



Italian Tile & Stone
tiles.ie

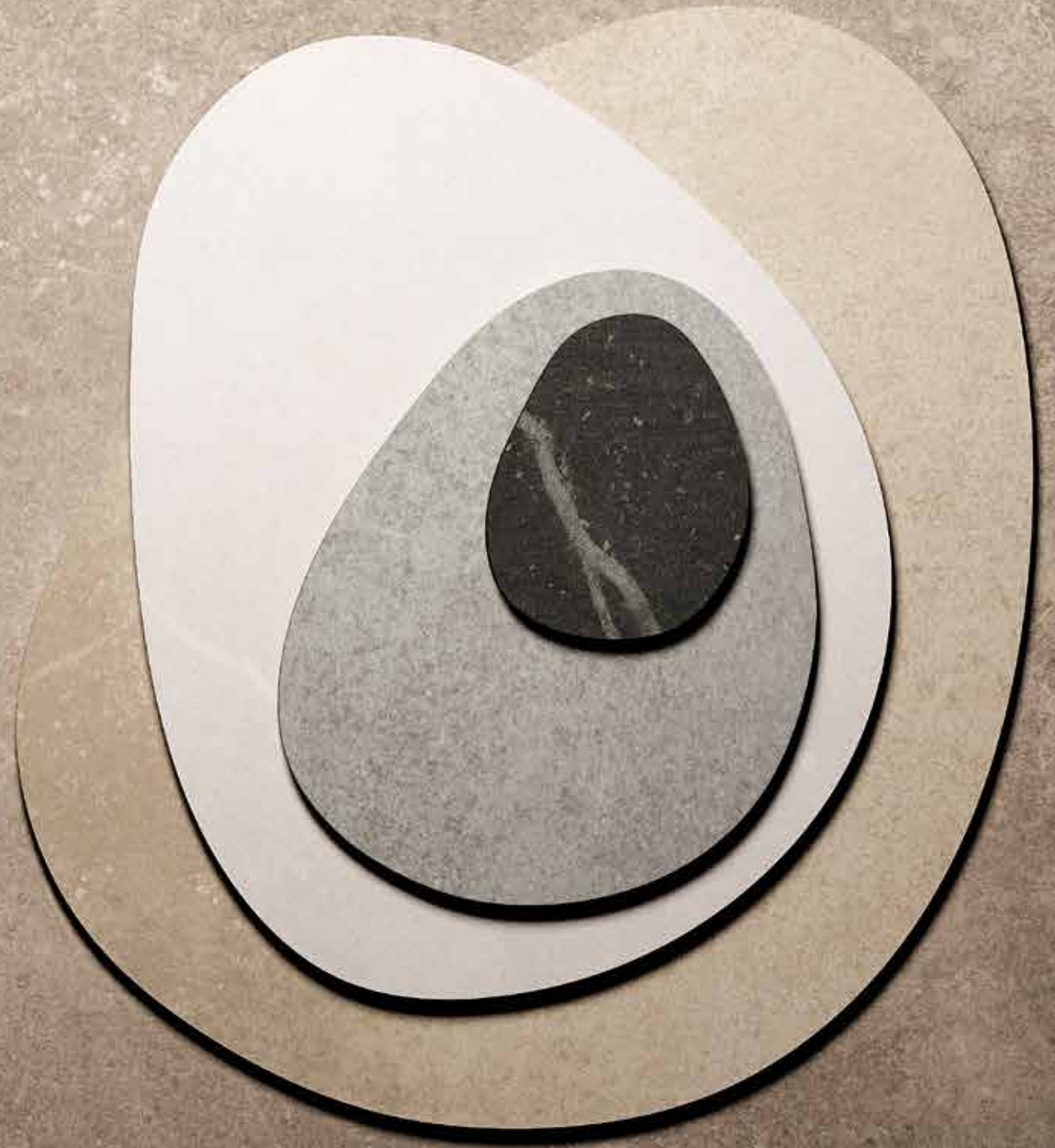
Ukam

essential emotions

www.tiles.ie

Ukam

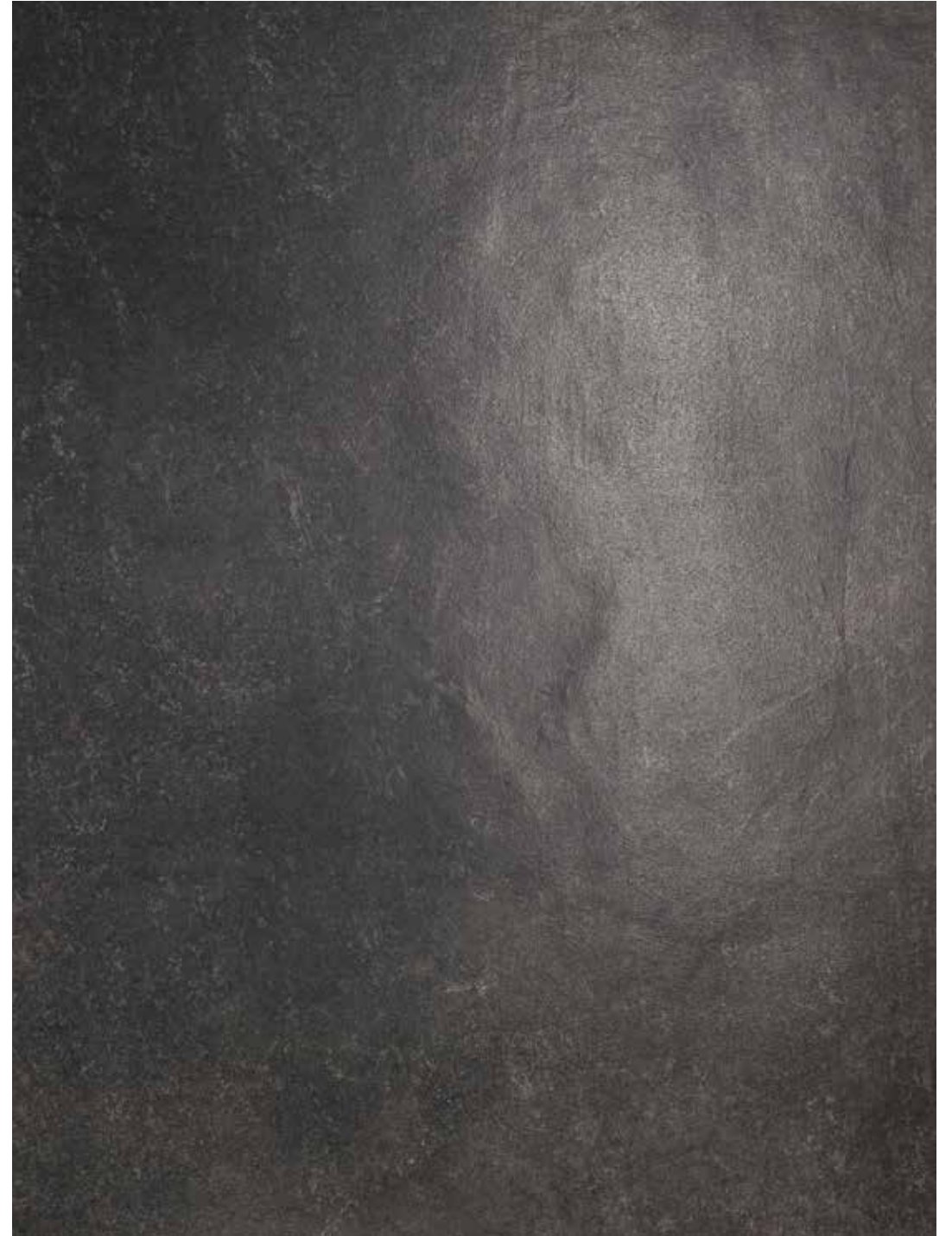
a porcelain stoneware tile that mimics matt stone in soft, natural colours, ready to bring a touch of contemporary elegance to floors and walls.



