

 **ESS**
FUTURE





GENERAL CATALOGUE













STONE
COLLECTION
2022

SYMBOL

ICON	Description
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	Floorings subject to light traffic and laid in areas protected from abrasive and scratching agents such as sand, gravel, etc. In general, these tiles may be laid in bedrooms, bathrooms and private dwellings.	Class I (PE.I I)
	Floorings exposed to medium-light traffic and laid in areas protected from abrasive and scratching agents, such as sand, gravel, etc. In general, these tiles may be laid anywhere in private dwellings, except kitchens.	Class II (PE.I II)
	Floorings exposed to medium traffic and laid in areas protected from abrasive and scratching agents, such as sand, gravel, etc. In general, these tiles may be laid anywhere in private dwellings and also in commercial type areas with light traffic.	Class III (PE.I III)
	Floorings exposed to medium-heavy traffic and laid in areas protected from abrasive and scratching agents, such as sand, gravel, etc. In general, these tiles may be laid in restaurants, hotels, shops, schools, offices, etc.	Class IV (PE.IV)

Icon	Description
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	Frost Resistant
	Single Fired
	Acid Resistant
	Polished Tile
	Semi Polished Tile
	Matt Tile
	Anti Slip
	Uniform Appearance
	Moderate Variation
	Substantial Variation



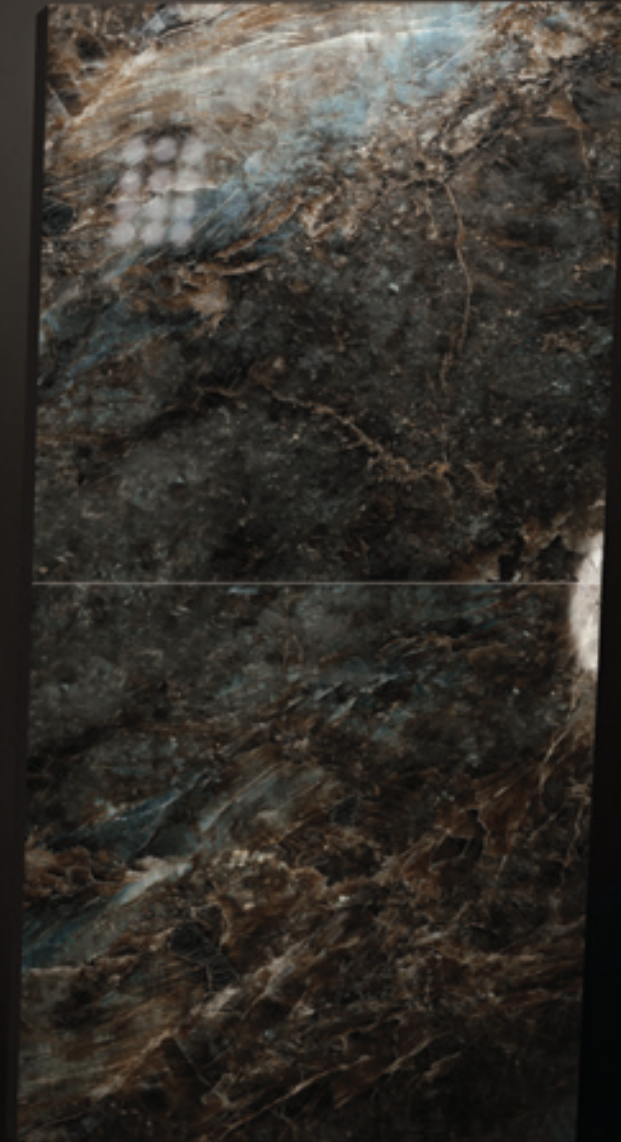
Stone
Collection 2022

- EMERALD
- STRAND
- PIETRA
- ALPINE
- SALINO
- CLASSIC MARBLE
- SAHARA
- BERGAMO
- MOON ROCK
- FOREST
- PRADA
- FLAVIA
- VISION
- PACIFIC
- CRYSTAL
- VALERIA
- CROWN
- GRANADA
- KATHMANDU
- BASALT
- SILVA

