

**SATUARIO**  
SERIES

**ETTO**<sup>TM</sup>  
TILES

**CHARMING**  
*Accommodation*



600x1200mm  
**GVT | PGVT**  
2022 COLLECTION

# APPLICATION



RESIDENCES



GARDEN &  
POOLS



HOTELS



OFFICES



RESTAURANTS



SHOPS



AIRPORTS



MALLS



SPACES  
PUBLIC



RAILWAY  
STATIONS



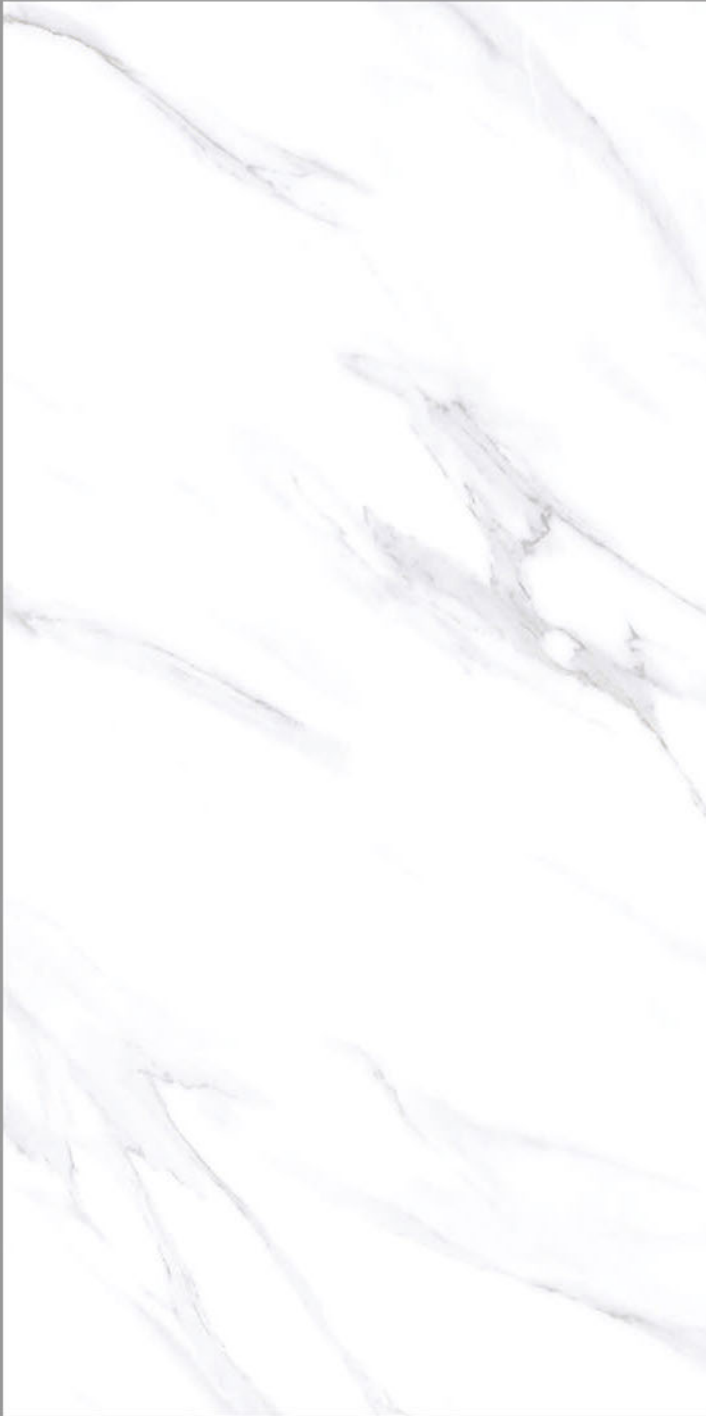
BATHROOMS



KITCHENS



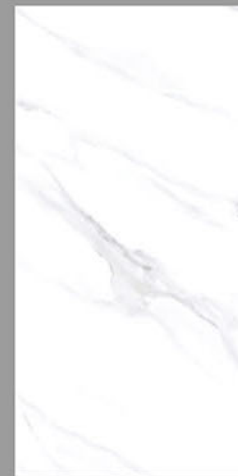
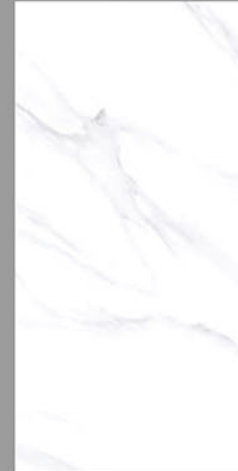




