Pavers  
Plant:HSK

**ASCEND**



300x300mm |  
HLP LEVEL NEBULA BEIGE



300x300mm |  
HSP STEP NEBULA BEIGE



300X300mm |  
HLP LEVEL NEBULA BROWN



300x300mm |  
HSP STEP NEBULA BROWN

Preview Shown: HLP LEVEL NEBULA BEIGE, HSP STEP NEBULA BEIGE, HLP LEVEL NEBULA BROWN & HSP STEP NEBULA BROWN





**5 Star Benefits  
with OBL Cool Tiles**

- ✔ **Comfortable Interiors**  
Room temperature lower by upto 8°C.
- ✔ **Environment Care**  
Green building norm complaint
- ✔ **Additional Advantage**  
Cooler Surface to Walk on.
- ✔ **Energy Saving**  
Lesser electricity consumption by AC.
- ✔ **Innovative Use**  
Security Cabin, Water Tanks (outer Wall)

**APPLICATION AREAS**

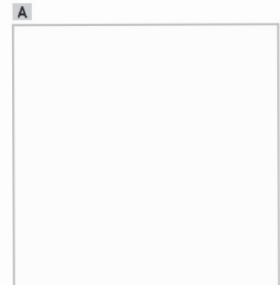
- |                   |           |
|-------------------|-----------|
| Building Terraces | Pavements |
| Exterior Walls    | Balconies |





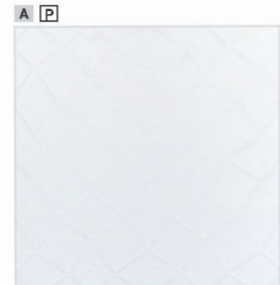
**COOL TILE**

300x300mm  
Matte Finish  
Paver Cool Tiles  
Plant:HSK



G5  
F1  
R1

300x300mm |  
PAV COOL TILE WHITE



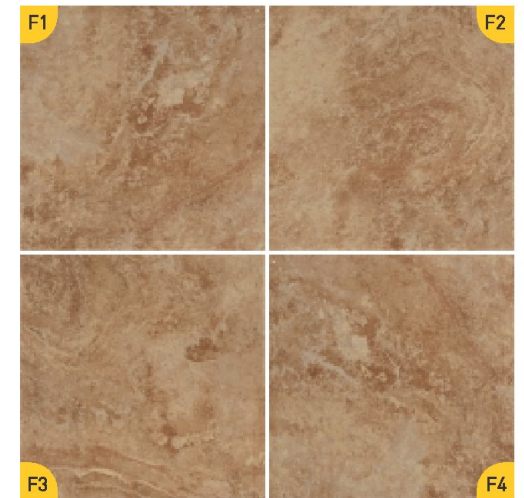
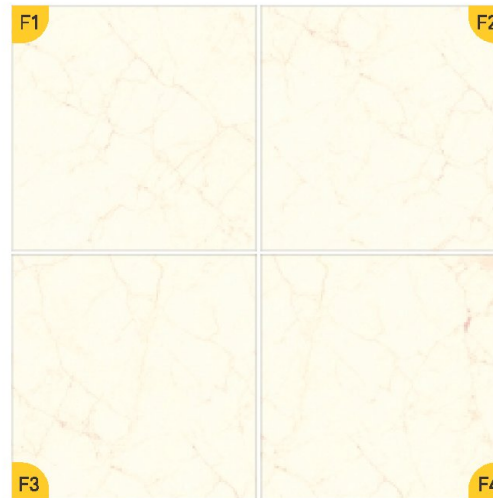
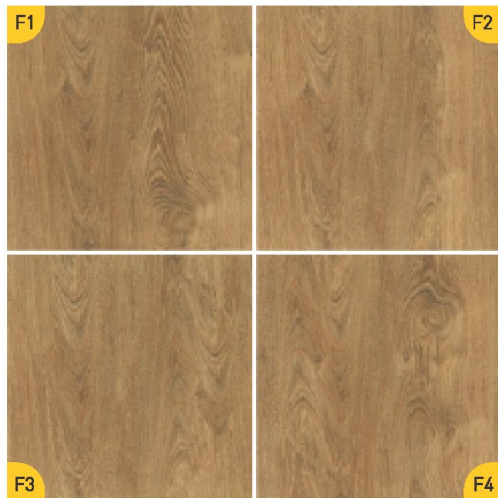
G5  
F1  
R1