EMERALD

STONE COLLECTION

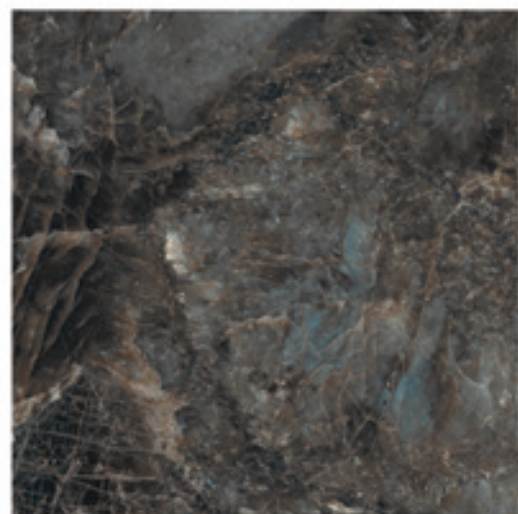
100x100



EMERALD 

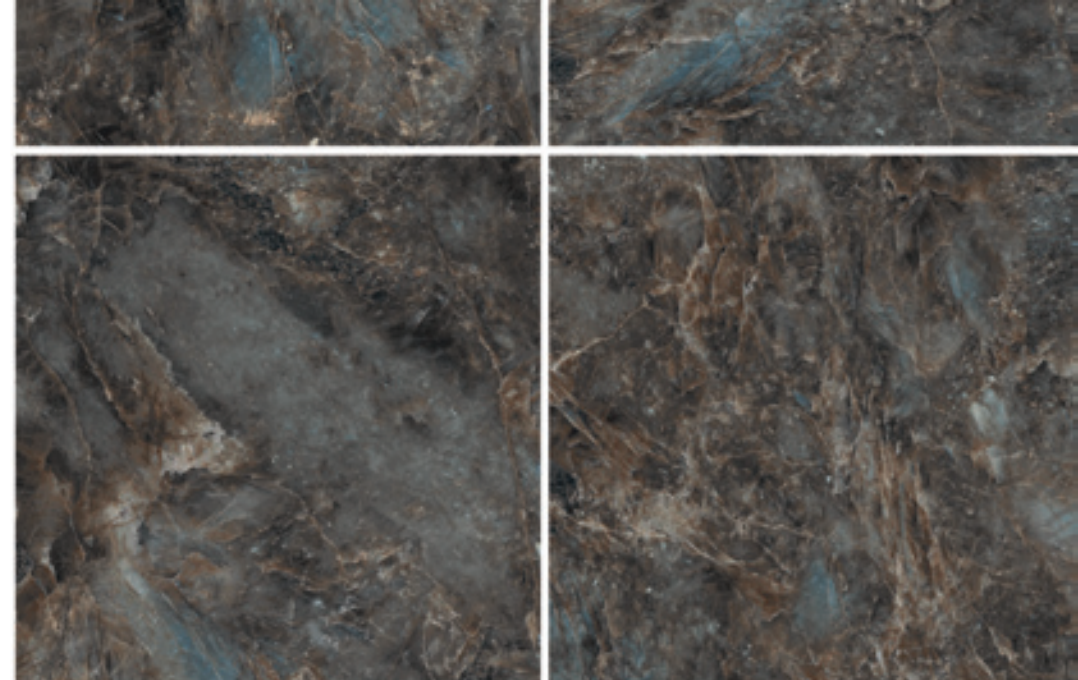
STONE COLLECTION

100x100



V
2
Face
6


8350 Emerald Galaxy & Blue



STRAND (POLISHED)



STONE COLLECTION

100X100



V
1
Face
4

8360 Strand Beige

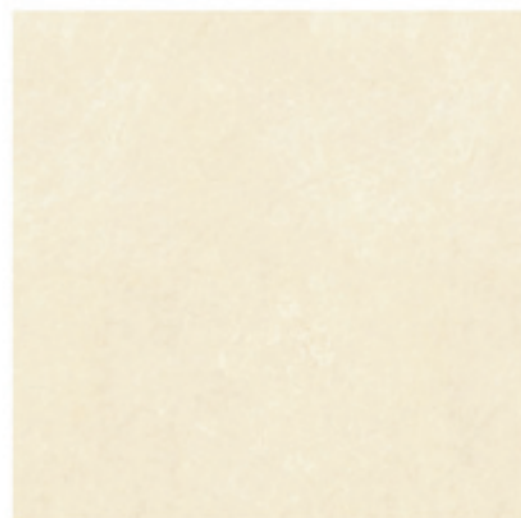


STRAND (MATT)



STONE COLLECTION

100X100



V
1
Face
4

8324 Strand Beige



PIETRA

STONE COLLECTION

60x120



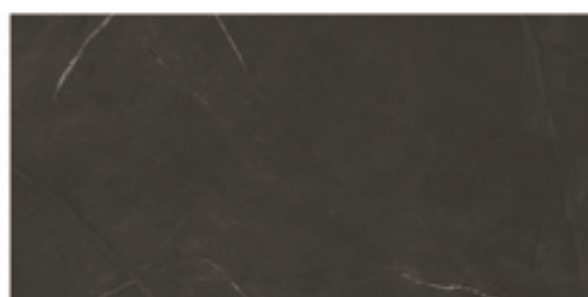
PIETRA 
STONE COLLECTION
60x120 | 100x100



