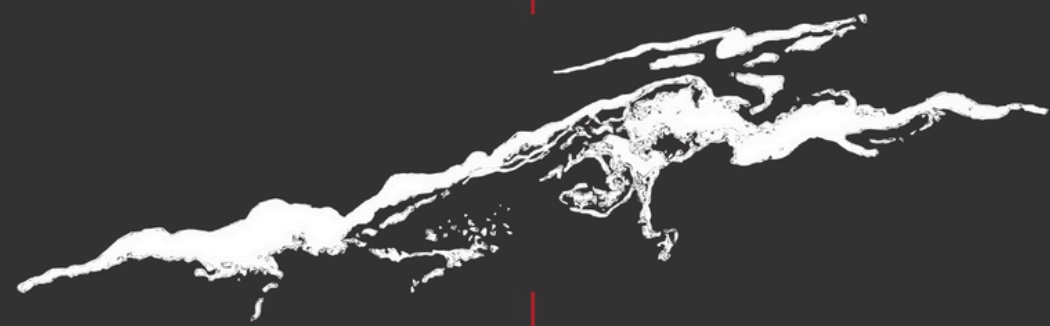




www.dragonmarble.com

luxury porcelain slabs



www.dragonmarble.com





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Technical Specification

1.5CM

Avante's carefully-curated collection features 15 dazzling porcelain surface looks that draw colors, textures, and patterns from diverse materials, genres, and cultural cues. Available in **320X80 CM** size, our 15 MM thick slabs evoke the captivating reflections & raw strength of natural stones, rendering the same feel without the associated drawbacks.

TECHNICAL FEATURES



Hygienic & suitable for
contact with food



Easy to clean
surface



Water Resistant
surface



Resistant to chemicals
acids, bases & solvents



Stain resistant
surface



Flatness &
Stability over time



Resistant to mould
mildew & fungus



UV Resistant
surface



Resistant to heat &
High temperatures



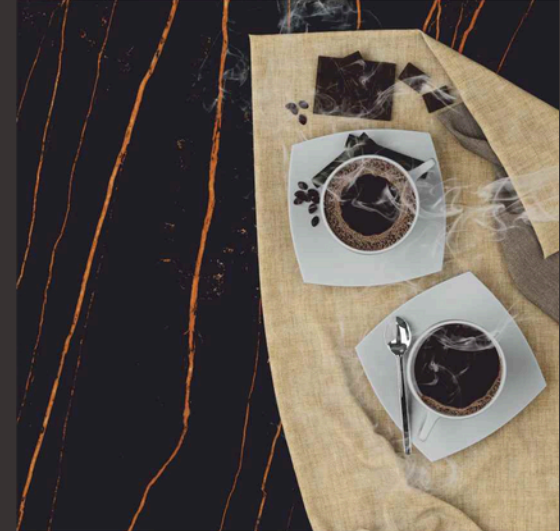
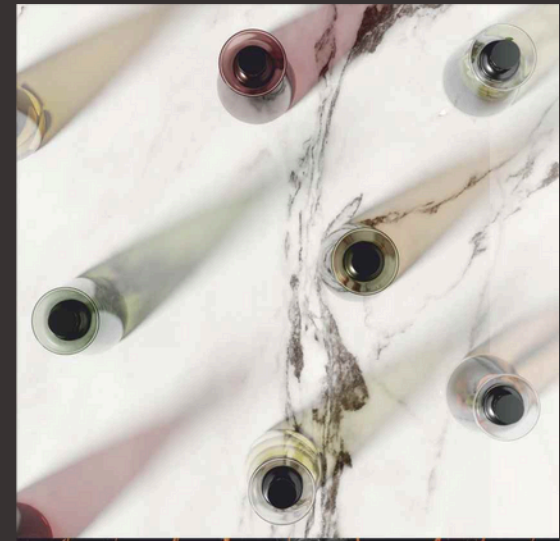
Impact resistant
surface



Frost proof
surface

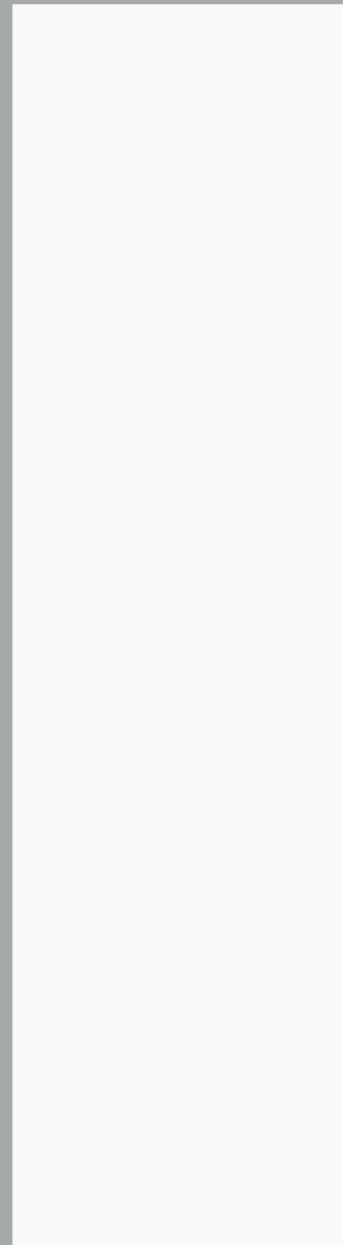


Scratch proof &
Abrasion resistant



Crystal White

Finish Polished	Size 320x80cm	Thickness 1.5cm	WHITE BODY
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Crystal White



