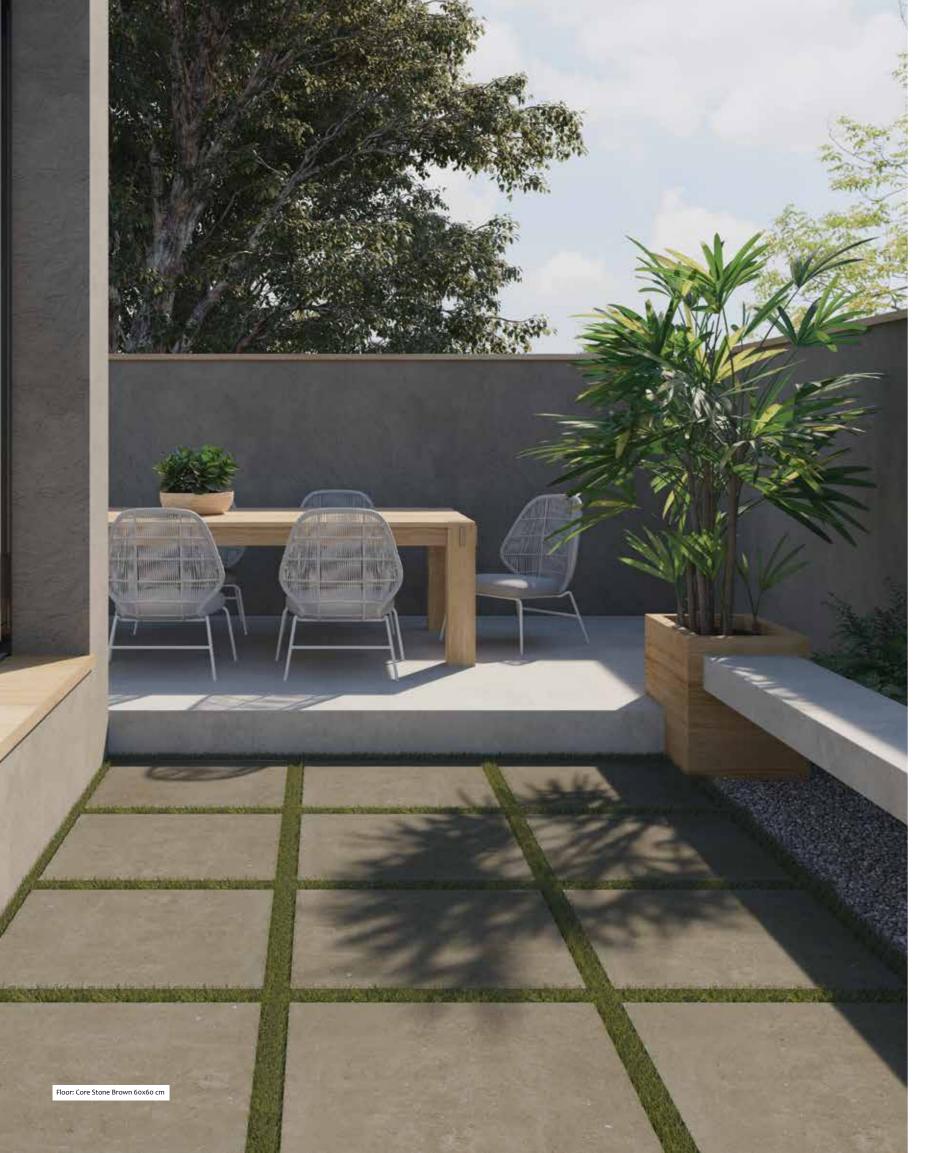
Outdoor Solutions







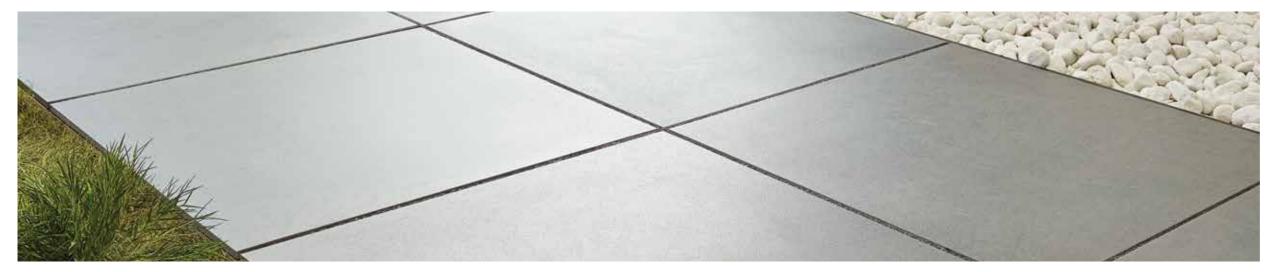




Redefining Outdoor Living with RAK Ceramics solutions

Give your outdoor spaces a new look. Sustainable and adaptable, porcelain and ceramic tiles are the ideal choice to design or revamp gardens, patios, terraces, driveways or pool areas. The different installation possibilities allows the material to blend in with its surrounding landscape.

You can choose a 20mm solution, an antislip normal thickness tile, a special antislip A+B+C product or 13/12mm ceramic tiles. Imagine your outdoor space.









20MM THICKNESS

- Borgogna Stone Bryce Coral Stone Core Stone Design Concrete Fashion Stone
- 32 33
- 33
- 34 34 34 36
- **Revive Concrete**
- Salento
- Surface 2.0 Outdoor

HIGH PERFORMANCE TECHNICAL PRODUCTS BAREFOOT + ANTISLIP (A+B+C)

- Lapitec Stone 48
- Lava Concrete 50
- Pietra Piasentina 51
- 52 53 Quarzite
 - Valley Stone

PRODUCTS WITH R11 AND STANDARD THICKNESS

- Curton
- 68 Fashion Stone
- Hard Wood
- Line Wood
- Shine Stone

CERAMIC THICKNESS TILES

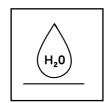
- 41.6x41.6 (13mm) 33x33 (12mm)



TECHNICAL PLUS FACTORS



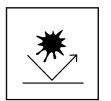
BENDING AND BREAKING STRENGTH RESISTANT



WATER
ABSORPTION
RESISTANT



FROST AND FIRE RESISTANT



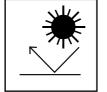
STAIN RESISTANT



THERMAL SHOCK RESISTANT



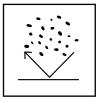
SLIP RESISTANCE R11 - C(A+B+C)