8100 Pietra Active Gray



8101 Pietra Dark Gray



8102 Pietra Black



PIETRA

STONE COLLECTION

100x100



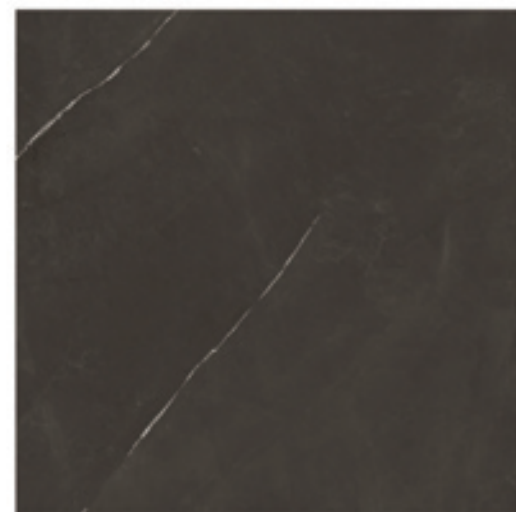
PIETRA 
STONE COLLECTION
100x100 | 60x120



8100 Pietra Active Gray



8101 Pietra Dark Gray



8102 Pietra Black



ALPINE MARAL TOWER
STONE COLLECTION
60x120

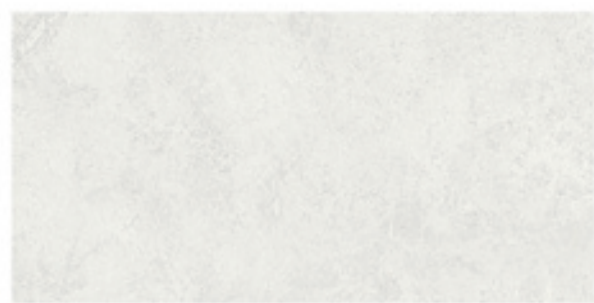
36-40

ALPINE



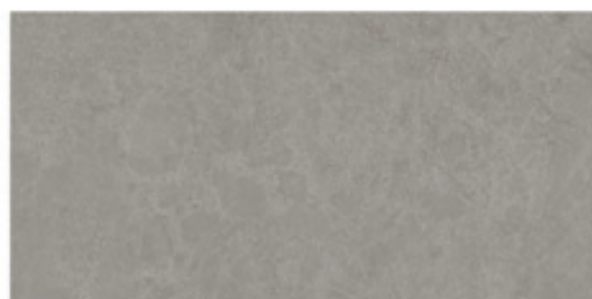
STONE COLLECTION

60x120 | 100x100



V
1
Face
4

8105 Alpine Light Gray



V
1
Face
4

8106 Alpine Dark Gray



V
1
Face
4

8107 Alpine Beige



ALPINE

STONE COLLECTION

100x100

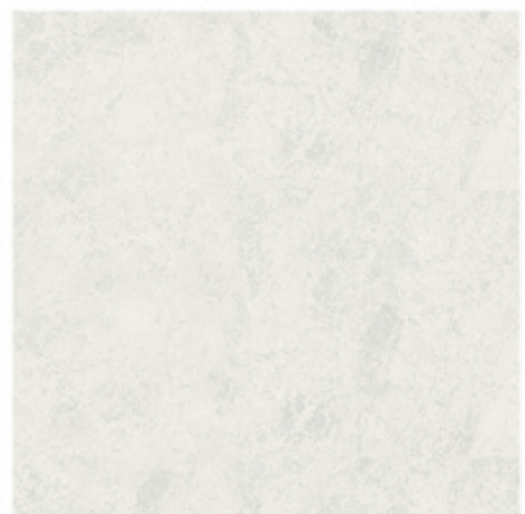


ALPINE



STONE COLLECTION

100x100 | 60x120



V
1
Face
4

8105 Alpine Light Gray



V
1
Face
4

8106 Alpine Dark Gray



V
1
Face
4

8107 Alpine Beige



SALINO 
STONE COLLECTION
100x100



V
1
Face
5


8342 Salino Moon Light



SALINO

STONE COLLECTION

100x100

8342

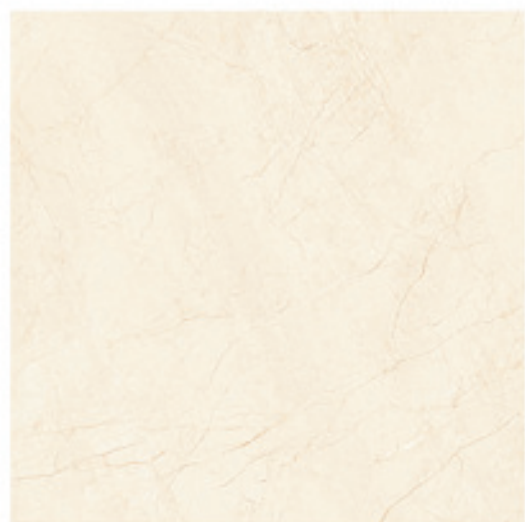
Specialized design
Intelligent product

CLASSIC MARBLE



STONE COLLECTION

100x100



V
1
Face
4

8346 Classic Marble Beige



SAHARA

