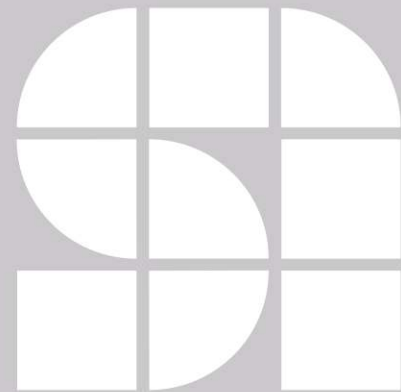


every inch of imagination



SOLID, STRONG, LONG-LASTING
Naturally yours





FROM THE DESK OF MANAGING DIRECTOR

Restile has been in tiling industry for over three decades and our belief in manufacturing 100% Naturally Pressed Designs that Mother Nature has to offer with 0% Digital Printing / 0% Glaze Coating is still as strong. This makes our tiles very sustainable and durable. **Restile** has always had its love for designing tiles for Architects, and we constantly keep updating our products based on the suggestions of architects. This sets us apart from the rest as we give the people a more authentic flooring experience.

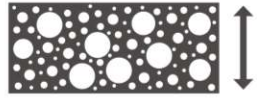
Our Dream and Imagination leads us to Innovation and this innovation creates trends. Proudly caring the tag of “Trend Setters” in the tiling segment. **Restile** showcases its product in this catalogue which imbibes Restile’s signature “unpolished smooth surface finish” and also be available in polished finish, making it the ideal choice for both indoor and outdoor settings.

The tiling industry has always made every efforts in making itself eco-friendly. From using energy saving machineries, to recycling water, waste material and energy. At **Restile**, we truly believe that green is not just a colour, but a badge of honour to be worn by those who truly care for the environment. It is our endeavour to continue our heritage of research into newer and more efficient machinery and materials, and we proudly announce ourselves of Green Manufacturing Unit.

Let us Floor You!

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2	Techno Slabs	27
3	Step-up	41
4	Makers	53
5	Hexa	59



Original 100% full body tiles

Design from top to bottom.
Ensures sustainability and durability.

For the love of Eternal Designs!

Restile tiles are 100% Full Body tiles ie the colour and design is from top to bottom of the tile. Because of its inherent full body properties, the tile can last for decades, very minimal surface wear, ability to mask surface scratches, easy to clean and maintain etc... Restile has been the preferred choice of flooring for any high traffic areas, and is now widely being used in residential flooring purpose as well.



100% Naturally Pressed Designs

100% Natural Designs!

Restile believes in all things natural including the designs we manufacture! All our designs are 100% Naturally Pressed Designs with **0% DIGITAL PRINTING / 0% GLAZE COATING**, which provides just less than 1mm layer of design and other disadvantages along with it. Restile brings in more authenticity to any flooring, by avoiding any surface treatment to give the customer a long lasting, durable product!



TRUE ANTI-SKID

Unpolished? Yes Please!

With only a handful of companies manufacturing full body unpolished tiles, Restile is on top of the list which manufactures the best unpolished surface finish - with **NO GLAZE TREATMENT!** Restile offers two finishes ie. unpolished smooth and unpolished anti-skid. With both having its coefficient of friction > 0.5 | $R > 10$, it prevents you from slipping as well.

Loved by architects, and appreciated by consumers, unpolished finish is the new demand in flooring!

Restile tiles are widely being used in all commercial, all residential, bathroom, outdoors, stairs, restaurants, shops, hospitals, airports, and many more...



ADVANTAGES



Water Absorption < 0.04

- The extreme density of the tile prevents moisture and water from seeping into surface.
- Thus, highly stain resistant



Metal Punch Manufacturing

- Enables us to produce unique and superior unpolished surface finish.



Metal punch process ensure

- Surface finish is uniform and smooth.
- Compaction rate achieved is almost 100%



No surface treatment like glazing required

- Used for hiding the rough surface finish.
- Used to avoid dust attraction in surface pin hole.
- Used to imitate anti-skid surface finish.



Easy to clean and maintain

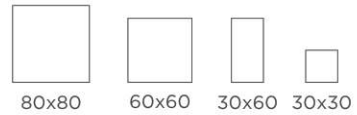
- If glazing is done, then regular usage of chemicals will wear off the glaze from surface.



Shiny surface

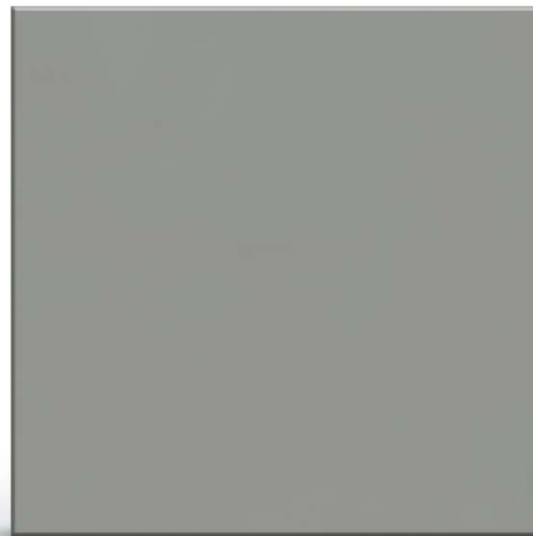
- Surface does not become dull like other tiles (glazing wear off), but instead restile tiles becomes more shiny and attractive upon regular usage.

GRANAMITE FULLBODY DESIGN TILES come in the rich eloquence of granite, giving your floors that magical quality which makes heads turn. Its unique finished smooth surface prevents skids and slips and provides ease in maintenance. Also known as the “Immortals of Tiles”, no matter how rough the usage, the look of the tile still looks brand new. Granamite range is acknowledged by professionals of the industry as the finest flooring material for medium to heavy traffic areas.



SOLID

A series which describes itself as bold and beautiful. The striking solid colors offered in this series has the richness and density like no other. Being full body this provides the solid durability to last forages...



STEEL GREY | SM, PL*





POLO | SM



SUPER POLO | SM



KOTA GREEN | SM, PL*



MUSHROOM | SM





TRENDY | SM, PL*



TERACOTTA | SM, PL

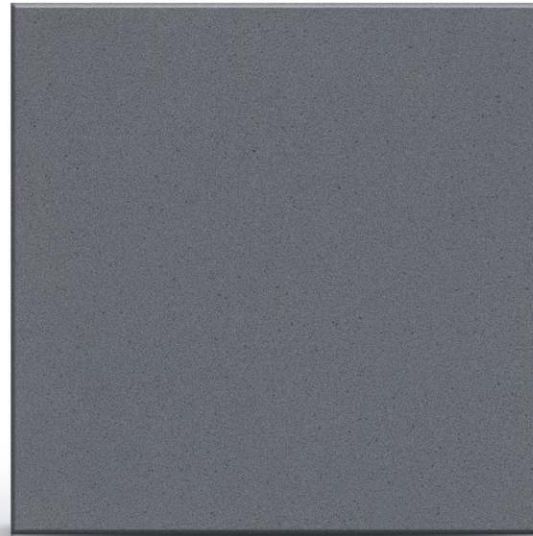


DARK GREY | SM, PL*



SALT & PEPPER

A pinch of salt and a dash of pepper! This series showcases the best of both worlds, the tried and tested old design of granite looking tiles, and the new innovation done by Restile to come much closer to give you a natural flooring!