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



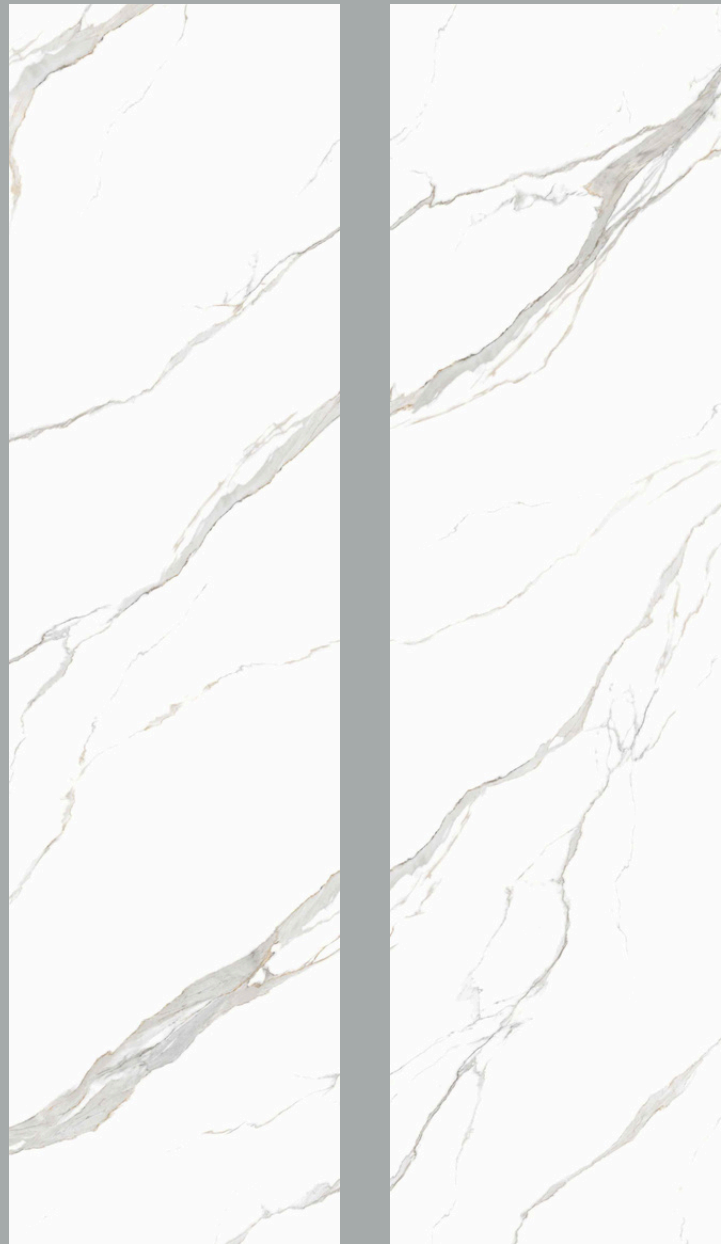
Bathroom / Tops



Furnishing

Bianco Aura

Finish	Size	Thickness
Polished	320x80cm	1.5cm



07-08





Bianco Aura



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



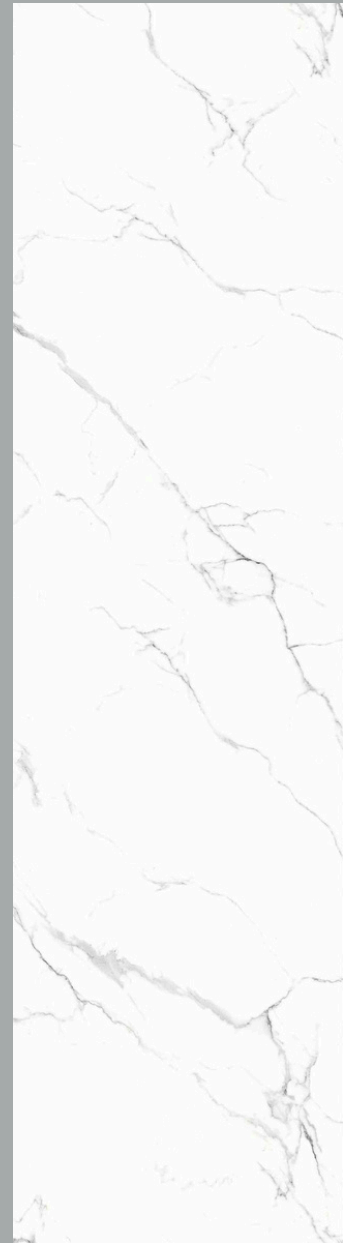
Bathroom / Tops



Furnishing

Bianco Carrara

Finish Polished	Size 320x80cm	Thickness 1.5cm
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Bianco Carrara