STONE COLLECTION

100x100

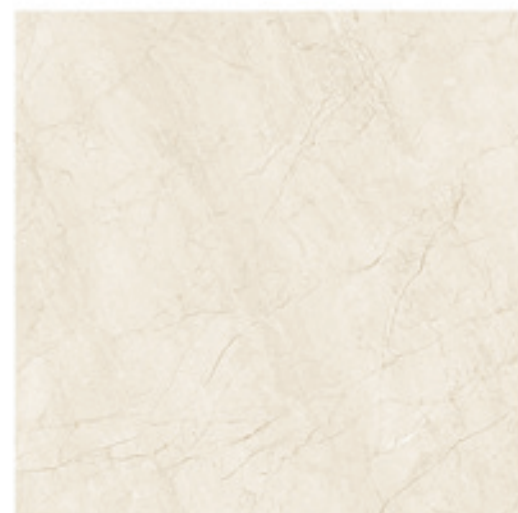


SAHARA



STONE COLLECTION

100x100 | 60x120



V
1
Face
4

8337 Sahara Beige



V
1
Face
4

8338 Sahara Light Gray

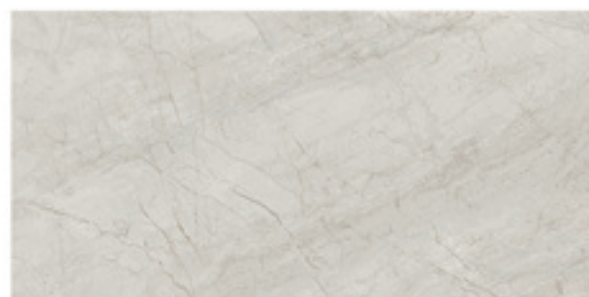


SAHARA

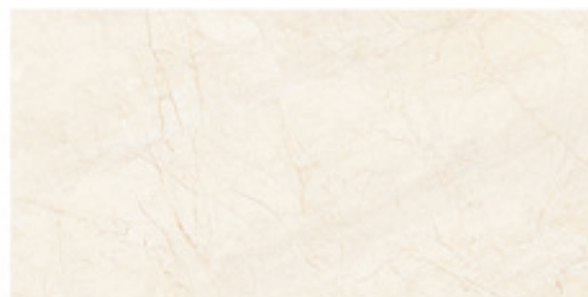


STONE COLLECTION

60x120 | 100x100



8138 Sahara Light Gray



8137 Sahara Beige



BERGAMO



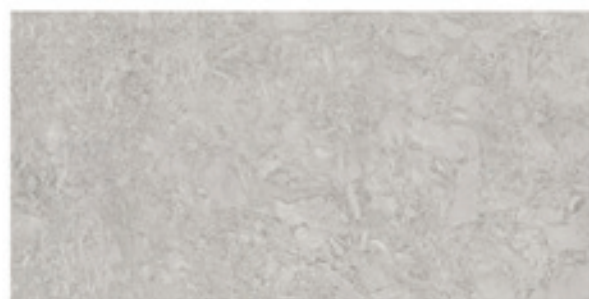
STONE COLLECTION

60x120



V
1
Face
7

7752 Bergamo Light Gray



V
1
Face
7

7753 Bergamo Medium Gray



V
1
Face
7

7754 Bergamo Gray



MOON ROCK
STONE COLLECTION
60x120



MOON ROCK



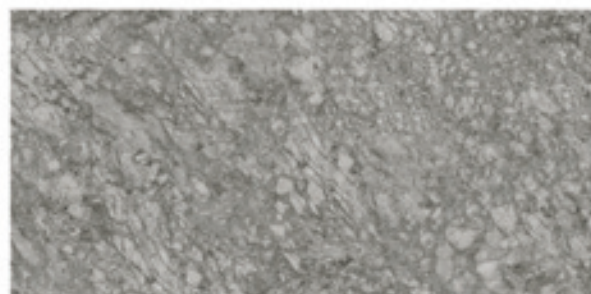
STONE COLLECTION

60x120



V
1
Face
4

8084 Moon Rock Light Gray



V
1
Face
4

8085 Moon Rock Dark Gray



FOREST



STONE COLLECTION

60x120



V
1
Face
5

7738 Forest Green



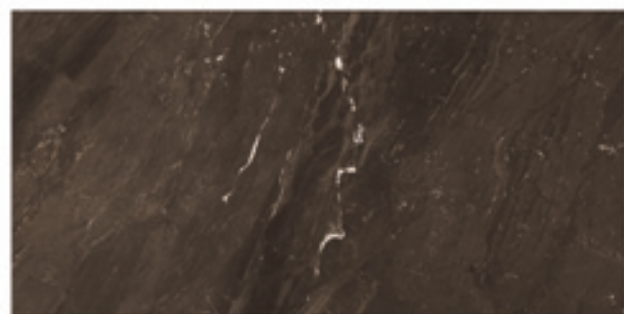
Aligned
with modern
architecture



PRADA 

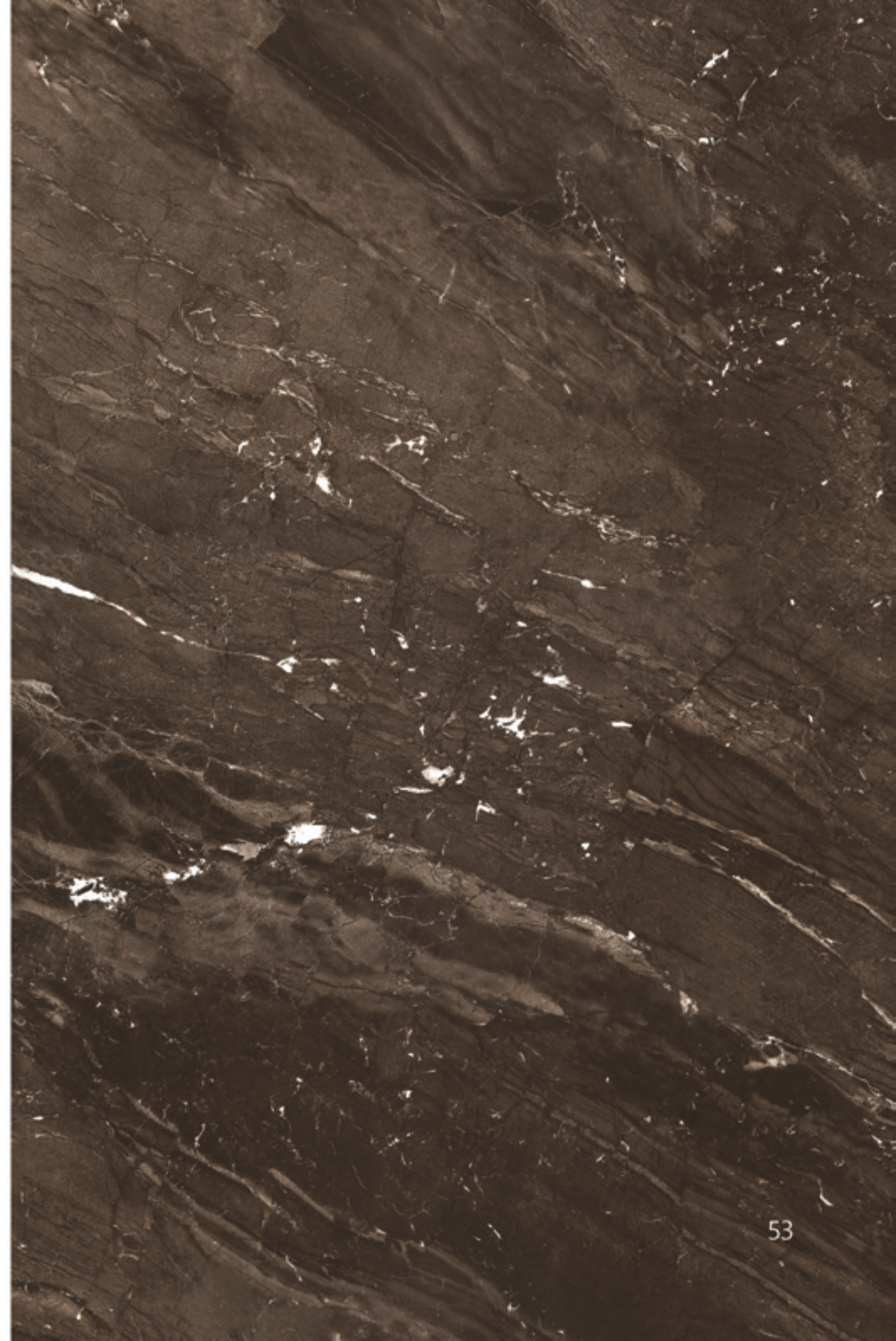
STONE COLLECTION

60x120



V
1
Face
6

8277 Prada Black



FLAVIA 

STONE COLLECTION

60x120

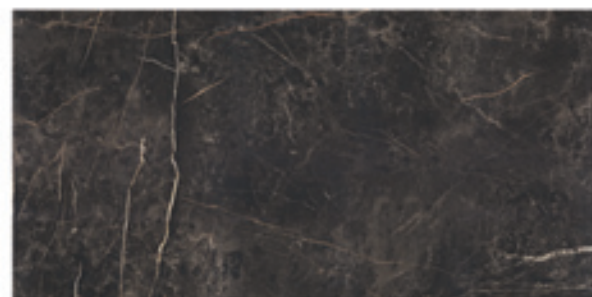