NO
DISCOLOURING
WITH EXPOSURE
TO LIGHT



MOULDS, MOSS AND VEROIGRIS RESISTANT



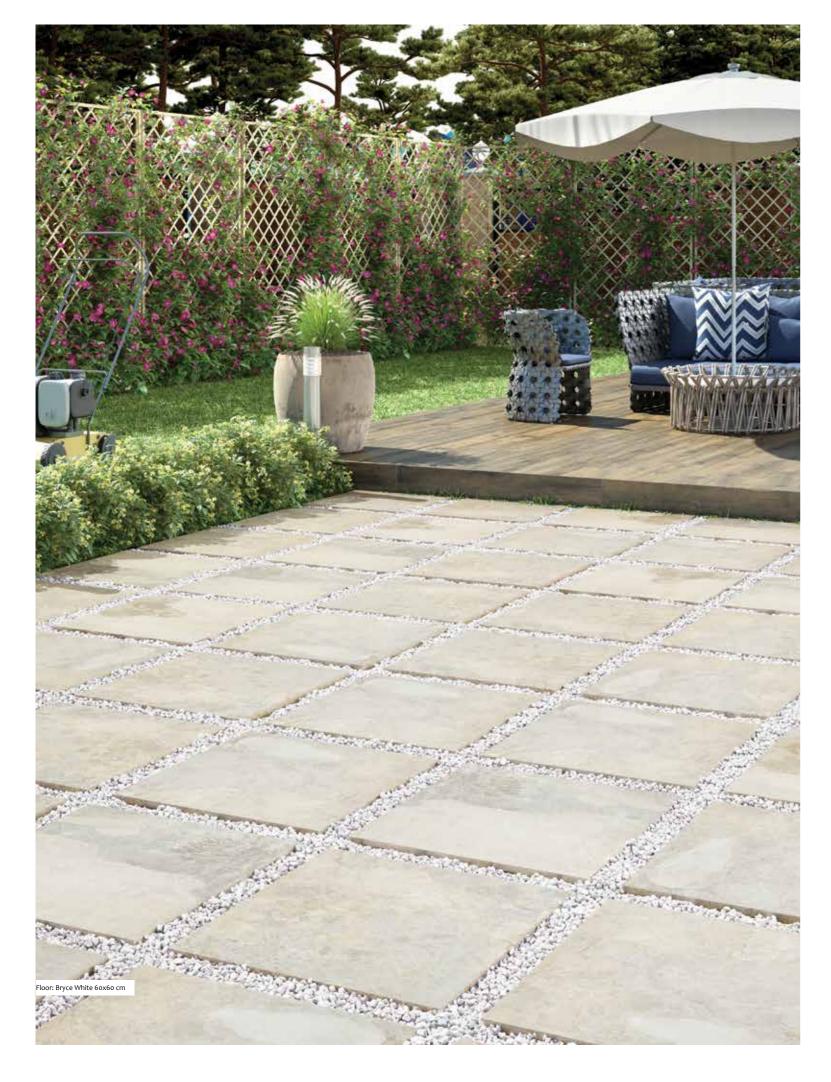
SALT RESISTANT

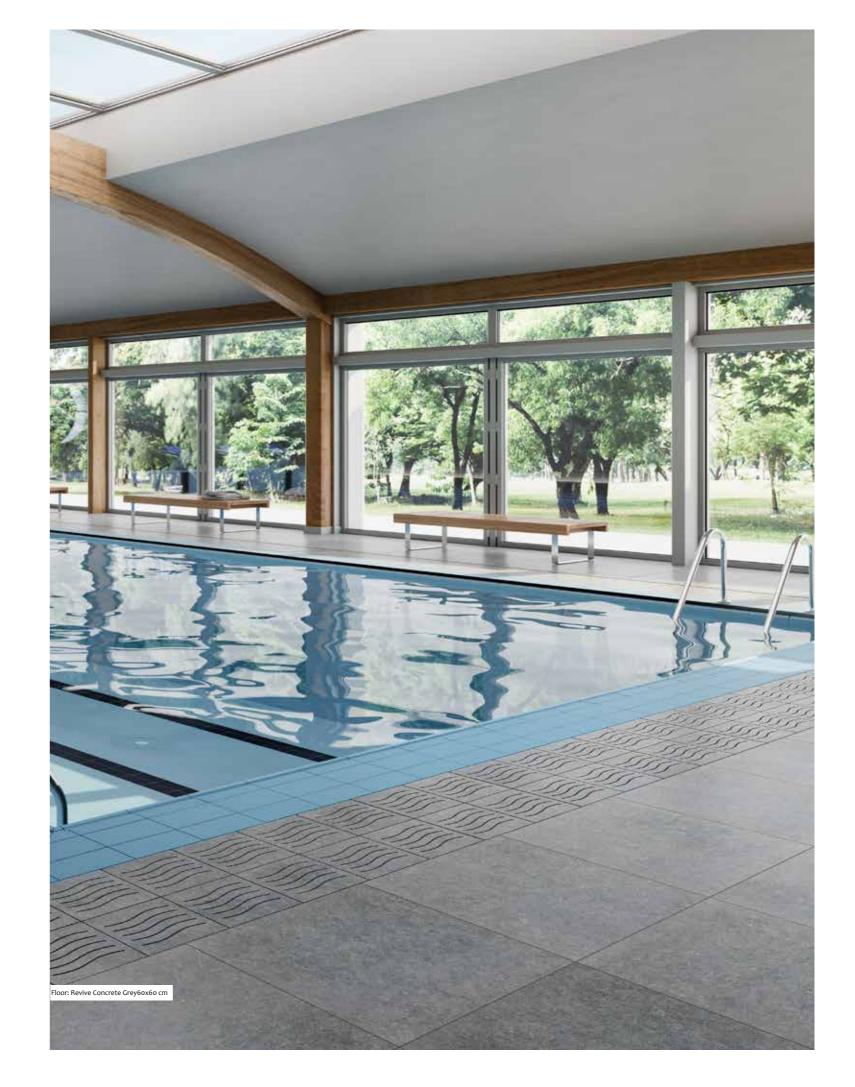


20MM THICKNESS



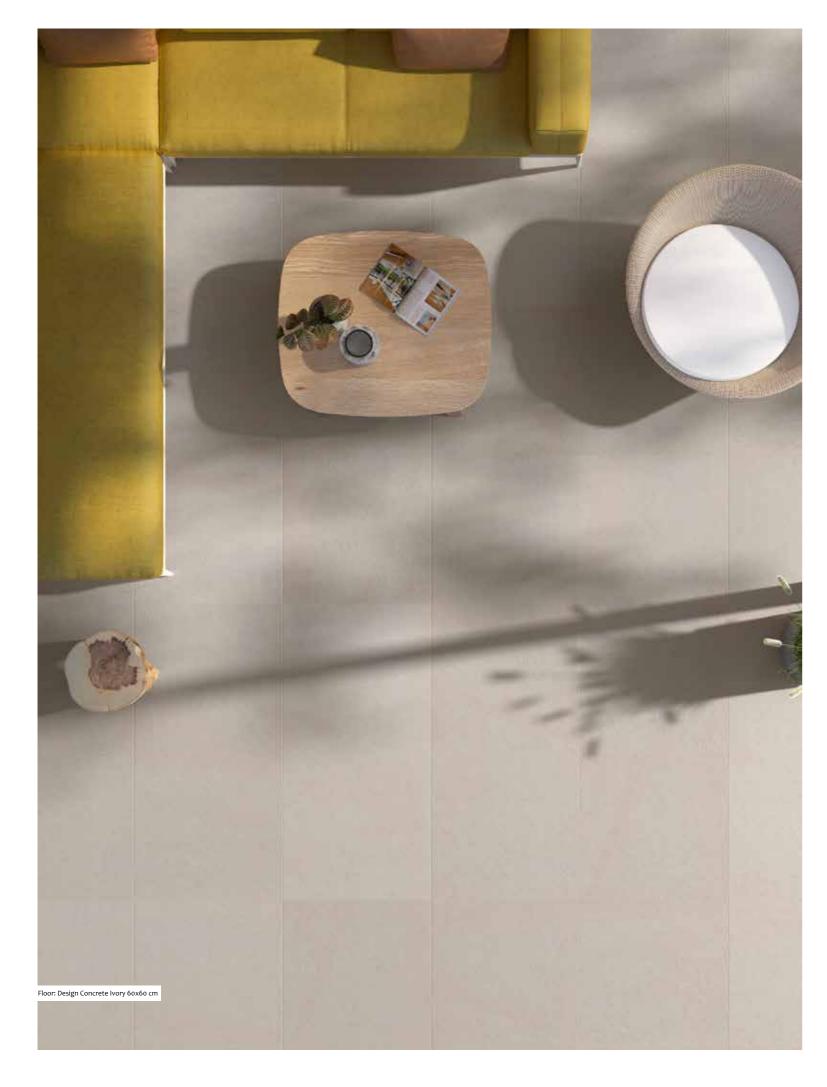














APPLICATIONS











Dry laying on grass

Dry laying on gravel

Laying as raised paving

The extra thick tiles are ideal for installation on any outdoor areas such as :







House exterior garden



Terrace





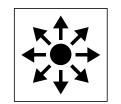


Cafes / Restaurants



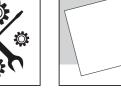
Public gardens

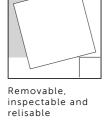
PRACTICAL PLUS FACTORS



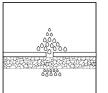
Versatile



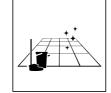




Effective oranange



Matching indoor and outdoor pavngs



Need no treatment and is easy to clean



Paths convenent for more than one person



DIRECT INSTALLATION ON GRASS

Ideal for: Gardens, gazebos, walkways.

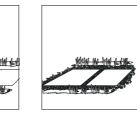
- 1- Remove the soil below the area where the sheet will be laid to a thickness of about 5-6 cm
- 2- apply gravel to a thickness of about 3-4 cm and compact the foundation
 3- Rest the sheets with at least 1 cm of gap on the gravel bed and use a rubber hammer to eliminate any unevenness.

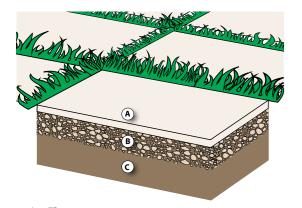


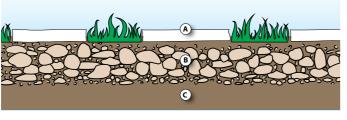












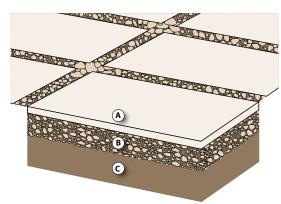
LAYING DIRECTLY ON GRASS Laying with open joints

B. Fine gravel or sandy laying bed
C. Ground

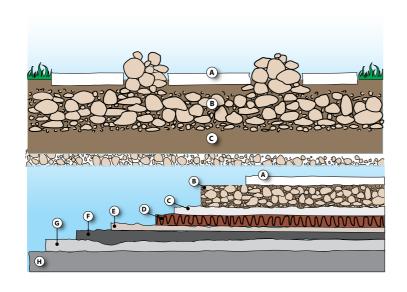
INSTALLATION ON GRAVEL AND SAND

Ideal for: gardens, patios, courtyards, pedestrian walkways, beach resorts, perimeter areas in pools.

- 1- Compact the level of the resting layer (sand or gravel) 2- Lay the sheet on the bed of gravel or sand, maintaining a minimum gap of 1 cm or wider
- 3- Use a rubber hammer to eliminate any unevenness 4- Fill in the joints between the sheets with gravel or sand to provide greater stability to the surface



- Fine gravel or sandy laying bed
 Concrete screed (may include electro welded mesh)
- D. Reinforcement layer
- Loose stone foundation (gravel)





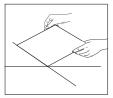


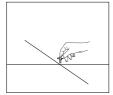
INSTALLATION ON SCREED WITH ADHESIVE

Ideal for: Terraces, indoor areas, high traffic areas

- 1- Creat a screed to the proper standard, which may or may not be waterproofed depending on requirement.
 2- Apply the adhesive evenly(apply to both the screed and the slab if heavy loads are expected).
 3- Lay the slabs using cross spacers to creat suitable joints (for unrectified products, a joint of at least 5 mm is requird).
 4- Creat expansion and separation joints suitable forthe location and the size of the area to be coverd.



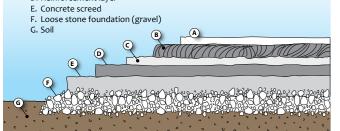


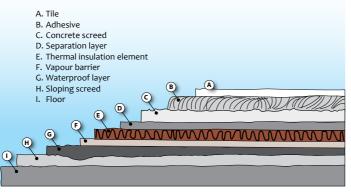




Examples of laying on a soil with adhesive

- A. Tile
- B. Adhesive
- C. Concrete screed(may include electro welded mesh)
- D. Reinforcement layer





Example of laying on a cement with adhesive

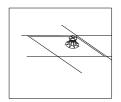


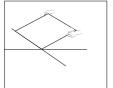


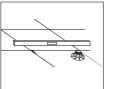
INSTALLATION ON FIXED OR ADJUSTABLE FEET

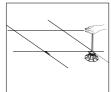
Ideal for: Offices, Terrace, places to hide pipes or cables.