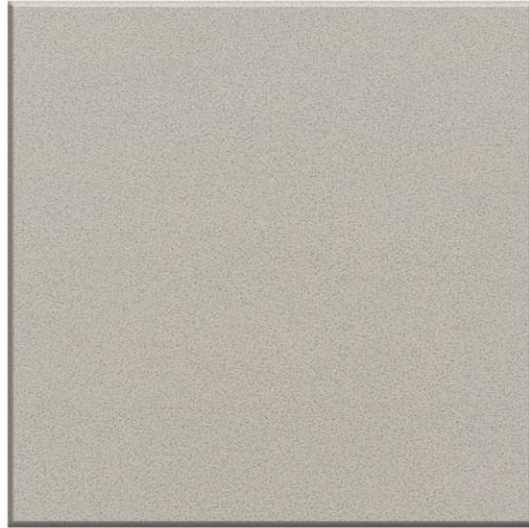


MATRIX | SM, PL





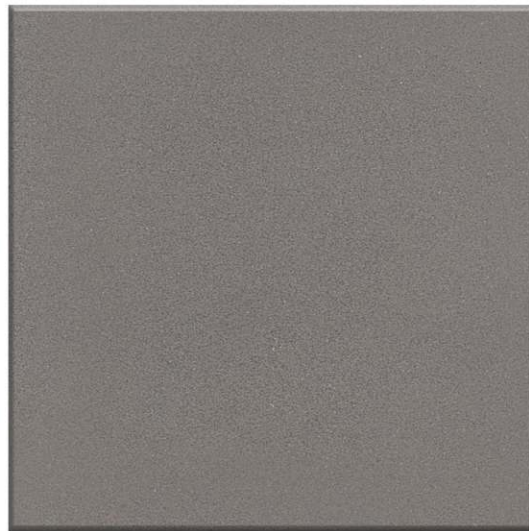
EVEREST | SM, PL*



SAHARA | SM, PL*



ELENA | SM, PL



CHAMPAGNE | SM, PL*



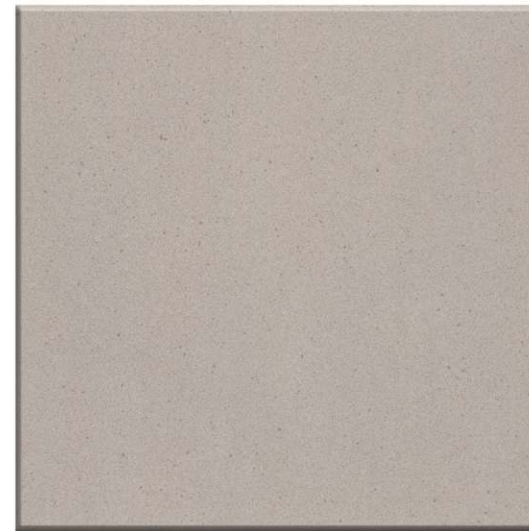
ARABIA | SM



CREMA | SM



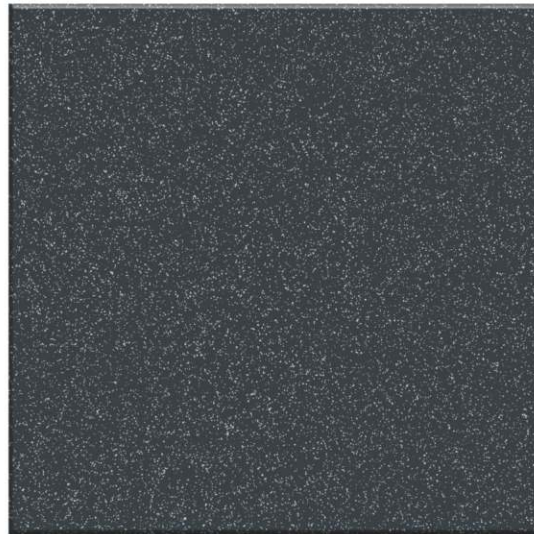
ABACUS | SM, PL*



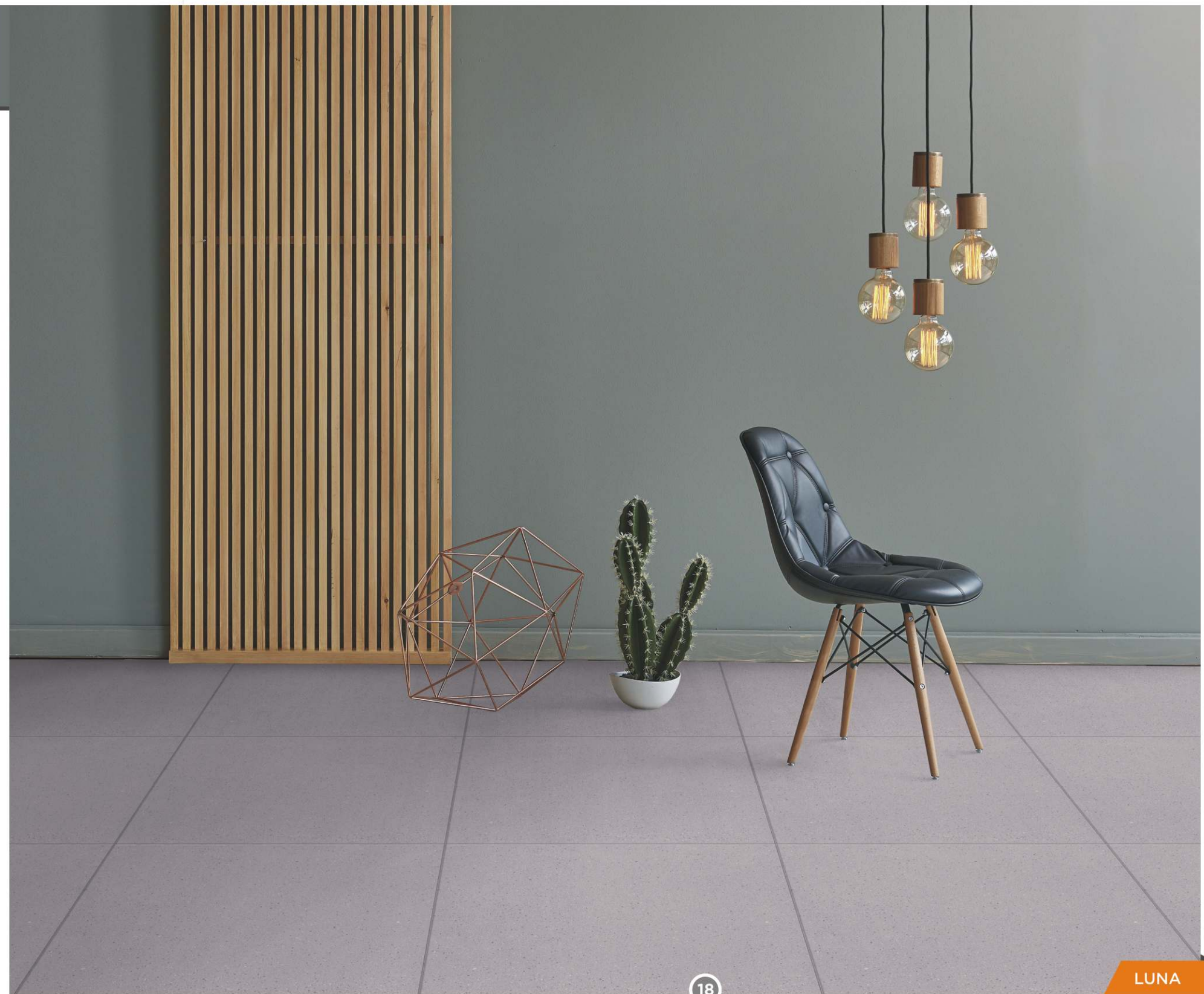
SIENNA | SM



LUNA | SM, PL



COSMIC | SM, PL*



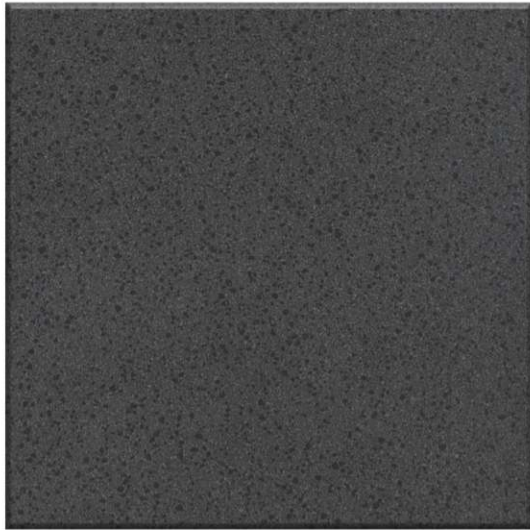
CHIPS

What goes around comes around! The love for chips in flooring was established years ago, and now again Restile reintroduces its vintage collection with more variety and different size of chips to give the beauty your flooring deserves.



BAZAAR | SM, PL*





ICONIC | SM, PL



MIST | SM, PL



PEBBLES | SM, PL



BRUTE | SM, PL*



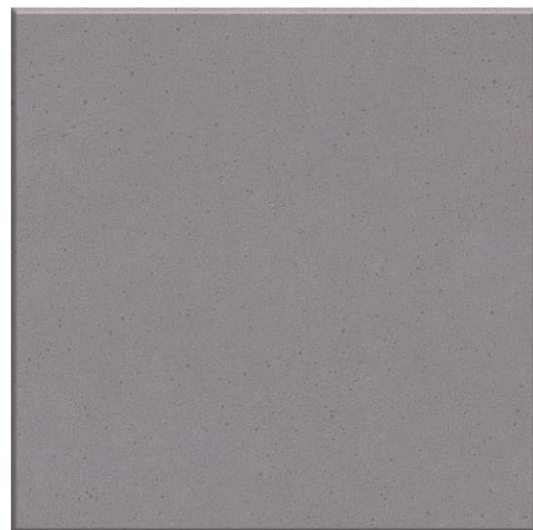


MIST XL | SM



ICONIC XL | SM





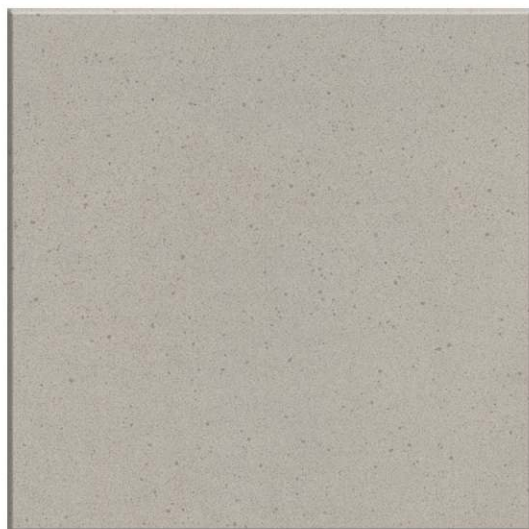
NEW 1 | SM, PL*



NEW 3 | SM, PL*



NEW 2 | SM, PL*



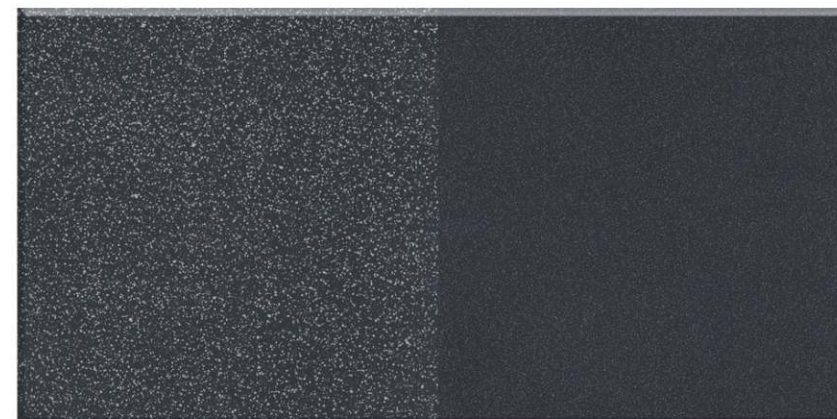
NEW 4 | SM, PL*



NEW 5
SM, PL*



NEW 6
SM, PL*



NEW 7
SM, PL*

TECHNO SLABS Born from the same lineage as Granite, are the Restile Technical Slabs. It is the original wonder material in flooring that changed the way people looked at floors forever. Any space can be transformed into elegance with our Techno Slabs. Its incredible strength and properties makes the floor retain its natural and elegant looks for a life time.