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops

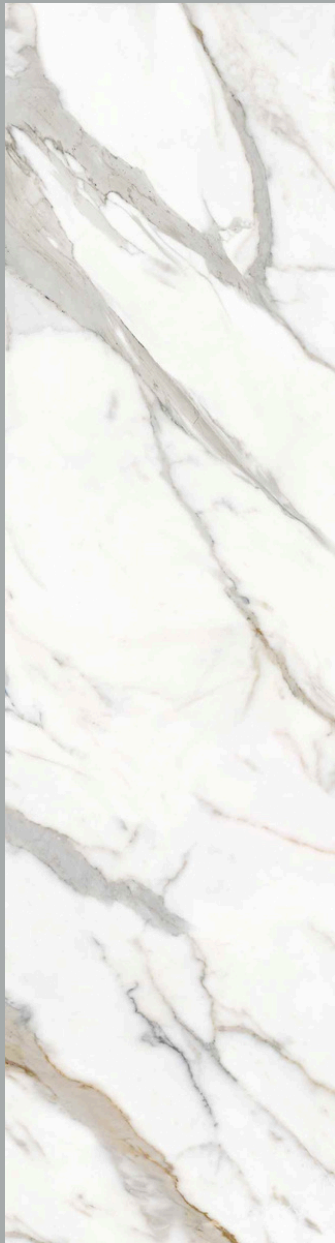


Furnishing



Bianco Extra

Finish	Size	Thickness
Polished	320x80cm	1.5cm





Bianco Extra



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



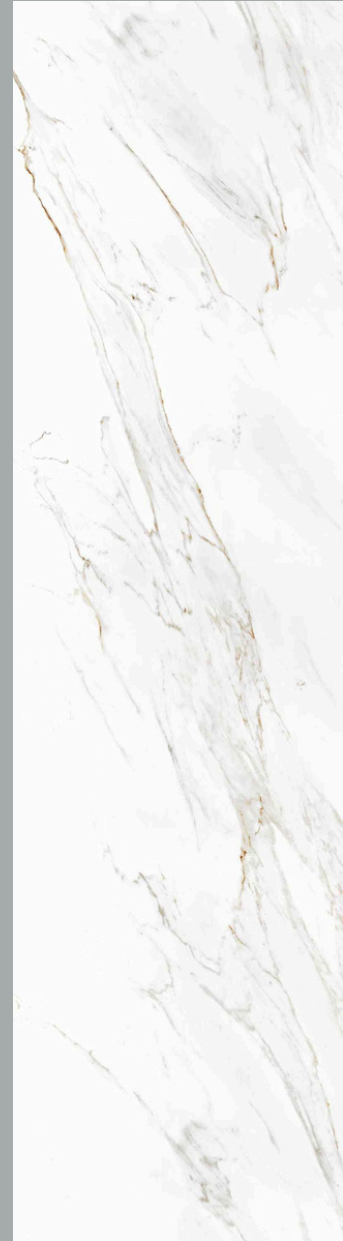
Bathroom / Tops



Furnishing

Calcatta Borghini

Finish	Size	Thickness
Polished	320x80cm	1.5cm





Calcatta Borghini



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



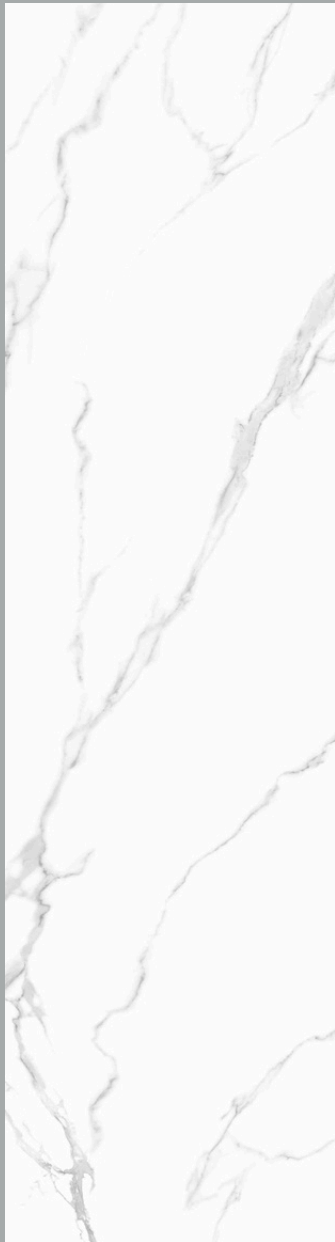
Furnishing

Rome

Finish
Polished

Size
320x80cm

Thickness
1.5cm





Rome



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



