



**MURUDESHWAR CERAMICS LTD.**  
every inch of *imagination*

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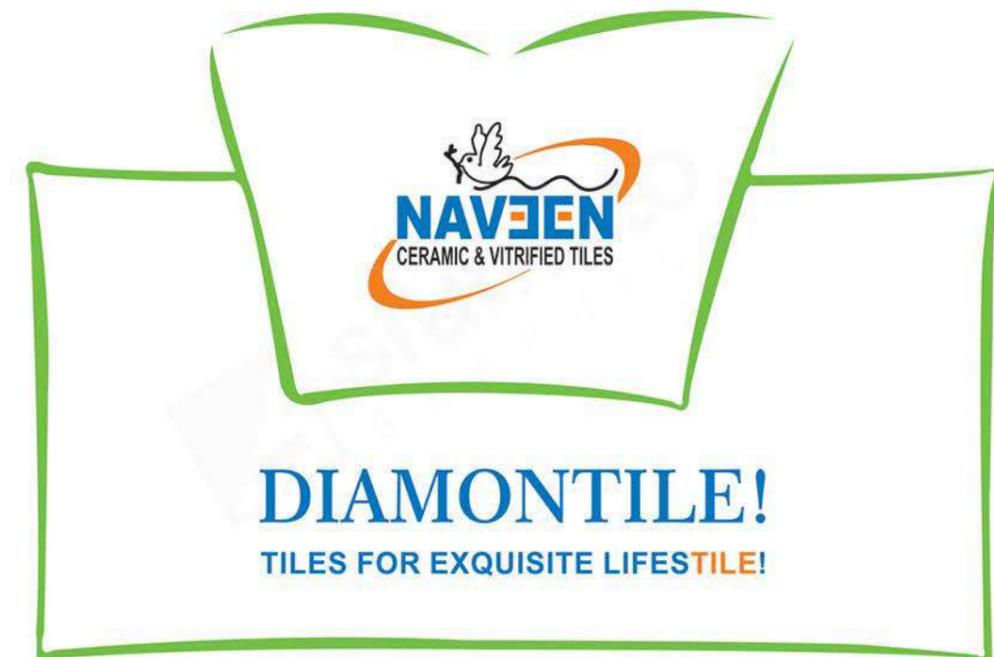
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[www.naveentile.com](http://www.naveentile.com)

**FULL BODY  
HOMOGENEOUS  
VITRIFIED TILES**



**GVT • PGVT • DOUBLE CHARGE**

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FULL BODY  
HOMOGENEOUS  
VITRIFIED TILES

MURUDESHWAR  
CERAMICS LTD.

- INDIA'S ORIGINAL FULL BODY HOMOGENEOUS VITRIFIED TILE
- UNIQUE SMOOTH SURFACE FINISH
- DURABLE - STRENGTH AND DESIGN
- UNGLAZED - NO SURFACE TREATMENT
- AVAILABLE IN 60X60 CM
- ANTI-SKID PROPERTY
- COEFFICIENT OF FRICTION ( $\mu$ ) > 55

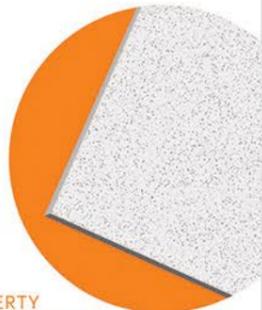
( $\mu$ ) > 40 - NOT SLIPPERY  
( $\mu$ ) < 40 - SLIPPERY

#### Application Areas



and many more...

- STRONG
- ANTI SKID PROPERTY
- FULL BODY HOMOGENEOUS
- HIGH TRAFFIC TILE



**Dr. R.N. SHETTY**  
CHAIRMAN, R.N. SHETTY GROUP OF COMPANIES.

#### Murudeshwar Ceramics Ltd

Since its inception in the year 1983, Murudeshwar Ceramics Ltd. (MCL) has steadily progressed to become one of India's largest tiles manufacturing company, producing the widest range of products in Ceramic Floor tiles, Digital Wall tiles, Vitrified Nano, Soluble tiles, Gvt - Pgt tiles, Parking tiles, Double charge tiles and have become synonymous with quality.

The company through the years, has earned many distinctions, like the first to produce and export large format Vitrified tiles in India, the largest manufacturer of vitrified tiles and so on, It has three large-scale, state-of-the-art manufacturing facilities (at Hubli Karnataka, Bukkapatana-Bangalore karnataka and karaikal, Pondicherry).