## ANTIQUE SATUARIO

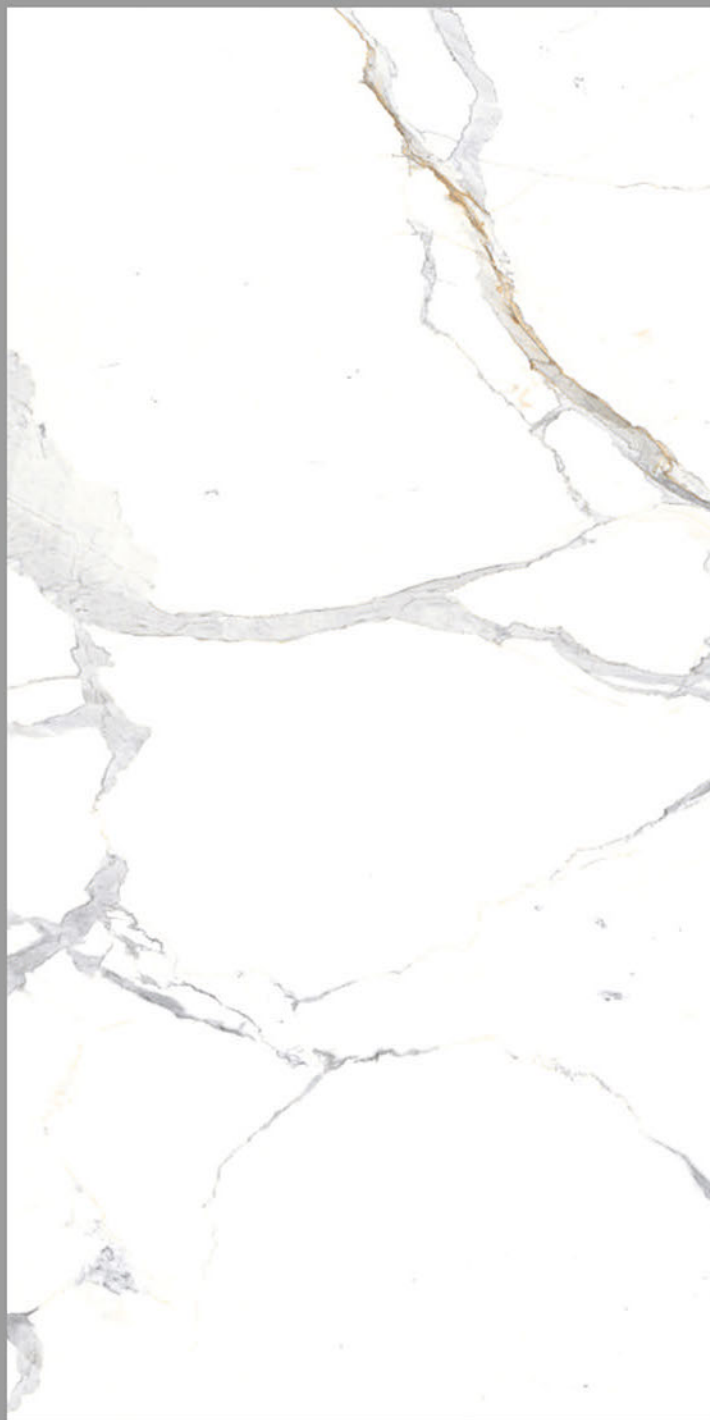
Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

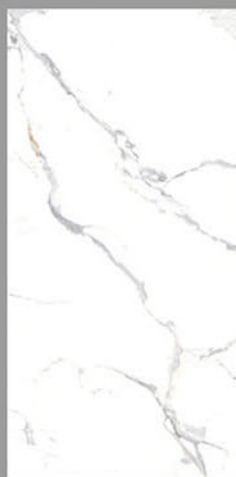
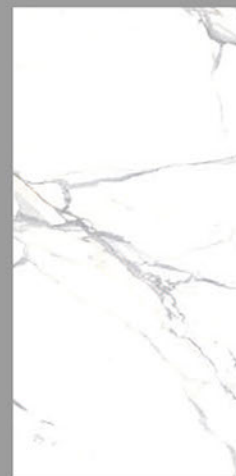
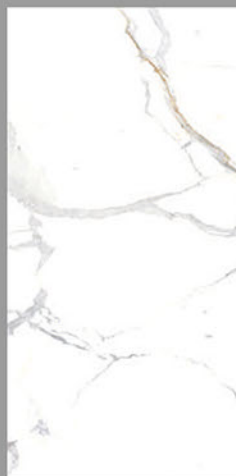
**SATUARIO**  
SERIES



# CARARA GREY

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

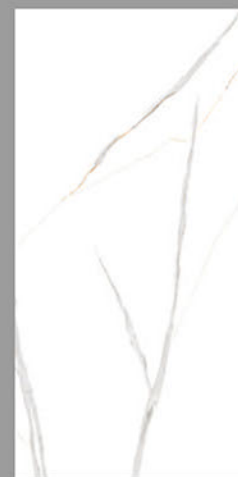
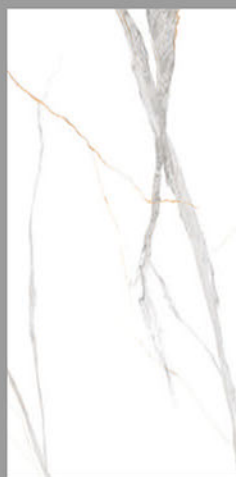
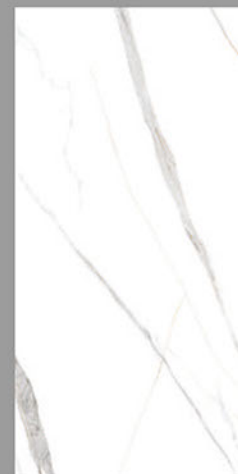
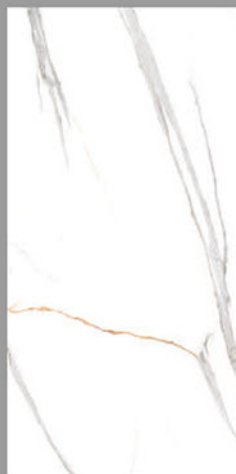
**SATUARIO**  
SERIES