300x300mm |  
HULK COOL WHITE

Preview Shown: PAV COOL TILE-WHITE

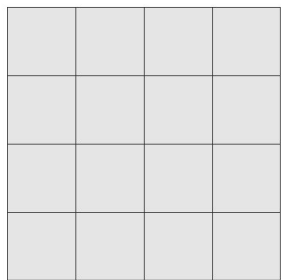


## Tile Design & Faces

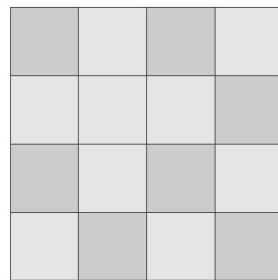


Each tile design is printed with some variations on different individual tiles. Variation may be in grain structure or how texture appears in the design. This gives a natural look to the surface where tiles are laid and avoids a small repetitive pattern. The number of variations in a design are called faces of a tile

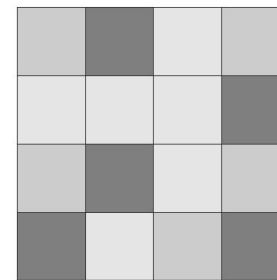
## Tile Randomness/Variation



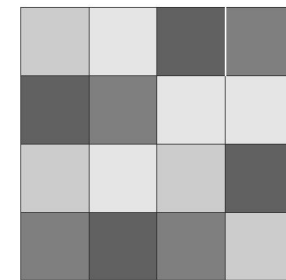
R1-No Variation



R2-Slight Variation



R3-More Variation



R-4 Most Variation

Randomness is a parameter to indicate the scale of difference in different faces of a tile design. Small variations in faces are indicated with R1 and high variation by R4



# ORIENT BELL TILE BOUTIQUE

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(Opposite Holiday Inn Hotel) Ernakulam By Pass Road, Cochin-682 031  
Tel.: +91 97457 68058

## COIMBATORE

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Coimbatore-641 002,  
Tel.: +91 89799 41666

## DEHRADUN

Duggal Complex (Near Kamla Palace Hotel), GMS Road,  
Dehradun-248 001,  
Tel.: +91 97197 01064

## KOLKATA

8/1, Burdwan Road, Allpore, Kolkata-700 027,  
Tel.: +91 33 4068 4046/7

## LUCKNOW

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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

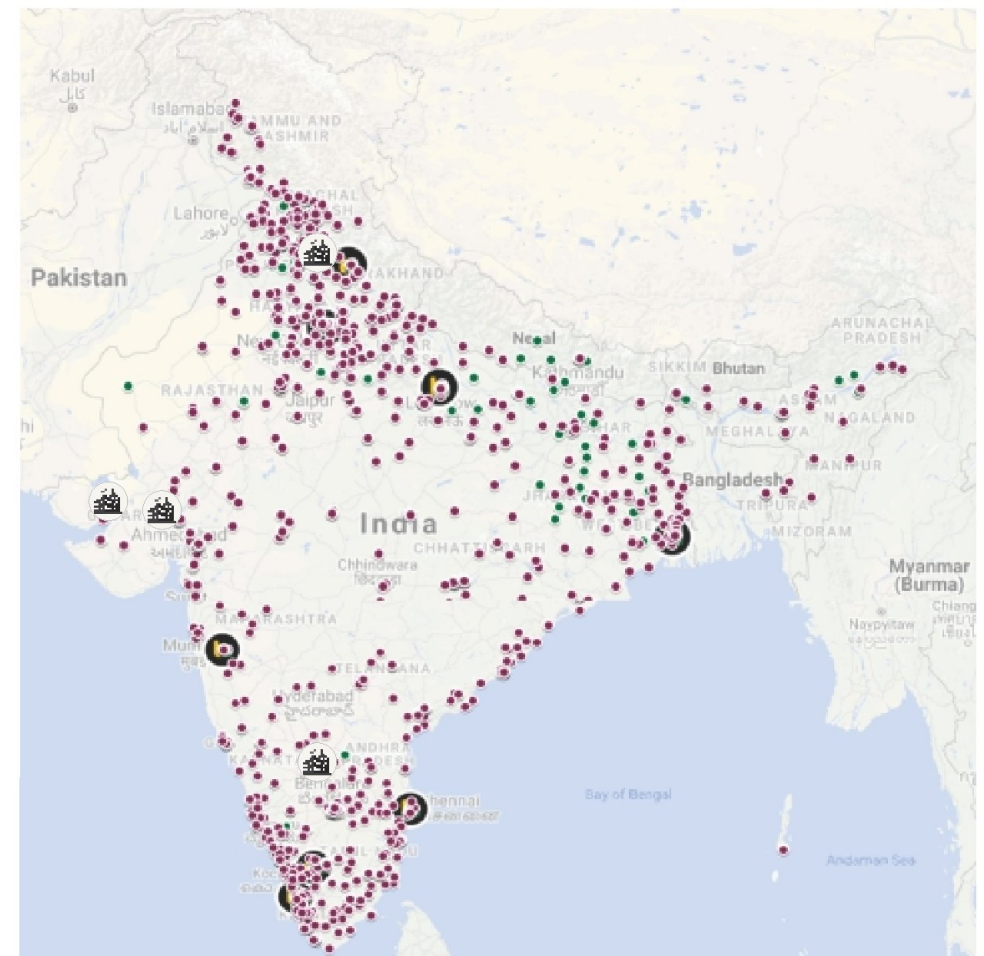
Shop No. 3 and 4, A Tower Vega Centre, C.T.S No. 710,  
Final Plot No. 401/1, Shankarasheth Road,  
Gultekdi, Swargate, Pune-411 037  
Tel.: +91 73910 72247