MATT



SATIN

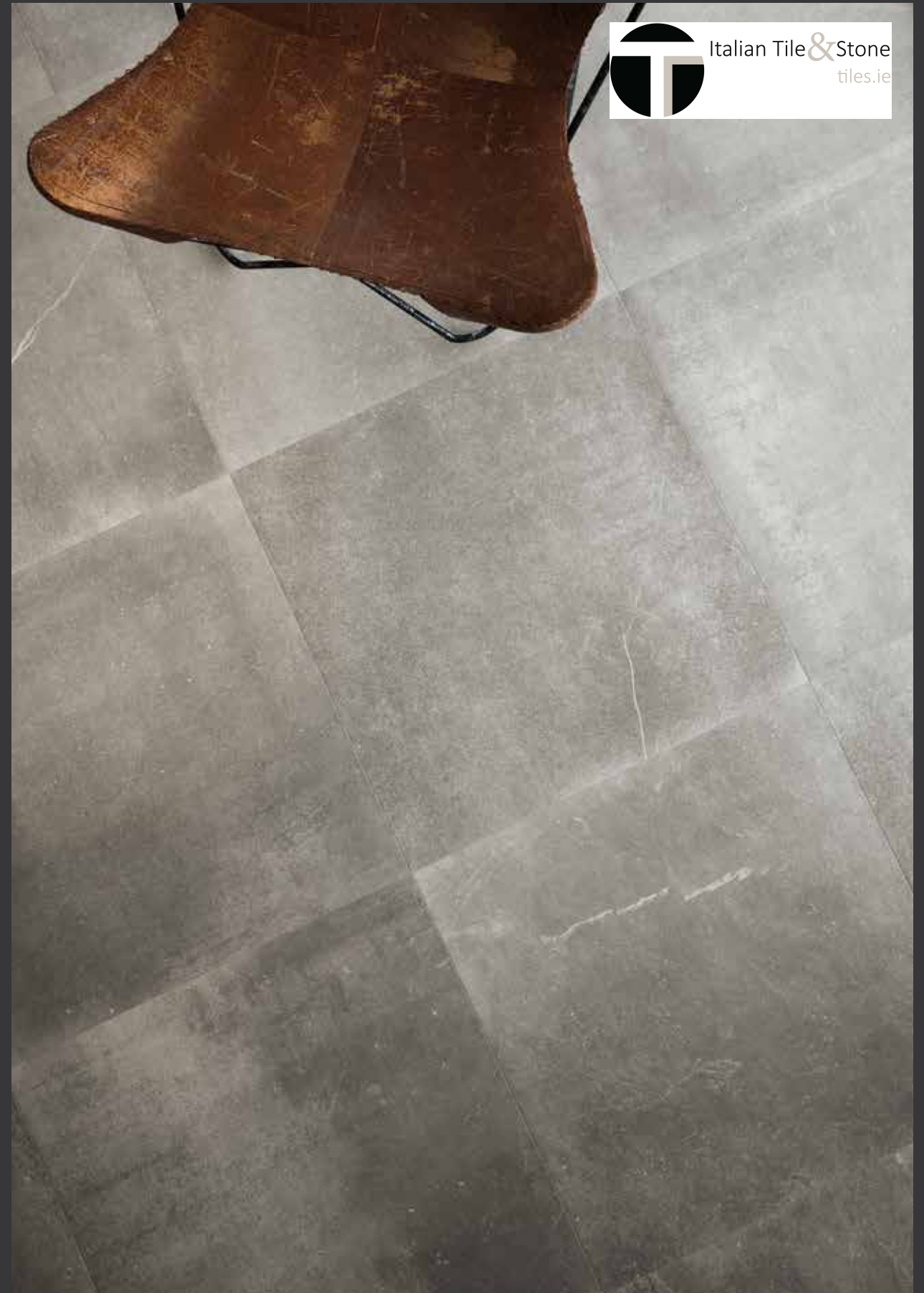
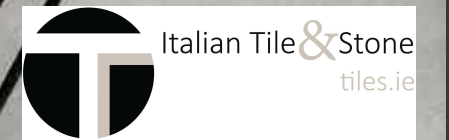




Wall
Ukam Grey
Floor
Ukam Grey Satin

HOME

original, distinctive allure for Ukam Grey in the 20x20 size for the fireplace. delicately sophisticated reflections on the 75x75 cm floor tiles, with natural imperfections and a Satin finish.





Wall
Ukam Dark

Floor
Ukam Dark Matt

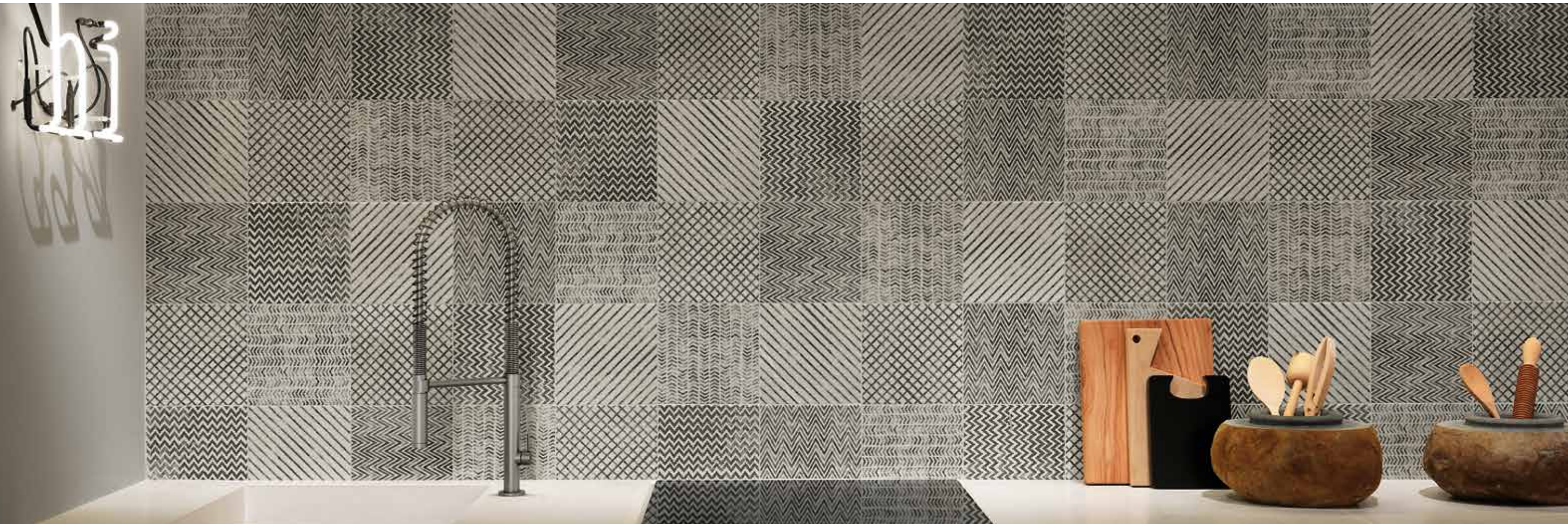
sophisticated Dark



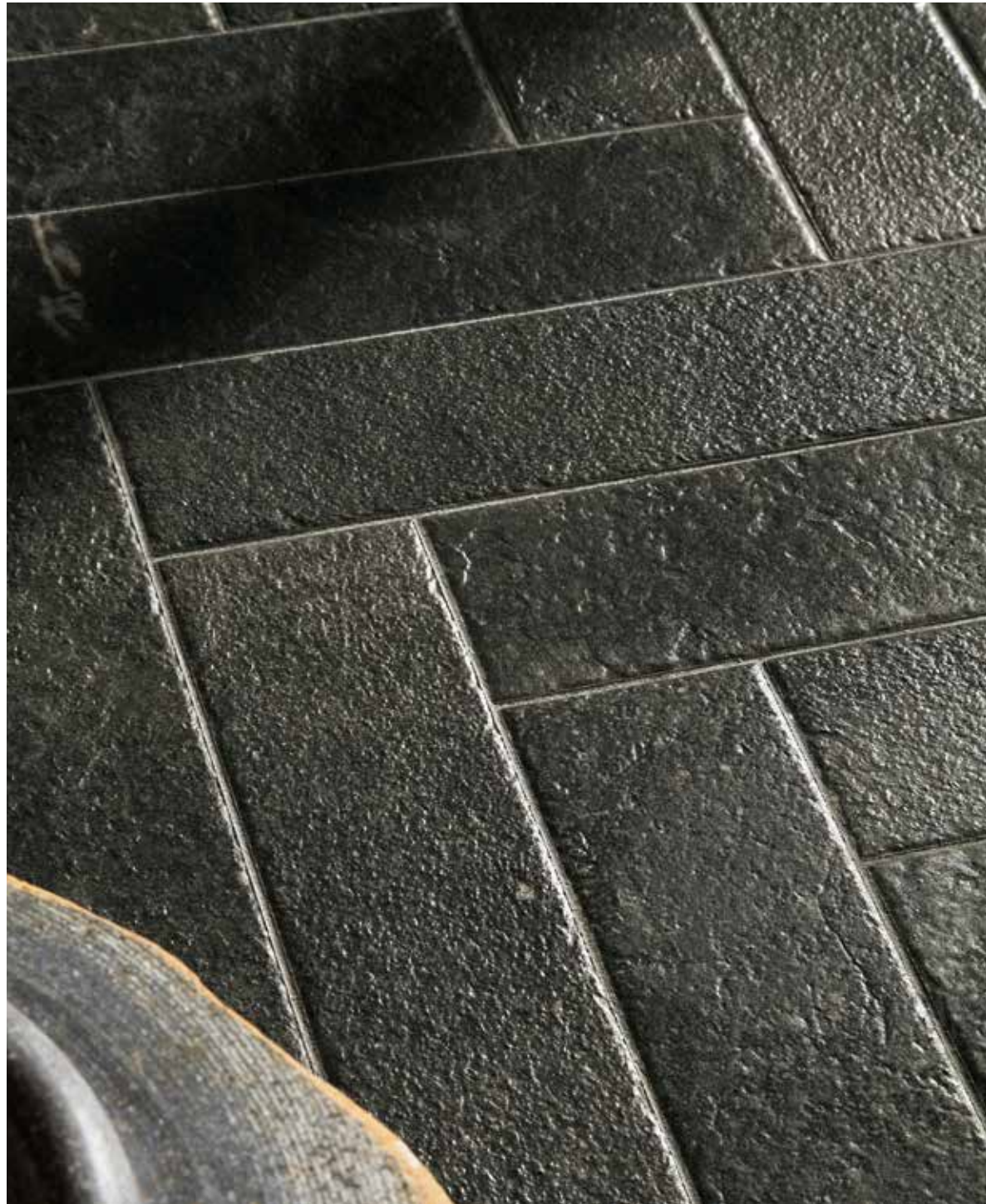


Floor
Ukam Dark and Ukam Light

I LOVE MY KITCHEN







Ingredients 20x20 Déco Light + 7,5x30 Dark

in line with the very latest furnishing trends, a contemporary setting obtained thanks to sophisticated graphic patterns and a floor with a natural surface with a hand-crafted look.