# CARLOS CARARA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_

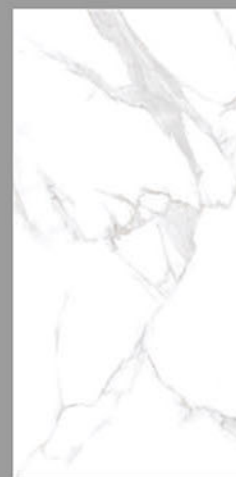
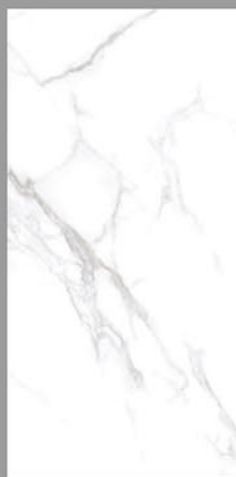
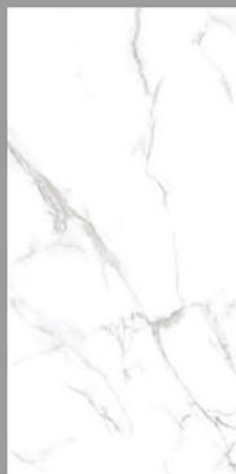




## MERQURY SATUARIO

Size :  
**600x1200mm**

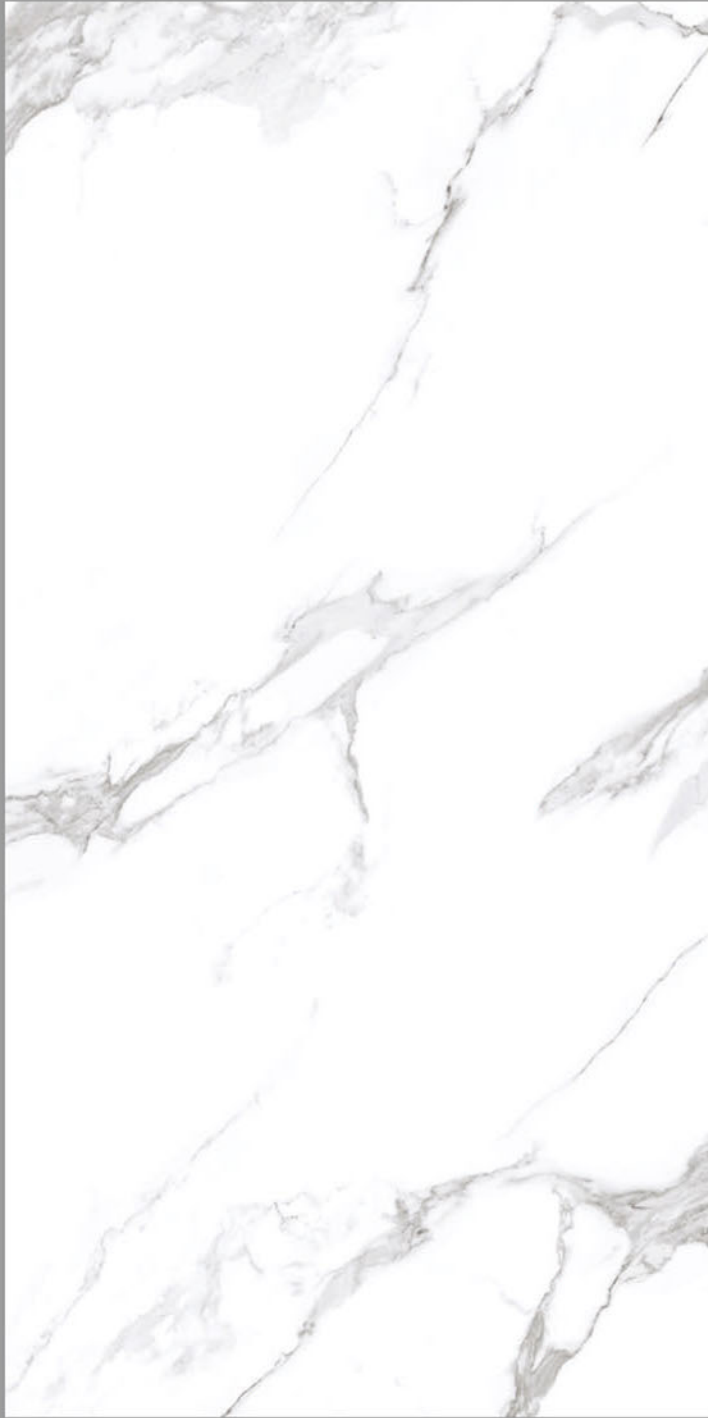
Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES

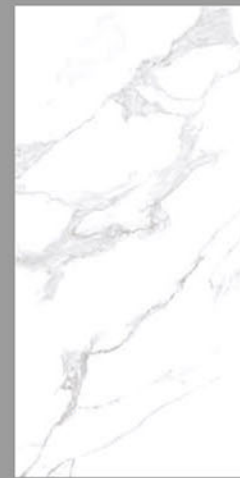
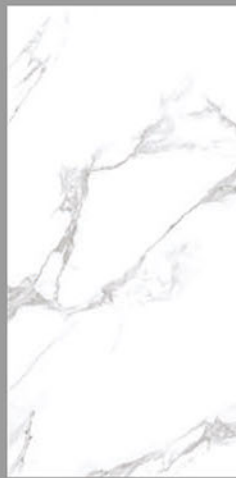
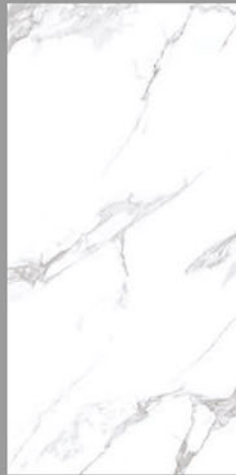




**NEW  
CARARA**

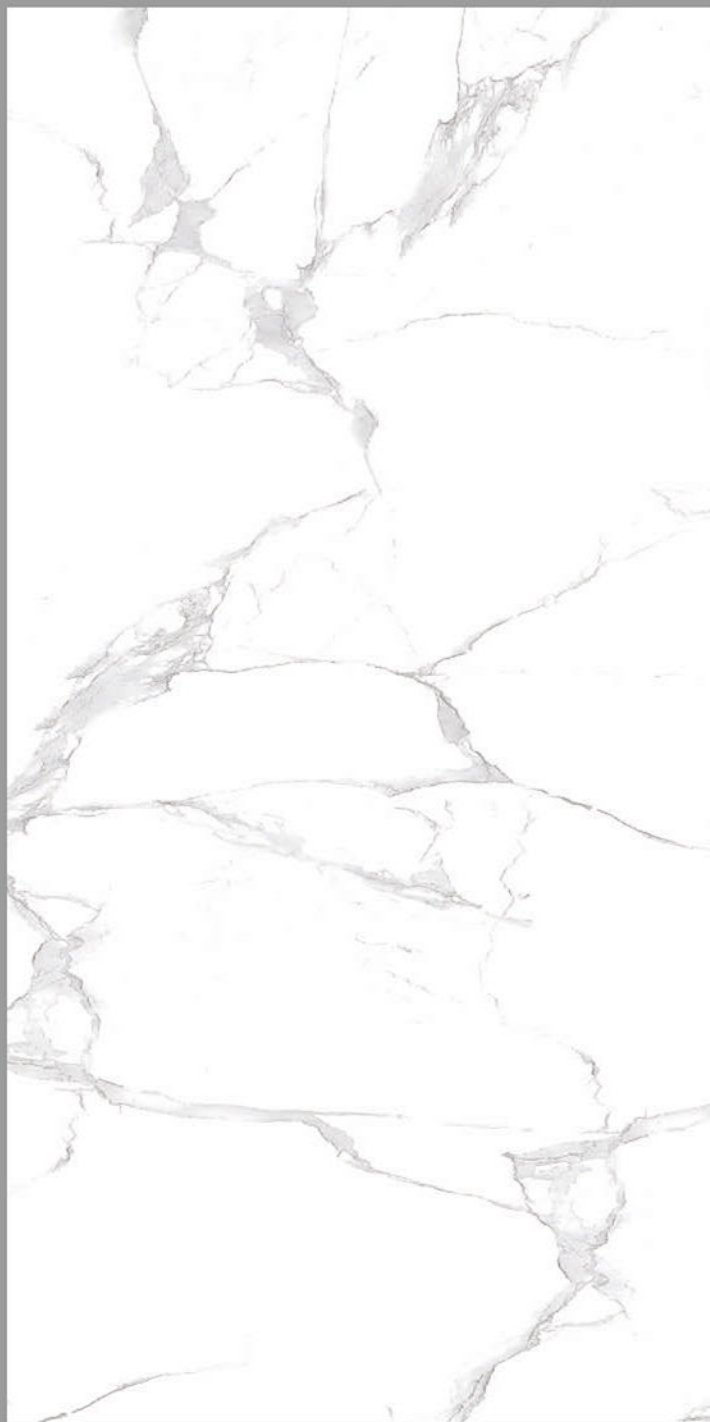
Size :  
**600x1200mm**

**Random**



Thickness :  
**9mm**

**SATUARIO**  
SERIES



## SATUARIO ALASKA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_



# SATUARIO MARMOLA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_



## SATUARIO ELEGANT

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

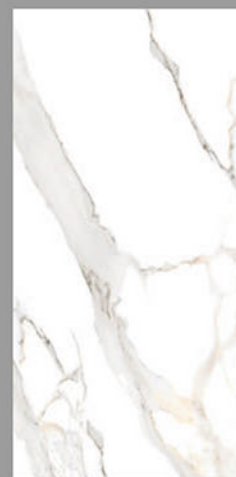
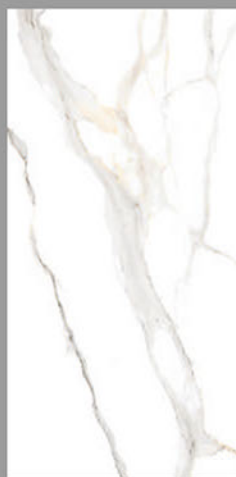
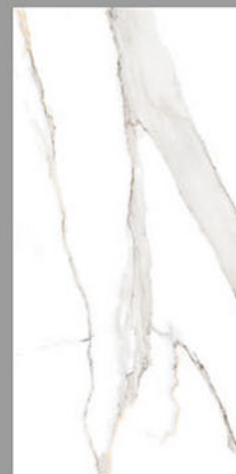
**SATUARIO**  
SERIES \_\_\_\_\_