V
2
Face
12

8066 Flavia Beige

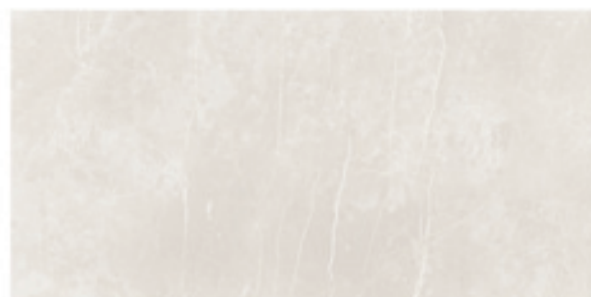


VISION 
STONE COLLECTION
60x120



V
1
Face
8


8036 Vision Black



V
1
Face
8


8035 Vision Light Beige



PACIFIC



STONE COLLECTION

60x120



V
1
Face
4

7712 Pacific Brown



V
1
Face
4

7711 Pacific Bone



CRYSTAL



STONE COLLECTION

60x120



V
1
Face
9

7707 Crystal White



VALERIA



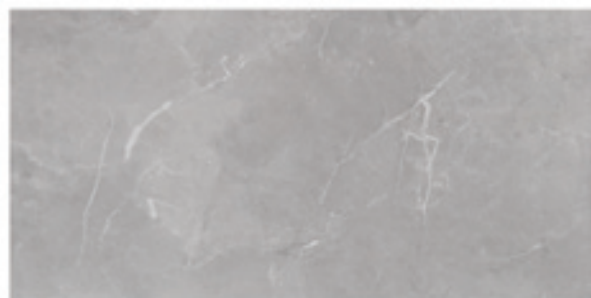
STONE COLLECTION

60x120



V
1
Face
7

8077 Valeria Light Gray



V
1
Face
7

8078 Valeria Gray



CROWN 

STONE COLLECTION

60x120



V
1
Face
6

7700 Crown White

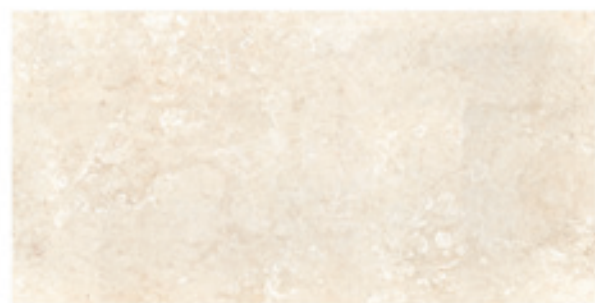


GRANADA

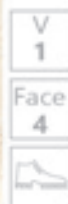


STONE COLLECTION

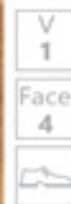
60x120



7141 Granada Light Beige



7144 Granada Brown



7142 Granada Beige

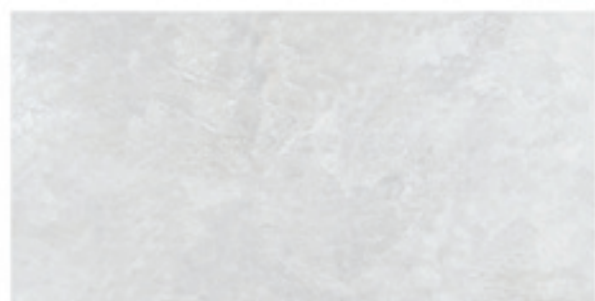


KATHMANDU



STONE COLLECTION

60x120



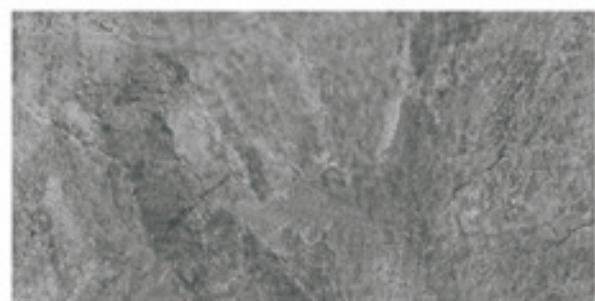
V
1
Face
8

8263 Kathmandu Light Gray



V
1
Face
8

8264 Kathmandu Medium Gray



V
1
Face
8

8265 Kathmandu Gray



KATHMANDU



STONE COLLECTION