CONTEMPORARY NATURAL



Wall
Ukam Dark
Ukam Déco Dark
Floor
Ukam Dark



20x20 Déco Dark



Wall
Ukam Nut
Ukam Nut Spigolo
Floor
Ukam Nut Matt



edges and corners allow us to tile working tops with flawless precision.

simply Nut

Maku Trace & Déco Dark



spontaneous,
organic,
three-dimensional:
a surface that
is pure design.



Wall
Ukam Grey
Ukam Rock Grey
Wall Silver Listello
Floor
Ukam Grey Matt

Ukam Grey



Ukam Nut

a dove-grey coloured bathroom,
with a Rock surface
and Random mosaic.



Wall
Ukam Nut
Ukam Rock Nut
Ukam Random Mosaico Nut

Floor
Ukam Nut Satin



Wall
Ukam Light
Mosaici Ramage White

Mosaico Ramage

a unique, innovative technique used to create a mosaic with a continuous pattern.

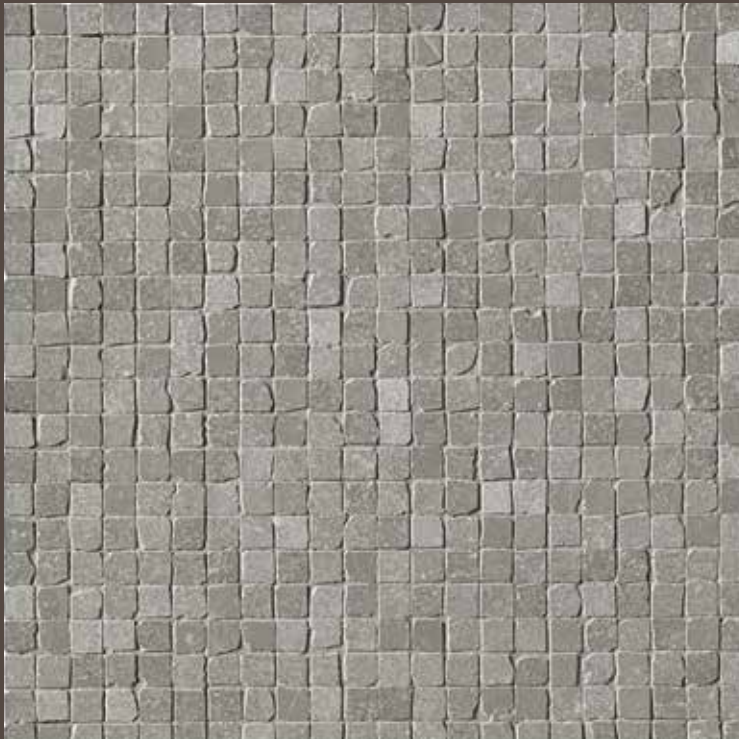
WHITE BODY

BRICK + RAMAGE + RANDOM. three different sizes for three different white-body mosaics.



PORCELAIN STONEWARE

MACROMOSAICO + SPINA + MICROMOSAICO + MACROMOSAICO
OUT. four different mosaic personalities in porcelain stoneware.



UKAM MOSAIC

marvellous mosaics with unique Italian craftsmanship at their heart. the sophisticated imperfections of the material shape refined beauty through the grouting process.

BEFORE
GROUTING*

AFTER
GROUTING**

GRID WHITE WELCOME BREAKFAST!

Wall
Maku Light
Maku Grid White

Grid metal

Lunch, Sushi Bar





Wall
Ukam Nut
Ukam Grid Metal

UKAM

Ukam, a fine-quality surface to strike a perfect balance between architectural rigour and essential warmth.



Wall
Ukam Nut Matt
Ukam Nut Out
Floor
Ukam Nut Satin



Italian Tile & Stone
tiles.ie



Ukam Grey brick tiles: a classic, amazingly contemporary solution.

COFFEE PLEASE



Wall
Ukam Grey
Floor
Ukam Grey Matt



SHOP
style is
everywhere

Wall
Ukam Light
Floor
Ukam Light Satin

Every volume becomes a delightful natural setting, thanks to the practical, hard wearing appeal of porcelain stoneware.





MILANO

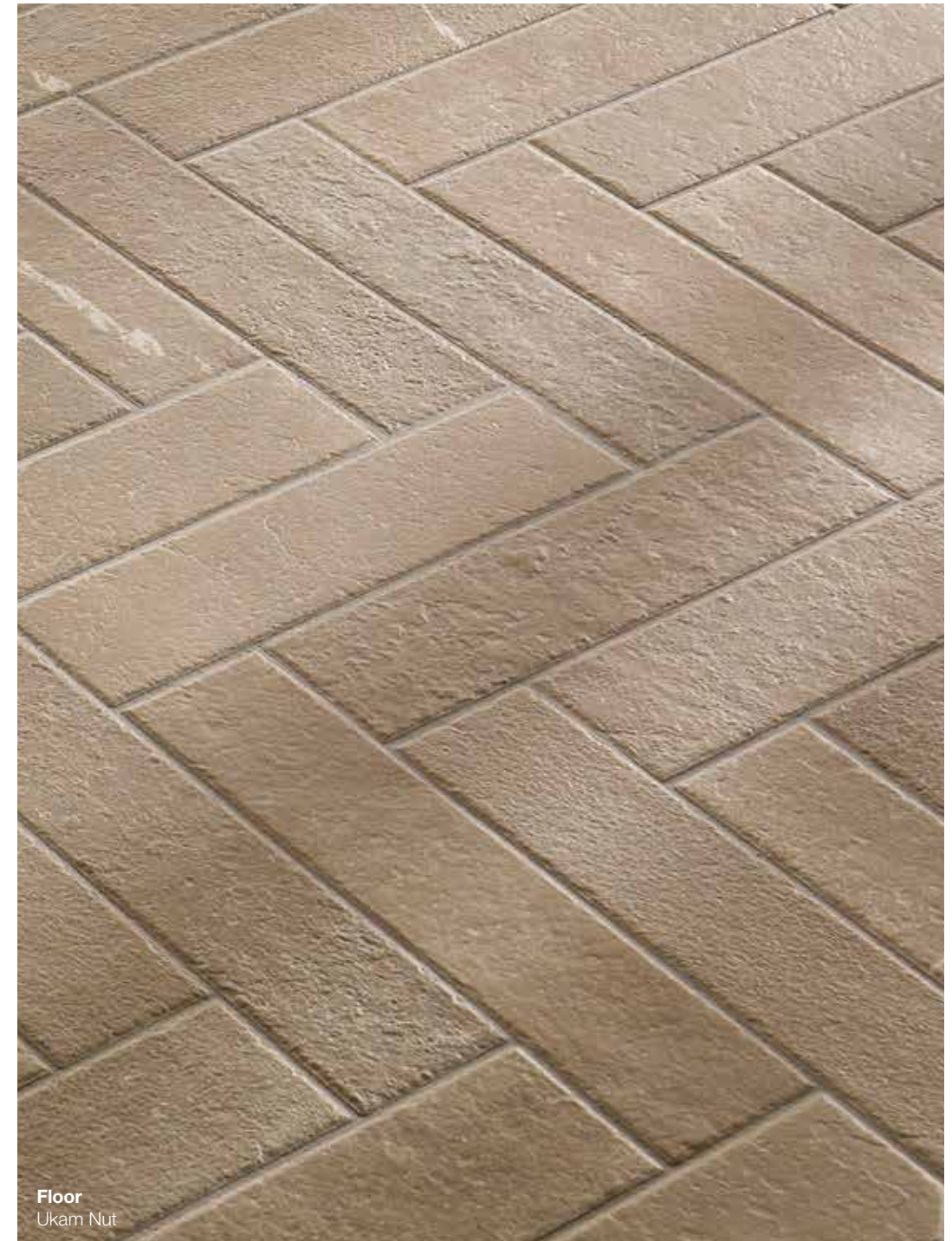




WALL



FLOOR



SPA

surface is
the new wellness

front wall with a warm, rocky effect,
tiled with the outdoor version of Maku
Dark. sophisticated, safe flooring in
macromosaico out, with anti-slip
certification R 11.