## SATUARIO FANTASTICO

Size :  
**600x1200mm**

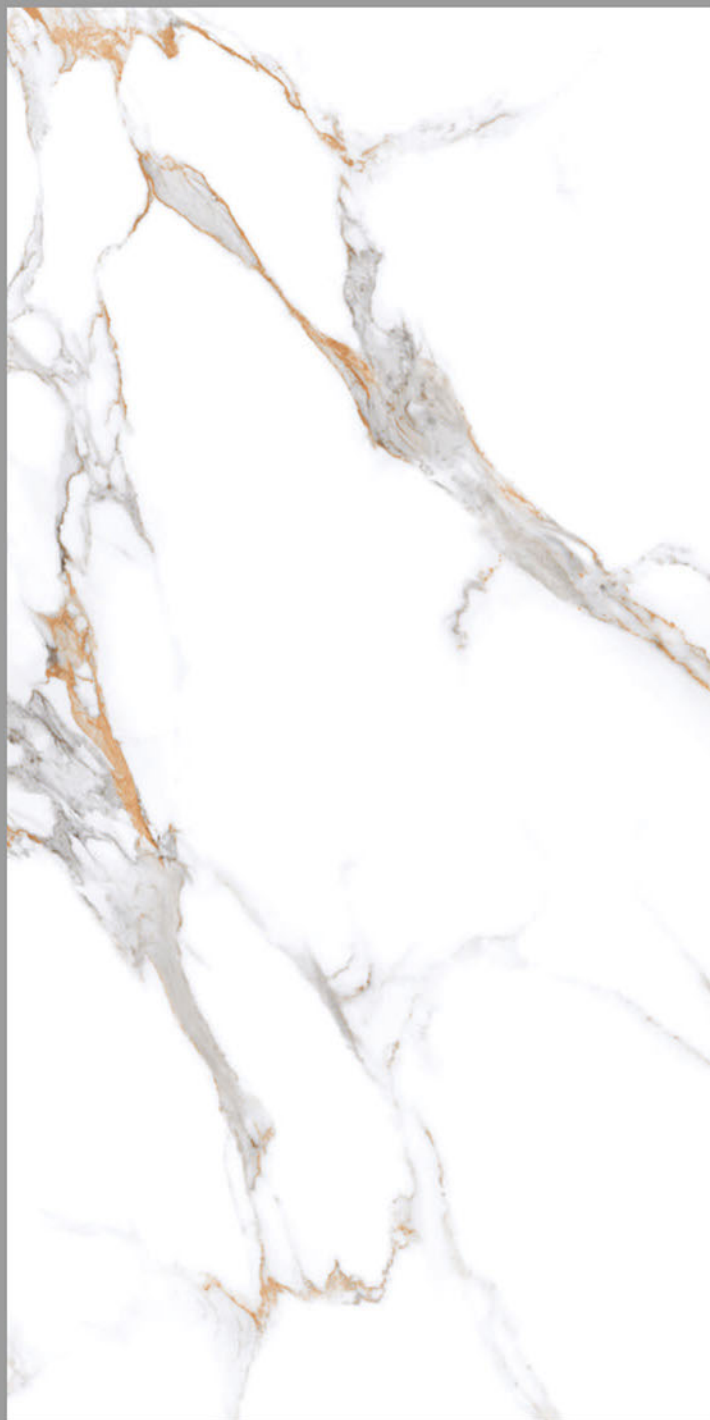
Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_





# SATUARIO GOLDEN

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_





## SATUARIO RAGA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_



## SATUARIO STELLA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_

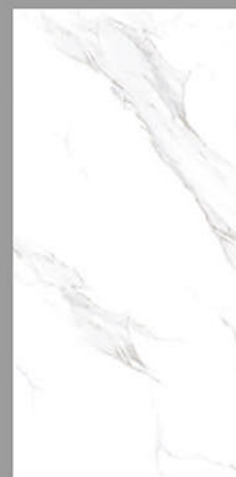
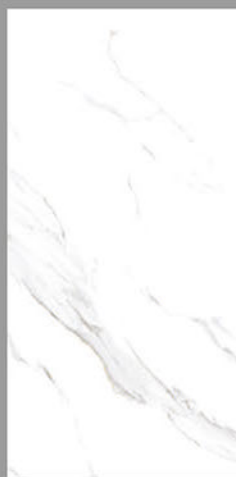
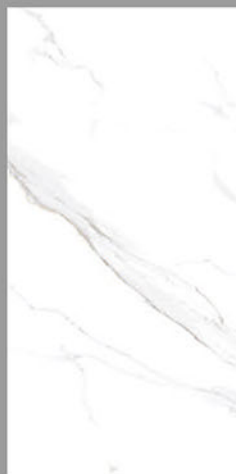