615x920*



600x1200



600x1520*



Floor



Residential



Hotel



Library



Office



College



Labs

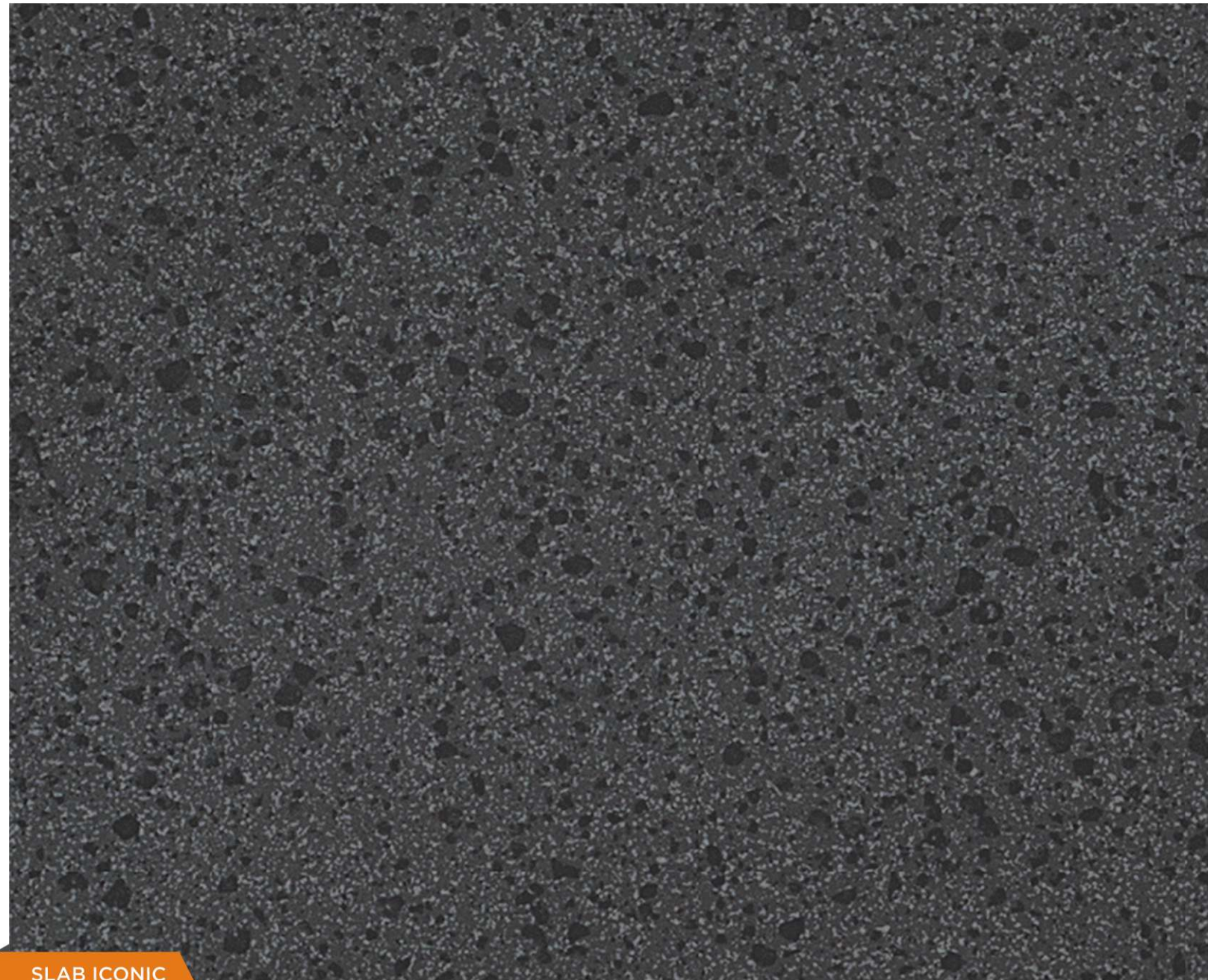


Temples

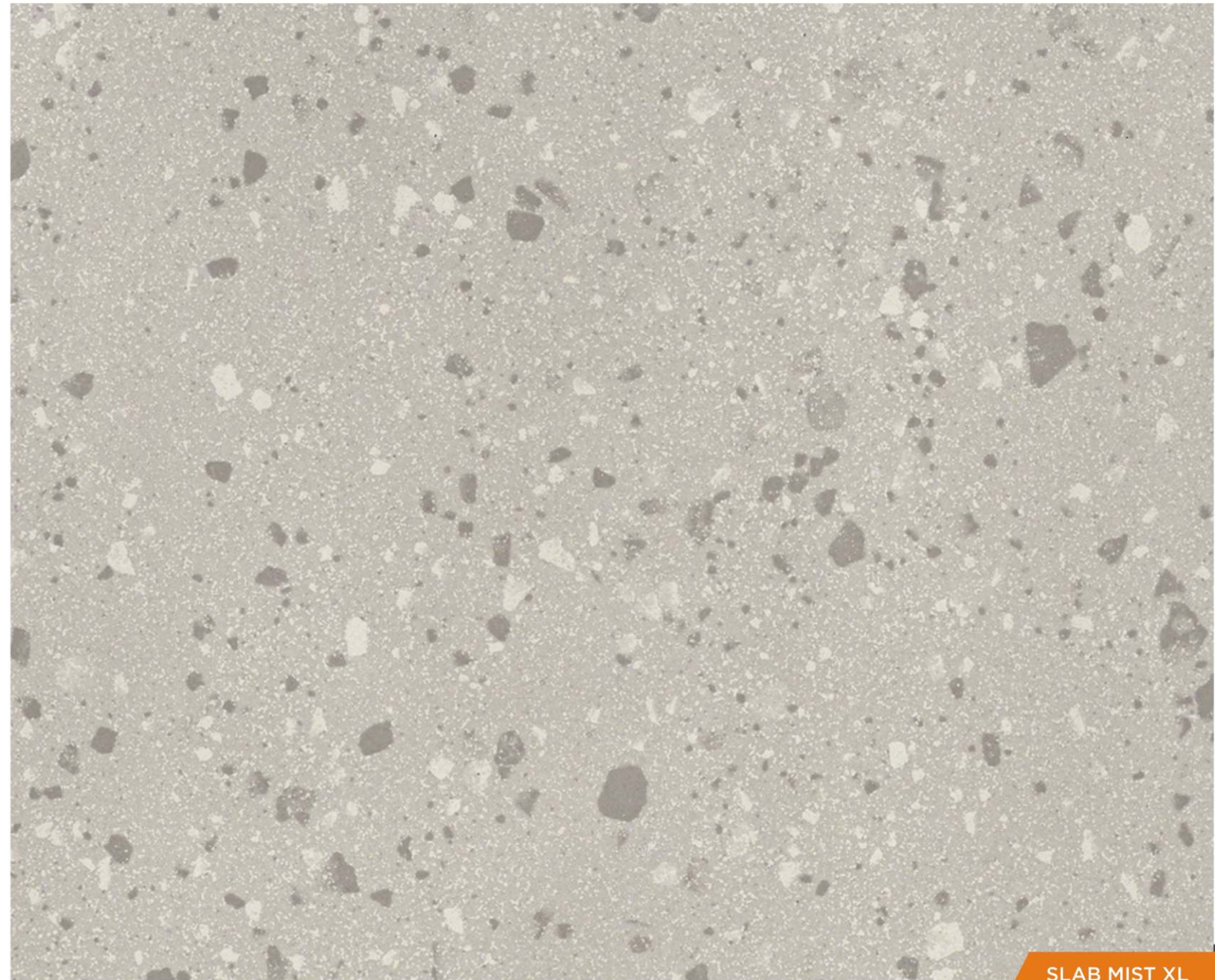


SLAB LUNA | SM, PL*





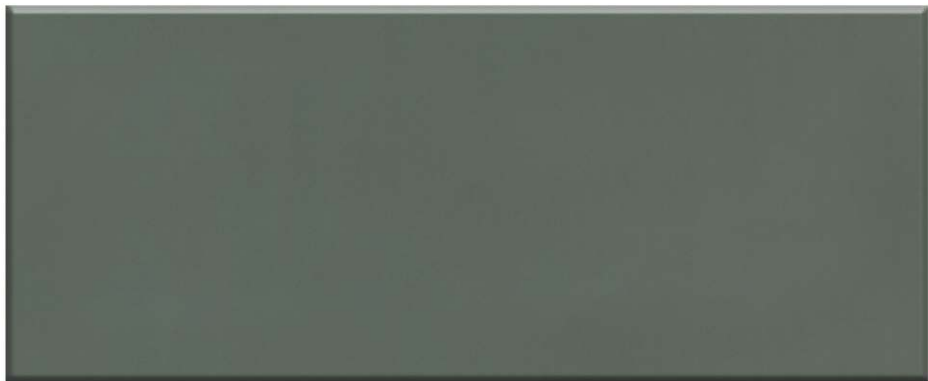
SLAB ICONIC



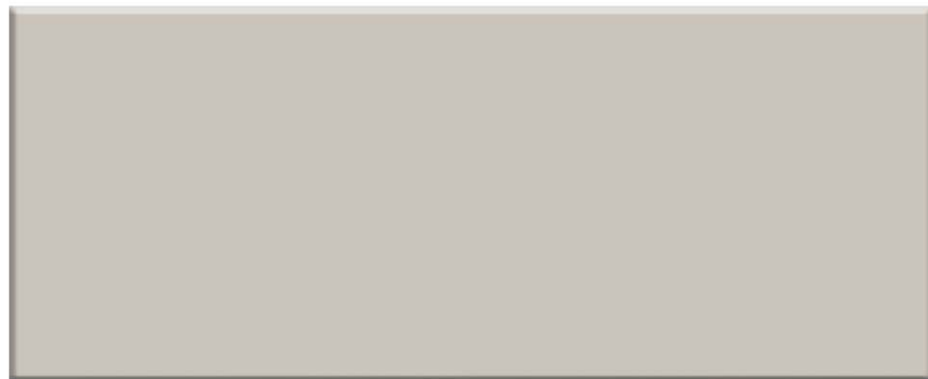
SLAB MIST XL

TECHNO SLABS collection

SLAB KOTA GREEN
SM



SLAB SUPER POLO
SM



SLAB STEEL GREY
SM



TECHNO SLABS collection

SLAB ARABIA
SM



SLAB SIENNA
SM



SLAB MATRIX
SM, PL*



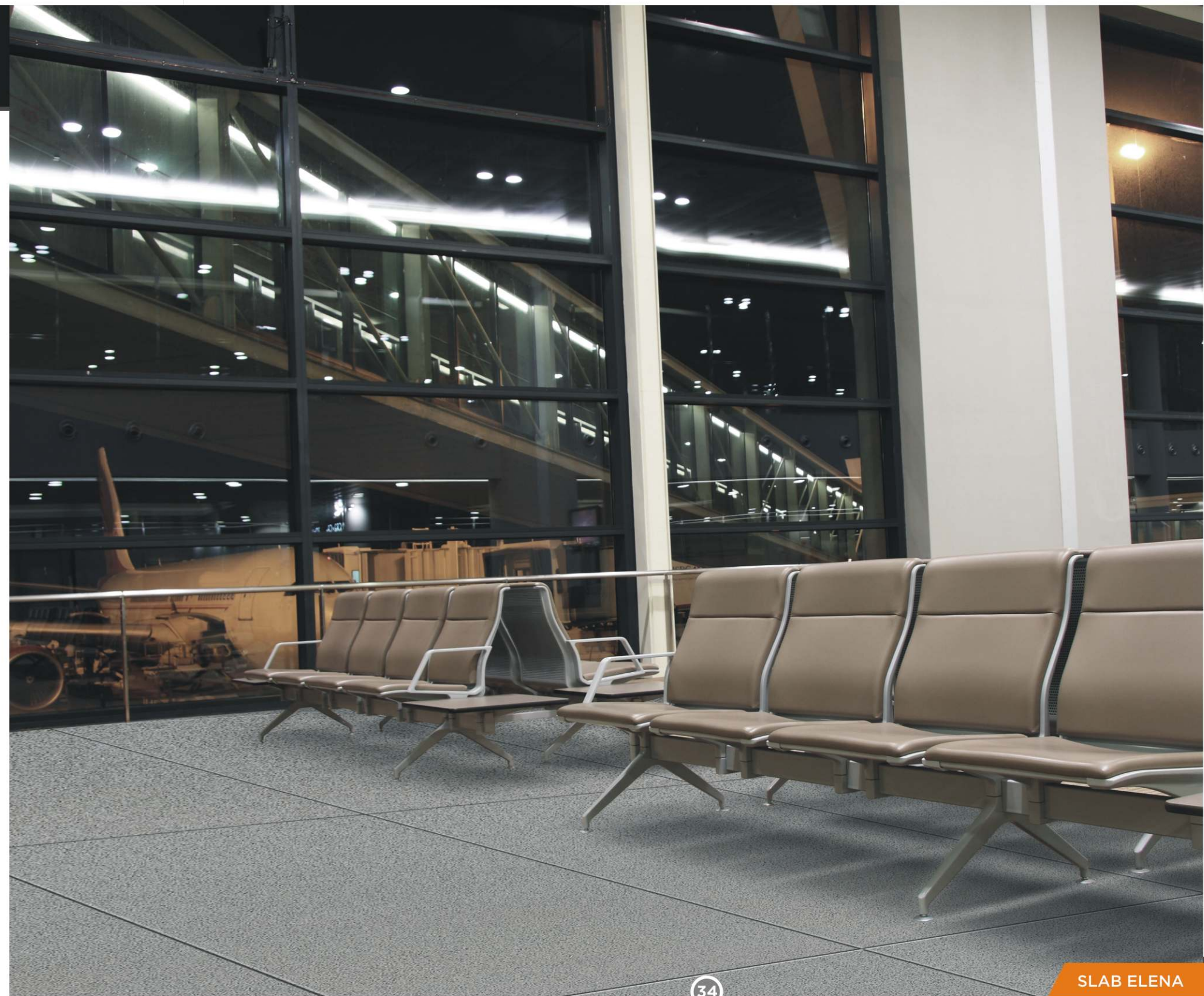
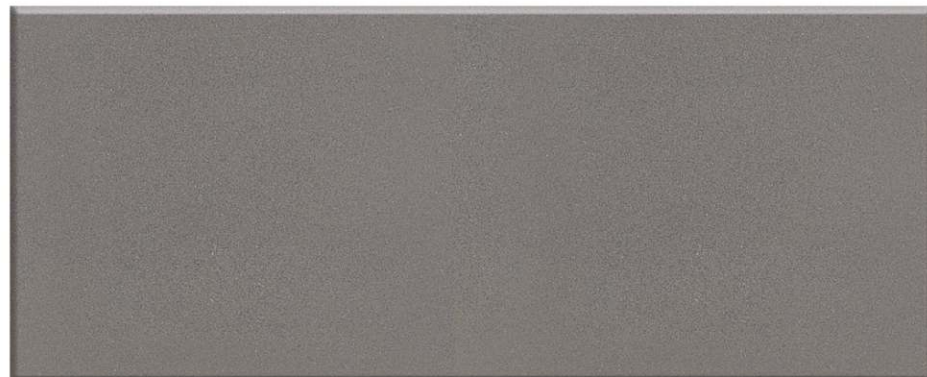
SLAB ELENA
SM, PL*