Wall
 Ukam Dark Matt
 Ukam Dark Out

Floor
 Ukam Macromosaico Dark Out

OUTDOOR

Ukam is the ideal covering material for outdoors, able to stand up to frost and wear. perfect as a covering material for stairs thanks to the special trims.



Wall
 Ukam Grey Out
 Ukam Grey Matt
Floor
 Ukam Grey Matt
Stair
 Ukam Grey Scalino



UKAM PLANS

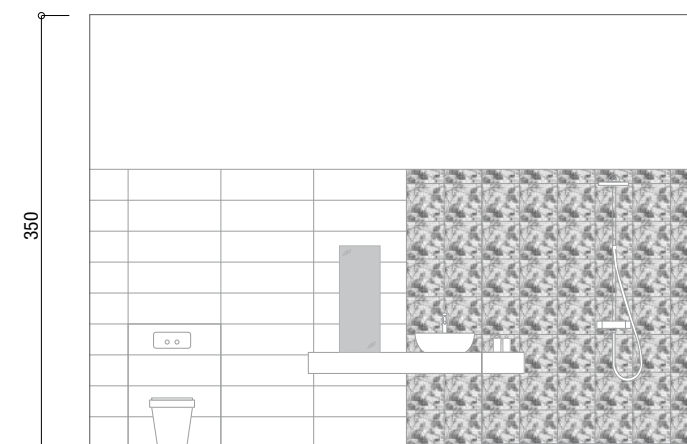
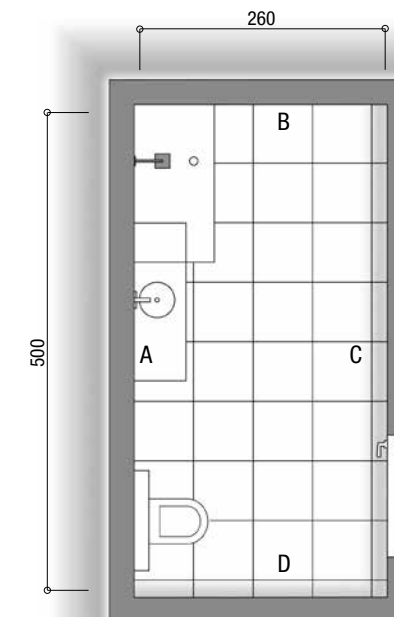


Wall A

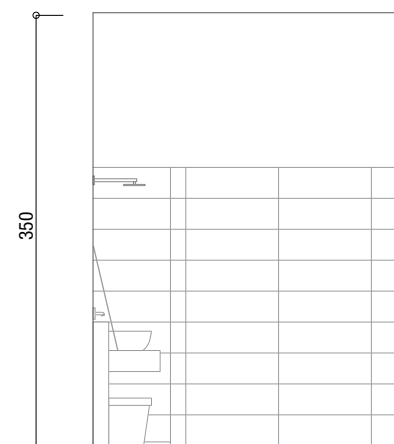
Ukam Light 25x75
 Ukam White Ramage 30,5x30,5
 Ukam Light Spigolo 1x25
 Ukam Light Spigolo A.E. 1x1

Wall B - C - D

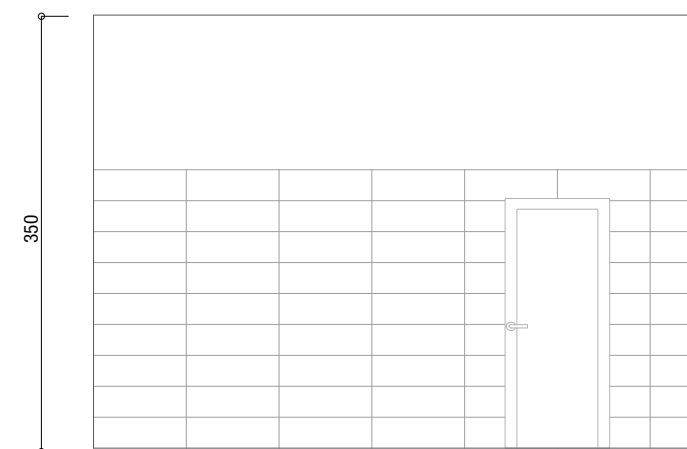
Ukam Light 25x75
 Floor
 Ukam Light 60x60 RT



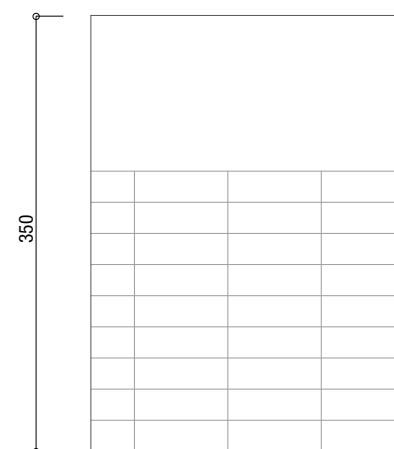
Wall A



Wall B



Wall C

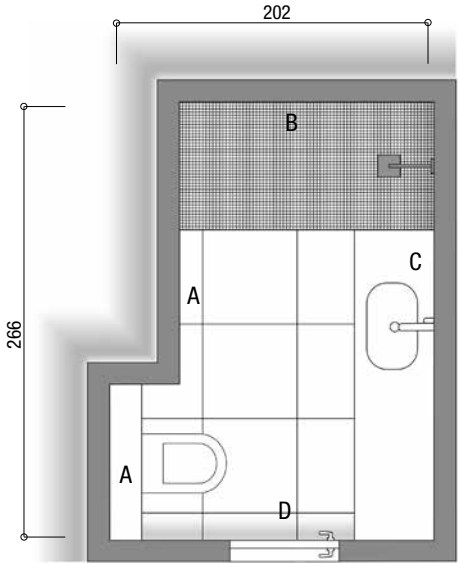


Wall D



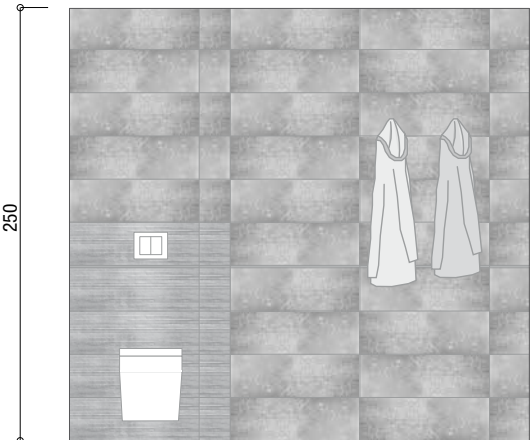
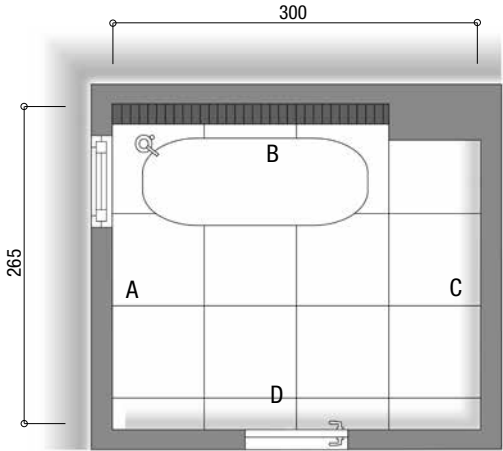
Wall A
Ukam Grey 25x75
Ukam Rock Grey 25x75
Ukam Grey Spigolo 1x25
Lumina Silver Listello Satinato 1,5x75
Wall C
Ukam Rock Grey 25x75

Wall B - D
Ukam Grey 25x75
Lumina Silver Listello Satinato 1,5x75
Floor
Ukam Grey 60x60 RT

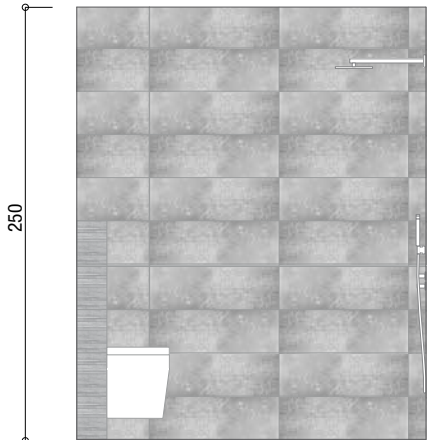


Wall A - C - D
Ukam Nut 25x75
Floor
Ukam Nut Satin 75x75 RT

Wall B
Ukam Nut 25x75
Ukam Rock Nut 25x75
Ukam Nut Mosaico Random 30,5x30,5
Ukam Nut Spigolo 1x25