## SATUARIO TESTO

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

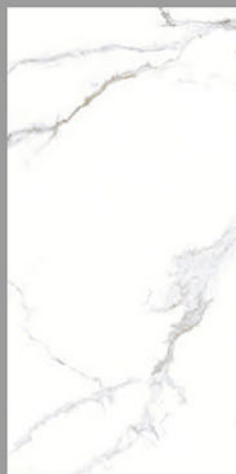
**SATUARIO**  
SERIES \_\_\_\_\_



## SATUARIO TEXAS

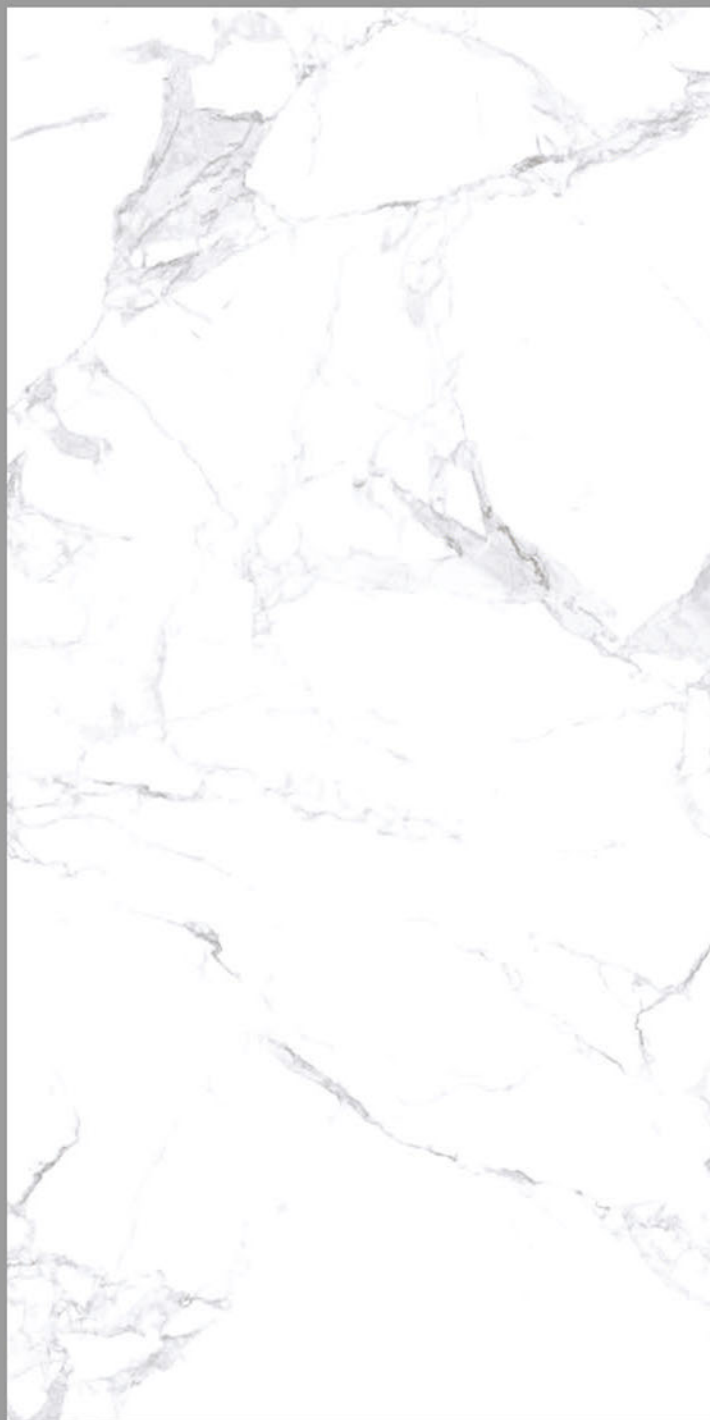
Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