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# TECHNICAL SPECIFICATIONS

## Forever & Germfree Tiles



### Packing Details

| Size<br>( In mm. ) | No. of Tiles<br>Per Carton | Covered Area Per Carton |                |
|--------------------|----------------------------|-------------------------|----------------|
|                    |                            | ( In Sq. Mtr. )         | ( In Sq. Ft. ) |
| 600x600            | 4                          | 1.44                    | 15.5           |

| Characteristics                                                                                         | Standard as Per IS 15622:2017 Group BIIa                                                                             | OBL Norms  | Testing Methods  |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------|------------------|
| Dimension & Surface Quality                                                                             |                                                                                                                      |            |                  |
| Deviation in Length & Width                                                                             | ± 0.1 %                                                                                                              | ±0.05%     | IS 13630 Part 1  |
| Deviation in Thickness                                                                                  | ± 5.0 %                                                                                                              | ±3.0%      |                  |
| Straightness of Sides                                                                                   | ± 0.1 %                                                                                                              | ±0.1%      |                  |
| Rectangularity                                                                                          | ± 0.1 %                                                                                                              | ±0.1%      |                  |
| Surface Flatness                                                                                        | ± 0.5 %                                                                                                              | ± 0.2 %    |                  |
| Surface Quality                                                                                         | Min 95% of the tiles shall be free from visible defects that would Impair the appearance of a major area of the tile | Conforms   |                  |
| Physical Properties                                                                                     |                                                                                                                      |            |                  |
| Water Absorption %                                                                                      | 3-6%                                                                                                                 | 3-6%       | IS 13630 Part 2  |
| Modulus of Rupture in N/mm <sup>2</sup>                                                                 | Avg 22, Individual 27 Min                                                                                            | Min 28 N   | IS 13630 Part 6  |
| Breaking Strength N                                                                                     | 600 Min for thickness < 7.5mm,<br>1000 Min for thickness ≥ 7.5 mm                                                    | 1000 N Min |                  |
| Moisture Expansion                                                                                      | 0.02, Max                                                                                                            | 0.02 Max   | IS 13630 Part 3  |
| Scratch Hardness (Moh's Scale)                                                                          | 5, Min                                                                                                               | 8          | IS 13630 Part 13 |
| Resistance to Surface Abrasion of glazed tiles<br>Class I to V (Applicable for floor applications only) | Class II, Min                                                                                                        | Class IV   | IS 13630 Part 11 |
| Linear thermal expansion Co-efficient                                                                   | 9x10 <sup>-6</sup> , Max                                                                                             | Conforms   | IS 13630 Part 4  |
| Thermal Shock Resistance                                                                                | 10 Cycles, Min                                                                                                       | Passed     | IS 13630 Part 5  |
| Crazing Resistance                                                                                      | 4 Cycles at 7.5 Bar, Min                                                                                             | Passed     | IS 13630 Part 9  |
| Impact Resistance                                                                                       | 0.55, Min                                                                                                            | 0.6        | IS 13630 Part 14 |
| Frost Resistance                                                                                        | Required if agreed to between<br>manufacturer and purchaser                                                          | Resistant  | IS 13630 Part 10 |
| Bulk density g/cc                                                                                       | 2.0, Min                                                                                                             | 2.0, Min   | IS 13630 Part 2  |
| Chemical Properties                                                                                     |                                                                                                                      |            |                  |
| Stain Resistance Glazed tiles                                                                           | Class I, Min                                                                                                         | Class -1   | IS 13630 Part 8  |
| Resistance to household chemicals                                                                       | Class AA, Min                                                                                                        | Class AA   |                  |
| Resistance to acids and alkalis                                                                         | Class AA, Min                                                                                                        | Class AA   |                  |