Wall A



Wall B



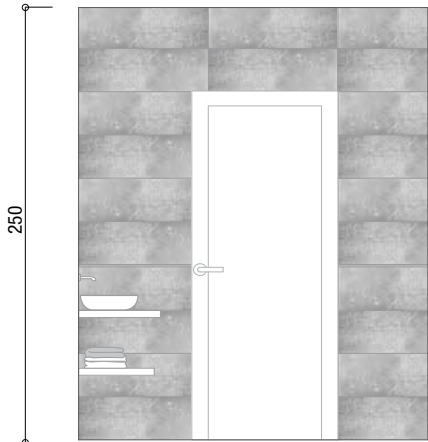
Wall A



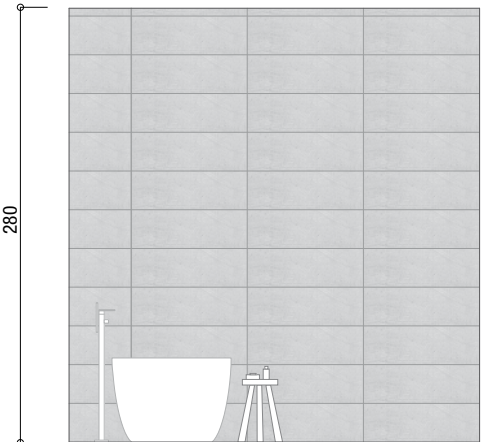
Wall B



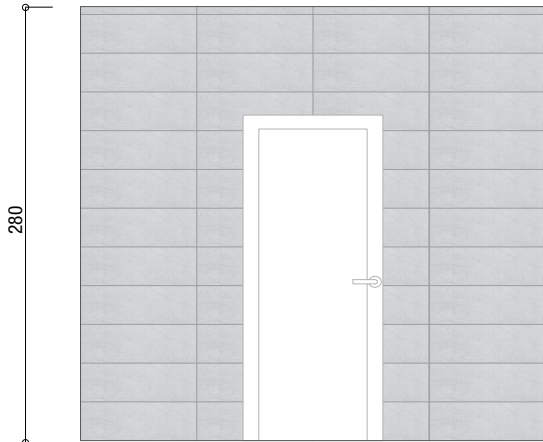
Wall C



Wall D



Wall C



Wall D



Ukam Grey 25x75 V2



Ukam Light 25x75 V2



Ukam Nut 25x75 V2

Ukam Grey Spigolo 1x25

A.E. Spigolo 1x1

Ukam Light Spigolo 1x25

A.E. Spigolo 1x1

Ukam Nut Spigolo 1x25

A.E. Spigolo 1x1



Ukam Rock Grey 25x75 V2



Ukam Rock Light 25x75 V2



Ukam Rock Nut 25x75 V2

Lumina Satinato Silver Listello 1,5x75

AE Listello 1x1

MOSAICO



Ukam Grey Brick Mosaico 30,5x30,5



Ukam Grey Random Mosaico* 30,5x30,5



Ukam Light Brick Mosaico 30,5x30,5



Ukam Light Random Mosaico* 30,5x30,5



Ukam Nut Brick Mosaico 30,5x30,5



Ukam Nut Random Mosaico* 30,5x30,5



Mosaici Ramage White Mosaico** 30,5x30,5



1,3 x 2,3 cm



1,3 x 2,3 cm
1,3 x 1,3 cm



1,8 x 1,8 cm



	Sales unit	MQ./Box	PZ./Box	Kg/Box	Box/PL
①	1 Box	1,125	6	16,80	54
②	1 Box	-	5	-	-
③	1 Box	-	4	-	-
④	1 Box	0,937	5	14,25	54
⑤	1 Box	0,558	6	8,20	-



Ukam Dark 7,5x30 V2

MATT R10

7,5x30



Ukam Grey 7,5x30 V2

MATT R10

7,5x30



Ukam Nut 7,5x30 V2

MATT R10

7,5x30



Ukam Sand 7,5x30 V2

MATT R10

7,5x30



Ukam Light 7,5x30 V2

MATT R10

7,5x30

Ukam Dark
Spigolo 1x20

Ukam Dark
Spigolo 1x7,5

Ukam Dark
AE Spigolo 1x1

Ukam Grey
Spigolo 1x20

Ukam Grey
Spigolo 1x7,5

Ukam Grey
AE Spigolo 1x1

Ukam Nut
Spigolo 1x20

Ukam Nut
Spigolo 1x7,5

Ukam Nut
AE Spigolo 1x1

Ukam Sand
Spigolo 1x20

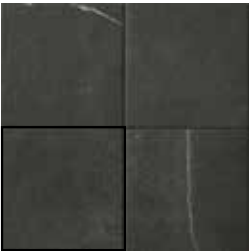
Ukam Sand
Spigolo 1x7,5

Ukam Sand
AE Spigolo 1x1

Ukam Light
Spigolo 1x20

Ukam Light
Spigolo 1x7,5

Ukam Light
AE Spigolo 1x1



Ukam Dark 20x20 V2

MATT R10

20x20



Ukam Grey 20x20 V2

MATT R10

20x20



Ukam Nut 20x20 V2

MATT R10

20x20



Ukam Sand 20x20 V2

MATT R10

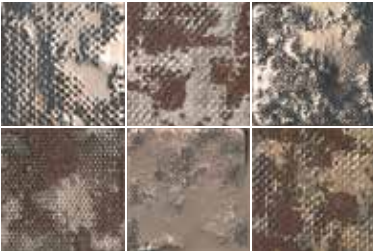
20x20



Ukam Light 20x20 V2

MATT R10

20x20



Ukam Grid Metal Inserto Mix 6 40x60



Ukam Grid White Inserto Mix 6 40x60



Ukam Trace Dark Inserto Mix 6 40x60



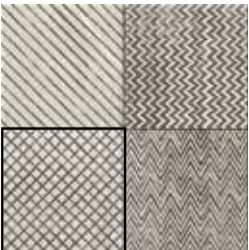
Ukam Trace Sand Inserto Mix 6 40x60



Ukam Déco Dark 20x20 V2

MATT R10

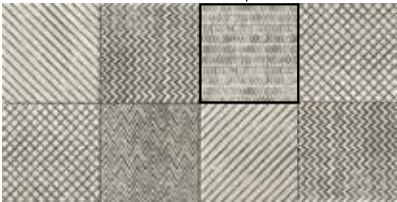
20x20



Ukam Déco Light 20x20 V2

MATT R10

20x20

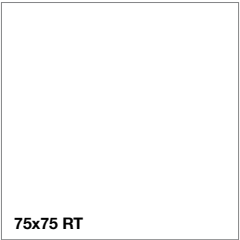


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2	1 Box	1,20	30	23,90	56
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5	1 Box	-	1 MIX	4,80	-

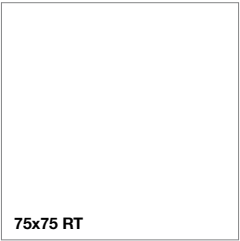


Ukam Dark V2

MATT R 9



SATIN

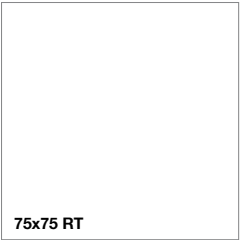


OUT R11C(A+B+C)

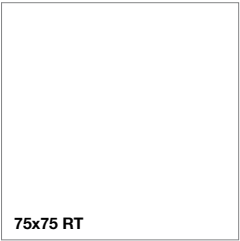


Ukam Grey V2

MATT R 9



SATIN

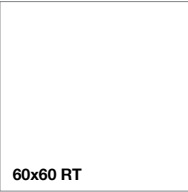
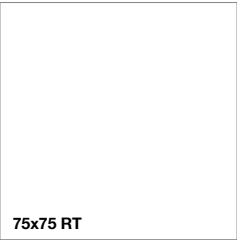


OUT R11C(A+B+C)

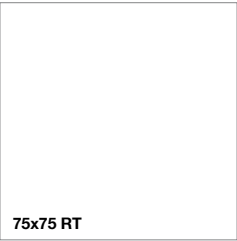


Ukam Nut V2

MATT R 9



SATIN

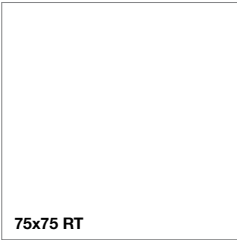


OUT R11C(A+B+C)

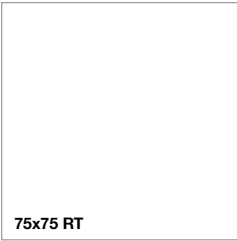


Ukam Sand V2

MATT R 9



SATIN

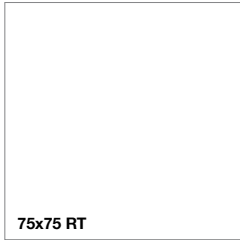


OUT R11C(A+B+C)

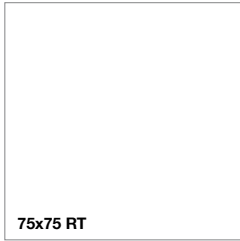


Ukam Light V2

MATT R 9



SATIN



OUT R11C(A+B+C)



