POLAR™

90x180cm
60x120cm

SCS® SINTERED COMPACT SURFACE

POLAR

COLLECTION 2019/'20

90x180cm
60x120cm

POLAR CLIMATE.
COLD TONE AMBIENCE.

Inspired from both the poles of planet earth, this collection represents the different conditions of ice rocks and snowy land. 'Polar' collection consists of four white marbles with unique identity, which can be combined with two grey designs to give the desired ambience to the space.

our brand
ambassador
Hrithik Roshan

Wall
Polarmani
Polar Decor
_Size : 90x180cm

Floor
Statuario Silvia
_Size : 90x180cm

THICKNESS: 9 mm
SURFACE: High Glossy

90x180cm

60x120cm

Wall
Statuario Shine
Emperador Arctic
_Size : 90x180cm

Floor
Emperador Arctic
_Size : 90x180cm

THICKNESS: 9 mm
SURFACE: High Glossy

90x180cm

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Wall
Polarangelo Rust
_Size : 90x180cm

Floor
Polarangelo Rust
_Size : 90x180cm

THICKNESS: 9 mm
SURFACE: High Glossy

90x180cm

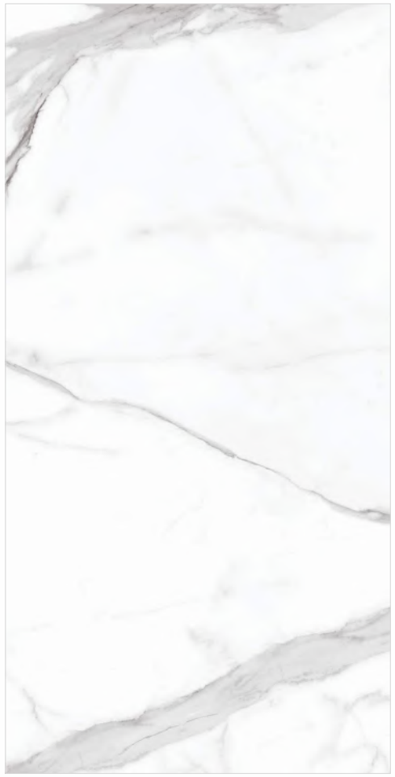
60x120cm

Floor
Bianco Viola
_Size : 90x180cm

THICKNESS: 9 mm
SURFACE: High Glossy

90x180cm

60x120cm

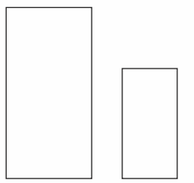


Statuario Silvia

Polarmani

Polar Decor

Combination Recommendation by Our Designer



90x180cm 60x120cm

THICKNESS:

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SURFACE:

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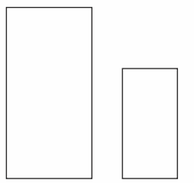
Statuario Shine

Emperador Arctic

Combination Recommendation by Our Designer



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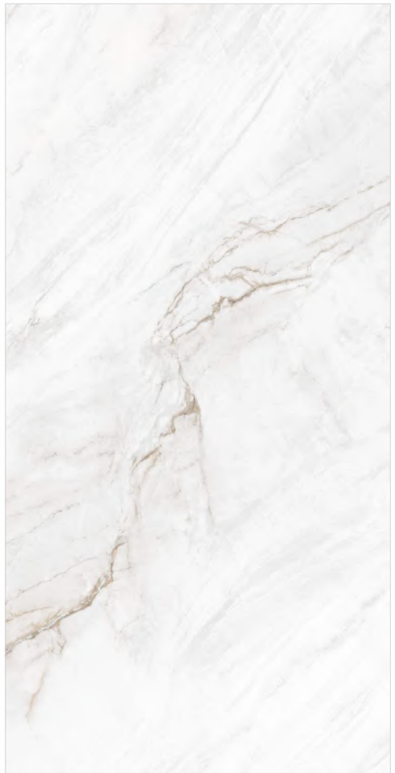
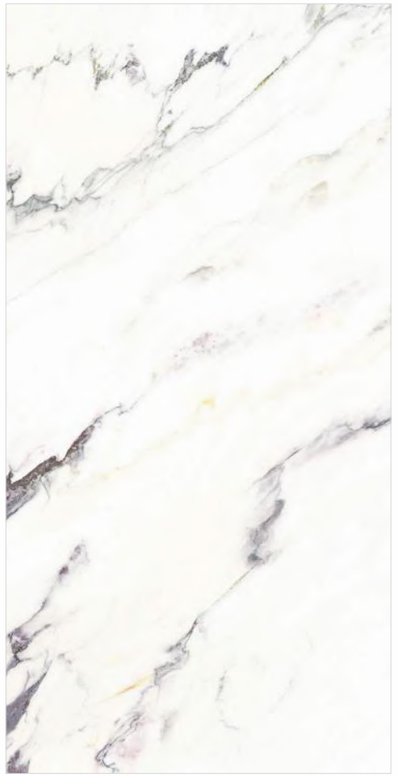
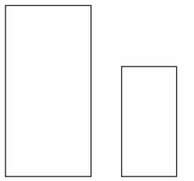