# TECHNICAL SPECIFICATIONS

## Ceramic Tiles

| Packing Details              |              |                         |                |
|------------------------------|--------------|-------------------------|----------------|
| Size                         | No. of Tiles | Covered Area Per Carton |                |
| ( In mm. )                   | Per Carton   | ( In Sq. Mtr. )         | ( In Sq. Ft. ) |
| 395x395                      | 6            | 0.94                    | 10.08          |
| 300x300 Edge Cut             | 10           | 0.87                    | 9.36           |
| 300x300 Edge Cut (Anti Skid) | 10           | 0.87                    | 9.36           |

| As Per Indian Standards ( IS 15622:2017) Group B IIa                                    |                                                      |                                                               |           |                                      |
|-----------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|-----------|--------------------------------------|
| Characteristics                                                                         | Testing Methods                                      | Required as per IS 15622:2017<br>3 < E ≤ 6 % ( Group B II a)  |           | OBL Norms                            |
| <b>Dimension &amp; Surface Quality</b>                                                  |                                                      | Unrectified                                                   | Rectified |                                      |
| Deviation in Length & Width                                                             | IS 13630 Part 1/<br>ISO 10545-2                      | ± 0.4 %                                                       | ± 0.1 %   | Conforms                             |
| Deviation in Thickness                                                                  |                                                      | ± 5.0 %                                                       |           | ±4.0%                                |
| Straightness of Sides                                                                   |                                                      | ± 0.3 %                                                       | ± 0.1 %   | Conforms                             |
| Rectangularity                                                                          |                                                      | ± 0.3 %                                                       | ± 0.1 %   | Conforms                             |
| Surface Flatness                                                                        |                                                      | ± 0.5 %                                                       |           | ± 0.3 % 😊😊                           |
| Surface Quality                                                                         |                                                      | Min. 95 % tiles should be free from visible defects           |           | Conforms                             |
| <b>Physical Properties</b>                                                              |                                                      |                                                               |           |                                      |
| Water Absorption                                                                        | IS 13630 Part 2/ ISO 10545-3                         | Avg 3 < E ≤ 6, Individual Max,6.2                             |           | 5-6%                                 |
| Modulus of Rupture in [N/mm <sup>2</sup> ]                                              | IS 13630 Part 6/ ISO 10545-4                         | Avg 22, Individual 20, Min                                    |           | >28 😊😊                               |
| Breaking Strength in N                                                                  |                                                      | < 7.5 mm thickness: 600, Min<br>≥ 7.5 mm thickness: 1000, Min |           | >1000/>600 😊😊                        |
| Moisture Expansion in mm/m                                                              | IS 13630 Part 3                                      | 0.03, Max                                                     |           | 0.02                                 |
| Scratch Hardness of Surface (Mohs)                                                      | IS 13630 Part 13                                     | 4, Min                                                        |           | Min 5                                |
| Resistance to Surface Abrasion of glazed tiles (Class I to V)                           | IS 13630 Part 11/ ISO 10545-7                        | Class II, Min                                                 |           | PEI Class 3-5 (depending on surface) |
| Co-efficient of Linear Thermal Expansion from ambient temperature to 100°C              | IS 13630 Part 4/ ISO 10545-8                         | 9x10 <sup>-6</sup> /°C, Max                                   |           | Conforms                             |
| Thermal Shock Resistance                                                                | IS 13630 Part 5                                      | 10 cycles, Min                                                |           | Passed                               |
| Crazing Resistance                                                                      | IS 13630 Part 9/ ISO 10545-9                         | 4 Cycles@7.5 bar, Min                                         |           | Passed 😊                             |
| Frost Resistance                                                                        | IS 13630 Part 10                                     | Required, if agreed                                           |           | NA                                   |
| Impact resistance- Coefficient of restitution                                           | IS 13630 Part 14                                     | 0.55, Min                                                     |           | Conforms                             |
| <b>Chemical Properties</b>                                                              |                                                      |                                                               |           |                                      |
| Stain Resistance                                                                        | IS 13630 Part 8/<br>ISO 10545-13 and<br>ISO 10545-14 | Class I, Min                                                  |           | Conforms                             |
| Resistance to household chemicals                                                       |                                                      | Class AA, Min                                                 |           | Conforms                             |
| Resistance to acids and alkalis (with exception of hydrofluoric acid and its compounds) |                                                      | Required, if agreed                                           |           | Min Class AA                         |