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1	1 Box	1,125	2	25,95	42
2	1 Box	1,080	3	24,82	40
3	1 Box	1,080	6	23,10	40

MOSAICO



Ukam Dark Gres
Micromosaico Matt 30x30



Ukam Grey Gres
Micromosaico Matt 30x30



Ukam Nut Gres
Micromosaico Matt 30x30



Ukam Sand Gres
Micromosaico Matt 30x30



Ukam Light Gres
Micromosaico Matt 30x30



1,2 x 1,2 cm



Ukam Dark Gres
Mosaico Spina Matt 30x30



Ukam Grey Gres
Mosaico Spina Matt 30x30



Ukam Nut Gres
Mosaico Spina Matt 30x30



Ukam Sand Gres
Mosaico Spina Matt 30x30



Ukam Light Gres
Mosaico Spina Matt 30x30



1,3 x 2,3 cm



Ukam Dark Gres
Macromosaico Matt 30x30



Ukam Grey Gres
Macromosaico Matt 30x30



Ukam Nut Gres
Macromosaico Matt 30x30



Ukam Sand Gres
Macromosaico Matt 30x30



Ukam Light Gres
Macromosaico Matt 30x30



5 x 5 cm



Ukam Dark Gres
Macromosaico OUT 30x30



Ukam Grey Gres
Macromosaico OUT 30x30



Ukam Nut Gres
Macromosaico OUT 30x30



Ukam Sand Gres
Macromosaico OUT 30x30



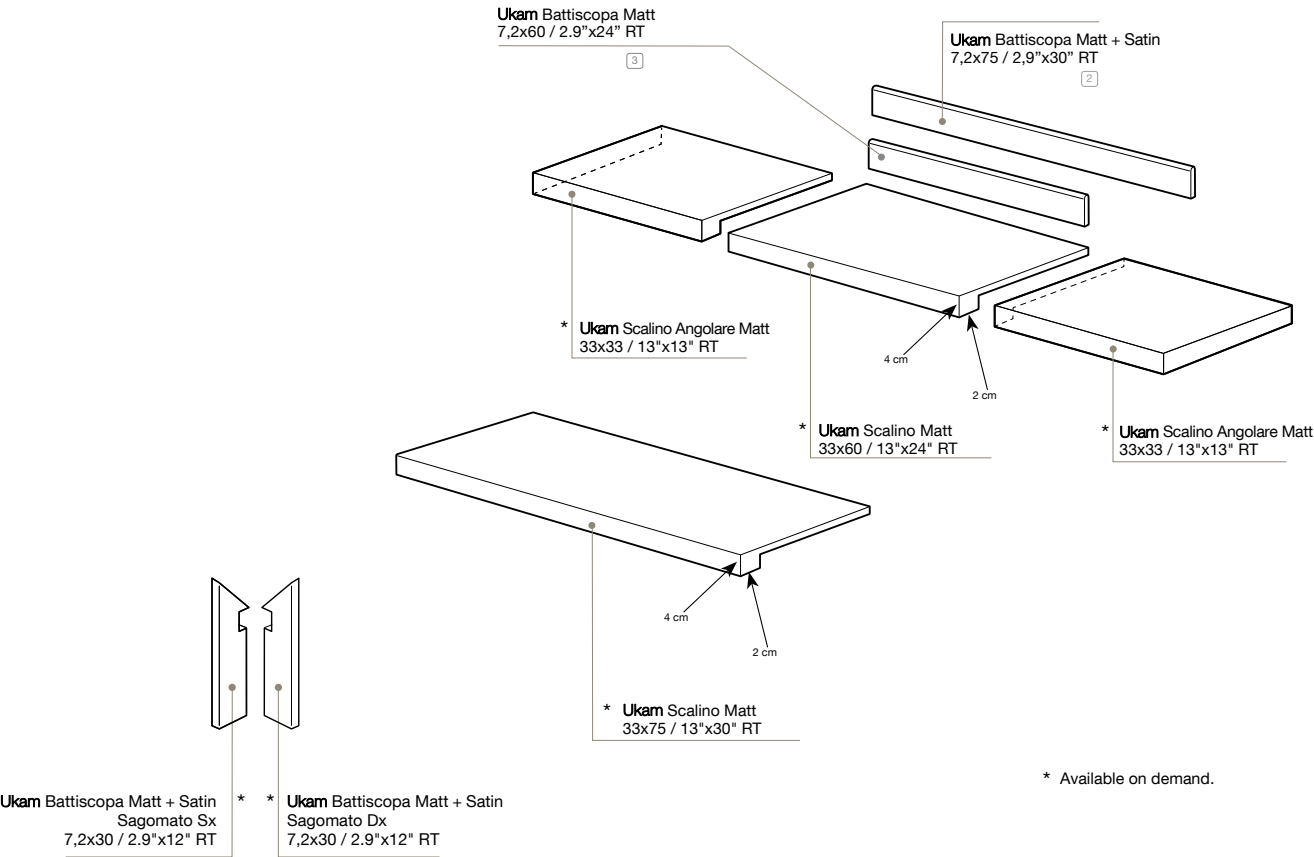
Ukam Light Gres
Macromosaico OUT 30x30



5 x 5 cm

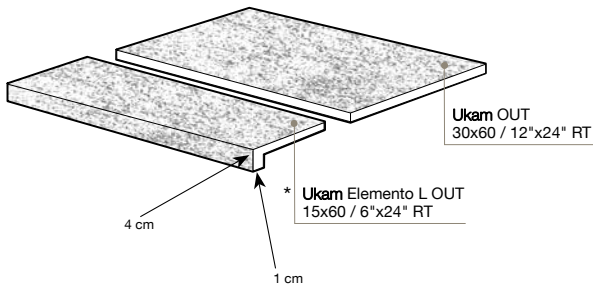
Special Items IN

Available in all colours.



































































































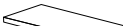























Special Items OUT

Available in all colours.



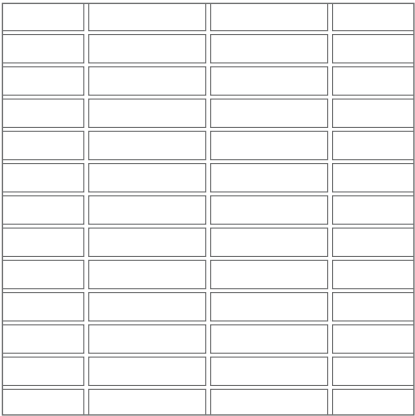
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2	1 Box	3,75 ML	5	6,02	-
3	1 Box	4,80 ML	8	6,70	-
4	1 Box	-	2	-	-
5	1 Box	2,40 ML	8	3,55	-

UKAM		DARK		GREY		NUT		SAND		LIGHT							
WHITE BODY	 25x75 10°x30°	-		 MATT		 MATT		-		 MATT							
	 Rock 25x75 10°x30°	-		 MATT		 MATT		-		 MATT							
WHITE BODY MOSAICS	 Brick Mosaico 30,5x30,5 12°x12°	-		 MATT		 MATT		-		 MATT							
	 Random Mosaico 30,5x30,5 12°x12°	-		 MATT		 MATT		-		 MATT							
	 Ramage 30,5x30,5 12°x12°	-		-		-		-		 MATT							
ATELIER	 20x20 8°x8°	 MATT R10		 MATT R10		 MATT R10		 MATT R10		 MATT R10							
	 Déco 20x20 8°x8°	 MATT R10		-		-		-		 MATT R10							
	 7,5x30 3°x12°	 MATT R10		 MATT R10		 MATT R10		 MATT R10		 MATT R10							
PORCELAIN STONEWARE	 75x75 RT 30°x30°	 MATT R9		 SATIN	 MATT R9		 SATIN	 MATT R9		 SATIN	 MATT R9		 SATIN	 MATT R9		 SATIN	
	 60x60 RT 24°x24°	 MATT R9				 MATT R9				 MATT R9				 MATT R9			
	 30x60 RT 12°x24°	 MATT R9				 MATT R9				 MATT R9				 MATT R9			
	 30x60 RT 12°x24° OUT	 MATT R11 C(A+B+C)				 MATT R11 C(A+B+C)				 MATT R11 C(A+B+C)				 MATT R11 C(A+B+C)			
PORCELAIN STONEWARE MOSAICS	 Micromosaico 30x30 12°x12°	 MATT				 MATT				 MATT				 MATT			
	 Spina 30x30 12°x12°	 MATT				 MATT				 MATT				 MATT			
	 Macromosaico 30x30 12°x12°	 MATT				 MATT				 MATT				 MATT			
	 Macromosaico OUT 30x30 12°x12°	 MATT				 MATT				 MATT				 MATT			