- 1- Check that the substrate is flat, firm, rigid and able to support the weight of the paving without deformation.
- 2- Choose suitable pedestals, polypropylene feet and other system are available in the market 3-Give the surface of the paving a suitable gradint to ensure effective stormwater drainage
- 4- Follow the instruction of the choosen system





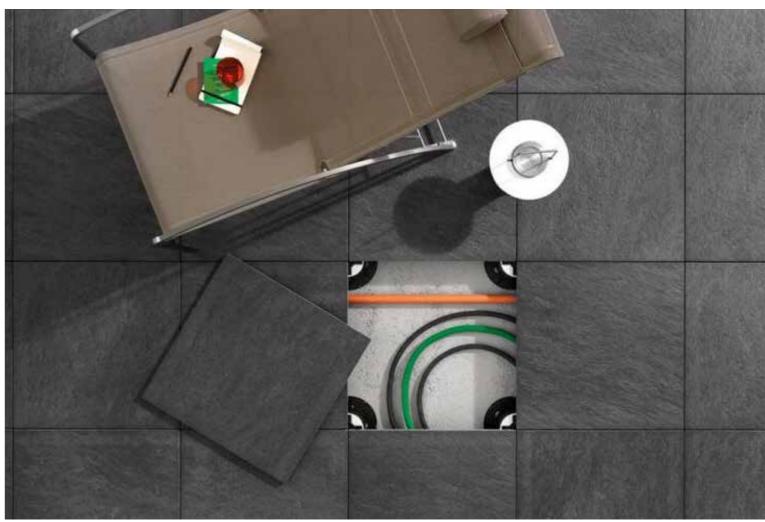














Klima is a new generation ceramic that, thanks to special materials, is able to absorb and repel heat according to individual needs. Suitable for both indoor and outdoor applications, for flooring or external walls, to achieve maximum comfort with minimum energy impact.





OUTDOOR USE

When installed on outdoor flooring, Klima repels the heat from sunlight, resisting high temperatures. Even with significant sun exposure, the surface is not burning hot and floor remains cool and pleasant to walk on with bare feet.



INDOOR USE

When applied on indoor flooring, Klima retains room heat and releases it over the entire surface, producing a warmer feel than a standard floor. Ideal for surfaces that provide a wood-like effect, imparting a warmth and a comfort to be experienced.



On external ventilated façades, Klima helps limit heat dispersion while maintaining a steady indoor temperature. An innovative solution that

helps reduce room energy demands.

Borgogna Stone







Bryce

PT LS N M







bryce anthracite bryce white

Sizes

60x60 cm 23.62"x23.62"





Name	Code	Size(CM)	Name	Code	Size(CM)
borgogna stone greige	AGBo6BRGSGRGZMLT5R	60x60	bryce anthracite	Ao6GZBYC-ANo.M2T5R	6ox6o
borgogna stone beige	AGBo6BRGSBEEZMLT5R	60x60	bryce white	Ao6GZBYC-WHo.M2T5R	6ox6o
			bryce gold	Ao6GZBYC-GLD.M2T5R	6ox6o
coral stone light grey	Ao6GCLNA-LGY.A6X7R	60x60	core stone grey	Ao6GZCES-GYo.MoT5R	6ox6o
coral stone grey	Ao6GCLNA-GRY.A6X7R	60x60	core stone anthracite	Ao6GZCES-ANo.MoT5R	60x60
coral stone ivory	Ao6GCLNA-IVO.A6X7R	60x60	core stone beige	Ao6GZCES-BEo.MoT5R	60x60
coral stone beige	Ao6GCLNA-BEE.A6X7R	60x60	core stone brown A06GZCES-BRo.MoT5R		60x60

20mm thickness

Coral Stone









CORAL STONE LIGHT GREY

CORAL STONE GREY





CORAL STONE IVORY

CORAL STONE BEIGE

Core Stone











33

core stone grey

core stone anthracite

core stone beige

core stone brown

Design Concrete











design concrete light grey

design concrete dark grey

design concrete ivory

design concrete nut

Fashion Stone





















fashion stone ivory

fashion stone light grey

fashion stone grey



fashion stone beige

fashion stone clay

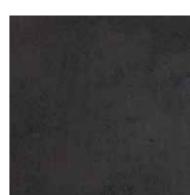
Revive Concrete











revive concrete active white

revive concrete concrete grey

revive concrete graphite grey

revive concrete pitch black







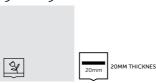
revive concrete cloud grey

revive concrete blade beige

revive concrete summer sand

Sizes

60x60 cm 23.62"x23.62"



Name	Code	Size(CM)	Name	Code	Size(CM)
design concrete light grey	Ao6GZDCC-LGY.M2T5R	60x60	design concrete ivory	Ao6GZDCC-IVo.M2T5R	60x60
design concrete dark grey	Ao6GZDCC-DGY.M2T5R	60x60	design concrete nut	Ao6GZDCC-NTo.M2T5R	60x60
fashion stone light grey	Ao6GFNSE-LIG.MYX7R	60x60	revive concrete active white	AGBo6REVCACWZMLT5R	60x60
fashion stone grey	Ao6GFNSE-GRY.MYX7R	60x60	revive concrete concrete grey	AGBo6REVCCRGZMLT5R	60x60
fashion stone black	Ao6GFNSE-BLK.MYX7R	60x60	revive concrete cloud grey	AGBo6REVCCGYZMLT5R	60x60
fashion stone ivory	Ao6GFNSE-IVO.MYX7R	60x60	revive concrete graphite grey	AGBo6REVCGPGZMLT5R	60x60
fashion stone beige	Ao6GFNSE-BEE.MYX7R	60x60	revive concrete blade beige	AGBo6REVCBDBZMLT5R	60x60
fashion stone clay	Ao6GFNSE-CLA.MYX7R	60x60	revive concrete pitch black	AGBo6REVCPBKZMLT5R	60x60
			revive concrete summer sand	AGBo6REVCSMSZMLT5R	60x60