Which are in technical collaboration with the World-leaders Sacmi Imola and Breton, Italy, with an unfailing commitment to excellence, it utilizes the finest of raw materials and rigorously checks and controls the quality of the tiles.

Over the years, the company has established a great reputation for its manufacturing capabilities, which is backed by the R&D cells attached to the manufacturing facilities. This ensures the company stays abreast of the latest global trends by constantly developing innovations in colours, designs, textures, finishes and sizes.

Naveen Diamontile products are certified in accordance with Indian & European Standards, the most complete and global expression for an industrial company.

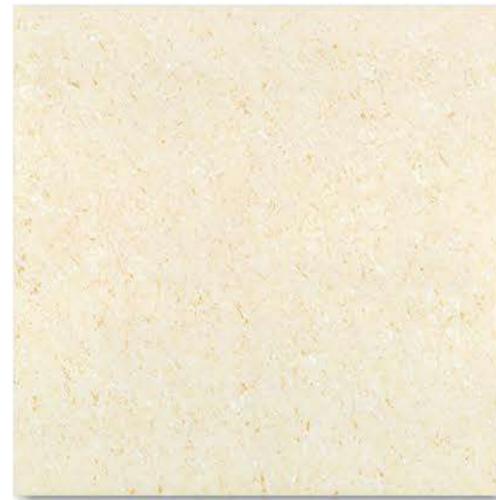
MURUDESHWAR  
CERAMICS LTD.