Polarangelo Rust



Bianco Viola



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THICKNESS:

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SURFACE:

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90x180cm

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THICKNESS:

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SURFACE:

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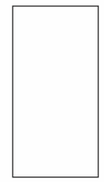
Wall

Bianco Fantastico - Bookmatch

_Size : 90x180cm

THICKNESS: 9 mm

SURFACE: High Glossy



90x180cm

A B

Bianco Fantastico

Bookmatch possibility 02

A B

B A

Bookmatch possibility 03

A B

B A

SURFACE:

High Glossy

THICKNESS:

9 mm

FACE:

Bookmatch

Bookmatch possibility 02

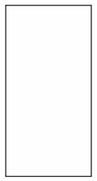
A B

B A

Bookmatch possibility 03

A B

B A



90x180cm

A B

Bianco Viola

Cleaning & Maintenance

Our products are non porous (due to their high quality raw materials, stringent production parameters and state of the art technology), hence any dust or deposited waste cannot penetrate the surface.

For most cases only a damp cloth is sufficient for cleaning.

Regular cleaning highlights the aesthetic features of the surface and gives it exceptional shine.

For highly aggressive cleaning caused by some common food and substances follow the table below.

TYPE OF STAIN	CHEMICAL PRODUCT	EXAMPLE
Grease	Alkaline - Solvent	Detergent
Oil	Solvent	Ammonia, Backing Soda
Ink	Oxidant - Solvent	Alcohol, Liquid Bleach, Nail Paint Remover
Rust	Acid	Hydrochloric Acid, Vinegar, Red Harpic
Lime	Acid	Descaling Reagent, Hydro Chloric Acid
Cement	Acid	Hydro Chloric Acid
Wine	Alkaline	Ammonia, Liquid Bleach
Coffee	Alkaline - Solvent	Ammonia, Liquid Bleach
Rubber	Solvent	Alcohol, Thinner
Plaster	Acid	Hydro Chloric Acid
Candle Wax	Solvent	Alcohol, Thinner
Iodine	Oxidant	Liquid Bleach
Blood	Oxidant	Liquid Bleach
Ice Cream	Alkaline	Liquid Bleach

Note: It is recommended that any kind of stain needs to get clean immediately / as soon as possible.

Packing Details

PRODUCT	SIZE	THICKNESS	TILES / BOX	COVERAGE AREA / BOX	
SCS	90x180cm / 900x1800mm	9mm	2 pcs.	3.24 sq. mtr.	34.87 sq. ft.
	60x120cm / 600x1200mm	9mm	2 pcs.	1.44 sq. mtr.	15.50 sq. ft.