SLAB SAHARA
SM



SLAB CHAMPAGNE
SM



TECHNO SLABS collection

SLAB CREMA
SM



SLAB ABACUS
SM



SLAB BRUTE
SM



TECHNO SLABS collection

SLAB ICONIC
SM, PL

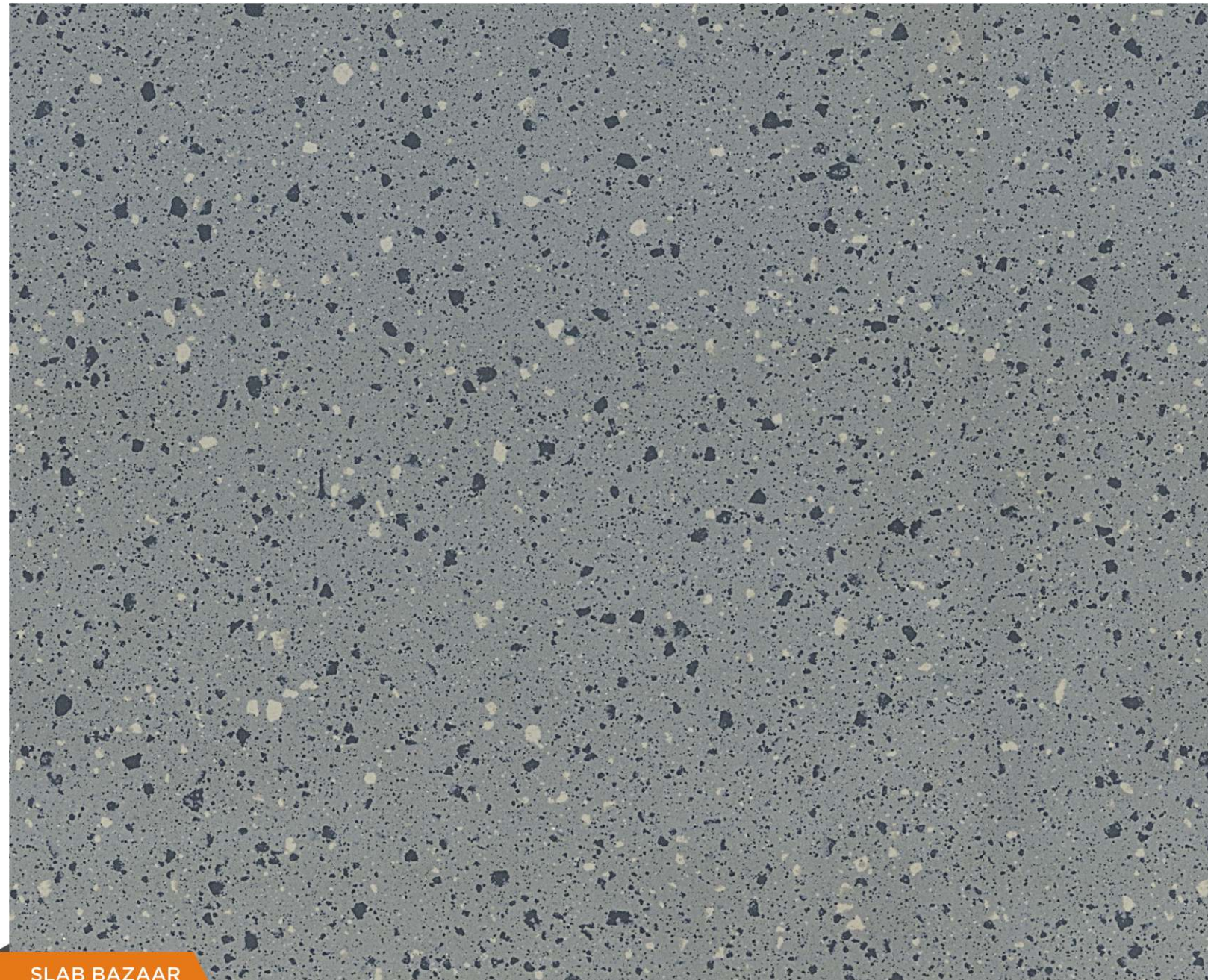


SLAB MIST
SM, PL

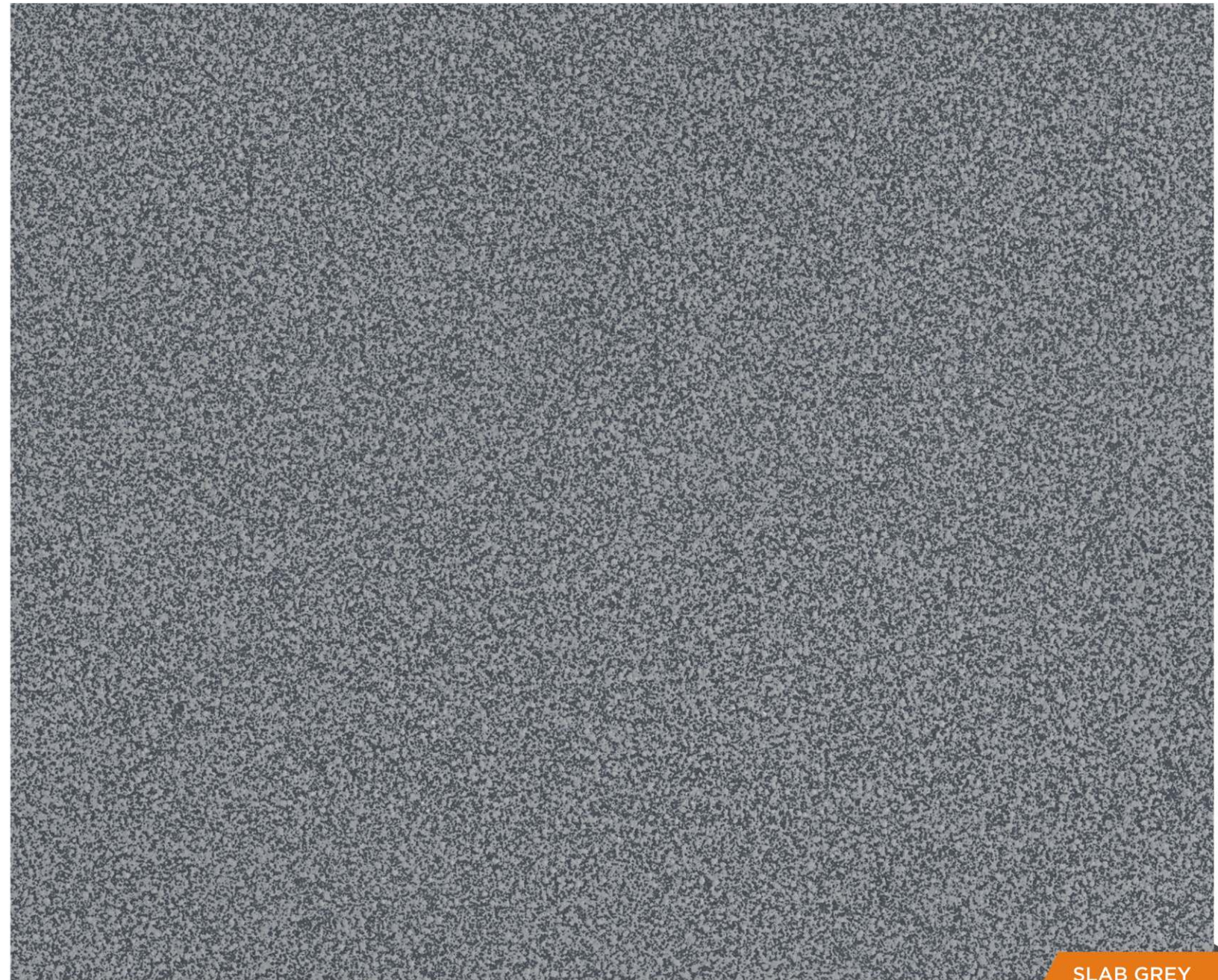


SLAB PEBBLES
SM, PL





SLAB BAZAAR



SLAB GREY

SLAB BEIGE
AS






SLAB BLACK
AS



SLAB BROWN
AS

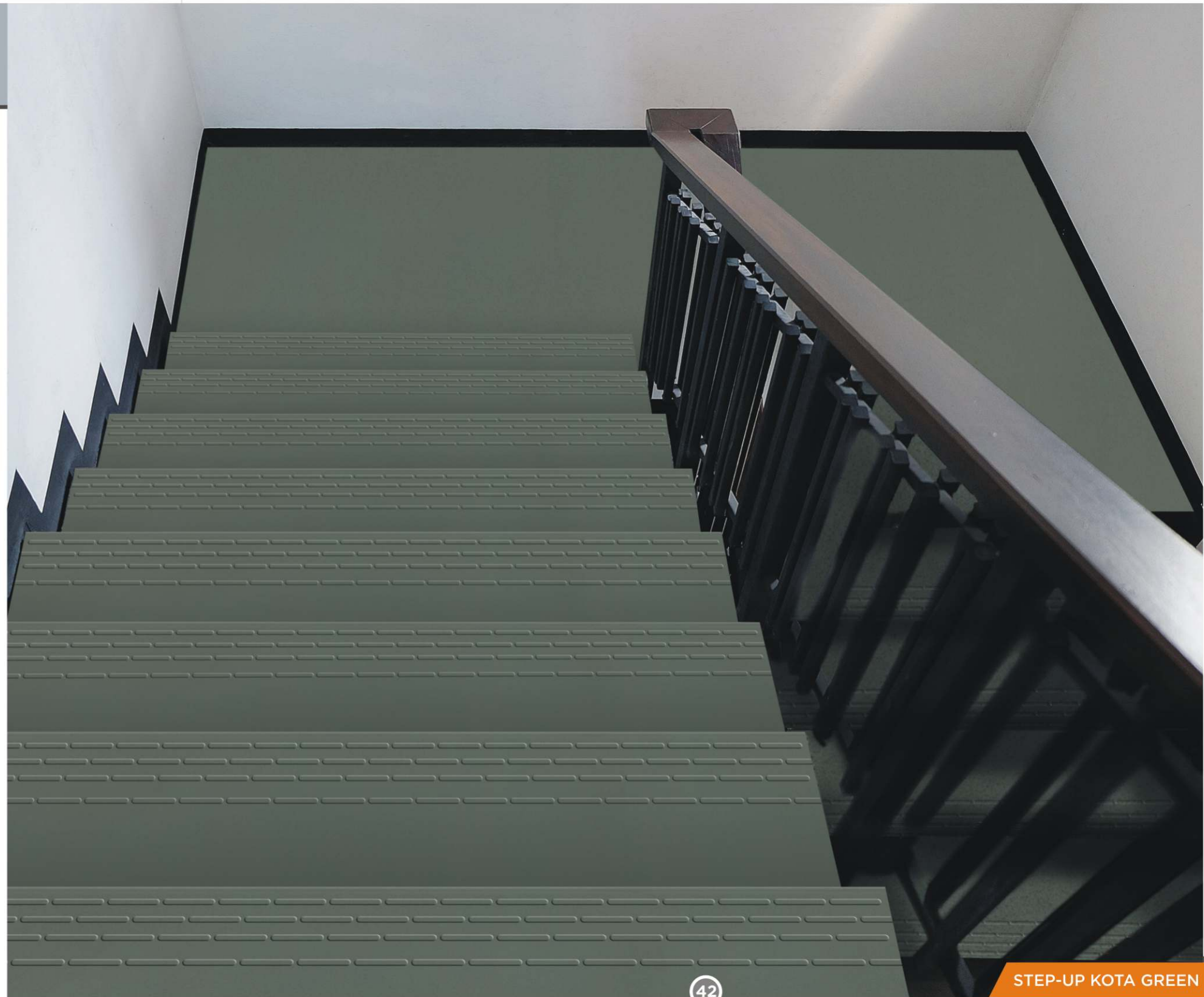


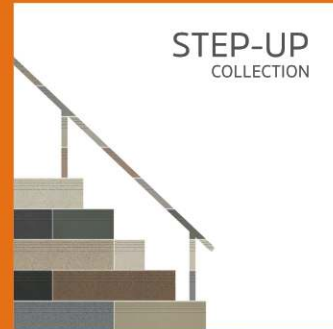
STEP-UP with confidence, is what we believe at Restile, and that's exactly what we showcase in this series. Why use the old age method of cutting, sizing, finishing, wasting, when you can use our Ready-To-Install Step tiles. With designs and finish, for both indoor and outdoors, it's the perfect solution for any step.