DOUBLE CHARGED TILES  
600x600mm

ORIGINALS  
COLLECTION



5082 GRAND PEARL



5091 GRAND CREMA



5100 GRAND SILVER



5109 GOLD WHITE



5118 NAVONA YELLOW



5127 NAVONA WHITE

DOUBLE CHARGED TILES  
600x600mm

ORIGINALS  
COLLECTION



9051 ROYAL BROWN



9069 ROYAL GREEN





4218 RIMINI



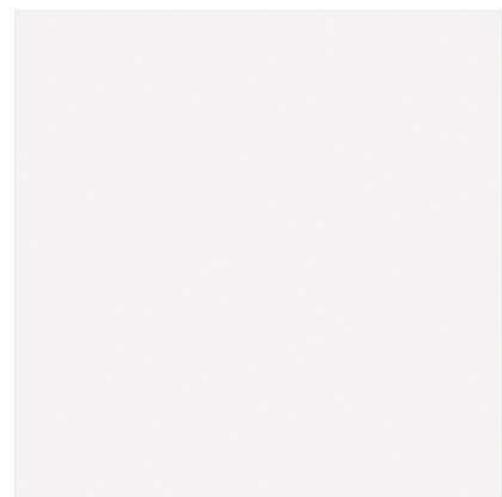
4227 TREVISO



4236 LUCCA



4245 VEGA



4200 PEARL WHITE



4209 VIVAAN





4254 MIZAR



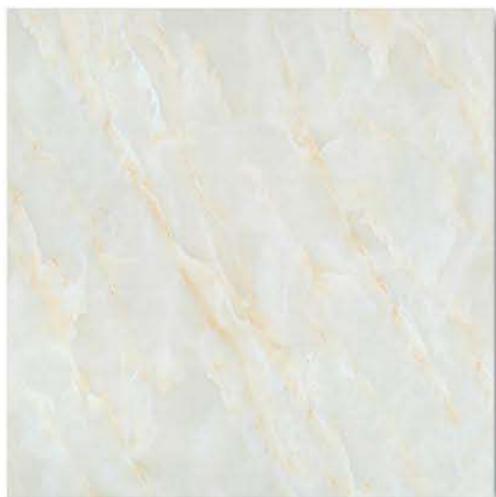
4272 KRISBA



4281 CELESTE-WHITE



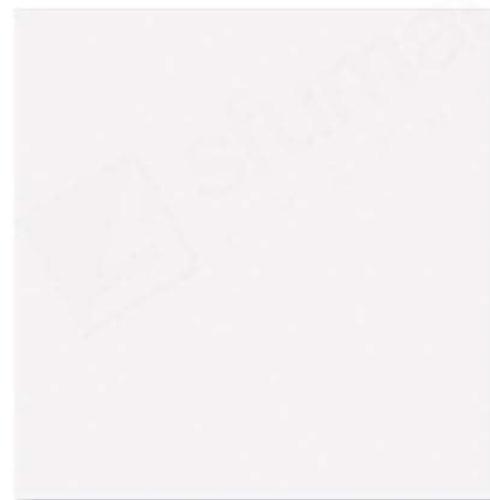
4290 CELESTE GREY



4308 CELESTE YELLOW



4317 COSTA GREY



4020 WHITE



4029 PARANA





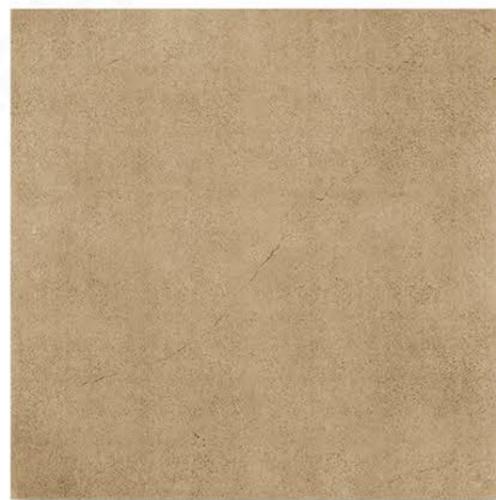
4038 HUGO



4047 ENZO



4056 IMOLA



4065 CEDRON



4074 FANTASIA



4083 PALOMINO



4119 VOLGA BLUE



4128 VOLGA GREY





4137 VOLGA IVORY



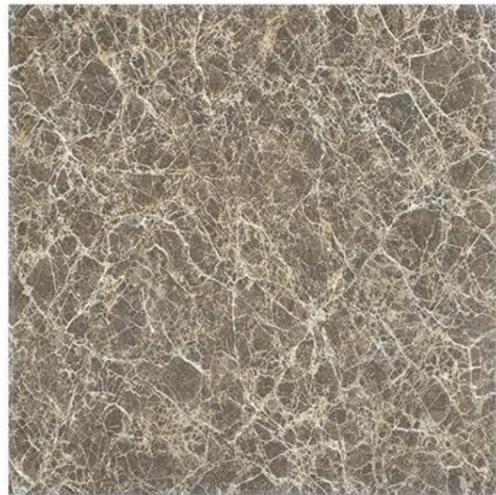
4155 VOLGA COPPER



4164 RUSTY



4173 CINNAMON GREY



4182 CINNAMON BROWN

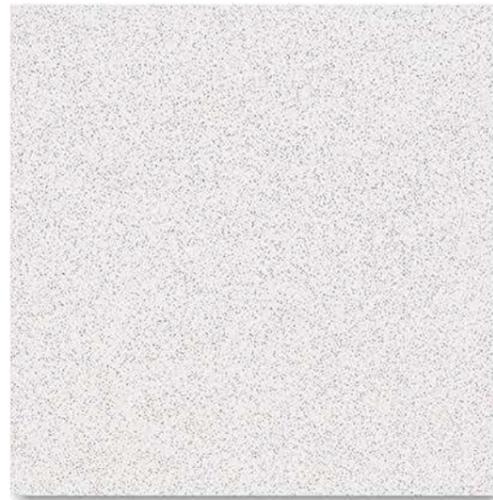


4191 CINNAMON BEIGE

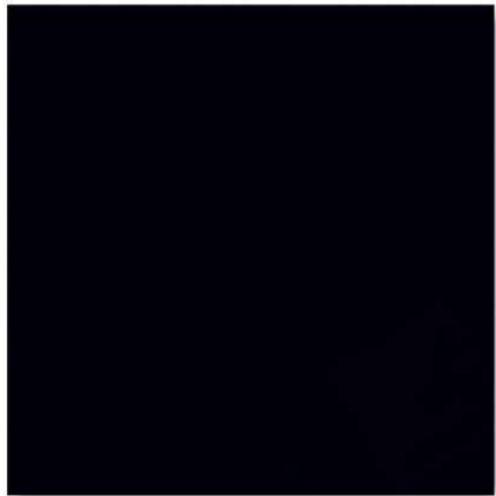




3930 GRAY GRANITO



3300 SUPER WHITE GRANITE



123 BLACK PLAIN



222 TERRACOTTA



510 GREY



8970 AJMER ORANGE

TECHNICAL SPECIFICATION

Sr. No.	Tests	Test Result	Test Method	Requirements IS:15622/2017 Group Bla
<b>(A) Dimensions and surface quality (Clause-6) (Table No-9)</b>				
01	Length and width			
02	The deviation in percent of the average size of each tile (2 or 4 sides) From the work size (W)	0.017	IS:13630(P-1)-2006	Un-rectified N≤20cm:±0.6 N>20cm:±0.4 Rectified N≤20cm:±0.3 N>20cm:±0.1
03	The deviation in percent of the average size of each tile (2 or 4 sides) from the average size of the 10 test specimen (20 or 40 sides)	+ 0.02500 -0.01666	IS:13630(P-1)-2006	Un-rectified N≤20cm:±0.5 N>20cm:±0.4 Rectified N≤20cm:±0.2 N>20cm:±0.1
04	Thickness The deviation in percent of the average thickness of each tiles from the work size thickness	-0.22	IS:13630(P-1)-2006	N≤20cm:±10 N>20cm:±5
05	Straightness of sides The maximum deviation from straightness. in % related to the corresponding works sizes	+0.035 -0.030	IS:13630(P-1)-2006	Un-rectified N≤20cm:±0.5 N>20cm:±0.3 Rectified N≤20cm:±0.3 N>20cm:±0.1
06	Rectangularity The maximum deviation from rectangularity in % related to the corresponding work sizes	+0.032 -0.023	IS:13630(P-1)-2006	Un-rectified N≤20cm:±0.6 N>20cm:±0.3 Rectified N≤20cm:±0.3 N>20cm:±0.1
07	Surface quality	>95	IS:13630(P-1)-2006	Minimum 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles
08	Surface Flatness The maximum deviation from flatness in %		IS:13630(P-1)-2006	
09	Center curvature, related to diagonal calculated from the work size	+0.022 -0.018		N≤20cm:±0.75 N>20cm:±0.5
10	Edge curvature, related to the corresponding works sizes	+0.035 -0.030		N≤20cm:±0.75 N>20cm:±0.5
11	War page, related to diagonal calculated from the work size	+0.020 -0.016		N≤20cm:±0.75 N>20cm:±0.5
<b>(B) Physical Properties (Clause-6)(Table No-9)</b>				
01	Water Absorption, (% by wt) Average	0.033, 0.025, 0.024 0.024, 0.033, 0.028	IS:13630(P-2)-2006	Individual 0.1, Max Averages 0.08
02	Modulus of ruptures, (N/mm) Average	36.1, 37.4, 36.7, 35.6 36.9 36.5	IS:13630(P-2)-2006	Individual 32, Min Average 35
03	Scratch hardness of surface, (Mohs)	6	IS:13630(P-13)-2006	5, Min
04	Thermal shock resistance	Passes the test	IS:13630(P-5)-2006	10 Cycles, Min
05	Breaking Strength (N)	2441	IS:13630(P-6)-2006	700, minimum for thickness < 7.5mm 1300, minimum for thickness > 7.5mm
06	Co-efficient of linear thermal expansion from ambient temperature to 100°C (K <sup>-1</sup> )	0.0x10 <sup>-6</sup>	IS:13630(P-4)-2006	6x10 <sup>-6</sup> , max
07	Moisture expansion, in mm/m	0.0	IS:13630(P-3)-2006	0.02, Max
08	Impact resistance coefficient of restitution	0.93	IS:13630(P-14)-2006	0.55, Min
09	Resistance to deep abrasion of unglazed tiles, volume of material removed in cubic millimeter (Applicable for floor application only)	74	IS:13630(P-12)-2006	140, Max
10	Bulk density, in g/cc	2.28	IS:13630(P-2)-2006	2.2 Min
11	Frost resistance	Not show any damage on proper surface and edges of the tiles after 50 cycles.Passes the test	IS : 13630 (P-10)-2006	
<b>(B) Chemical properties (Clause-6)(Table No-9)</b>				
01	Resistance to staining	Passes the test class-2	IS : 13630 (P-8)-2006	Glazed tiles class 1,min Unglazed tiles class 2, min

PACKING DETAILS

Sr. No	Size(mm)	No of tiles per box	Coverage area per box
01	600x600 mm	4 Pcs.	1.44 sq. mtr.

Vitrified tiles have resistance to most of the stains / chemicals but it is recommended to take due care while laying and for day today maintenance

The reproduction of tiles in this catalogue is restricted to four colour printing only and tiles are not relative sizes. Conforming to ISO requirements, technical specifications for Naveen tiles are applicable only for 1' quality tiles. please inspect all tiles prior to installation; company will not entertain complaints, once tiles are laid / fixed. Price category & PEI grade may change without any notice. Customers are advised to confirm it before placing order.