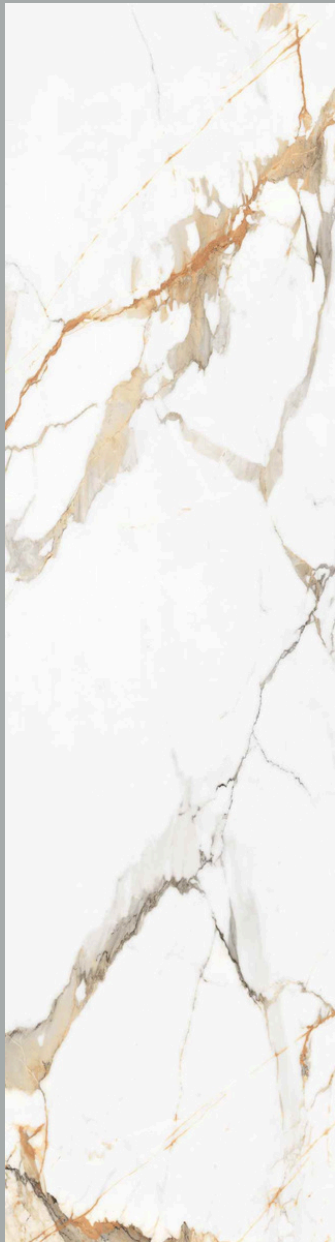
Furnishing

Calcatta Ultra

Finish
Polished

Size
320x80cm

Thickness
1.5cm





Calcatta Ultra



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



Furnishing

Calcatta Vianna

Finish	Size	Thickness
Polished	320x80cm	1.5cm





Calcatta Vianna



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



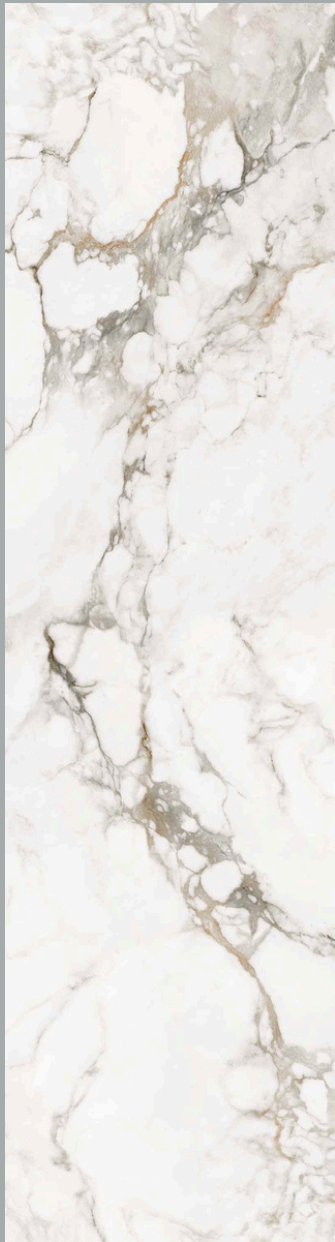
Furnishing

Mont Blanc

Finish
Polished

Size
320x80cm

Thickness
1.5cm





Mont Blanc



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



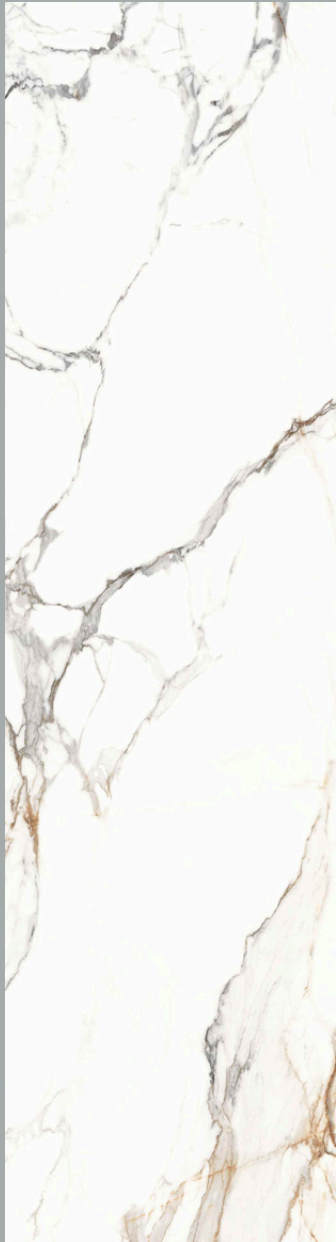
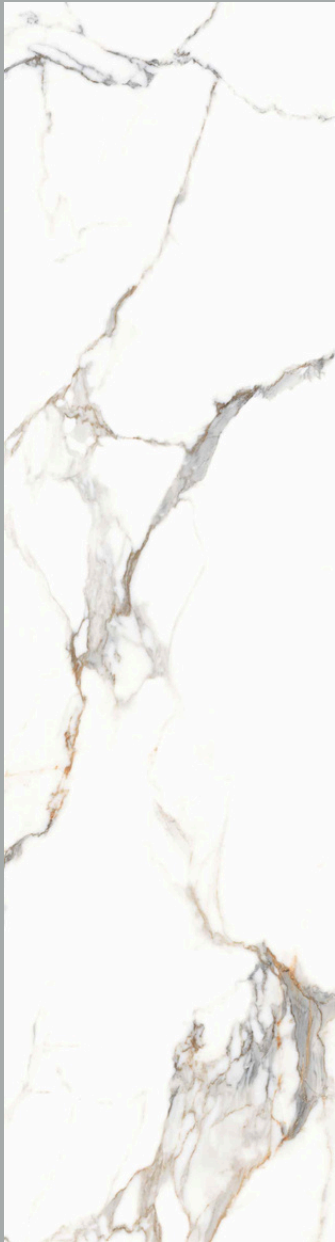
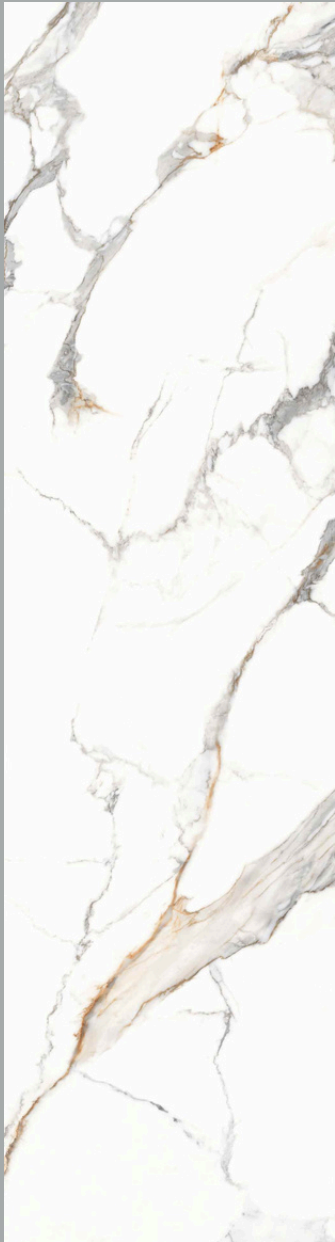
Furnishing