	920x310
	1220x310
	1520x310



STEP-UP KOTA GREEN | SM





READY TO INSTALL STEP TILE

SELF EMBOSSED GROOVES

- Provides better grip
- Easy to clean compared to line cut
- Less chance of dirt getting stuck in grooves

BULL - NOSE FINISH

- Prevents injury from sharp edges

ANTI SKID PROPERTY

- Coefficient of friction (u)
- $U < 0.4$ - indoor step tile (smooth finish)
- $U > 0.4$ - outdoor step tile (anti-skid finish)

FULL BODY TILE

- Design top-to-bottom
- Sustainability

GRANITE STEP

VS

RESTILE STEP

BUY THE GRANITE SLAB

GRANITE SHADE, COLOUR, DENSITY ETC...
MIGHT VARY IN GRANITE

SLAB HAS TO BE CUT INTO THE STEP SIZE

BULL NOSING / HALF MOULDING
WILL NEED TO BE DONE

CUT GROOVES WILL NEED TO BE DONE

LONGER INSTALLATION TIME

LABOR ORIENTED PROCESS

APPROX COST OF GRANITE:
70 - 130RS / SQ FT (DEPENDING ON QUALITY)

APPROX COST OF MOULDING:
20 - 45RS / SQ FT (DEPENDING ON CITY)

APPROX COST OF LEATHER FINISH:
25 - 50RS / SQ FT (DEPENDING ON CITY)

FINAL APPROX COST OF GRANITE STEP:
100-220/SQ FT.

✓ BUY THE RESTILE -
READY TO INSTALL STEP BOX

✓ UNPACK BOX, LAY THE TILE,
ALL DONE!

✓ AVAILABLE IN VARIETY OF DESIGN

✓ AVAILABLE FOR INDOOR AND OUTDOOR STEPS.
CUT GROOVES WILL NEED TO BE DONE

✓ BULL NOSE READY!