Salento











Surface 2.0 Outdoor























surface 2.0 outdoor cool grey

surface 2.0 outdoor mid grey

surface 2.0 outdoor ash

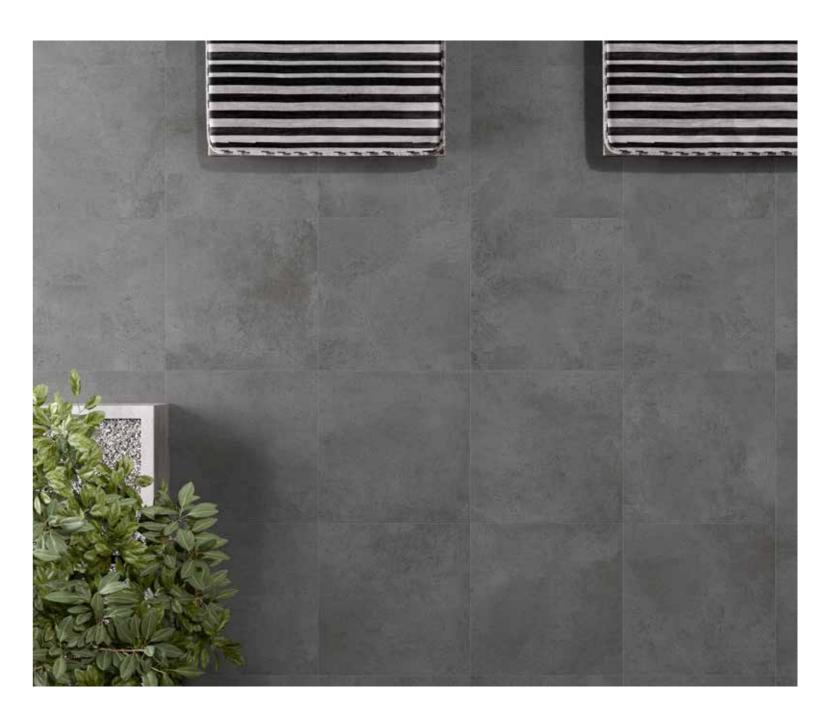
surface 2.0 outdoor night





surface 2.0 outdoor sand

surface 2.0 outdoor copper



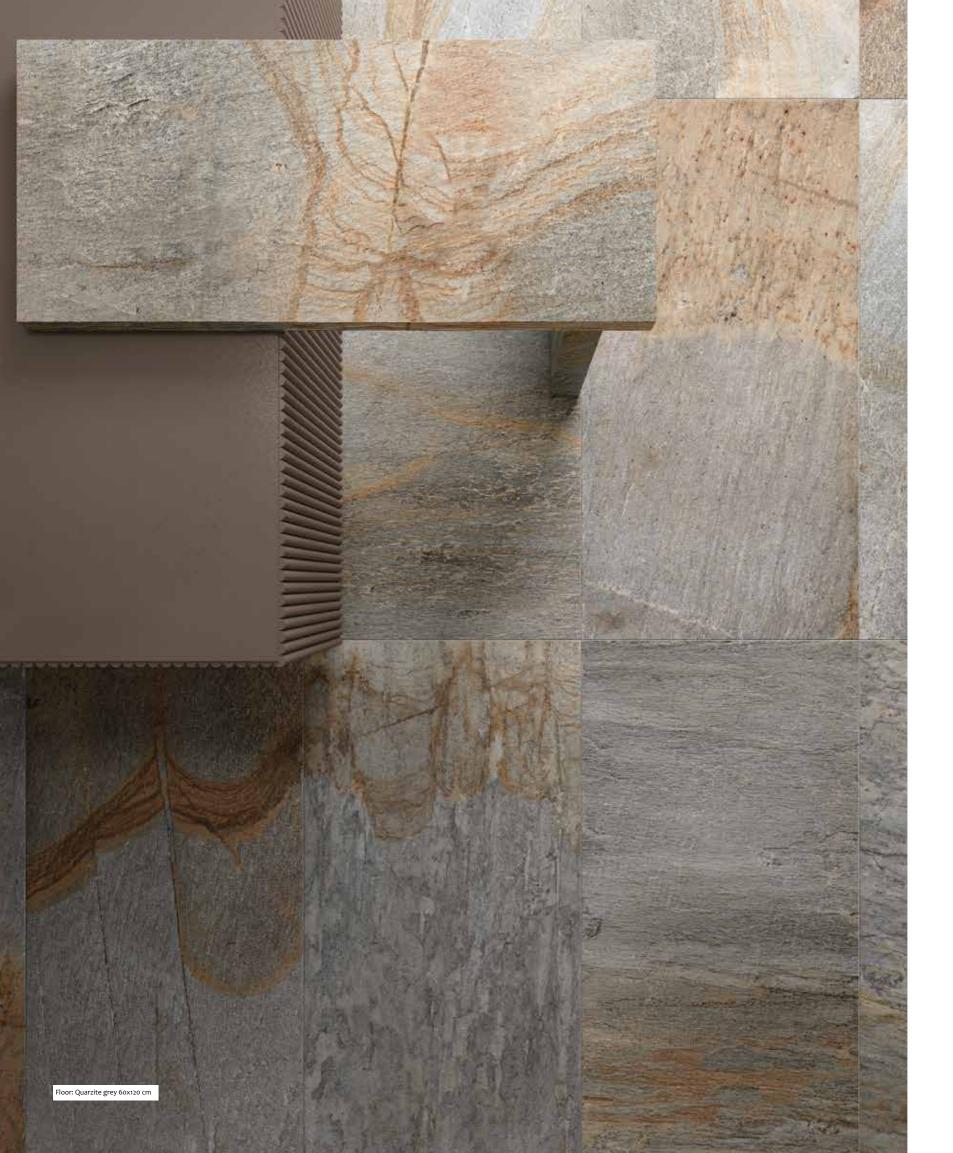
Sizes

60x60 cm 23.62"x23.62"





Name	Code	Size(CM)
salento beige	Ao6GSLTO-BEE.A6X7R	60x60
salento brown	Ao6GSLTO-BRN.A6X7R	60x60
salento grey	Ao6GSLTO-GRY.A6X7R	60x60
surface 2.0 outdoor cool grey	Ao6GZSUR-CGY.MoT5R	60x60
surface 2.0 outdoor mid grey	Ao6GZSUR-MGY.MoT5R	60x60
surface 2.0 outdoor ash	Ao6GZSUR-ASo.MoT5R	60x60
surface 2.0 outdoor night	Ao6GZSUR-NTo.MoT5R	60x60
surface 2.0 outdoor sand	Ao6GZSUR-SNo.MoT5R	60x60
surface 2.0 outdoor copper	Ao6GZSUR-CPo.MoT5R	60x60

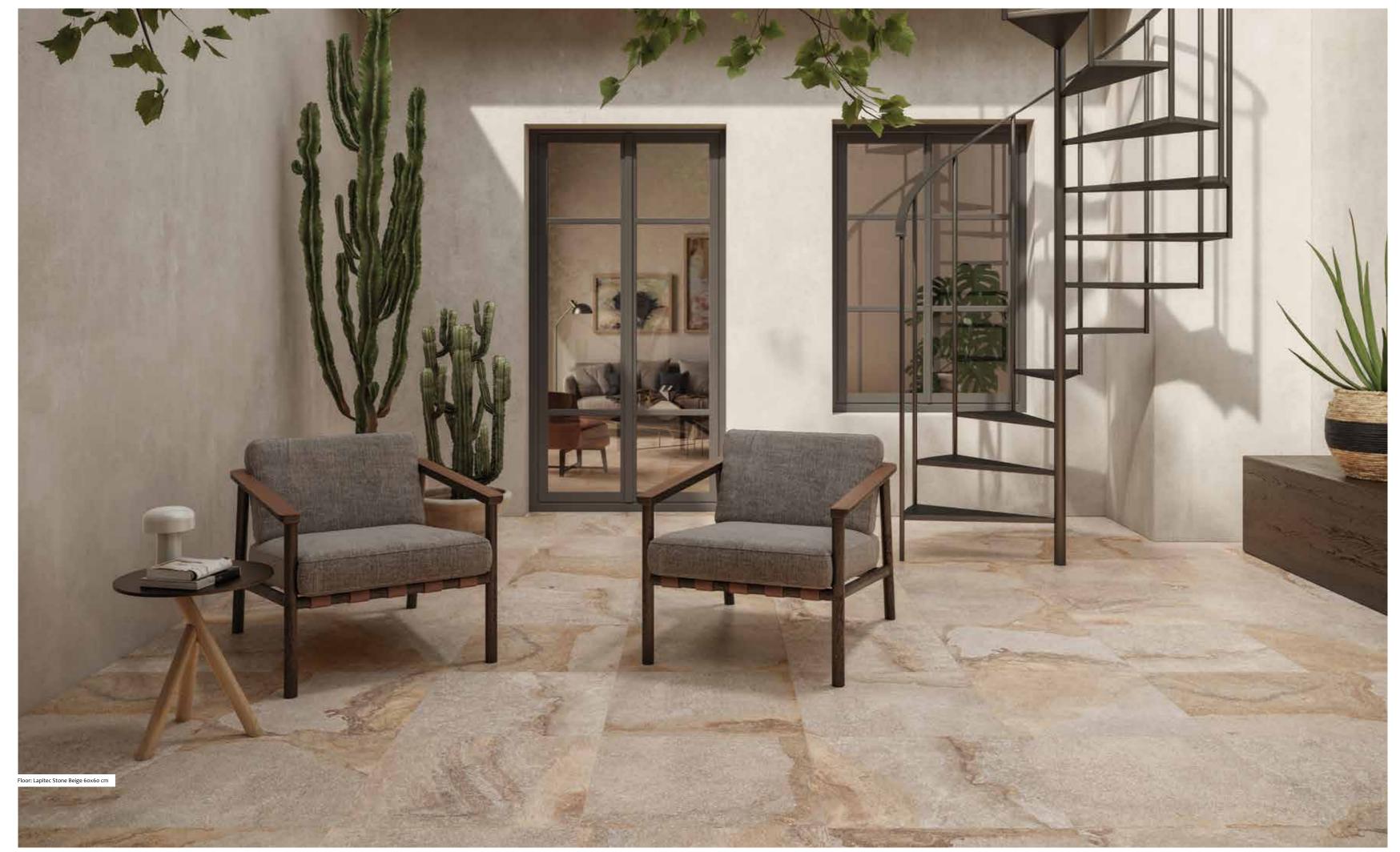


HIGH PERFORMANCE TECHNICAL PRODUCTS BAREFOOT + ANTISLIP (A+B+C)

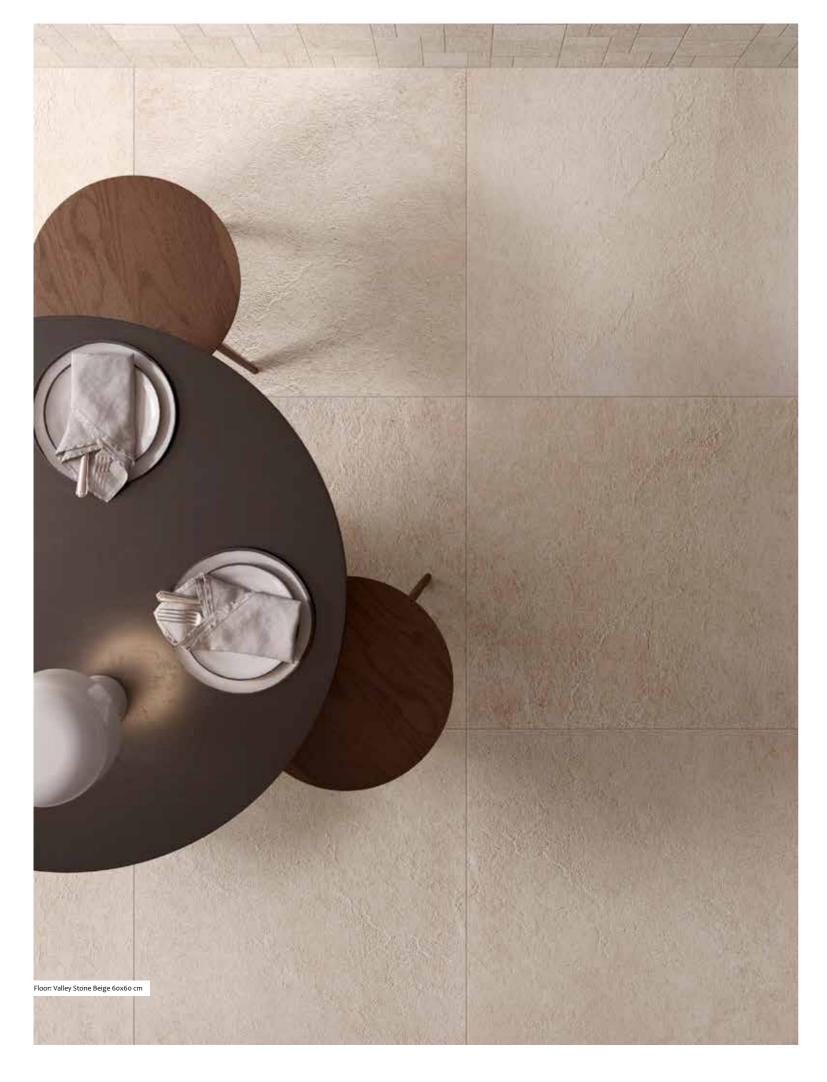
The Antislip Barefoot + technology gives porcelain tiles excellent non-slip performance and pleasant feel, with a special roughness imperceptible to the touch.