SCS® SINTERED COMPACT SURFACE

Technical Specification

CHARACTERISTIC	STANDARD AS PER ISO13006:2012/ EN14411 Gr.BIa	STANDARD AS PER IS15622:2017 Gr.BIa	MEAN VALUE OF	TEST METHOD
Regulatory Properties				
Deviation in length and width	± 0.50 %	± 0.10 %	± 0.10 %	ISO 10545-2 & IS 13630-1
Deviation in thickness	± 5.00 %	± 5.00 %	± 4.00 %	ISO 10545-2 & IS 13630-1
Straightness in side	± 0.50 %	± 0.10 %	± 0.10 %	ISO 10545-2 & IS 13630-1
Rectangularity	± 0.60 %	± 0.10%	± 0.10 %	ISO 10545-2 & IS 13630-1
Surface flatness Central Curvature	± 0.50 %	± 0.50 %	± 0.10 %	ISO 10545-2 & IS 13630-1
Surface flatness Edge Curvature	± 0.50 %	± 0.50 %	± 0.10 %	ISO 10545-2 & IS 13630-1
Surface flatness Warpage	± 0.50 %	± 0.50 %	± 0.10 %	ISO 10545-2 & IS 13630-1
Surface Quality	> 95% defects free	> 95% defects free	> 95% defects free	ISO 10545-2 & IS 13630-1
Small Color Difference	ΔE < 0.75	N.A.	No Change	ISO 10545-16
Glossiness (With Nano Polished)	As per Manufacturer	As per Manufacturer	> 90°*	Gloss Meter 60°
Glossiness (Without Polished)	As per Manufacturer	As per Manufacturer	7° < GLOSS < 14°*	Gloss Meter 60°
Glossiness (Satin)	As per Manufacturer	As per Manufacturer	15° < GLOSS < 25°*	Gloss Meter 60°
Structural Properties				
Water absorption	≤ 0.50 %	≤ 0.080 %	≤ 0.050 %	ISO 10545-3 & IS 13630-2
Bulk density	> 2.00 g/cc	Min. 2.20 g/cc	> 2.28 gm/cc	DIN51082 & IS 13630-2
Massive Mechanical Properties				
Modulus of rupture	Min. 35.0 N/mm²	Min. 35.0 N/mm²	Min. 37.0 N/mm²	ISO 10545-4 & IS 13630-6
Breaking strength thickness <7.5	Min. 700.0 N	Min. 700.0 N	Min. 1000.0 N	ISO 10545-4 & IS 13630-6
Breaking strength thickness ≥7.5	Min. 1300.0 N	Min. 1100.0 N	Min. 1600.0 N	ISO 10545-4 & IS 13630-6
Surface Mechanical Properties				
MOH'S hardness	Min. 4	Min. 5	Min 4**	EN 101 & IS 13630-13
Surface abrasion resistance-Glossy #	As per Manufacturer	Min. Class II	Min. Class 2 / Min. Class II	ISO 10545-7 & IS 13630-11
Surface abrasion resistance-Matt #	As per Manufacturer	Min. Class II	Min. Class 3 / Min. Class II	ISO 10545-7 & IS 13630-11
Thermal Hygrometric Properties				
Moisture expansion	Max. 0.06	Max. 0.02	NIL	ISO 10545-10 & IS 13630-3
Thermal expansion(COE) at 100°C	As per Manufacturer	Max. 7.0 x 10^{-6}	Max. 6.0 x 10^{-6}	ISO 10545-8 & IS 13630-4
Thermal shock resistance	Min. 10 Cycle	Min. 10 Cycle	Min. 10 Cycle	ISO 10545-9 & IS 13630-5
Crazing Resistance at 7.5 Bar	As per Manufacturer	Min. 4 Cycle	Min. 6 Cycle	ISO 10545-11 & IS 13630-9
Impact resistance(COR)	As per Manufacturer	Min. 0.55	Min. 0.55	ISO 10545-5 & IS 13630-14
Frost resistance	As per Manufacturer	As per Manufacturer	Frost Proof	ISO 10545-12 & IS 13630-10
Chemical Properties				
Resistance to Staining Glazed	Min. Class 3	Min. Class I	Min. Class 4/Min. Class I	ISO 10545-14 & IS 13630-8
Resistance to Household Chemicals &Swimming Pool Salts Glazed	Min. Class GB	Min. Class AA	Min. Class GA/Min. Class AA	ISO 10545-13 & IS 13630-8
**Resistance to Low Concentrate Acidand Alkalis Glazed	As per Manufacturer	As per Manufacturer	Min. Class GLB***/Min. Class A***	ISO 10545-13 & IS 13630-8
**Resistance to High Concentrate Acidand Alkalis Glazed	As per Manufacturer	As per Manufacturer	Min. Class GHB***/Min. Class A***	ISO 10545-13 & IS 13630-8
Safety Properties				
Skid resistance(DCOF-DRY)	As per Manufacturer	As per Manufacturer	> 0.40	ISO 10545-17
Slip resistance(DCOF)(R value)##	As per Manufacturer	As per Manufacturer	N.A.	ISO 10545-17
Determination of Lead & Cadmium Release for Glazed Tiles	As per Manufacturer	N.A.	Dose not yield Pb & Cd	ISO 10545-15
Fire Resistance	As per Manufacturer	As per Manufacturer	Fire Proof	N.A.

* Glossiness 90% with nano technology
** Without nano technology (Unpolished Vitrified tiles)
*** Except Hydrofluoric Acid & it's compound
# Glaze tiles Intended for use on floor
As per customer requirement