✓ SELF EMBOSSED GROOVES READY

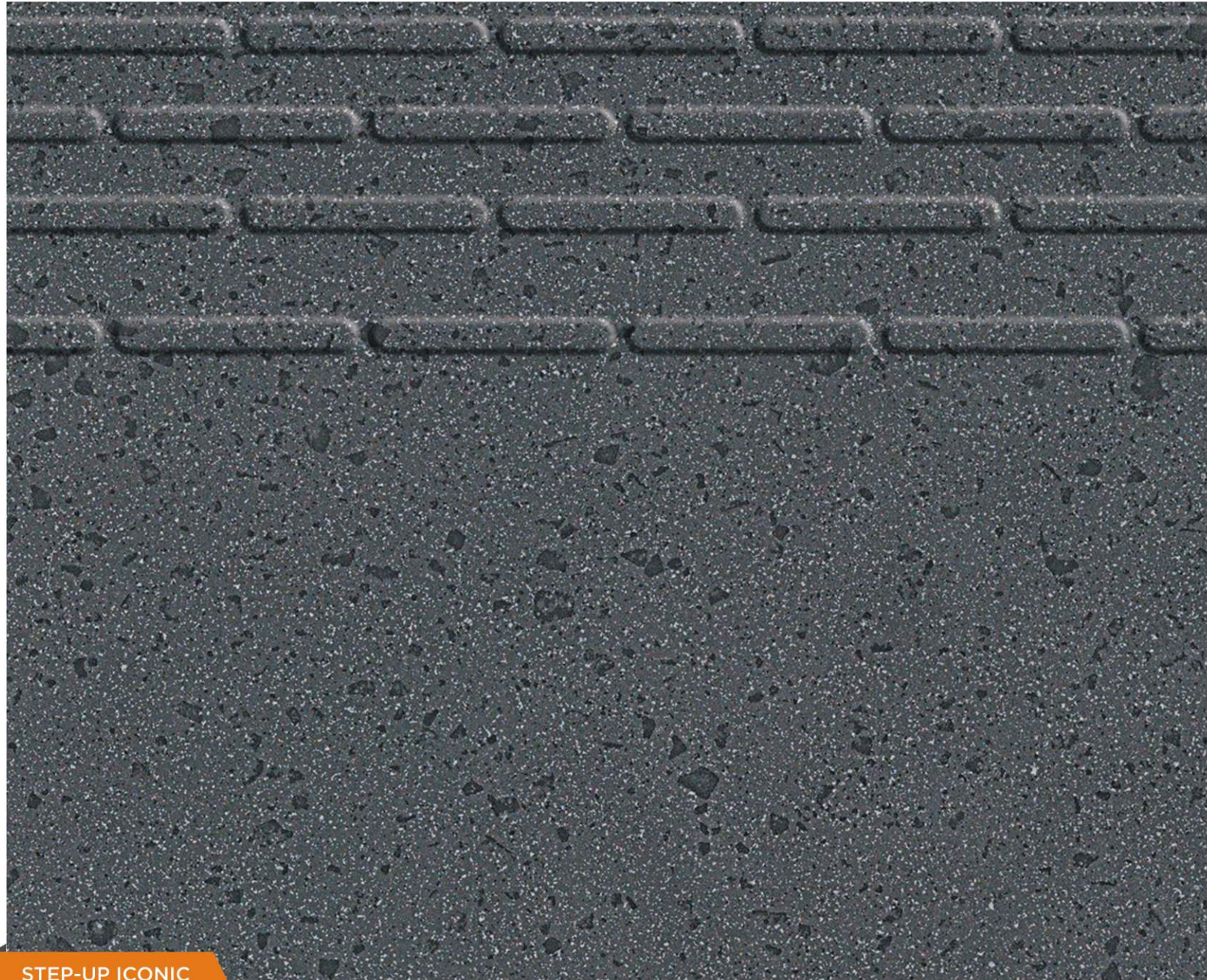
✓ EASY TO CLEAN

✓ EASY TO INSTALL

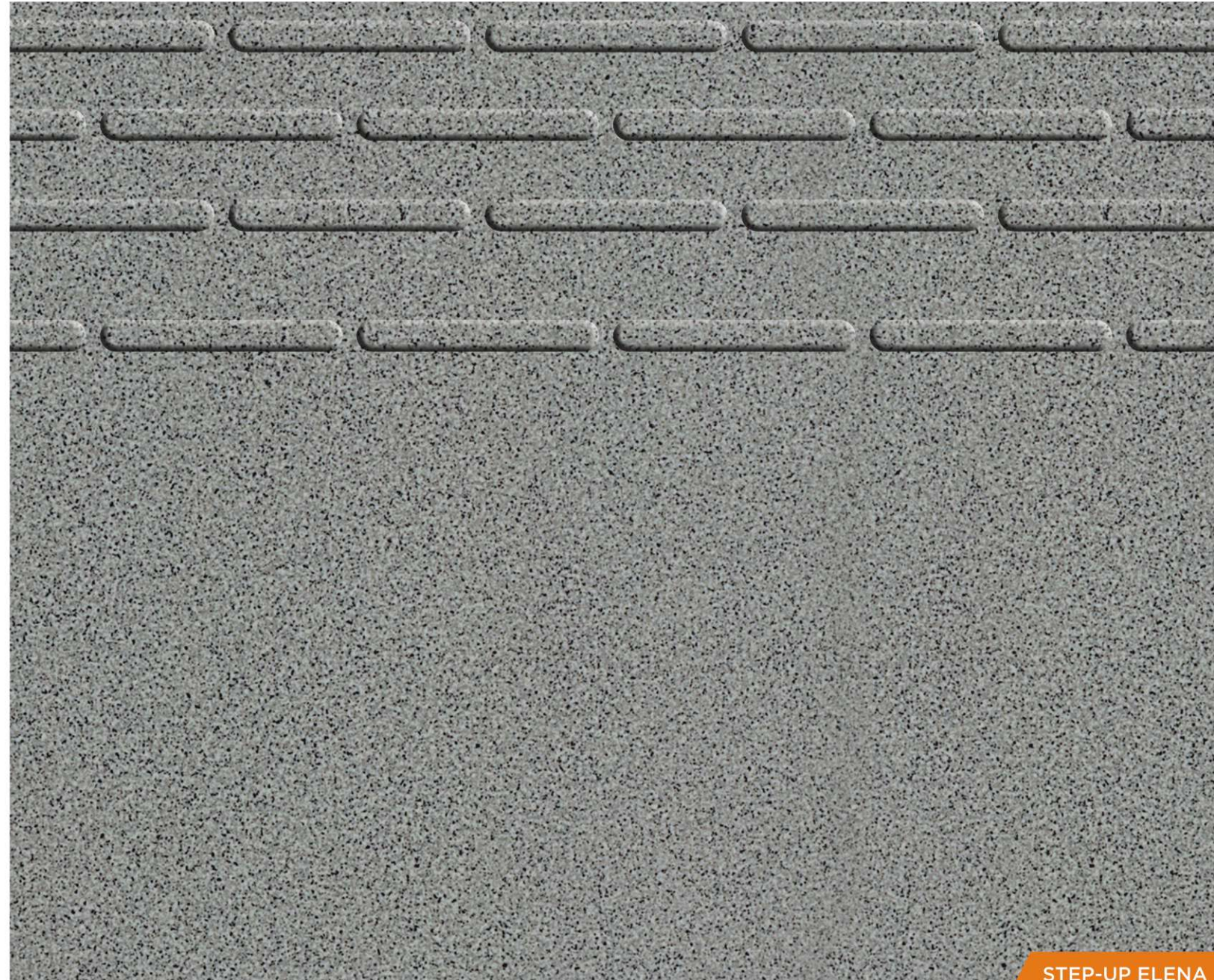
✓ AT LEAST 65-70% FASTER LAYING
TIME COMPARED TO GRANITE STEPS

✓ AT LEAST 20 - 40% CHEAPER
COMPARED TO GRANITE STEPS

✓ FINAL APPROX COST OF RESTILE STEP TILE:
100-150 / SQ FT

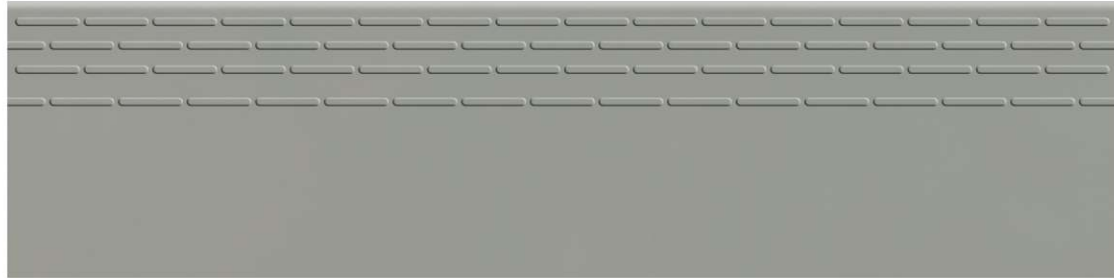


STEP-UP ICONIC

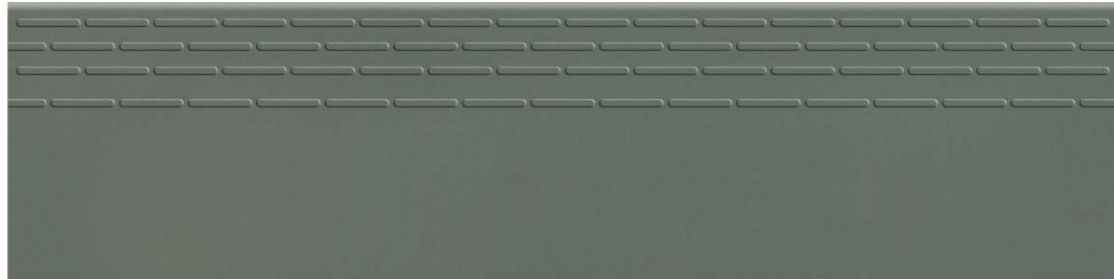


STEP-UP ELENA

STEP-UP
STEEL GREY
SM



STEP-UP
KOTA GREEN
SM



STEP-UP
SAHARA
SM



STEP-UP
ABACUS
SM



STEP-UP
MATRIX
SM



STEP-UP
CREMA
SM



**STEP-UP
LUNA
SM**



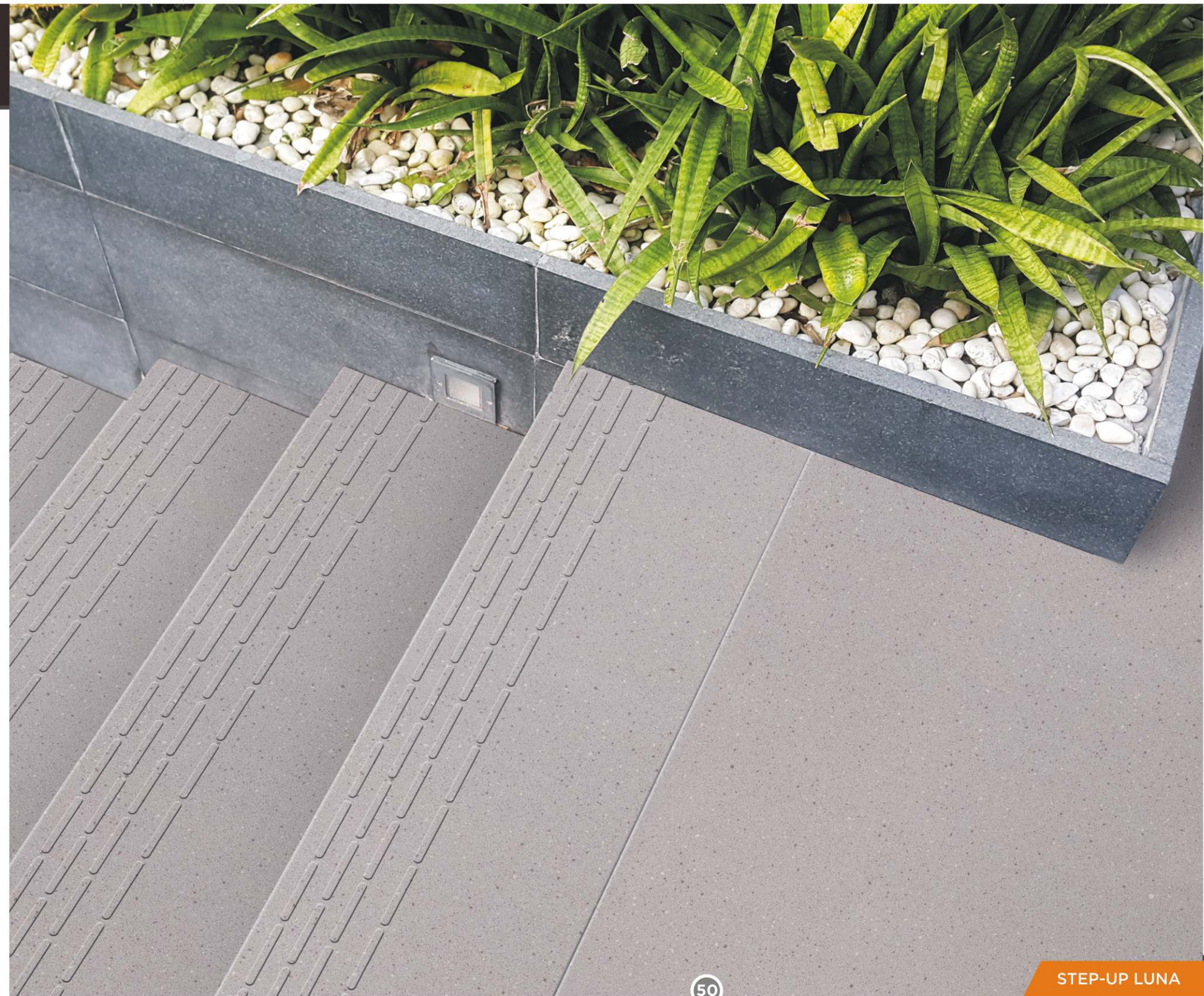
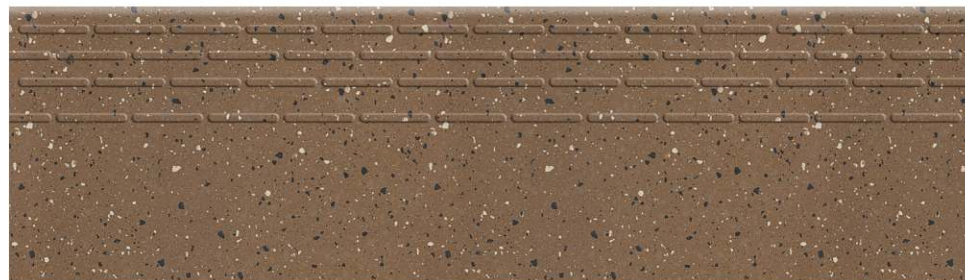
**STEP-UP
PEBBLES
SM**



**STEP-UP
BAZAAR
SM**



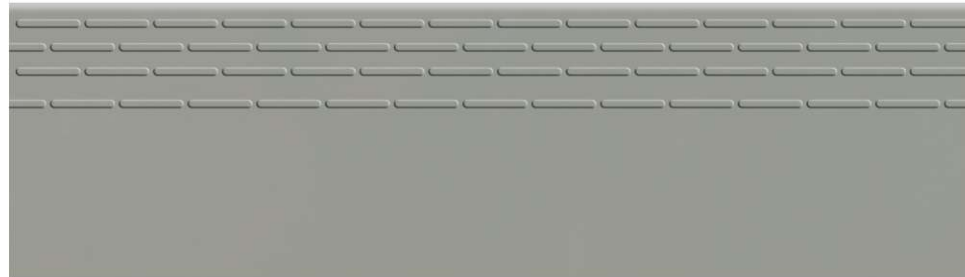
**STEP-UP
BRUTE
SM**



**STEP-UP
BLACK
AS**



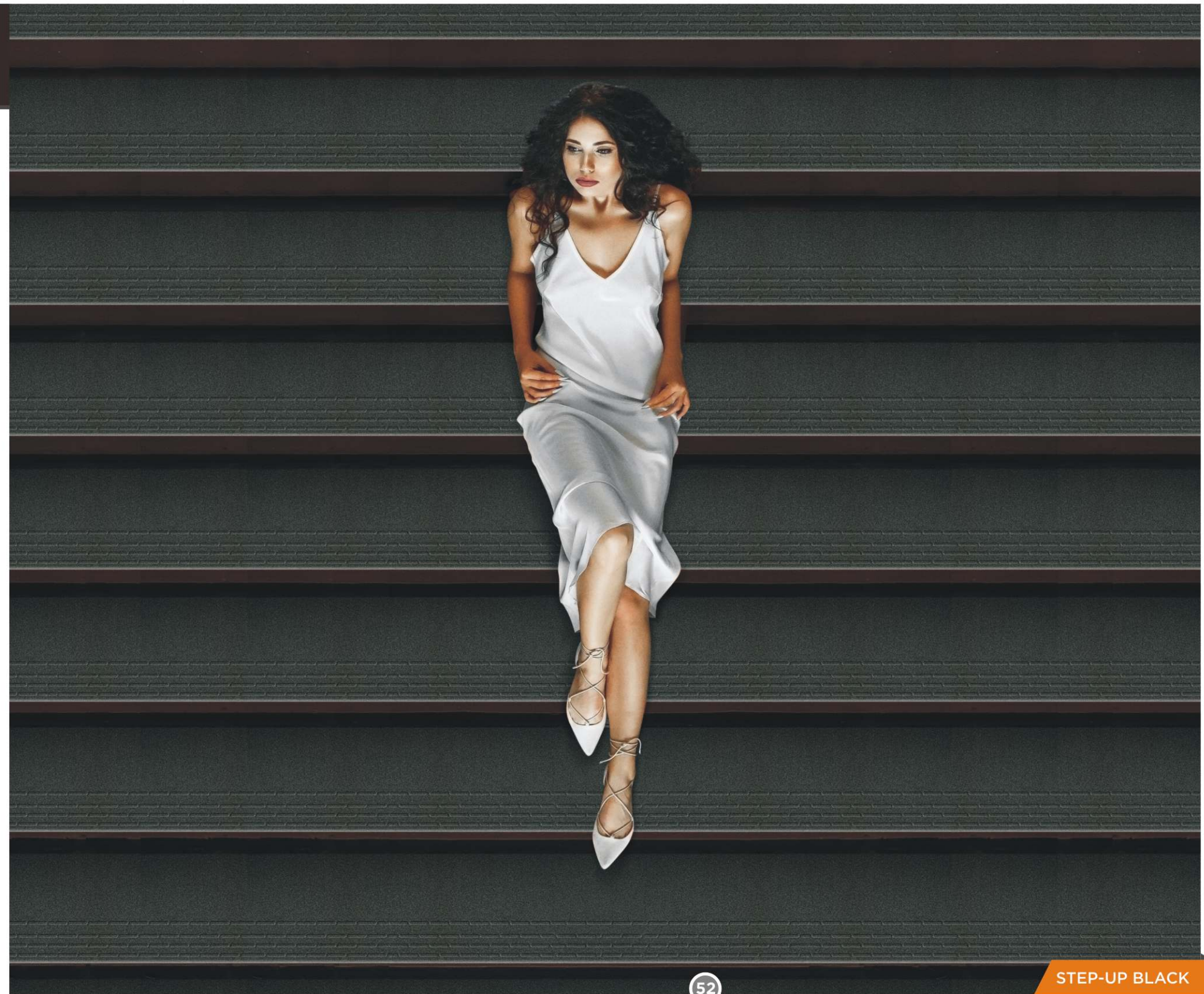
**STEP-UP
GREY
AS**



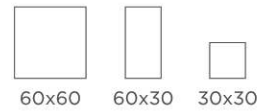
**STEP-UP
BROWN
AS**



**STEP-UP
BEIGE
AS**



Restile known for its specialty in Full Body Homogeneous tiles with its unique smooth finish, now raises the bar, and introduces the **“true anti-skid”** finish. With supreme strength, and true leader in anti-skid quotient, we offer one of a kind unpolished experience. Our makers collection wonderfully captures the roughness and beauty of natural stones, making it the perfect choice to use in any slippery conditions.