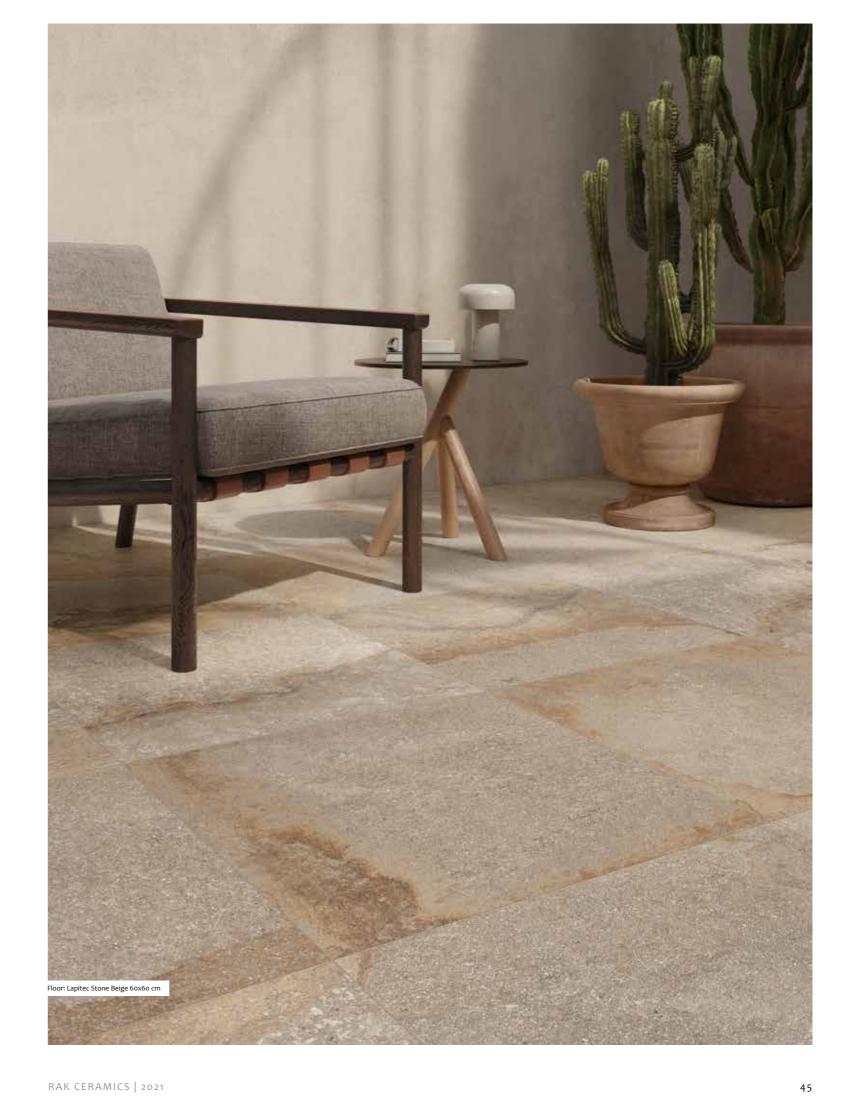
All products equipped with the Antislip Barefoot + technology become anti-slip in wet conditions, that makes these tiles a must have for indoor areas subject to moisture and outdoor applications.













Lapitec Stone



















lapitec stone white



lapitec stone slate grey



lapitec stone beige



lapitec stone pece



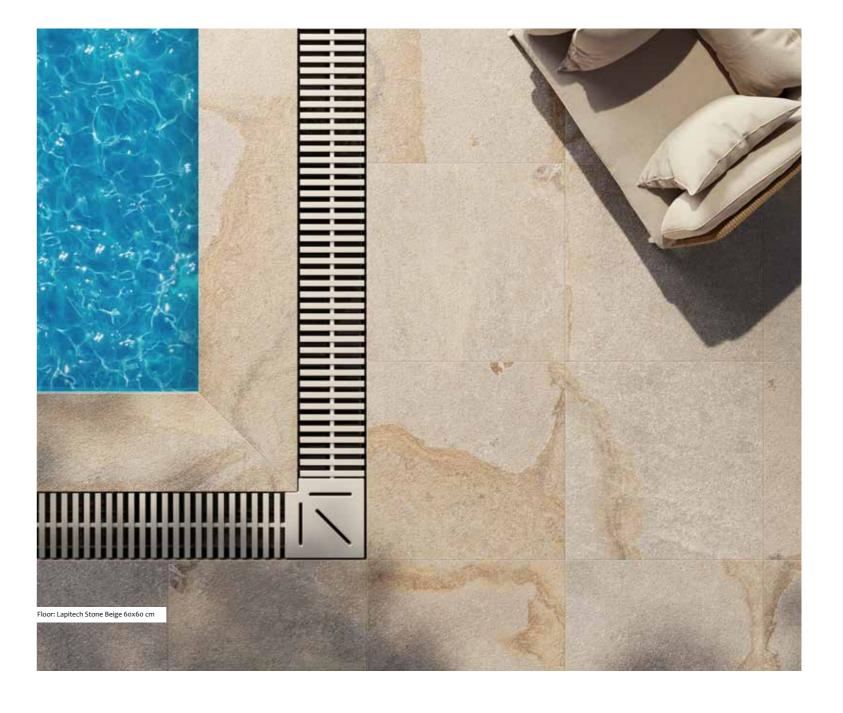
lapitec stone black



lapitec stone dark grey

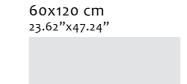


lapitec stone original



Sizes

75x75 cm 26.52"x26.52"



60x60 cm 23.62"x23.62"

Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
lapitec stone white	A75GLPSE-WHE.M6X5R	75×75	A12GLPSE-WHE.M6X5R	60x120	Ao6GLPSE-WHE.M6XoR	60x60
lapitec stone slate grey	A75GLPSE-SLA.M6X5R	75×75	A12GLPSE-SLA.M6X5R	60x120	Ao6GLPSE-SLA.M6XoR	60x60
lapitec stone dark grey	A75GLPSE-DKG.M6X5R	75×75	A12GLPSE-DKG.M6X5R	60x120	Ao6GLPSE-DKG.M6XoR	60x60
lapitec stone black	A75GLPSE-BLK.M6X5R	75×75	A12GLPSE-BLK.M6X5R	60x120	Ao6GLPSE-BLK.M6XoR	60x60
lapitec stone beige	A75GLPSE-BEE.M6X5R	75×75	A12GLPSE-BEE.M6X5R	60x120	Ao6GLPSE-BEE.M6XoR	60x60
lapitec stone original	A75GLPSE-OGL.M6X5R	75×75	A12GLPSE-OGL.M6X5R	60x120	Ao6GLPSE-OGL.M6XoR	60x60
lapitec stone pece	A75GLPSE-PEC.M6X5R	75×75	A12GLPSE-PEC.M6X5R	60x120	A06GLPSE-PEC.M6XoR	60x60

Lava Concrete





















lava concrete white



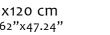
lava concrete dark grey lava concrete light grey



Sizes

75x75 cm 26.52"x26.52"





60x60 cm 23.62"x23.62"

29.8x60 cm 11.73"x23.62"

Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
lava concrete white	A2B12LVCRWHEMMLS5R	60x120	A2B06LVCRWHEMMLNLR	60x60	A2B75LVCRWHEMMLS5R	75×75
lava concrete light grey	A2B12LVCRLIGMMLS5R	60x120	A2B06LVCRLIGMMLNLR	60x60	A2B75LVCRLIGMMLS5R	75×75
lava concrete dark grey	A2B12LVCRDKGMMLS5R	60x120	A2B06LVCRDKGMMLNLR	60x60	A2B75LVCRDKGMMLS5R	75×75
lava concrete beige	A2B12LVCRBEEMMLS5R	60x120	A2B06LVCRBEEMMLNLR	60x60	A2B75LVCRBEEMMLS5R	75×75
lava concrete white	A2X29LVCRWHEMMLNLR	29.8X60				
lava concrete light grey	A2X29LVCRLIGMMLNLR	29.8X60				
lava concrete dark grey	A2X29LVCRDKGMMLNLR	29.8X60				
lava concrete beige	A2X29LVCRBEEMMLNLR	29.8X60				

Pietra Piasentina

















pietra piasentina grey



pietra piasentina beige

Sizes

60x120 cm 23.62"x47.24"



60x60 cm 23.62"x23.62"

Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
pietra piasentina grey	A12GPTPS-GRY.A6X5R	60x120	A99GPTPS#GRY.A6X5R	19.5X120	Ao6GPTPS-GRY.A6XoR	60x60
pietra piasentina beige	A12GPTPS-BEE.A6X5R	60x120	A99GPTPS#BEE.A6X5R	19.5X120	Ao6GPTPS-BEE.A6XoR	60x60

Quarzite





















Sizes

60x120 cm 23.62"x47.24"



Name	Code	Size(CM)	Code	Size(CM)
QUARZITE GREY	A12GQZTS-GRY.A6X5R	60X120	A09GQZTS-GRY.M6X0R	30X60
QUARZITE BEIGE	A12GQZTS-BEE.A6X5R	60X120	A09GQZTS-BEE.M6X0R	30X60

Valley Stone

















53

valley stone ligh grey

valley stone dark grey



valley stone beige

Sizes

75x75 cm 26.52"x26.52"

60x120 cm 23.62"x47.24" 60x60 cm 23.62"x23.62"