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.



# TECHNICAL SPECIFICATIONS

## Rhino Pavers

### Packing Details

| Size       | No. of Tiles | Covered Area Per Carton |                |
|------------|--------------|-------------------------|----------------|
| ( In mm. ) | Per Carton   | ( In Sq. Mtr. )         | ( In Sq. Ft. ) |
| 400x400    | 5            | 0.8                     | 8.61           |

| Characteristics                                                                                         | Standard as Per IS 15622:2017 Group B Ib                                                                             | OBL Actual Value                  | Testing Methods  |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| <b>Dimension &amp; Surface Quality</b>                                                                  |                                                                                                                      |                                   |                  |
| Deviation in Length & Width                                                                             | ± 0.1 %                                                                                                              | ±0.1%                             | IS 13630 Part 1  |
| Deviation in Thickness                                                                                  | ± 5.0 %                                                                                                              | ±4.0%                             |                  |
| Straightness of Sides                                                                                   | ± 0.1 %                                                                                                              | ±0.1%                             |                  |
| Rectangularity                                                                                          | ± 0.1 %                                                                                                              | ±0.1%                             |                  |
| Surface Flatness                                                                                        | ± 0.5 %                                                                                                              | ± 0.4 %                           |                  |
| Surface Quality                                                                                         | Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile | Conforms                          |                  |
| <b>Physical Properties</b>                                                                              |                                                                                                                      |                                   |                  |
| Water Absorption %                                                                                      | Average 3.0 < E ≤6.0%, individual 6.2% Max.                                                                          | 4.5% Max                          | IS 13630 Part 2  |
| Modulus of Rupture in N/mm <sup>2</sup>                                                                 | Avg 22, Individual 20 Min                                                                                            | 40.0 Max                          | IS 13630 Part 6  |
| Breaking Strength N                                                                                     | 600 Min for thickness < 7.5mm,<br>1000 Min for thickness ≥ 7.5 mm                                                    | Avg 2350                          |                  |
| Moisture Expansion                                                                                      | 0.02 Max                                                                                                             | 0.02 Max                          | IS 13630 Part 3  |
| Scratch Hardness (Moh's Scale)                                                                          | 5 Min                                                                                                                | 7 - 8 depends upon Design/surface | IS 13630 Part 13 |
| Resistance to Surface Abrasion of glazed tiles<br>Class I to V (Applicable for floor applications only) | Class II Min                                                                                                         | Class IV to V                     | IS 13630 Part 11 |
| Linear thermal expansion Co-efficient                                                                   | 7x10 <sup>-6</sup> max                                                                                               | Conforms                          | IS 13630 Part 4  |
| Thermal Shock Resistance                                                                                | 10 Cycles, Min                                                                                                       | Passed                            | IS 13630 Part 5  |
| Crazing Resistance                                                                                      | 4 Cycles at 7.5 Bar, Min                                                                                             | Passed                            | IS 13630 Part 9  |
| Impact Resistance                                                                                       | 0.55, Min                                                                                                            | >0.55                             | IS 13630 Part 14 |
| Coefficient of Friction                                                                                 | Manufacturer to declare value where required                                                                         | R12                               |                  |
| Frost Resistance                                                                                        | Required if agreed to between<br>manufacturer and purchaser                                                          | Conforms                          | IS 13630 Part 10 |
| Bulk density g/cc                                                                                       | 2.0, Min                                                                                                             | >2.1                              | IS 13630 Part 2  |
| <b>Chemical Properties</b>                                                                              |                                                                                                                      |                                   |                  |
| Stain Resistance Glazed tiles                                                                           | Class I, Min                                                                                                         | Class -1                          | IS 13630 Part 8  |
| Resistance to household chemicals                                                                       | Class AA, Min                                                                                                        | Class AA                          |                  |
| Resistance to acids and alkalis                                                                         | Class AA, Min                                                                                                        | Class AA                          |                  |