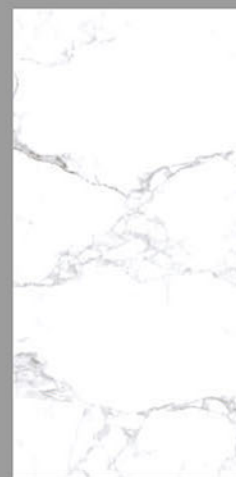
**SATUARIO**  
SERIES \_\_\_\_\_



# SATUARIO ULTIMO

Size :  
**600x1200mm**

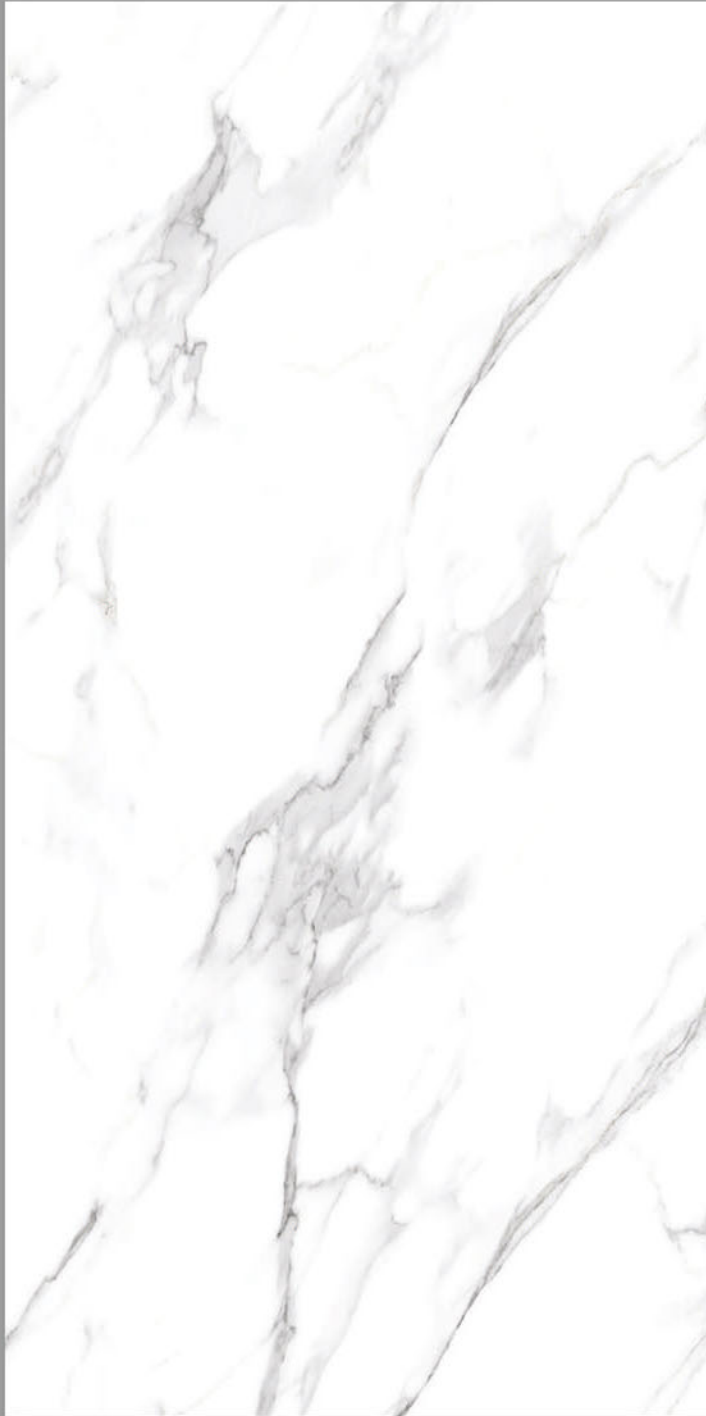
Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_

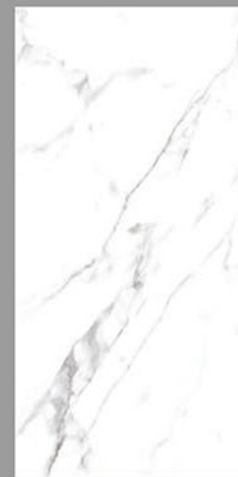
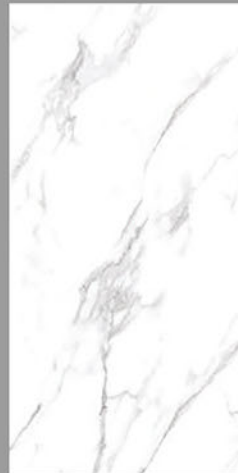




## SATUARIO WAVE

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

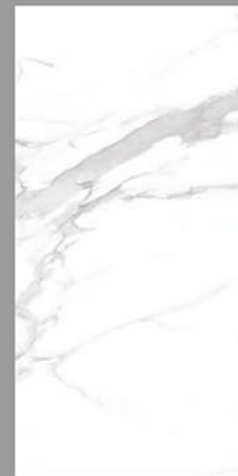
**SATUARIO**  
SERIES \_\_\_\_\_



# SATUARIO WEATHER

Size :  
**600x1200mm**

Random



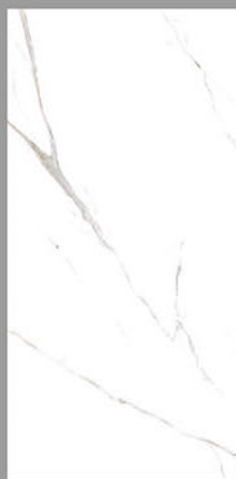
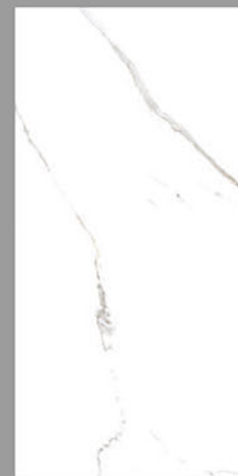
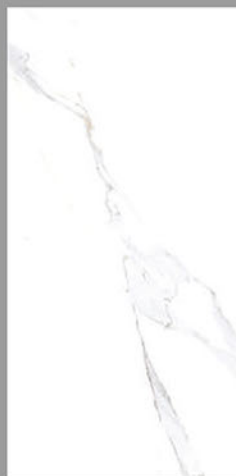
Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_