60x120

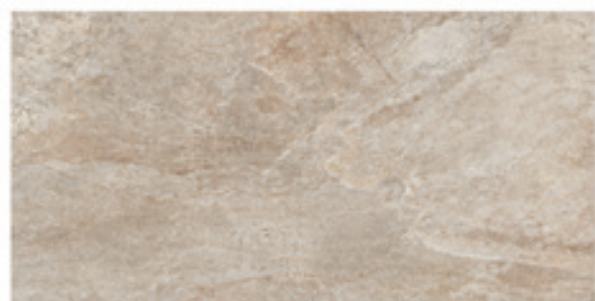


V
1

Face
8



8266 Kathmandu Bone



V
1

Face
8



8269 Kathmandu Beige



V
1

Face
8



8268 Kathmandu Light Beige

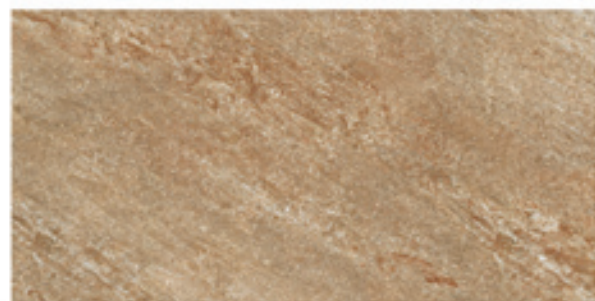


BASALT 
STONE COLLECTION
60x120



V
1
Face
10


7717 Basalt Light Beige



V
1
Face
10


7718 Basalt Beige



V
1
Face
10


7719 Basalt Light Gray



V
1
Face
10


7720 Basalt Gray



SILVA 
STONE COLLECTION
60x120



V
1
Face
5

8069 Silva White



V
1
Face
5

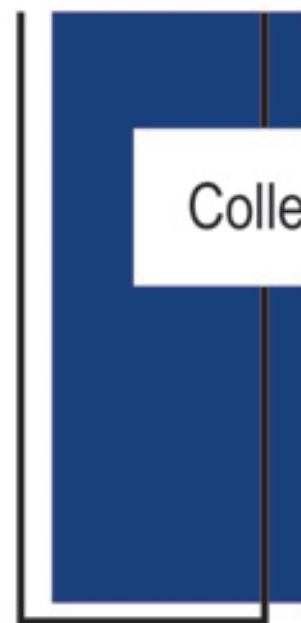
8068 Silva White



Technical Specifications
&
Packing Specifications



Technical & Packing Specifications



Collection 2022

TECHNICAL SPECIFICATIONS

WHITE BODY TILE SPECIFICATIONS (FIRST GRADE)		
	SIZE 60x60 (Rectified) 13mm	SIZE 100X100 (Rectified)
LENGTH & WIDTH	Max ±0.4 mm	Max ±0.5 mm
SURFACE FLATNESS	Max ±0.5 mm	Max ±0.5 mm
THICKNESS	±4% of Nominal thickness	±4% of Nominal thickness
RECTANGULARITY	Max 0.6 mm	Max 0.6 mm
STRAIGHTNESS OF SIDES	Max ±0.3 mm	Max ±0.3 mm
WATER ABSORPTION (Weight Percent)	Average ≤0.5%	Average ≤0.5%