# TECHNICAL SPECIFICATIONS

## Vitreous Parking Tiles

### Packing Details

| Size                                           | No. of Tiles | Covered Area Per Carton |                |
|------------------------------------------------|--------------|-------------------------|----------------|
| ( In mm. )                                     | Per Carton   | ( In Sq. Mtr. )         | ( In Sq. Ft. ) |
| 300x300 (Cool Tile Pavers/Pavers/ Step Pavers) | 10           | 0.9                     | 9.68           |

### As per ISO 13006:2012 (Group B Ia) and as IS 15627:2017 (Group B Ib)

| Characteristics                                                                         | Testing Methods         | Required as per IS 15622:2017<br>0.08 < E ≤ 3 % (Group B b)   |           | OBL Values                |
|-----------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|-----------|---------------------------|
| <b>Dimension &amp; Surface Quality</b>                                                  |                         | Unrectified                                                   | Rectified |                           |
| Deviation in Length & Width                                                             | IS 13630 (Part 1):2006  | ± 0.4 %                                                       | ± 0.1 %   | ± 0.10 %                  |
| Deviation in Thickness                                                                  |                         | ± 5.0 %                                                       |           | ± 4.0 %                   |
| Straightness of Sides                                                                   |                         | ± 0.3 %                                                       | ± 0.1 %   | ± 0.10 %                  |
| Rectangularity                                                                          |                         | ± 0.3 %                                                       | ± 0.1 %   | ± 0.10 %                  |
| Surface Flatness                                                                        |                         | ± 0.5 %                                                       |           | ± 0.2 %                   |
| Surface Quality                                                                         |                         | Min. 95 % tiles should be free from visible defects           |           | Conforms                  |
| <b>Physical Properties</b>                                                              |                         |                                                               |           |                           |
| Water Absorption                                                                        | IS 13630 (Part 2):2006  | Avg 0.08<E ≤ 3, Individual 3.3, Max                           |           | Av < 3%                   |
| Modulus of Rupture in [N/mm <sup>2</sup> ]                                              | IS 13630 (Part 6):2006  | Avg 30, Individual 27, Min                                    |           | > 35                      |
| Breaking Strength in N                                                                  | IS 13630 (Part 6):2006  | < 7.5 mm thickness: 700, Min<br>≥ 7.5 mm thickness: 1100, Min |           | 1500 Min                  |
| Moisture Expansion in mm/m                                                              | IS 13630 (Part 3):2006  | 0.02, Max                                                     |           | Conforms                  |
| Scratch Hardness of Surface (Mohs)                                                      | IS 13630 (Part 13):2006 | 5, Min                                                        |           | 5-8 depends on surface    |
| Resistance to Surface Abrasion of glazed tiles (Class I to V)                           | IS 13630 (Part 11):2006 | Class II, Min                                                 |           | 3-5 as per design/surface |
| Co-efficient of Linear Thermal Expansion from ambient temperature to 100°C              | IS 13630 (Part 4):2006  | 7x10 <sup>-4</sup> K <sup>-1</sup> , Max                      |           | Conforms                  |
| Thermal Shock Resistance                                                                | IS 13630 (Part 5):2006  | 10 cycles, Min                                                |           | Passed                    |
| Crazing Resistance                                                                      | IS 13630 (Part 9):2006  | 4 Cycles@7.5 bar, Min                                         |           | Passed                    |
| Frost Resistance                                                                        | IS 13630 (Part 10):2006 | Required                                                      |           | Resistance                |
| Impact resistance- Coefficient of restitution                                           | IS 13630 (Part 14):2006 | 0.55, Min                                                     |           | Conforms                  |
| <b>Chemical Properties</b>                                                              |                         |                                                               |           |                           |
| Stain Resistance                                                                        | IS 13630 (Part 8):2006  | Class I, Min                                                  |           | Min. Class-1              |
| Resistance to household chemicals                                                       |                         | Class AA, Min                                                 |           | Min. Class-AA             |
| Resistance to acids and alkalis (with exception of hydrofluoric acid and its compounds) |                         | Required, if agreed                                           |           | Required, if agreed       |

**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.

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