# SATUARIO ENCKO

Size :  
**600x1200mm**

**Random**



Thickness :  
**9mm**

**SATUARIO**  
SERIES \_\_\_\_\_

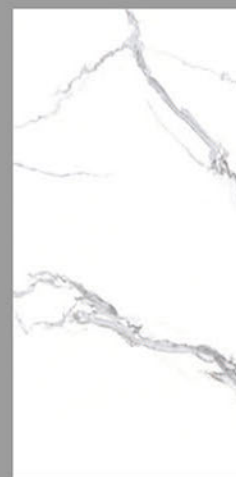
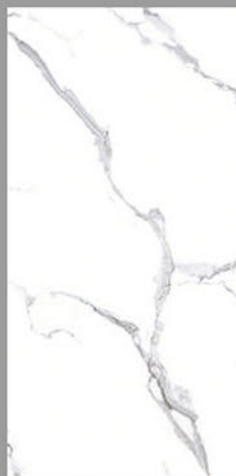




## VICTORIA

Size :  
**600x1200mm**

Random



Thickness :  
**9mm**

**SATUARIO**  
SERIES

# TECHNICAL SPECIFICATION

CHARACTERISTIC	STANDARD AS PER ISO13006:2018/ EN14411 Gr.Bla	MEAN VALUE	TEST METHOD
<b>Regulatory Properties</b>			
Deviation in Length and Width	± 0.30 % (±1.00mm)	± 0.10 %	ISO 10545-2
Deviation in Thickness	± 5.00 % (±0.50mm)	± 4.00 %	ISO 10545-2
Straightness in Side	± 0.30 % (±0.80mm)	± 0.10 %	ISO 10545-2
Rectangularity	± 0.30 % (±1.50mm)	± 0.10%	ISO 10545-2
Surface Flatness Central Curvature	± 0.40 % (±1.80mm)	± 0.20 %	ISO 10545-2
Surface Flatness Edge Curvature	± 0.40 % (±1.80mm)	± 0.20 %	ISO 10545-2
Surface Flatness Warpage	± 0.40 % (±1.80mm)	± 0.10 %	ISO 10545-2
Surface Quality	>95% defects free	>95% defects free	ISO 10545-2
Small Color Difference(for Plain Colour)	ΔE <1.00	ΔE < 0.30	ISO 10545-16
Glossiness ( Polished)	as per mfg.	Gloss Value >90	Gloss Meter 60°
Glossiness (Matt)	as per mfg.	3< Gloss Value <7	Gloss Meter 60°
Glossiness (Satin/Posh)	as per mfg.	7< Gloss Value <18	Gloss Meter 60°
<b>Structural Properties</b>			
Water absorption	≤0.50 %	≤0.060 %	ISO 10545-3
Bulk density	as per mfg.	Min. 2.28 g/cc	ISO 10545-3
<b>Massive Mechanical Properties</b>			
Modulus of rupture	Min. 35.0 N/mm <sup>2</sup>	Min. 42.0 N/mm <sup>2</sup>	ISO 10545-4
Breaking strength thickness <7.5	Min. 700.0 N	Min. 1000.0 N	ISO 10545-4
Breaking strength thickness ≥7.5	Min. 1300.0 N	Min. 1800.0 N	ISO 10545-4
Breaking strength thickness ≥7.5(15mm)	Min. 1300.0 N	Min. 7500.0 N	ISO 10545-4
<b>Surface Mechanical Properties</b>			
MOH'S hardness #	as per mfg.	Polished Min. 4* / Satin, Posh & Matt Min. 6	BS EN 15771
Surface abrasion resistance #	as per mfg.	Polished Min. 2 / Satin & Posh Min. 3 / Matt Min. 4	ISO 10545-7
Deep abrasion resistance #	Max. 175mm <sup>3</sup>	Max. 132mm <sup>3</sup>	ISO 10545-6
<b>Thermal Hydrometric Properties</b>			
Moisture expansion	Max. 0.06%(0.6mm/m)	Max. 0.02mm/m	ISO 10545-10
Thermal expansion(COE) at 100°C	as per mfg.	Max. 6.0 x 10 <sup>-6</sup>	ISO 10545-8
Thermal shock resistance	Min. 10 Cycle	Min. 10 Cycle	ISO 10545-9
Impact resistance(COR) #	Min. 0.55	Min. 0.55	ISO 10545-5
Frost resistance	as per mfg.	Frost Proof	ISO 10545-12
<b>Chemical Properties</b>			
Resistance to staining glazed	Min. Class 3	Min. Class 4	ISO 10545-14
Resistance to household chemicals & swimming pool salts glazed	Min. Class GB	Min. Class GA	ISO 10545-13
Resistance to low concentrate acid and alkalis glazed	as per mfg.	Min. Class GLA**	ISO 10545-13
Resistance to high concentrate acid and alkalis glazed	as per mfg.	Min. Class GHB**	ISO 10545-13
<b>Safety Properties</b>			
Skid resistance(DCOF-DRY) ##	as per mfg.	Glossy P0(<12) / Posh ≥P1 (12-24) / Matt ≥P2(25-34)	BS 7976-2
Slip resistance(DCOF) ( R value) ##	as per mfg.	R9 to R13	DIN 51130
Fire resistance	as per mfg.	Fire Proof	N.A.

Parameters are applicable for 1st Choice/Premium Grade Materials Only.

## PACKING DETAILS

PRODUCT	SIZE	THICKNESS	TILES / BOX
GLAZED PORCELAIN TILE	600x1200mm / 24"x 48 INCH	9mm	2 pcs.

ETTO<sup>TM</sup>  
TILES