Coefficient of Friction or Skid resistance scales are used to determine the degree of slippage on a tiled surface, by assessing different tile surfaces under wet and dry conditions. The subjects speed and movement is monitored and angle of tile surface is considered too.

DIN (German Institute of Standardization) vide **DIN 51130 – RAMP TEST**, classifies the **Skid Resistance** and in this method various surfaces are rated in one of five groups according to their degree of slippage. The value in degrees of the slope reached before they start slipping determines the classification of the material in class. The Coefficient of Friction is determined by using a tribometer or British Pendulum test.

Here are the ratings:

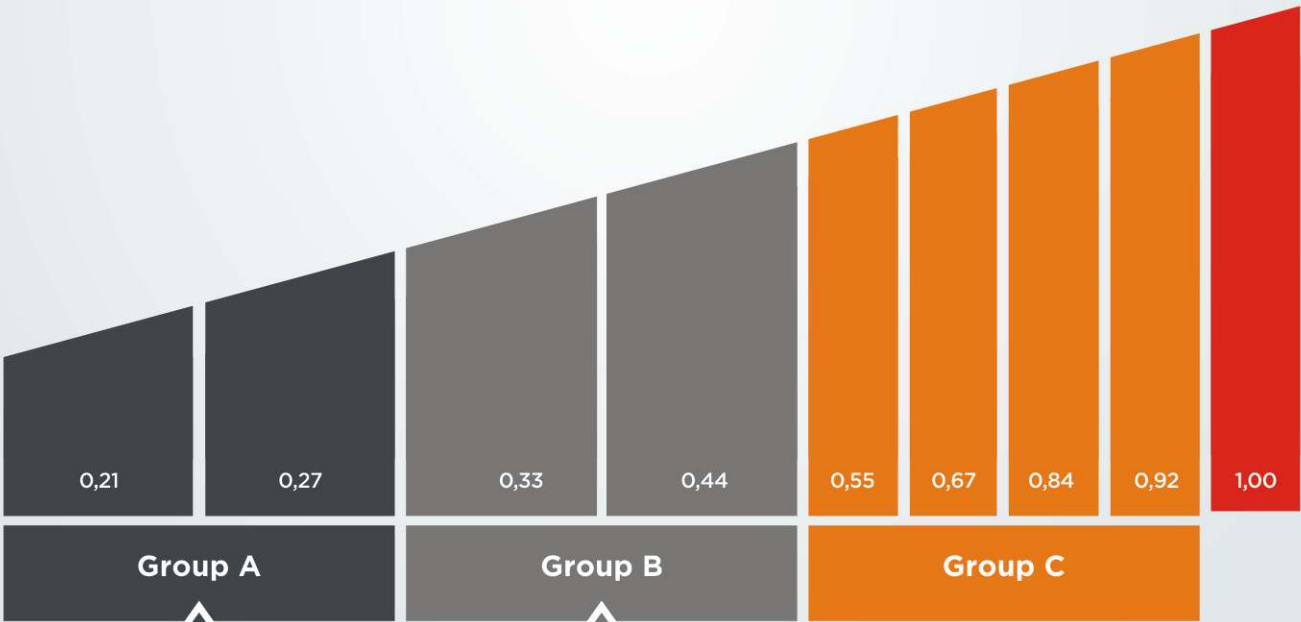
DIN 51130	R13	R12	R11	R10	R9
Angle of Slip	35+	27-35 deg	19-27 deg	10 - 19 deg	6 - 10 deg
Equivalent value in CoF (u)	0.70+	0.55 – 0.70	0.40 – 0.55	0.20 – 0.40	0.11 – 0.20
Wet Slip Risk	No Risk	Low Risk	Manageable	Manageable	High Risk
Suitable for	Very Wet	Wet Areas	Transitional Areas - can occasionally become wet	Areas kept largely dry	Dry Areas
Restile Product Finish Recommendation	Flamed	Sandy / Smooth	Smooth	Polished	Polished
Tiles Classification	Unglazed matt finish tiles	Unglazed matt finish tiles	High Quality Glazed / unglazed matt finish tiles	Glazedmatt finish tiles	Cheap Range Glazed matt finish
Usage Recommendation	Pool Surrounds, Public Showers, all commercial and residential – internal and external	Larger public areas – shopping malls, airports, offices, stations, puclic walkways, etc...	Mostly residential and few commercial spaces like rooms, living areas etc...	For all residential low traffic applications only.	For all residential low traffic applications only.

SLIP RATINGS EXPLAINED

Group A best used in:
Living rooms, halls etc.
(where the floor is never wet)

Group B Best used in:
Dressing rooms, toilets etc.
(where the floor is sometimes wet)

Group C Best Used in:
Saunas, bathrooms, swimming pools, water centres, SPA procedure rooms, kitchens operation rooms etc. O,64 and more.
(when the floor is always wet)
low (friction O,44-0.64)
Places like: foyers, lobbies, entries etc.
(places when floor is sometimes wet)



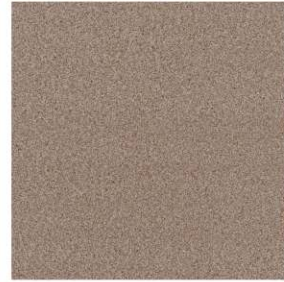
Standard DIN 51130
Standard of Germany used for Footwear traffic

Standard DIN 51097
Standard of Germany used for Bare Foot traffic

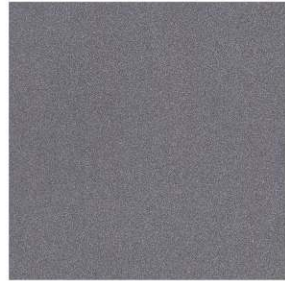
**BLACK
SANDY, FLAMED**



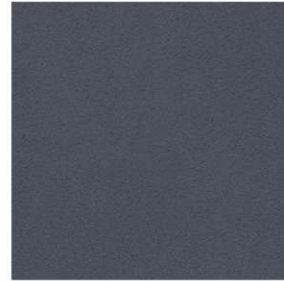
**RED
SANDY, FLAMED**



**BROWN
SANDY**



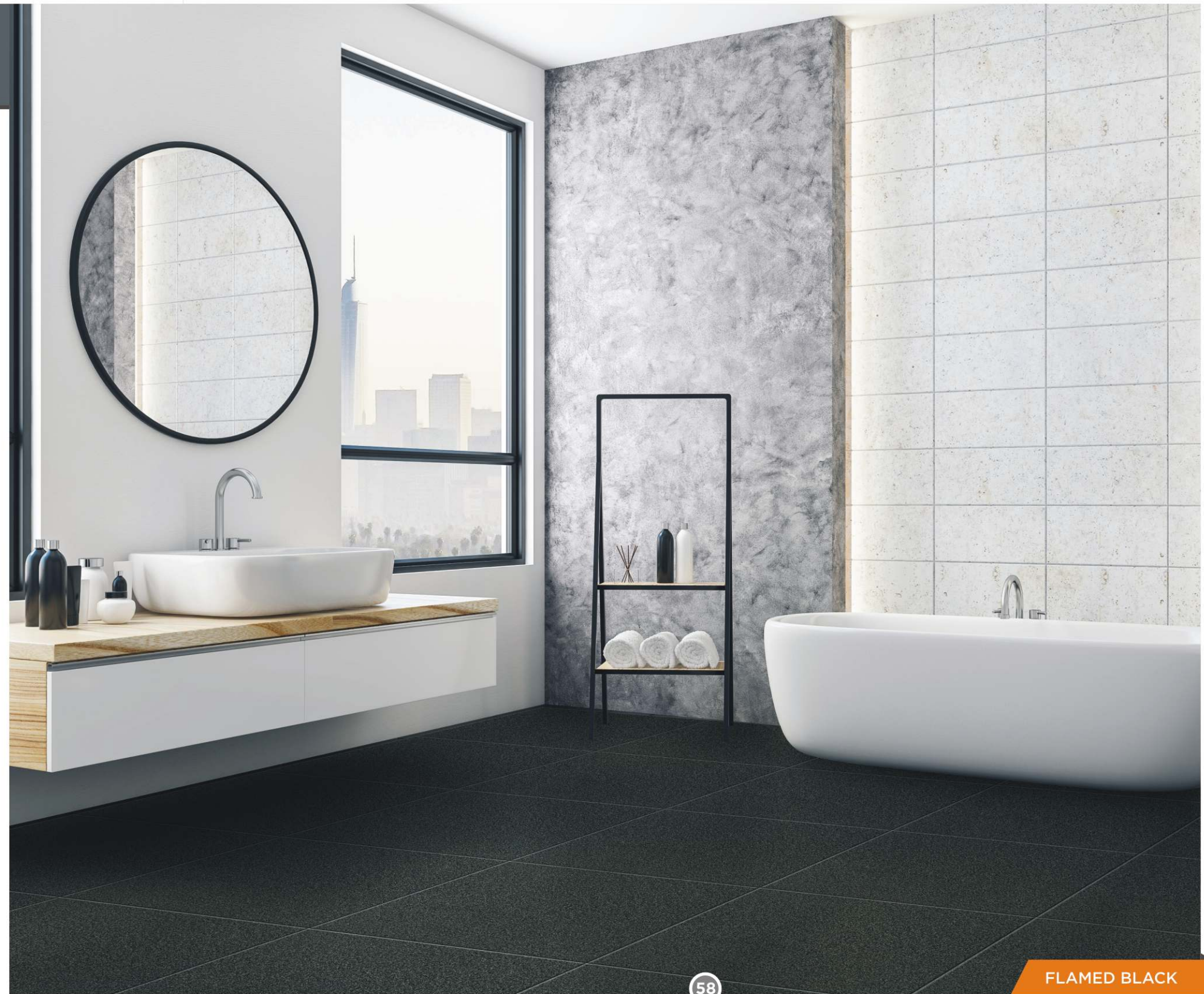
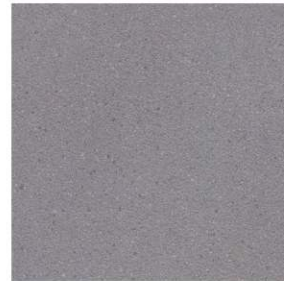
**ICONIC
FLAMED**



**BEIGE
SANDY, FLAMED**



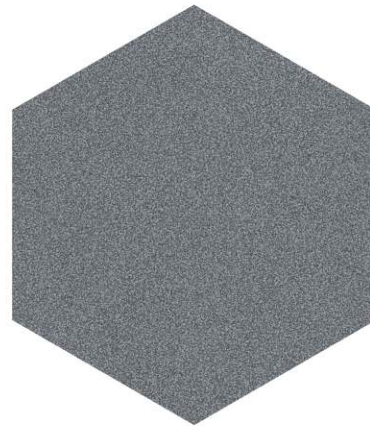
**PEBBLES
FLAMED**



A wonderful recreation of our full body tiles in different shape has opened doors to many minds. Our hexagon shaped tiles with natural tapered edges provides a ready solution in laying. The shape enhances the load bearing capacity of the tile, and hence is also ideal for car parking areas. Available in a range of colors, and two finishes – smooth and sandy.