29.8x60 cm

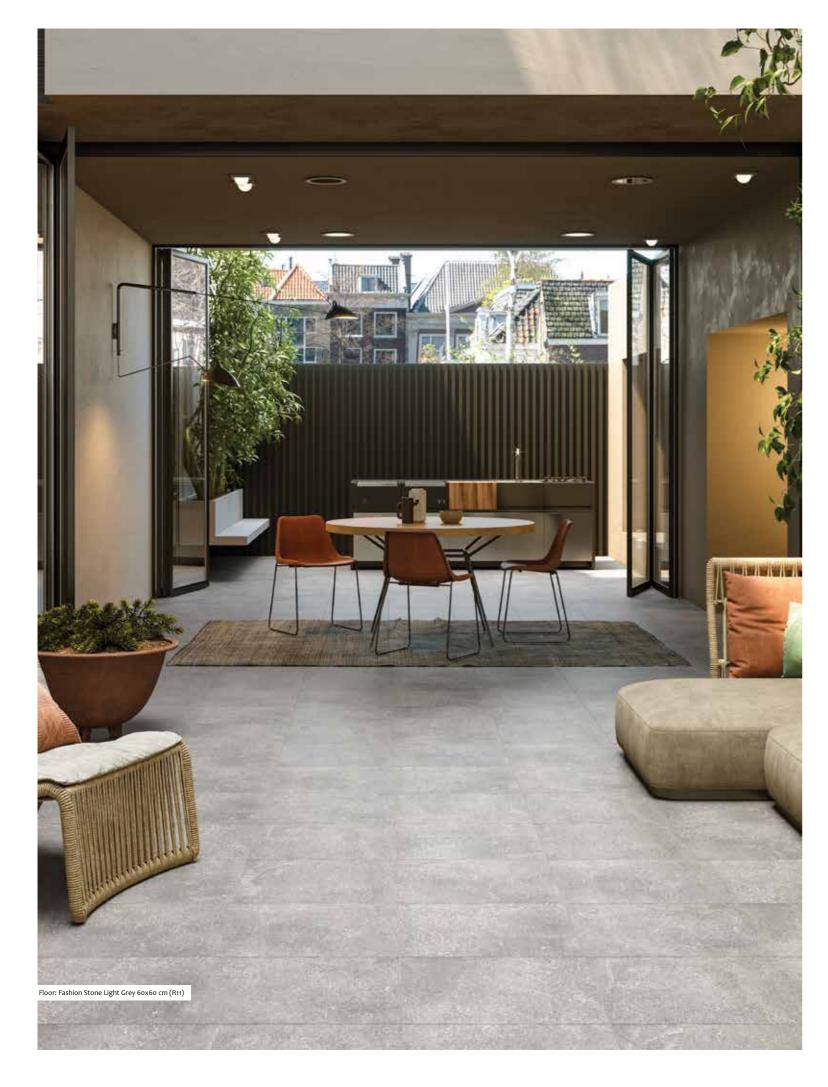
Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
valley stone dark grey	A2B12VYSTDKGMMLS5R	60x120	A2B06VYSTDKGMMLNLR	60x60	A2B75VYSTDKGMMLS5R	75×75	A2X29VYSTDKGMMLNLR	29.8x60
valley stone light grey	A2B12VYSTLIGMMLS5R	60x120	A2B06VYSTLIGMMLNLR	60x60	A2B75VYSTLIGMMLS5R	75×75	A2X29VYSTLIGMMLNLR	29.8x60
valley stone beige	A2B12VYSTBEEMMLS5R	60x120	A2B06VYSTBEEMMLNLR	60x60	A2B75VYSTBEEMMLS5R	75×75	A2X29VYSTBEEMMLNLR	29.8x60
•								

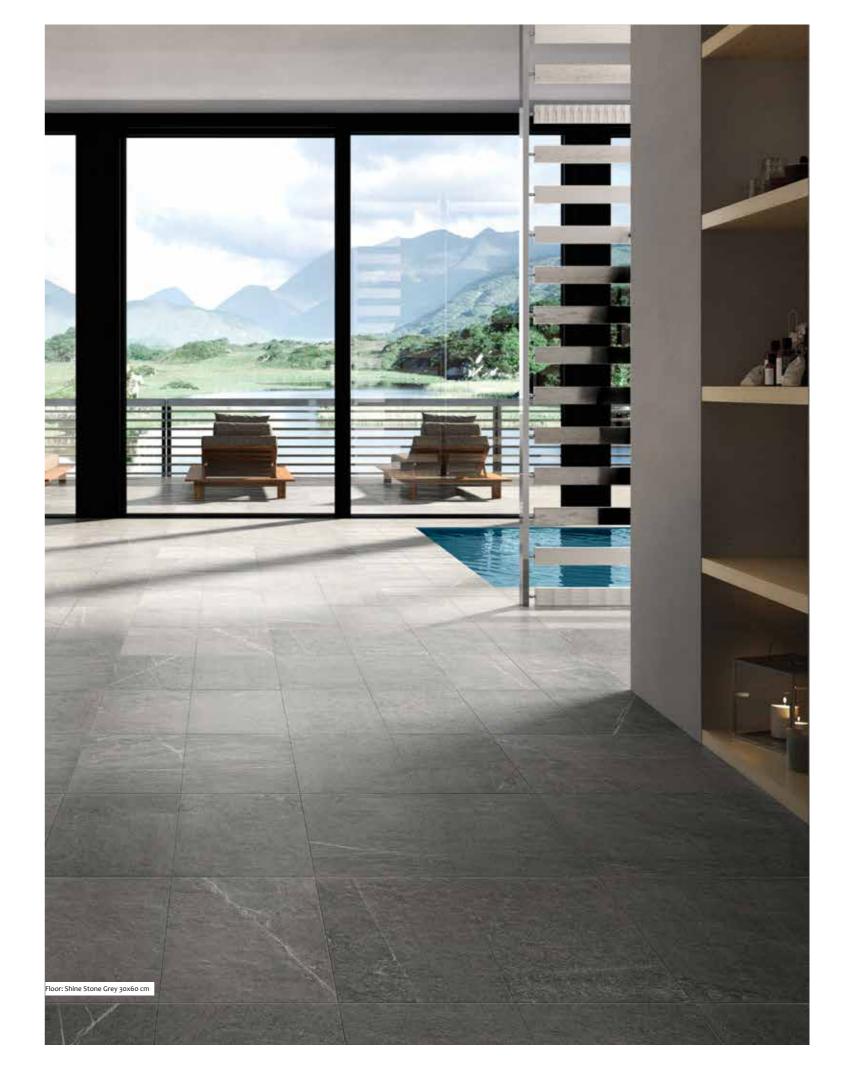


PRODUCTS WITH R11 AND STANDARD THICKNESS











Hard Wood



















hard wood ivory



hard wood beige



hard wood red



hard wood brown



hard wood mud

Sizes

19.5x120 cm 7.67"x47.24"

Name	Code	Code
hard wood ivory	19.5x120	AggGZHRD#IVo.WYS5R
hard wood beige	19.5x120	AggGZHRD#BEo.WYS5R
hard wood red	19.5x120	AggGZHRD#RDo.WYS5R
hard wood brown	19.5x120	AggCZHRD#BRo.WYS5R
hard wood mud	19.5x120	AggGZHRD#MUD.WYS5R

Line Wood

















line wood Ivory



line wood beige



line wood dark beige



line wood brown



line wood dark brown

Sizes

19.5x120 cm 7.67"x47.24"

Name	Code	Code
line wood ivory	19.5X120	A99GZLNW#IVo.WYS5R
line wood beige	19.5x120	A99GZLNW#BEo.WYS5R
line wood dark beige	19.5X120	A99GZLNW#DBE.WYS5R
line wood brown	19.5X120	A99GZLNW#BRo.WYS5R
line wood dark brown	19.5X120	AggGZLNW#DBR.WYS5R

PRODUCTS WITH R11 AND STANDARD THICKNESS

Curton













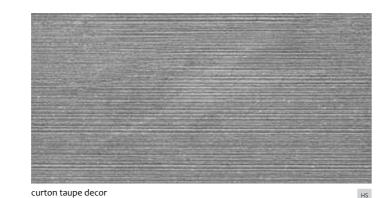














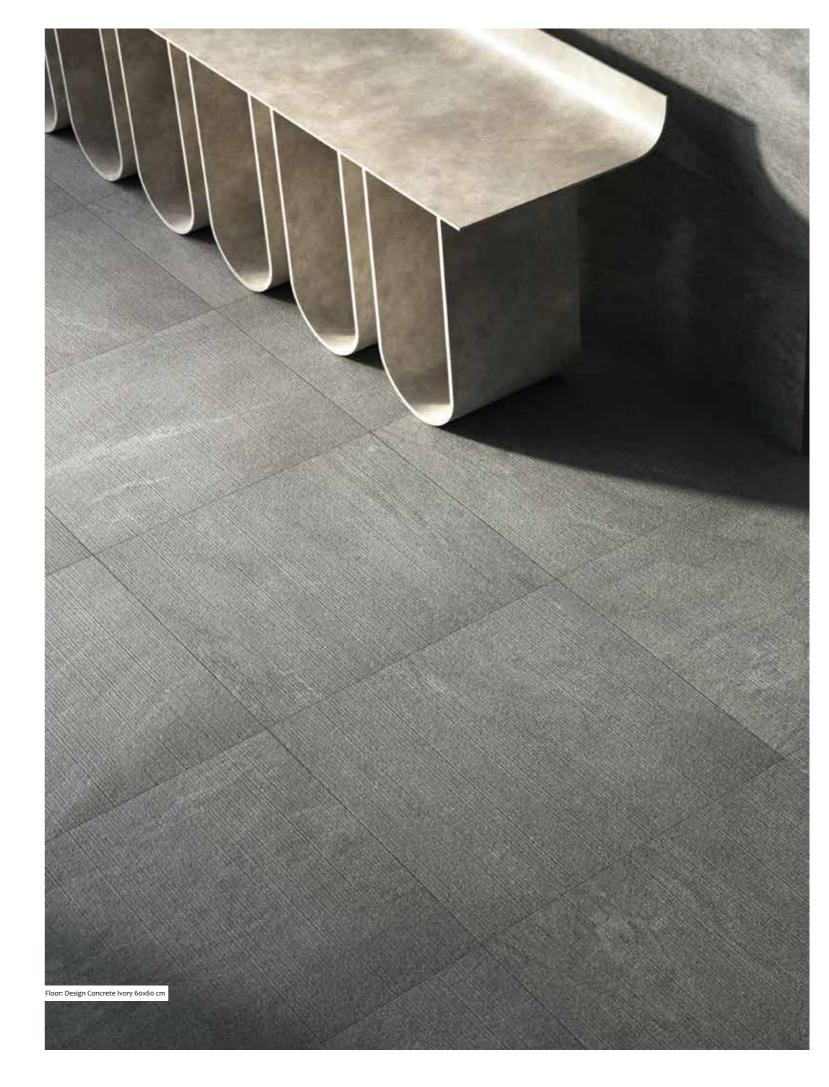


decor 75x75 cm 26.52"x26.52"

decor 60x120 cm 23.62"x47.24"

decor 60x60 cm 23.62"x23.62"

Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
curton white decor	A2D12PDCNWHEMMLS5R	60x120	A2D06PDCNWHEMMLN1R	60x60	A2D75PDCNWHEMMLS5R	75×75
curton grey decor	A2D12PDCNGRYMMLS5R	60x120	A2D06PDCNGRYMMLN1R	60x60	A2D75PDCNGRYMMLS5R	75×75
curton taupe decor	A2D12PDCNTPEMMLS5R	60x120	A2D06PDCNTPEMMLN1R	60x60	A2D75PDCNTPEMMLS5R	75×75
curton beige decor	A2D12PDCNBEEMMLS5R	60x120	A2D06PDCNBEEMMLN1R	60x60	A2D75PDCNBEEMMLS5R	75×75
					-	



Fashion Stone

























fashion stone ivory

fashion stone light grey

fashion stone grey

fashion stone black





fashion stone beige

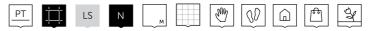
fashion stone clay

Sizes

60x60 cm 23.62"x23.62"

Name	Code	Size(CM)
fashion stone light grey	AGBo6FNSELIGZYLNLR	60x60
fashion stone grey	AGBo6FNSEGRYZYLNLR	60x60
fashion stone black	AGBo6FNSEBLKZYLNLR	60x60
fashion stone ivory	AGBo6FNSEIVOZYLNLR	60x60
fashion stone beige	AGBo6FNSEBEEZYLNLR	60x60
fashion stone clav	AGBo6FNSECLAZYLNLR	60x60

Shine Stone















shine stone white

shine stone grey







shine stone dark grey



shine stone black



shine stone ivory



shine stone beige



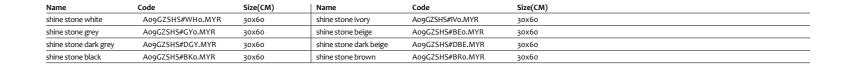
shine stone dark beige



shine stone brown

Sizes

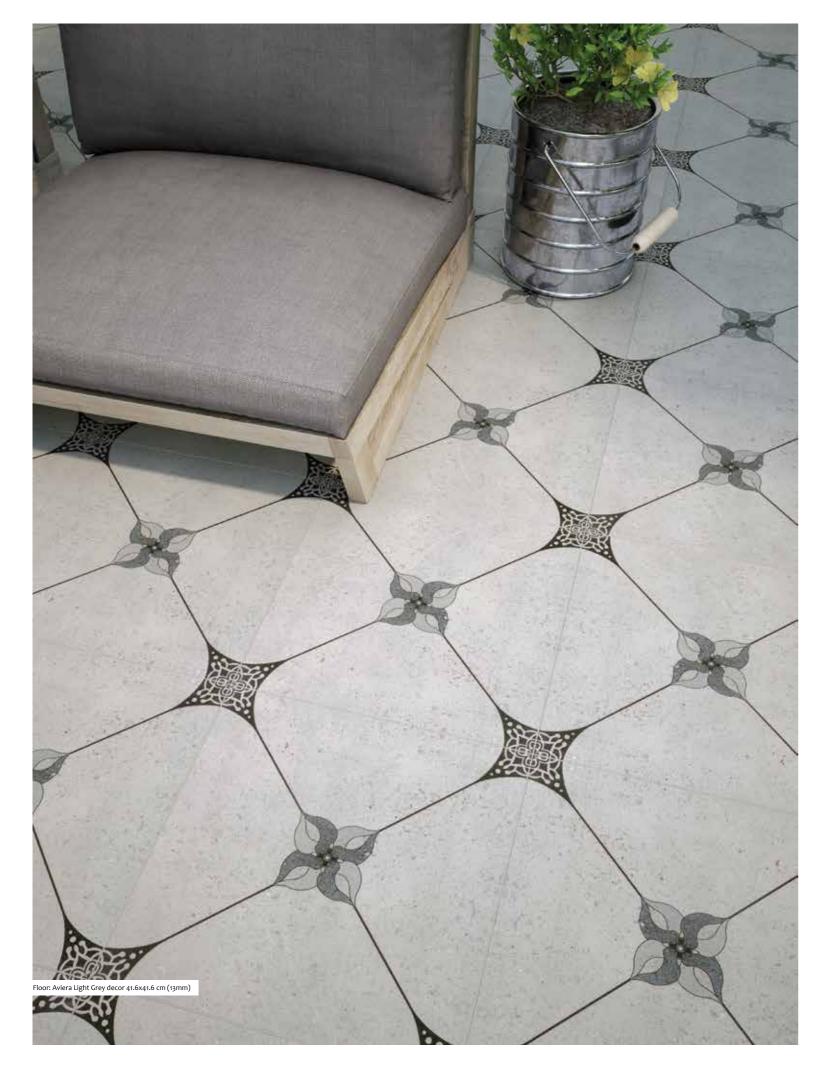
30x60 cm 11.81"x23.62"

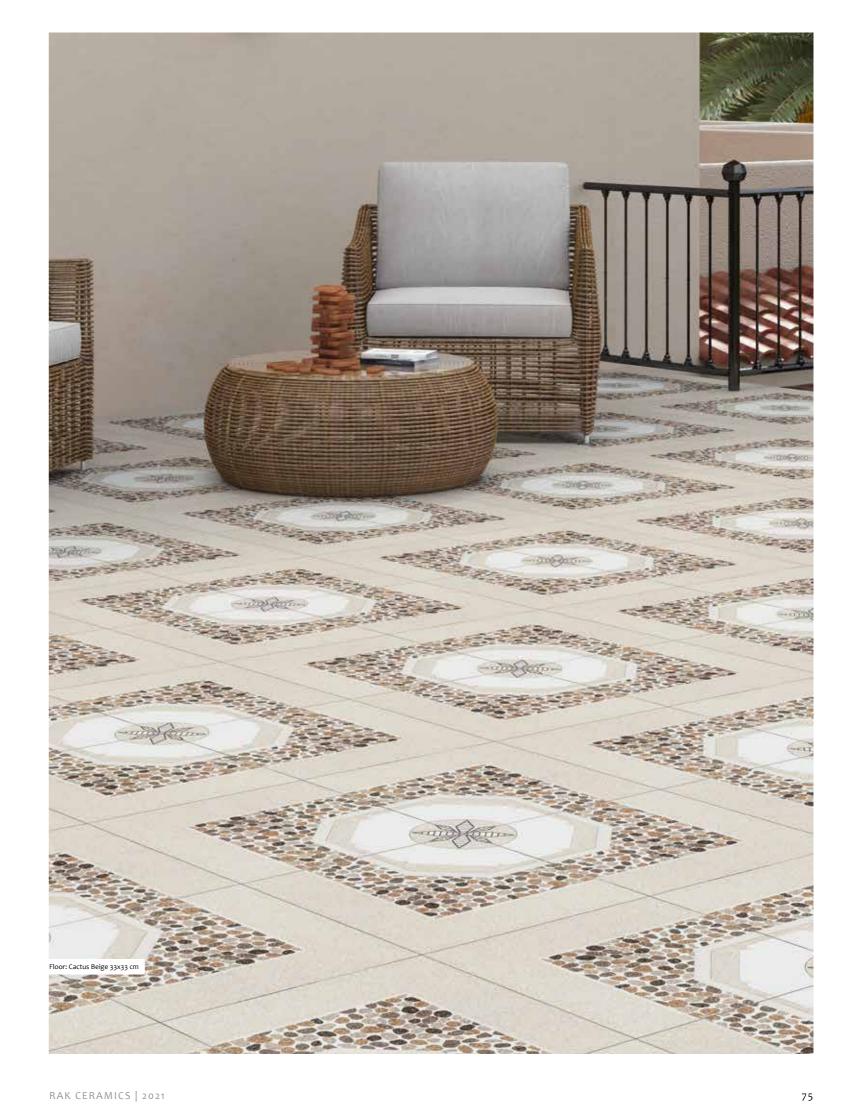




CERAMIC THCIKNESS TILES







41.6x41.6 cm (13mm)

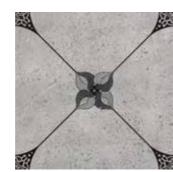












aviera light grey decor

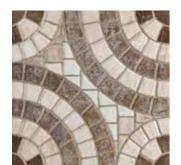






chariot beige

















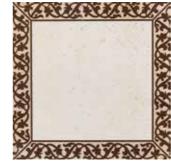








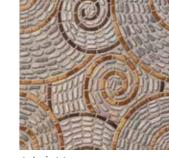




















grata ring beige



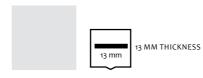


77

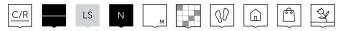
grata ring beige punch

Sizes

41.6x41.6 16.37"x16.37"



41.6x41.6 cm (13mm)