MODULUS OF RUPTURE (N/mm ²) (BENDING STRENGTH)	Average ≥40 Min. 37	Average ≥40 Min. 37
BREAKING STRENGTH(N)	Min 4000	Min 1500
ABRASION RESISTANCE	II-IV According to ISO 10545-7	II-IV According to ISO 10545-7
THERMAL SHOCK RESISTANCE	In compliance with the requirements of ISO 10545-9	In compliance with the requirements of ISO 10545-9
THERMAL EXPANSION COEFFICIENT (0-100°C)	Max. 5×10 ⁻⁶ (1/K)	Max. 5×10 ⁻⁶ (1/K)
CRAZING RESISTANCE	In compliance with the requirements of ISO 10545-11	In compliance with the requirements of ISO 10545-11
FROST RESISTANCE	In compliance with the requirements of ISO 10545-12	In compliance with the requirements of ISO 10545-12
STAIN RESISTANCE	Class 5 According to ISO 10545-14	Class 5 According to ISO 10545-14
CHEMICAL RESISTANCE	Class GLA According to ISO 10545-13	Class GLA According to ISO 10545-13
FRICTION COEFFICIENT	Min II In compliance with the requirements of ISO 10545-17	Min II In compliance with the requirements of ISO 10545-17
IMPACT RESISTANCE	Min 0.8 In compliance with the requirements of ISO 10545-5	Min 0.8 In compliance with the requirements of ISO 10545-5