HEXA BROWN

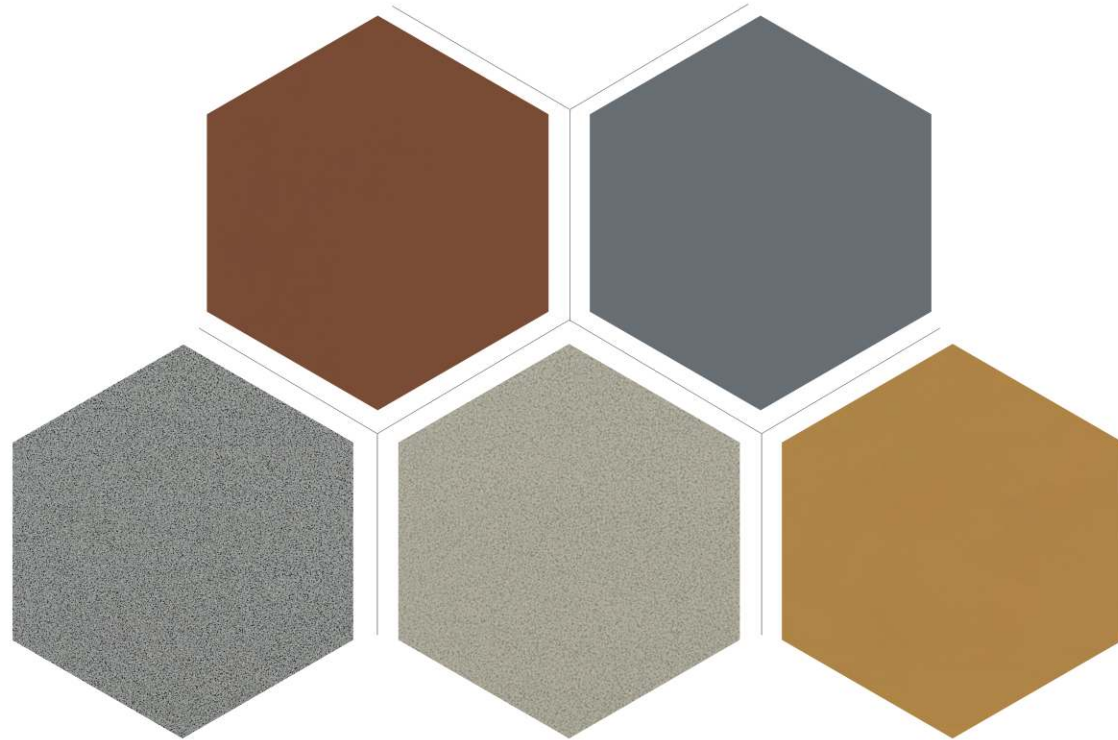


HEXA GREY



HEXA TERACOTTA

HEXA DARK GREY



HEXA ELENA

HEXA SAHARA

HEXA TRENDY



GRANAMITE COLLECTION

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 300x300x9	RESTILE 600x600x9	RESTILE 800x800x10
DIMENSIONAL PROPERTIES	1 Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	3 Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%	± 3%	± 3%
	4 Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	5 Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	6 Surface Flatness					
	6 a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%
	6 b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%
	6 c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%
	7 Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%	Min 95%	Min 95%
PHYSICAL PROPERTIES	8 Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05	≤0.05	≤0.05
	9 Modulus of Rupture (N/mm2)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	37	37	37
	10 Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	3800	2400	2400
	11 Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil	Nil	Nil
	12 Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.	6 Min.	6 Min.
	13 Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm3	<144mm3	<144mm3
	15 Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage	No damage	No damage
	17 Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55	0.55	0.55
CHEMICAL PROPERTIES	18 Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.5 R > 11	u > 0.5 R > 11	u > 0.5 R > 11
	20 Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2	>2.2	>2.2
	21 Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2	Class 2	Class 2
	22 Resistance to Chemicals - Unglazed Tiles					
	a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A	Class A	Class A
	b. Resistance to high concentrations of acids & alkalies	Required		Class A	Class A	Class A
	c. Resistance household chemicals & swimming pool salts	Required		Class A	Class A	Class A

**REFERENCE TO BIS 13630 - REAFFIRMED 2017 TEST METHOD AND BIS 15622 - 2017 VALUES

MAKERS COLLECTION

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 300x300x9	RESTILE 600x300x9	RESTILE 600x600x9	RESTILE 600x600x11.5	RESTILE 600x600x14
DIMENSIONAL PROPERTIES	1 Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
	3 Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%	± 3%	± 3%	± 3%	± 4%
	4 Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
	5 Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
	6 Surface Flatness							
	6 a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%	± 0.12%	± 0.12%
	6 b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%	± 0.12%	± 0.12%
	6 c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.11%	± 0.12%	± 0.12%	± 0.12%	± 0.12%
	7 Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%	Min 95%	Min 95%	Min 95%	Min 95%
PHYSICAL PROPERTIES	8 Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05	≤0.05	≤0.05	≤0.05	≤0.05
	9 Modulus of Rupture (N/mm2)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	35	35	35	37	37
	10 Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	2000	2000	2400	2800	4400
	11 Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil	Nil	Nil	Nil	Nil
	12 Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.	6 Min.	6 Min.	6 Min.	6 Min.
	13 Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm3	<144mm3	<144mm3	<144mm3	<144mm3
	15 Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage	No damage	No damage	No damage	No damage
	17 Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55	0.55	0.55	0.55	0.55
CHEMICAL PROPERTIES	18 Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.6 R > 11	u > 0.6 R > 11	u > 0.6 R > 11	u > 0.6 R > 11	u > 0.6 R > 11
	20 Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2	>2.2	>2.2	>2.2	>2.2
	21 Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2	Class 2	Class 2	Class 2	Class 2
	22 Resistance to Chemicals - Unglazed Tiles							
	a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A	Class A	Class A	Class A	Class A
	b. Resistance to high concentrations of acids & alkalies	Required		Class A	Class A	Class A	Class A	Class A
	c. Resistance household chemicals & swimming pool salts	Required		Class A	Class A	Class A	Class A	Class A

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TECHNO SLABS COLLECTION

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 920x615x11.5	RESTILE 1200x600x11.5	RESTILE 1520x610x11.5
DIMENSIONAL PROPERTIES	1	Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	3	Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%	± 3%
	4	Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	5	Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	6	Surface Flatness				
		a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
		b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
		c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
	7	Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%	Min 95%
PHYSICAL PROPERTIES	8	Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05	≤0.05
	9	Modulus of Rupture (N/mm2)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	35	35
	10	Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	1800	1800
	11	Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil	Nil
	12	Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.	6 Min.
	13	Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm3	<144mm3
	15	Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage	No damage
	17	Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55	0.55
	18	Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.5 R > 11	u > 0.5 R > 11
	20	Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2	>2.2
CHEMICAL PROPERTIES	21	Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2	Class 2
	22	Resistance to Chemicals - Unglazed Tiles				
		a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A	Class A
		b. Resistance to high concentrations of acids & alkalies	Required		Class A	Class A
		c. Resistance household chemicals & swimming pool salts	Required		Class A	Class A

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STEP-UP COLLECTION

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 920x300x12	RESTILE 1220x310x12	RESTILE 1520x310x12
DIMENSIONAL PROPERTIES	1	Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	3	Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%	± 3%
	4	Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	5	Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%
	6	Surface Flatness				
		a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
		b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
		c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%
	7	Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%	Min 95%
PHYSICAL PROPERTIES	8	Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05	≤0.05
	9	Modulus of Rupture (N/mm2)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	35	35
	10	Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	1800	1800
	11	Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil	Nil
	12	Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.	6 Min.
	13	Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm3	<144mm3
	15	Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage	No damage
	17	Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55	0.55
	18	Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.6 or R > 11	u > 0.6 or R > 11
	20	Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2	>2.2
CHEMICAL PROPERTIES	21	Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2	Class 2
	22	Resistance to Chemicals - Unglazed Tiles				
		a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A	Class A
		b. Resistance to high concentrations of acids & alkalies	Required		Class A	Class A
		c. Resistance household chemicals & swimming pool salts	Required		Class A	Class A

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HEXA COLLECTION

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 345x300x9	RESTILE 345x300x11
DIMENSIONAL PROPERTIES	1	Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%
	3	Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%
	4	Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%
	5	Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%
	6	Surface Flatness			
		a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.12%
		b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.12%
		c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.12%
PHYSICAL PROPERTIES	7	Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%
	8	Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05
	9	Modulus of Rupture (N/mm2)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	37
	10	Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	1700
	11	Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil
	12	Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.
	13	Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm3
	15	Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage
	17	Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55
	18	Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.5 R > 11
CHEMICAL PROPERTIES	20	Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2
	21	Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2
	22	Resistance to Chemicals - Unglazed Tiles			
		a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A
		b. Resistance to high concentrations of acids & alkalies	Required		Class A
		c. Resistance household chemicals & swimming pool salts	Required		Class A

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SHOWROOMS

Factory

Bell Granito Ceramica Limited
Village Gavasad, Taluka Padra,
District, Vadodara - 391430,
Gujarat, India.

Mumbai

506/507 ACME Plaza,
Opp. Sangam Theatre,
Andheri-Kurla Road,
Andheri (E), Mumbai 59.

Mumbai (Godown)

M/s Raj Enterprises,
Jay Shreeram Complex,
Building No. 8,
Village Dapode, Bhiwandi.

New Delhi

Office No. 369/370
Centrum Plaza, M. G. Road,
Nr. Sultanpur Metro Station,
Village Sultanpur,
New Delhi - 110030

Hyderabad (Exclusive)

Restile Ceramica,
8-2-293/A/41 D,
Road No. 5, Jublee Hills,
Hyderabad 500033

Ahmedabad

403, Earth Arise,
SG Highway, Near YMCA
Ahmedabad 380051

CONTACT DETAILS

GUJARAT & MP

NIKUNJ RAWAL
(+91) 7600055820
nikunj.rawal@restile.com

Pune, Goa

Mahendra Karle
(+91) 8433948876
mahendra.karle@restile.com

SOUTH STATES

ANIL KUMAR
(+91) 7227828070
anil.kumar@restile.com

Hyderabad

T. Srinivas Rao
(+91) 9512036943
t.srinivas@restile.com

Jaipur

Yogesh Gupta
(+91) 7490025240
yogesh.gupta@restile.com

Ahmedabad, Vadodara

Ravi Shah
(+91) 8511860074
ravi.shah@restile.com

Nagpur, Raipur

Rajesh Peshkar
(+91) 9998220563
rajesh.peshkar@restile.com

Bengaluru

Anil Kumar
(+91) 7227828070
anil.kumar@restile.com

DELHI & NCR

AMIT VAGHELA
(+91) 8826990602
amit.vaghela@restile.com

Chandigarh

Gautam Sodhi
(+91) 7227032263
gautam.sodhi@restile.com

Surat

Darshit Mehta
(+91) 9724340616
darshit.mehta@restile.com

EAST & NORTH EAST

JAY JETHWA
(+91) 9974408673
jay.jethwa@restile.com

Cochin

Anil Kumar
(+91) 7227828070
anil.kumar@restile.com

UP & UK

Hira Lal Madhur
(+91) 9512036349
hiralal.madhur@restile.com

Bhopal

Abhishek Singh Bhadouria
(+91) 7043276523
abhishek.bhadouria@restile.com

Kolkata

Ashish Shukla
(+91) 7490001796
ashish.shukla@restile.com

Coimbatore

AS Subbaraman
(+91) 7043276614
a.subbaraman@restile.com

MAHARASHTRA &
CHATTISGARH

HASMITA TAUNK
(+91) 7738060818
hasmita.taunk@restile.com

Guwahati

Swarup Sur
(+91) 7227036418
swarup.sur@restile.com

Vijaywada

CH Anand
(+91) 7043137940
ch.anand@restile.com

Rajasthan & Punjab

Bhupindre Safaya
(+91) 7490020985
bhupindre.safaya@restile.com

Mumbai, Nashik

Dharmesh Parmar
(+91) 7718884690
dharmesh.parmar@restile.com

Bhubaneswar

Anand Jena
(+91) 9974058028
ananda.jena@restile.com

Vishakapatnam

Shaik Imran
(+91) 6358729894
imran.shaik@restile.com

Lucknow

Dharmendra Shukla
(+91) 9974615092
dharmendra.shukla@restile.com