Statuario Gold

Finish
Polished

Size
320x80cm

Thickness
1.5cm



39-40





Statuario Gold



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



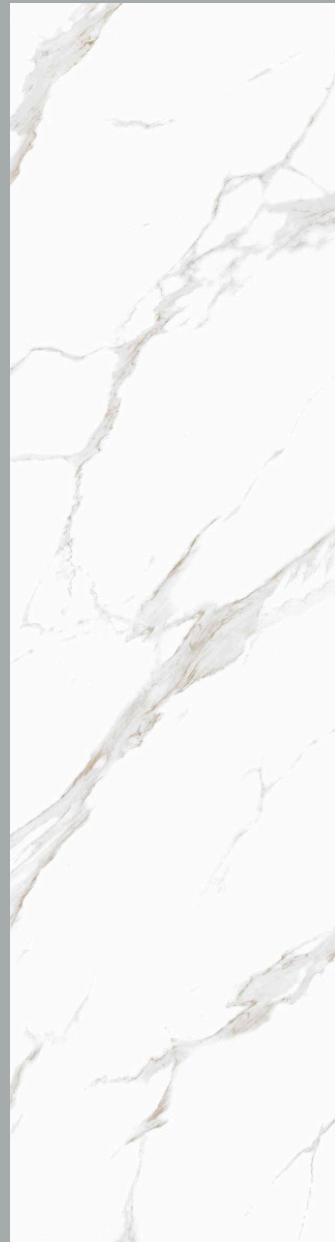
Furnishing

Statuario Alpine

Finish
Polished

Size
320x80cm

Thickness
1.5cm





Statuario Alpine



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



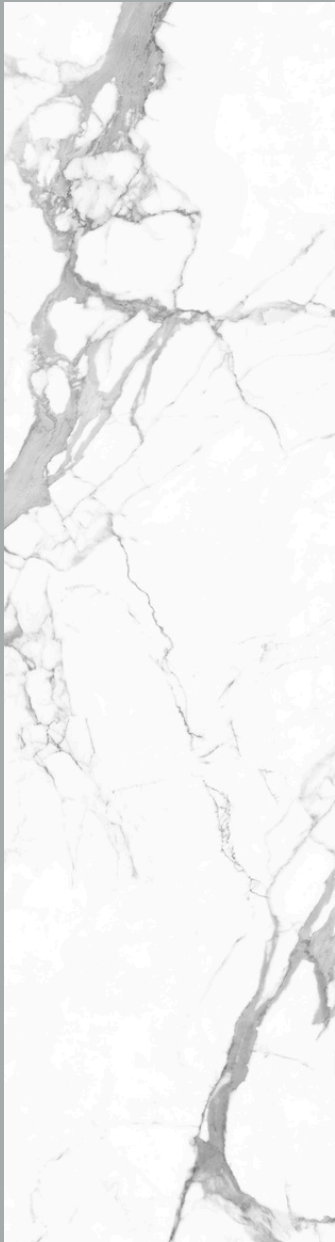
Furnishing

Statuario Natural

Finish
Polished

Size
320x80cm

Thickness
1.5cm



47-48





Statuario Natural



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



Furnishing

Panda White

Finish
Polished

Size
320x80cm

Thickness
1.5cm



51-52





Panda White



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



Furnishing

Pietra Grey

Finish	Size	Thickness
Natural	320x80cm	1.5cm





Pietra Grey



Recommended
Application Areas:



Armani Grey

Finish
Polished

Size
320x80cm

Thickness
1.5cm



59-60





Armani Grey



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



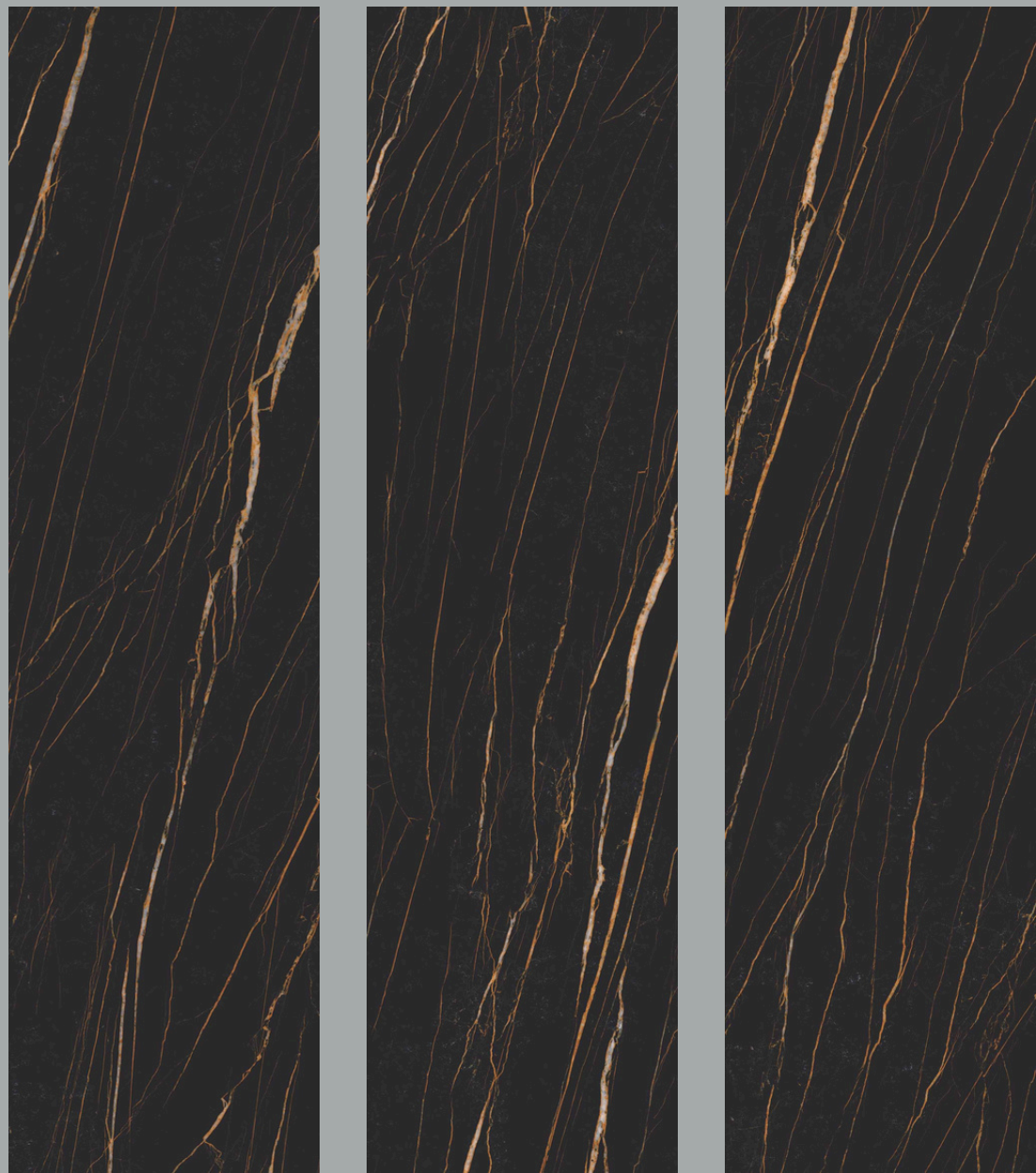
Furnishing

Sahara Gold

Finish
Polished

Size
320x80cm

Thickness
1.5cm



63-64





Sahara Gold



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



Bathroom / Tops



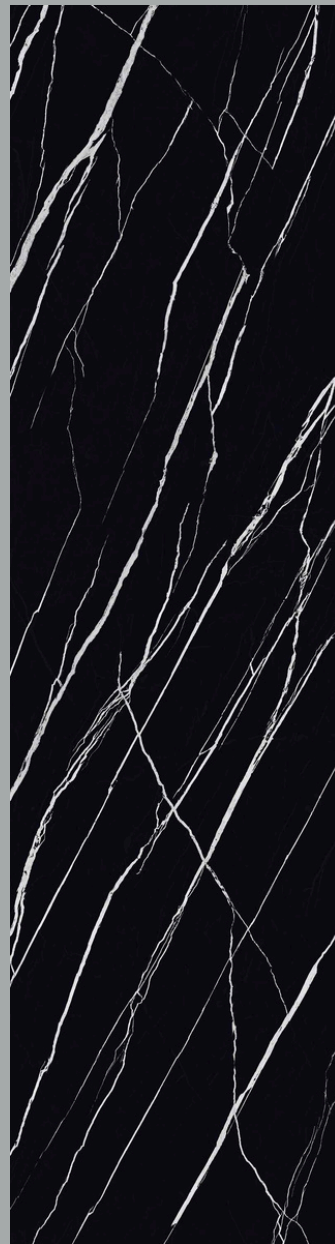
Furnishing

Marquina Natural

Finish
Polished

Size
320x80cm

Thickness
1.5cm





Marquina Natural



Recommended
Application Areas:



Crystal Black

Finish Polished	Size 320x80cm	Thickness 1.5cm	BLACK BODY
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Crystal Black



Recommended
Application Areas:



Indoor Floors



Dry Cladding



Indoor Walls



Countertops



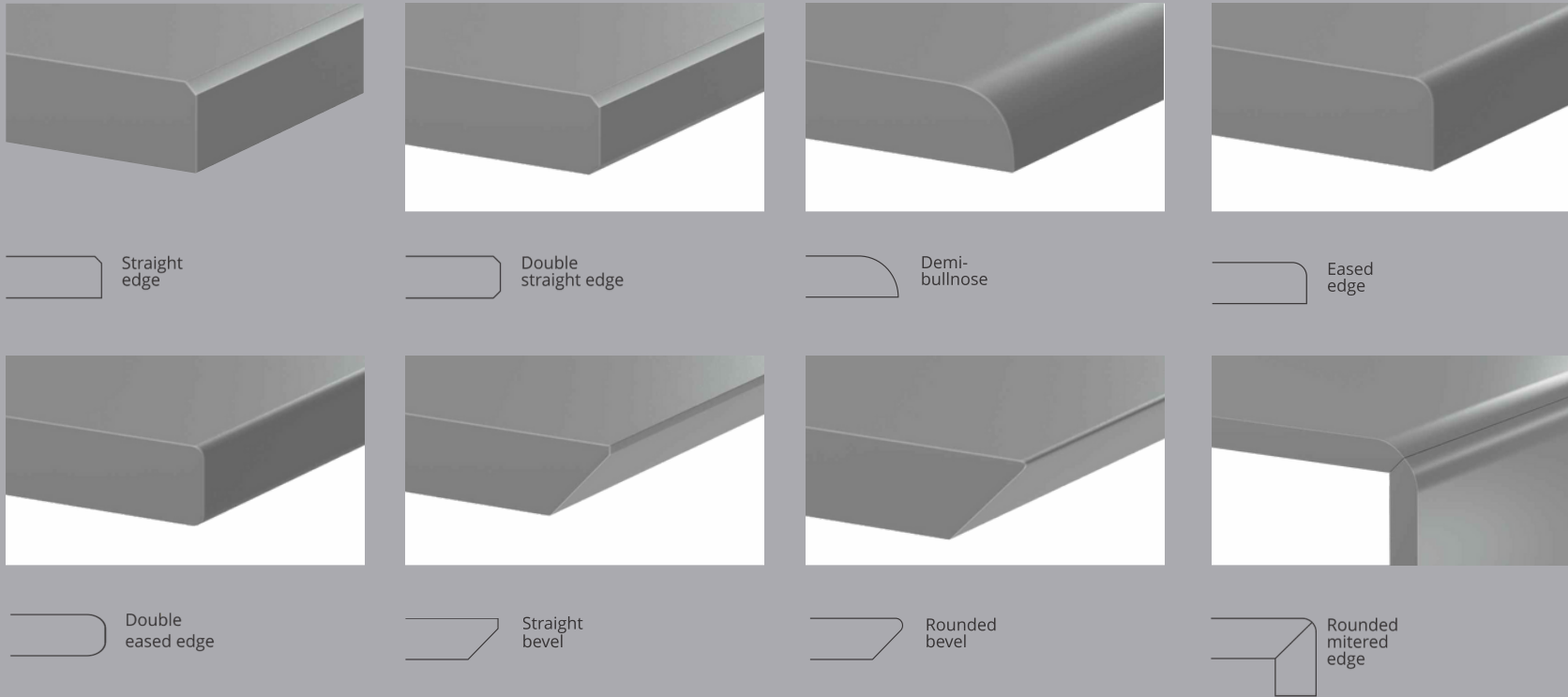
Bathroom / Tops



Furnishing

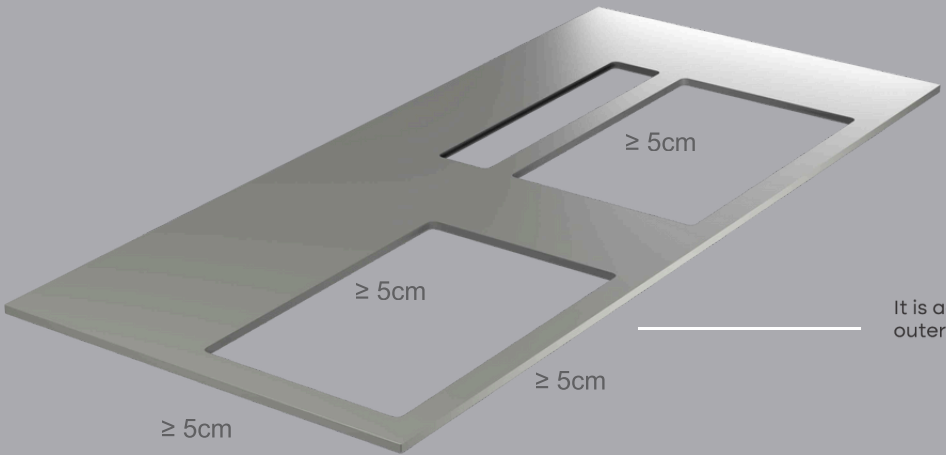
Edge Profiling

Avante porcelain slabs facilitate numerous edge finishes that can be attained by either automatic edge polishing machines or manually. An appropriate combination of circular saw blades can lend a high-quality polish. To attain a proper finish, it is imperative that the slab is fabricated in a wet state. Making cuts on pieces can alter the surface properties of the edge, so we recommend applying an edge protection liquid to improve performance against stains or other agents. To enhance the performance of counter-top and avoid sharp edges, make bevels (straight or rounded) on all the edges that are likely to face damage from impacts. We recommend a 2-3 mm bevel. To avoid chip forming during the mitre cutting process, reduce the cutting speed.

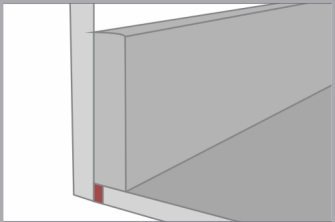


Design Factors

Before starting the counter-top design, consider various factors to prevent potential hassles that may arise during fabrication and application. The following recommendations will help you obtain a more resistant & long-lasting countertop.



It is advisable to leave a minimum distance of 5 cm to outer edges & between gaps.



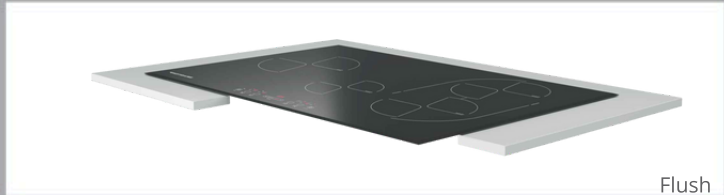
Make a joint of at least 2 mm from the walls next to the countertop, and seal it after installation to protect the surface. We recommend covering the joint with the trim.



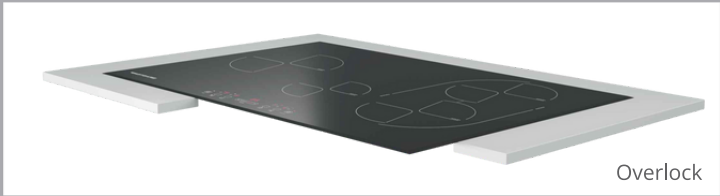
Inner corners of gaps shall have at least a 5-mm radius, while a radius of 10mm is encouraged. Do not make 90 degree cut otherwise breakage may occur due to internal tension. Do not make sinks with the same material cutting all four sides in a miter, as the joint radii are not observed.

Installation of sinks and induction hobs

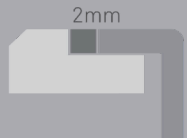
It is recommended to leave at least a 2mm gap between the fixture and the edge of the cut-out.If you choose the over-mount installation style, consider water tightness, and seal the joints correctly with silicon. Do not make an undercut of more than 4mm.



Flush



Overlock



2mm



Underlay



Overlock



Flush



2mm

In case you are installing large format sinks, it is recommended to use a sink setter or support rail system to avoid peeling or breakage.

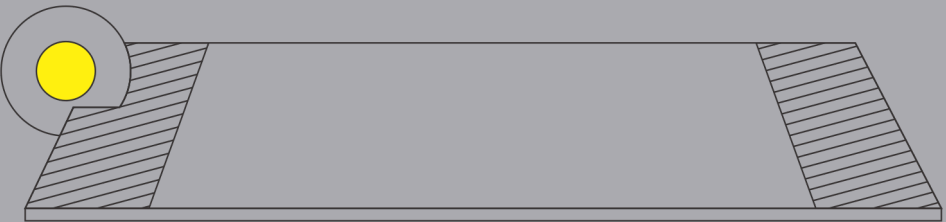
Manual Work

For manual installation, we recommend using a wet operation and suitable tools to drill holes.



Circular Saw Cutting Machine

To make straight cuts with a bridge-type cutting machine, we recommend diamond cutting blades that are suitable for porcelain tiles. The water flow should be at its maximum while cutting to ensure sufficient cooling of the blade. To avoid overheating in the lighter models, we recommend a low-speed blade. Likewise, to prevent breakage when the blade enters or comes out of the piece, the speed recommended by the manufacturer should be reduced to half on the initial and final sections of 20/25 cm width.



Diameter	rpm approx	Speed
300mm	2100-2800	white 0.5m/min
350mm	1900-2500	
400mm	1700-2300	other colours
450mm	1400-2000	1m/min
500mm	1200-1600	

recommended values

Water Cutting Machine

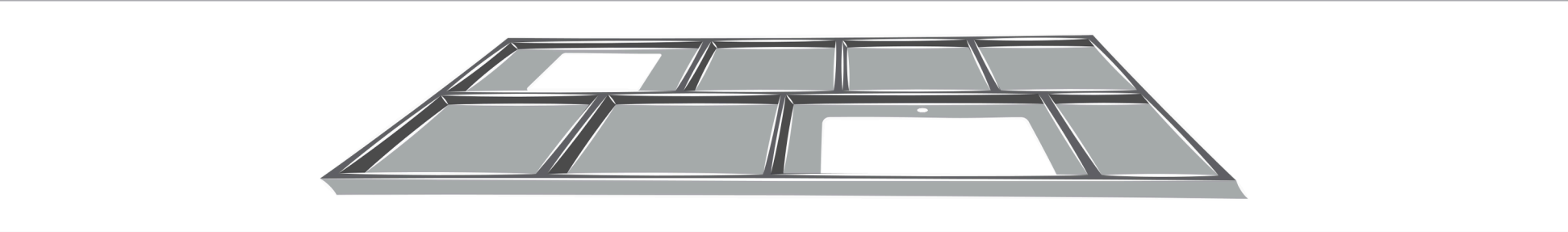
Use water jet cutting machines to cut or drill for a high precision level. The quality of the cut finish will depend on the correct combination of the parameters recommended on the table. This combination can be slightly different depending on the available machinery. As with the CNC cutting machine, we recommend an initial drill inside the opening space that's located preferably in the farthest part from the edge of the piece. From here cut along the cutting perimeter getting to it with a curved movement. If the edge needs to be polished, we recommend reducing it to half the speed for a smoother and easy-to-work finish.