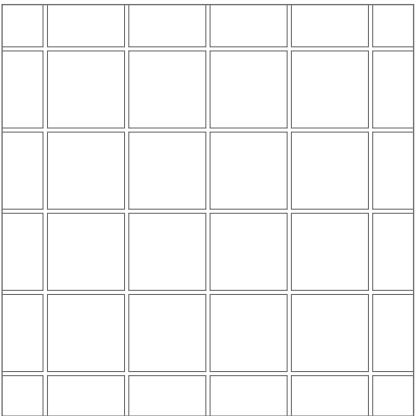
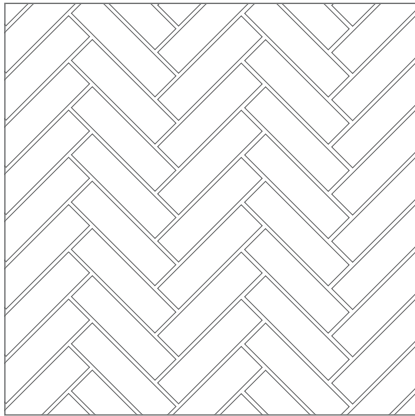
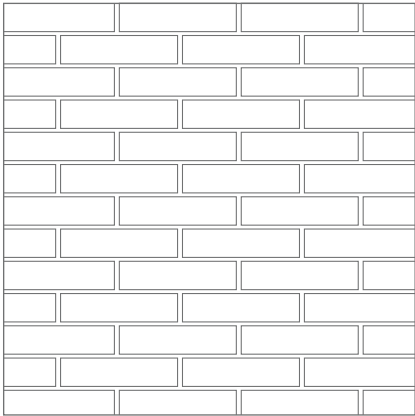
UKAM		DARK		GREY		NUT		SAND		LIGHT	
PORCELAIN STONEWARE TRIMS	 Battiscopa 7,2x75 RT 2.9"x30"	 MATT	 SATIN	 MATT	 SATIN	 MATT	 SATIN	 MATT	 SATIN	 MATT	 SATIN
	 Battiscopa 7,2x60 RT 2.9"x24"	 MATT		 MATT		 MATT		 MATT		 MATT	
	 Scalino 33x75 RT 13"x36"	 MATT		 MATT		 MATT		 MATT		 MATT	
	 Scalino 33x60 RT 13"x24"	 MATT		 MATT		 MATT		 MATT		 MATT	
	 Scalino Angolare 33x33 RT 13"x13"	 MATT		 MATT		 MATT		 MATT		 MATT	
	 elemento L OUT 33x60 RT 13"x24"	 MATT		 MATT		 MATT		 MATT		 MATT	

UKAM						
		DARK	GREY	NUT	SAND	LIGHT
WHITE BODY	TUTTI I FORMATI ALL SIZES	-			-	
	RECYCLED CONTENT PRE-CONSUMER	-			-	

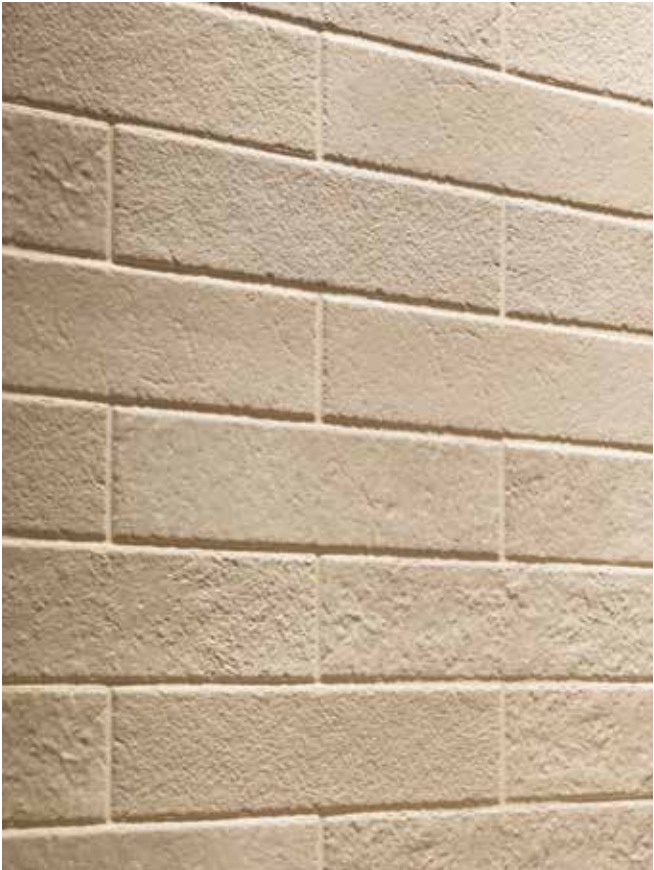
Installation tips



3-5 mm gap / Joint 3-5 mm



2-3 mm gap / Joint 2-3 mm



Advice on laying, grouting and maintenance

Wall tiles

IMPORTANT NOTE: TILES SHOULD BE LAID AND GROUTED ONLY BY PROFESSIONAL TILE LAYERS.

Tiling
Follow the simple rules below to guarantee perfect tiling results:

- 1) Check the walls that are going to be tiled are flat;
- 2) Mix the tiles during tiling by taking them from several boxes
- 3) Handle the tiles with care before and during tiling.
- 4) For installing its wall tiles, **we** recommends the use of class C2 adhesives, in compliance with the European standard EN 12004. Specifically recommended is a white glue for non-slip ceramic covering materials. For top-class results, add an elasticator, taking care to follow the manufacturer's instructions to the letter, and apply an even layer of glue on the underside of the tile. The thickness of the glue can be adjusted using the toothed side of the trowel.

Cleaning
Use cleaning tools that are perfectly clean themselves. Always rinse off surfaces. Use clean water alone if the surface is washed frequently.

Advice on laying, grouting and maintenance

Porcelain stoneware

IMPORTANT NOTE: TILES SHOULD BE LAID AND GROUTED ONLY BY PROFESSIONAL TILE LAYERS.

Tiling
Follow the simple rules below to guarantee perfect tiling results:
1) Check the floor slab is flat where the tiles are to be fitted;
2) Mix the tiles during tiling by taking them from several boxes
3) Handle the tiles with care before and during tiling.

IMPORTANT:
rectified floor tiles must be laid with a 2-3 mm gap between them. For the laying outdoors we recommend a gap of 3 mm.
For floors with a lengthwise tiling layout, maximum 1/3 offset between panels. The hexagons will have to be laid with a 3 to 5 mm gap between tiles.

Grouting
Use matching grouts.

Cleaning
When cement-based grouts are used, the tiler should follow the instructions for cleaning. Follow the manufacturer's instructions if epoxy grouts are used.

Cleaning to be performed by the tile layer:

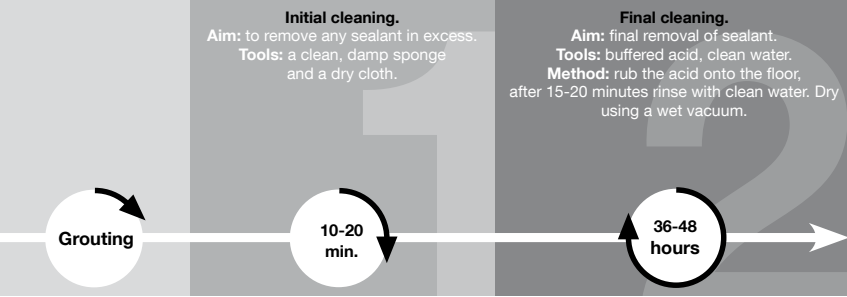
- 1 Initial cleaning:** about 10-20 minutes after grouting, grout will lose its plasticity and become opaque: any excess sealant should then be removed using a clean, damp sponge. The tiles must then be wiped clean using a dry cloth or felt.
- 2 Final cleaning:** after 36/48 hours both the tiles and the joints will have dried completely: the surface must then be washed using a buffered acid solution. The tiles must then be rinsed using plenty of clean water, which must then be removed using a liquid vacuum.

EXTREMELY IMPORTANT: it is essential that the tile layer cleans the tiles exactly as prescribed so that the flooring will subsequently be easy to clean. The care taken with both the initial and final cleaning processes (in particular the complete removal of grout residuals) will affect the subsequent ease of maintenance of the flooring. The best manufacturers of joint-grouts and adhesives recommend this procedure for all flooring in porcelain stoneware. If these recommendations are not observed or if water is used which is not perfectly clean, it could lead to the formation of a hardly perceivable film of grout or building site dust which is extremely absorbent and captures any dust in the atmosphere and can make the floor look eternally dirty.

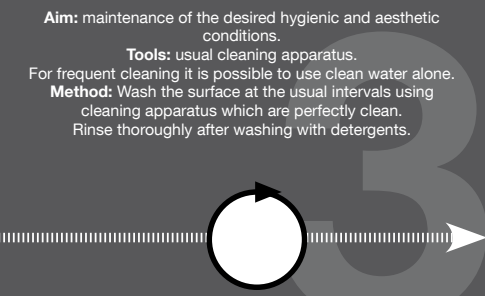
Ordinary cleaning:

- 3 Frequency:** as usual.
Recommendations:
a] always use cleaning tools which are perfectly clean; **b]** always rinse the floor; **c]** do not walk on the floor when wet;
d] clean water without detergent may be used for frequent washing or specific detergents to remove dirt of stains that are not waxen or filmy. We advise not to use detergents with the indication "it is not necessary to rinse after use".