TECHNICAL SPECIFICATIONS

WHITE BODY TILE SPECIFICATIONS (FIRST GRADE)			
	SIZE 20X20 , 25X25 , 30X30 , 33X33 (Acid Resistant Non Rectified)		SIZE 33X33 (alkali Resistant Non Rectified)
LENGTH & WIDTH	20x20 , 25x25	33x33 , 30x30	Max ±0.9 mm
	Max ±1.2 mm	Max ±0.9 mm	
STRAIGHTNESS OF SIDES	Max ±0.4 mm	Max ±0.7 mm	Max ±0.7 mm
SURFACE FLATNESS	Max ±0.5 mm	Max ±0.7 mm	Max ±0.7 mm
THICKNESS	±4% of nominal thickness		±4% of nominal thickness
RECTANGULARITY	Max 1 mm		Max 1 mm
WATER ABSORPTION (Weight Percent)	Average ≤0.5%		Average ≤0.5%
MODULUS OF RUPTURE (N/mm ²) (BENDING STRENGTH)	Average ≥40 Min. 37		Average ≥40 Min. 37
BREAKING STRENGTH (N)	Min 1500		Min 1500
ABRASION RESISTANCE	II-IV According to ISO 10545-7		II-IV According to ISO 10545-7
THERMAL SHOCK RESISTANCE	In compliance with the requirements of ISO 10545-9		In compliance with the requirements of ISO 10545-9
THERMAL EXPANSION COEFFICIENT (0-100°C)	Max. 5×10 ⁻⁶ (1/K)		Max. 5×10 ⁻⁶ (1/K)
CRAZING RESISTANCE	In compliance with the requirements of ISO 10545-11		In compliance with the requirements of ISO 10545-11
FROST RESISTANCE	In compliance with the requirements of ISO 10545-12		In compliance with the requirements of ISO 10545-12
STAIN RESISTANCE	Class 5 According to ISO 10545-14		Class 5 According to ISO 10545-14
CHEMICAL RESISTANCE	Class GLA According to ISO 10545-13		Class GLA According to ISO 10545-13
FRICTION COEFFICIENT	Min II In compliance with the requirements of ISO 10545-17		Min II In compliance with the requirements of ISO 10545-17
IMPACT RESISTANCE	Min 0.8 In compliance with the requirements of ISO 10545-5		Min 0.8 In compliance with the requirements of ISO 10545-5
RESISTANCE TO CONCENTERATED ACID WEIGHT LOSS	≤1% According to ISIRI 3051		-

TECHNICAL SPECIFICATIONS

WHITE BODY TILE SPECIFICATIONS (FIRST GRADE) SIZE 60x60, 20x120, 60x120 (Rectified)		
LENGTH & WIDTH	60x60, 20x120	60x120
	Max ±0.4 mm	Max ±0.5 mm
SURFACE FLATNESS	Max ±0.5 mm	
THICKNESS	±4% of Nominal thickness	
RECTANGULARITY	Max 0.6 mm	
STRAIGHTNESS OF SIDES	Max ±0.3 mm	
WATER ABSORPTION (Weight Percent)	Average ≤0.5%	
MODULUS OF RUPTURE (N/mm ²) (BENDING STRENGTH)	Average ≥40 Min. 37	
BREAKING STRENGTH(N)	Min 1500	
ABRASION RESISTANCE	II-IV According to ISO 10545-7	
THERMAL SHOCK RESISTANCE	In compliance with the requirements of ISO 10545-9	
THERMAL EXPANSION COEFFICIENT (0-100°C)	Max. 5×10 ⁻⁶ (1/K)	
CRAZING RESISTANCE	In compliance with the requirements of ISO 10545-11	
FROST RESISTANCE	In compliance with the requirements of ISO 10545-12	
STAIN RESISTANCE	Class 5 According to ISO 10545-14	
CHEMICAL RESISTANCE	Class GLA According to ISO 10545-13	
FRICTION COEFFICIENT	Min II In compliance with the requirements of ISO 10545-17	
IMPACT RESISTANCE	Min 0.8 In compliance with the requirements of ISO 10545-5	

PACKING SPECIFICATIONS

Description	Acid Resistant Tile					
	20x20	25x25		33x33		30x30
	9 mm	10 mm	11 mm	11 mm	12 mm (Alkali Resistant)	12 mm
Thickness (mm)	9±4%	10.4±4%	11±4%	11±4%	12±4%	12±4%
Pieces/Carton	25	15	14	9	9	13
Quantity/Carton (m ²)	0.94	0.89	0.83	0.93	0.94	1.17
(Approx) Kg/Carton	18.9	20.5	19.4	22.6	25.1	30.6
Quantity/Pallet (m ²)	75.2	64.08	59.76	75.33	76.14	63.18
Carton/Pallet	80	72	72	81	81	54
(Approx) Kg/Pallet	1527	1491	1411	1845.6	2048.1	1667.4
Pallet Size (cm)	105x105	105x105	105x105	105x105	105x105	105x105

Description	Normal tile						
	39x39	60x60	60x60	20x120	60x120	60x120 (Polished)	100x100
Thickness (mm)	12±4%	10.7±4%	13±4%	11.4±4%	11.4±4%	11.4±4%	10±4%
Pieces/Carton	6	4	3	6	2	2	2
Quantity/Carton (m ²)	0.91	1.44	1.08	1.4	1.44	1.44	2
(Approx) Kg/Carton	23.7	34.5	32	33.7	36	36	46.3
Quantity/Pallet	58.24	51.84	38.88	50.4	46.08	46.08	64
Carton/Pallet	64	36	36	36	32	32	32
(Approx) Kg/Pallet	1531.8	1257	1167	1228.2	1167	1167	1496.6
Pallet Size (cm)	110x110	110x110	110x110	100x125	105x125	105x125	100x105

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