Installation Reinforcements

Once the countertop is transformed, it shall be installed on a completely flat, leveled, and resistant surface in such a way that it is supported correctly. To guarantee sufficient support, a plywood board can be used. In the case of areas with high humidity, a compact board of phenolic resins or an XPS sandwich panel of 20 mm thickness can be used. We recommend gluing with sufficiently elastic adhesives and allowing absorption of expansions between both materials.

The reinforcements and their location shall depend on the shape of the specific counter-top. We recommend placing reinforcement in areas close to the openings and avoiding the presence of spans larger than 60 cm. These reinforcements shall be made from strips of the same material so that the counter-top and the reinforcements expand equally. If the countertop is made up of more than one piece, try to prevent them from hitting each other during adjustments; you can use wedges or suction cups for this, which make it easier to bring them together without potential damage.



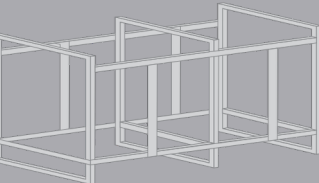
During the transport and handling of the transformed countertop, avoid bending the plate in any way. We recommend moving it in an upright position and with the drilled holes always on top. Likewise, special care should be taken to avoid blows, especially on the edges.

Handling

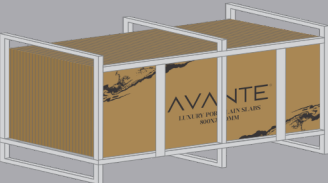
Packing, transport & handling U-frames

These sketches give the necessary information for handling & transportation of trestles that support the pieces. Recommendations, descriptions, measurements, and weights shall mark the first steps to follow depending on the transport vehicle or the amount of material that it carries each time.

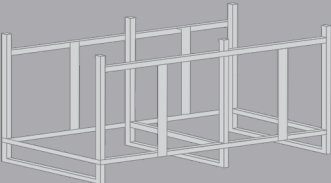
SQUARE FRAME PALLET
Empty



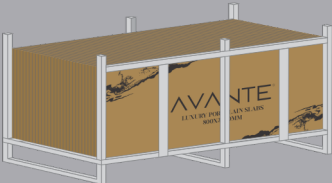
SQUARE FRAME PALLET
28 Boxes



U FRAME PALLET
Empty



U FRAME PALLET
28 Boxes



Level 01

01	02
03	04
05	06

Level 02

07	08
09	
10	11

SQUARE
FRAME PALLET
Total Pallet: **11**
Total Box: **308**

40 ft Container



Level 01

01	02
03	04
05	06

Level 02

07	08
09	
10	11

U FRAME
PALLET
Total Pallet: **11**
Total Box: **308**

40 ft Container

The trestle shall always be carried symmetrically, and only one at a time to prevent instability or collapse.

Whenever the pallet has to be moved, it must be tied with at least one vertical sling. Place protective cardboard at the height of the ratchet to prevent it from hitting or scratching the workpiece. At rest, provided that the goods are not strapped or secured with slings, vertical poles must be placed to secure the load in the event of overturning.

Technical Specification

CHARACTERISTICS	STANDARD AS PER ISD-13006/2018 En14411 gr.bla	AVANTE VALUE	TEST METHOD
Regulatory Properties			
Deviation in Length & Width	±0.5%	± 0.2%	ISO 10545-2
Deviation in Thickness	±5%	±5%	ISO 10545-2
Straightness of Sides	±0.5%	±0.2%	ISO 10545-2
Rectangularity	±0.5%	±0.2%	ISO 10545-2
Surface Flatness	±0.5%	± 0.3 %	ISO 10545-2
Glossiness	As per Mfg.	As per Mfg.	Gloss Meter
Surface quality	Min 95% free from visible defect	Min 95% free from visible defect	Min 95% free from visible defect
Structural Properties			
Water Absorption	≤ 0.5%	≤ 0.6%	ISO 10545-3
Apparent Density	As per Mfg.	>2.20 g/cc	ISO 10545-3
Massive Mechanical Properties			
Modules of Repture	Min.35N/mm²	Min.40N/mm²	ISO 10545-4
Breaking Strength	Min. 1300 N	Min. 5000 N	ISO 10545-4
Impact Resistance	As per Mfg.	Min. 0.55	ISO 10545-4
Structural Properties			
Surface Abrasion Resistance	As per Mfg.	Min. Class 1 in PGVT, Min Class 3 In GVT	ISO 10545-7
Moh's Hardness	As per Mfg.	Min. class 4	BS EM 15771
Thermo Hygrometric Properties			
Frost Resistance	As Per Mfg.	Frost Proof	ISO 10545-12
Thermal Shock Resistance	Min. 10 Cycle	Min. 10 Cycle	ISO 10545-9
Moisture Expansion	Max. 0.6mm/m	Max. 0.02mm/m	ISO 10545-10
Thermal Expansion	Max. 9.0 X 10 ⁻⁵	Max. 6.0 X 10 ⁻⁵	ISO 10545-8
Chemical Properties			
Chemical Resistance	As Per Mfg.	No Damage	ISO 10545-13
Stain Resistance	Resistant	Resistant	ISO 10545-14
Safety Properties			
Slip Resistance	As per Mfg.	N.A	DIN 51130
Fire Resistance	As per Mfg.	Frost Proof	N.A

PACKING DETAILS

Tile Size	Thickness	No. of tiles/box	Weight /Box (Approx.)	Coverage Area
800x3200MM	15 MM	01	89 kg.	2.56m²