Cleaning to be carried out by the tile layer.



Ordinary cleaning to be carried out by the user.



Glossy porcelain stoneware

Glossy porcelain stoneware is created by means of a special polishing process that enhances the smooth texture of the surface of the tiles, thus achieving a sophisticated look in which vibrant reflections create a uniquely attractive effect. The polishing process used for all the polished and lapped products on the market involves removing a tiny part of the material and sometimes opening up a number of micro-pores on the surface, which makes the products more vulnerable to staining. We recommend using grout in a shade similar to that of the tile, in order to reduce contrast. During the laying process, materials should not be marked on the upward facing side with pencils or permanent markers.

Floor tiles OUT

Grouting
Use cement-based grouts for improved joints (CLASSE CG2 according to EN 13888) without additives of any kind. Reactive resin based mortars should not be used (CLASSE RG according to EN 13888).





Cleaning
Essential operations required to ensure ordinary maintenance is kept reasonably simple.

- Cleaning to be performed by the tile layer:**
- 1) NB:** first remove excess grout from the surface, moving a spatula diagonally across the joints before the grout has dried hard.
 - 2) Initial cleaning:** 10-20 minutes after grouting, when the grout is no longer elastic and has become opaque, remove excess sealant using a clean, damp hard cellulose sponge. Do not carry out this cleaning operation any earlier, since this could partially empty the material from the joints. Should the grout have already hardened, use a Scotch-Brite® abrasive sponge dampened with clean water.
 - 3) Final cleaning:** after 36-48 hours, when the joints have set properly, the surface must be washed with buffered acid; simply follow the recommendations below.

Use a buffered acid-solvent solution, diluted 50-50 in preferably warm water. Diluted hardware store acids MUST NOT be used (because they give off harmful fumes and can "burn" into the joints).











- a]** Wet the covering surface so that the cement-based grout is protected from any corrosive action of the diluted acid solution. **b]** Distribute the diluted acid solution evenly using a Scotch-Brite® sponge. **c]** Leave to go to work for a few minutes, depending on how much dirt there is. **d]** Brush vigorously with a brush with nylon bristles or similar. **e]** Use dry, clean cloths to wipe up the residue. **f]** Rinse thoroughly with plenty of clean, warm water, as often as required to remove any smudges or residue in the gaps. **g]** If there are still areas not perfectly clean, repeat the acid wash.

white body. - Standard EN 14411 (ISO 13006) Annex L Group BIII, E > 10%

TECHNICAL SPECIFICATIONS			STANDARDS	VALUES REQUIRED EN 14411 - ISO 13006 BIII (GL)		MAKU AVERAGE RATING BIII (GL)
				NOT RECTIFIED	RECTIFIED	25x75
SIZES		Length and width	ISO 10545-2	± 0,6%, max 2 mm	± 0,3%, max 1 mm	In accordance
		Thickness		± 10%, max 0,5 mm	± 10%, max 0,5 mm	In accordance
		••Wedging		± 0,5%, max 2 mm	± 0,3%, max 1,5 mm	In accordance
		Straightness of the edges		± 0,5%, max 1,5 mm	± 0,3%, max 0,8 mm	In accordance
		Flatness		± 0,5%, max 2 mm	± 0,4%, max 1,8 mm	In accordance
		Quality of the surface Faultless % within the sample lot		≥ 95%		In accordance
STRUCTURE		Water absorption - average value %	ISO 10545-3	> 10%		In accordance
		Breaking strength	ISO 10545-4	S ≥ 600 N		In accordance
		Bending strength		R≥ 12 N /mm²		In accordance
THERMAL SHOCK		Thermal shock resistance	ISO 10545-9	In accordance		In accordance
SURFACE		Crazing resistance	ISO 10545-11	In accordance		In accordance
		Resistance to household chemicals and swimming pool salts	ISO 10545-13	GB Min.		In accordance
		Resistance to low concentrations of acids and alkalis		According to classification indicated by the manufacturer		GLB Min.
				Stain resistance	ISO 10545-14	MINIMUM CLASS 3

- Valore medio dei test condotti negli ultimi 24 mesi. Average rating of tests conducted during the last 24 months.
- For oblong tiles with L≥ 60 cm and ratio length/width L/W≥3, measurement of rectangularity only on short edges

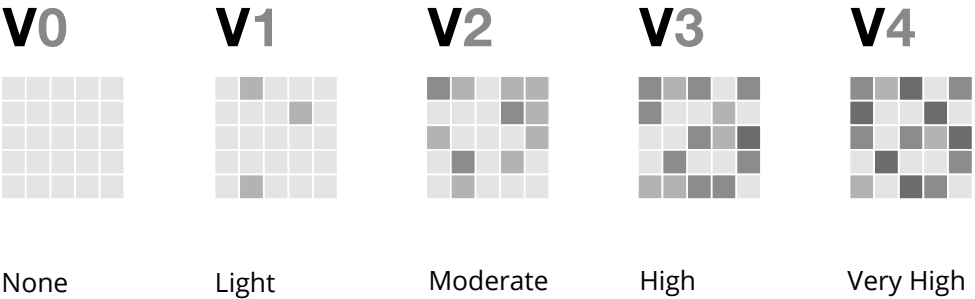
Gres Porcellanato - Standard EN 14411 (ISO 13006) Annex G Group BIa, E ≤ 0,5%

TECHNICAL SPECIFICATIONS				STAN- DARDS	VALUES REQUIRED EN 14411 - ISO 13006 Bla (UGL e GL)		MAKU AVERAGE RATING Bla UGL			
					NOT RECTIFIED	RECTIFIED	ATELIER	MATT	SATIN	OUT
SIZES		Length and width	ISO 10545-2	± 0,6%, max 2 mm	± 0,3%, max 1 mm	In accordance	In accordance	In accordance	In accordance	
		Thickness		± 5%, max 0,5 mm	± 5%, max 0,5 mm	In accordance	In accordance	In accordance	In accordance	
		••Wedging		± 0,5%, max 2 mm	± 0,3%, max 1,5 mm	In accordance	In accordance	In accordance	In accordance	
		Straightness of the edges		± 0,5%, max 1,5 mm	± 0,3%, max 0,8 mm	In accordance	In accordance	In accordance	In accordance	
		Flatness		± 0,5%, max 2 mm	± 0,4%, max 1,8 mm	In accordance	In accordance	In accordance	In accordance	
STRUCTURE		Water absorption - average value %	ISO 10545-3 ASTM C373	≤ 0,5%		In accordance	In accordance	In accordance	In accordance	
		Breaking strength	ISO 10545-4	S ≥ 1300 N		S ≥ 2000 N	S ≥ 2000 N	S ≥ 2000 N	S ≥ 2000 N	
	Bending strength	R ≥ 35 N/mm²		In accordance	In accordance	In accordance	In accordance			
		Deep abrasion	ISO 10545-6	≤ 175mm³		≤ 140mm³	≤ 140mm³	≤ 140mm³	≤ 140mm³	
		PEI	ISO 10545-7	Abrasion Class and Cycled Passed		-	-	-	-	
THERMAL SHOCK		Coefficient of thermal linear expansion	ISO 10545-8	Declared value Test method available		≤ 7 MK ⁻¹	≤ 7 MK ⁻¹	≤ 7 MK ⁻¹	≤ 7 MK ⁻¹	
		Thermal shock resistance	ISO 10545-9	Resistant		Resistant	Resistant	Resistant	Resistant	
		Resistance to frost	ISO 10545-12	Resistant		Resistant	Resistant	Resistant	Resistant	
SAFETY		Dynamic friction coefficient	DCOF BOT 3000	Slip resistant ≥ 0,42		In accordance	In accordance	-	In accordance	
		Dynamic friction coefficient	DIN 51130	According to the space or the working area		R10	R9	-	R11	
		Non-slip classification	DIN 51097	According to the wet area to be stepped on barefoot		-	-	-	C(A+B+C)	
CHEMICAL RESISTANCE		Resistance to household chemicals and swimming pool salts	ISO 10545-13	UB Min.		In accordance	In accordance	In accordance	In accordance	
		Resistance to low concentrations of acids and alkalis		According to classification indicated by the manufacturer		ULB Min.	ULB Min.	ULB Min.	ULB Min.	
		Stain resistance	ISO 10545-14	Declared value Test method available		5	5	5	5	

- Average rating of tests conducted during the last 24 months.
- For oblong tiles with L≥ 60 cm and ratio length/width L/W≥3, measurement of rectangularity only on short edges

VSHADE

The V-Shade classification indicates the level of shading of the product, ranked from V0 to V4.



Die V-Shade-Einstufung zeigt das Abtönungsniveau des Produkts an, das zwischen V0 und V4 eingestuft wird.



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