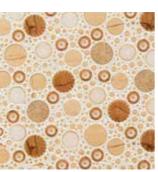














muster gray













rylea ivory



rylea dark grey





river stone beige



river stone dark beige













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weekend light beige

Sizes

41.6x41.6 16.37"x16.37"



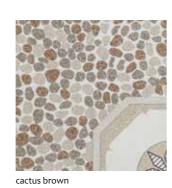
Name	Code	Name	Code	Name		Code		Name		Code	Size(CM)
cloud dark brown	A07RCLOU-DBR.M0T1U	chariot brown	Ao7RZCHO-BRo.MoT1U	devet ivory		Ao7RZDVT-IVo.N	NoT1U	grata ring beige		Ao7RZGTA-BEo.MoT1U	41.6X41.6
cloud dark yellow	A07RCLOU-DYE.M0T1U	bevel brick brown	Ao7RZBVB-BRo.MDT1U	devet white		Ao7RZDVT-WHo	.MoT1U	grata ring grey		Ao7RZGTA-GYo.MoT1U	41.6X41.6
aviera ivory decor	A07RZAIE-IVo.MDT1U	bevel brick dbr	Ao7RZBVB-DBR.MDT1U	dense mosia	mix2	ARBo7DNSEMS:	ZMST1U	grata ring beige p	unch	Ao7RZGTA-BEo.MDT1U	41.6X41.0
aviera light grey decor	A07RZAIE-LGY.MDT1U	bevel brick grey	Ao7RZBVB-GYo.MDT1U	domain mosi	ac mix2	ARBo7DMINMS:	2ZMST1U	grata ring dbe pu	nch	Ao7RZGTA-DBE.MDT1U	41.6X41.
arden brown	Ao7RZARD-BRo.MoT1U	bevel brick mix be	Ao7RZBVB-MIX.MDT1U	duplex brow	n	Ao7RZDUP-BRo	MoT1U	grata ring grey pu	ınch	A07RZGTA-DGY.MDT1U	41.6X41.
behnisch multi color	Ao7RZBSH-MXo.MoT1U	captiva dark beige	Ao7RZCPV-DBE.MoT1U	eleantic beig	e	Ao7RZELN-BEo.	MoT1U	grata ring grey pu	ınch	Ao7RZGTA-GYo.MDT1U	41.6X41.
chariot beige	Ao7RZCHO-BEo.MoT1U	captiva dark yellow	Ao7RZCPV-DYE.MoT1U	erile ivory d	ecor	Ao7RZEIL-IVo.M	DT1U	grata ring ivory p	unch	Ao7RZGTA-IVo.MDT1U	41.6X41.
Name	Code	Name	Code		Name		Code		Size(C	EM)	
flamber beige	Ao7RZFAM-BEo.MoT1U	mantle light gre	ey ARBo7ZMANL	IGZMST1U	river sto	ne grey	Ao7RZRV	R-GY1.MDT1U	41.6X	41.6	
flamber brown	Ao7RZFAM-BRo.MoT1U	regnet brown	Ao7RZRGT-BR	o.MoT1U	river sto	ne ivory	Ao7RZRV	R-IVo.MDT1U	41.6X	41.6	
gogli light brown	A07RZGLG-LBR.M0T1U	rylea ivory	Ao7RZRYL-IVo	.MoT1U	talon wl	nite	Ao7RZTLI	N-WHo.MoT1U	41.6X	41.6	
muster gray	ARBo7MUSRGRYZMST1U	rylea dark grey	Ao7RZRYL-DG	Y.MDT1U	trax dar	k beige	Ao7RZTR	X-DBE.MoT1U	41.6X	41.6	
mantle beige	ARB07ZMANBEEZMST1U	spindrift beige	A07RZSPD-BE0	o.MoT1U	tribute l	orown	Ao7RZTR	B-BRo.MoT1U	41.6X	41.6	
mantle brown	ARB07ZMANBRNZMST1U	river stone beig	ge Ao7RZRVR-BE	o.MDT1U	tristern	cream	Ao7RZTR:	S-CRo.MoT1U	41.6X	41.6	
mantle gray	ARBo7ZMANGRYZMST1U	river stone darl	k beige Ao7RZRVR-DB	E.MDT1U	weeken	d light beige	Ao7RZWk	(E-LBE.MoT1U	41.6X	41.6	

33x33 cm (12mm)



























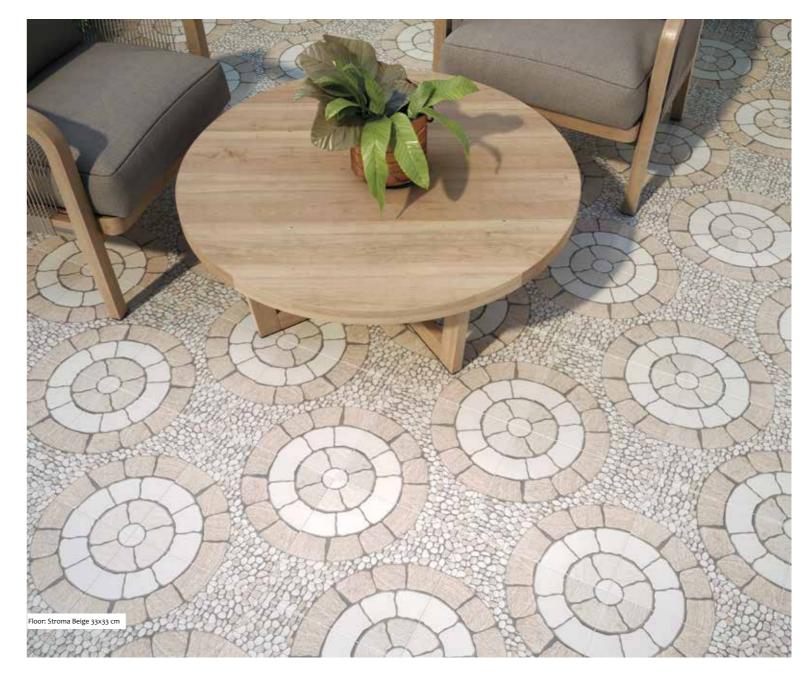












Sizes

33X33 12"X12"





TECHNICAL FEATURES

PORCELAIN TILES (Bla - GL):

Porcelain tiles are manufactured using pure, selectively imported raw materials mixed using the most advanced extraction and sorting techniques; they are obtained with a production process similar to that of single-fired tiles.

The resulting product is top-quality porcelain tile, obtained by raw materials wet grinding, followed by partial drying by spraying, silo storage to allow homogenization of properties, and pressing with highly efficient hydraulic presses up to specific pressures more than 500 kg/cm2. The high pressure combined with high firing temperature exceeding 1200 °C results in highly compact & strong ceramic surface with very low water absorption (lower than 0.4% according to UNI EN ISO 10545-3) and extremely high mechanical resistance (average value exceeding 40 N/mm2 according to UNI EN ISO 10545-4).

Thanks to their low porosity, these porcelain tiles are frost-proof and rated as belonging to the BIa GL class according to the International Standard ISO 13006 and European Standard UNI EN 14411 which requires water absorption ≤ 0.5%.

The MoR (modulus of rupture) in accordance with UNI EN ISO 10545-4 results to 40 N/mm2 while the required value is 35 N/mm2. RAK Ceramics porcelain tiles are available in a wide range of designs, sizes and finishes.

ADVICE ON LAYING

Although our porcelain tiles can be installed using traditional cement mortars, we advise using modern adhesives. While installing on wall, the two-layer spreading system is recommended to perfectly wet the back of the tile.

Quickly dipping each tile in water before installation will remove any dust on the back of the tile for perfect adhesion. Do not wet the tiles if you are using vinyl, acrylic resin adhesives or two-component organic-solvent based adhesive.

It is advisable to incorporate suitable shrinkage - flexion joints (movement/ expansion joints) when installing on large floors: the joints should never be spaced more than 4 - 5 linear meters apart indoors and 3 linear meters apart outdoors. Be careful while using strong coloured grouts as they might leave stains on the surface of the tiles that may be difficult to remove later.

TECHNICAL CHARACTERISTICS - PORCELAIN TILES (Bia - GL)

				RAK Ceramics	Specifications
	Test Description	Standard Test Method	International Standard ISO 13006	(Rectified)	(Unrectified)
$\overset{\uparrow}{\longleftrightarrow}$	Length & Width	BS EN ISO 10545-2	+/- 0.6%	+/- 0.1%	+/- 0.3%
<u> </u>	Thickness	BS EN ISO 10545-2	+/-5.0%	+/- 5.0%	+/- 5.0%
	Rectangle Squareness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.2%	+/- 0.4%
90°	Straightness of sides	BS EN ISO 10545-2	+/- 0.5%	+/- 0.2%	+/- 0.3%
	Surface Flatness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.3%	+/- 0.3%
H ₂ 0	Water Absorption	BS EN ISO 10545-3	<=0.5%	<=0.4%	<=0.4%
$\frac{\downarrow}{\uparrow\uparrow}$	Modulus of Rupture	BS EN ISO 10545-4	>=35 N/mm2	>=40 N/mm2	>=40 N/mm2
√KG ↑ ↑	Breaking Strength	BS EN ISO 10545-4	>=1300N	>=1600N	>=1600N
<u>a</u>	Resistance to surface abrasion	BS EN ISO 10545-7	Manufacturer to state Abrasion Class	PEI Class 2 -5	PEI Class 2 -5
\sum	Linear Thermal Expansion	BS EN ISO 10545-8	<=9x10 ⁻⁶⁰ C ⁻¹	<=7X10 ⁻⁶⁰ C ⁻¹	<=7x10 ⁻⁶⁰ C ⁻¹
+	Resistance to Thermal Shock	BS EN ISO 10545-9	No visible defect	No visible defect	No visible defect
焱	Crazing Resistance	BS EN ISO 10545-11	No crazing	No crazing	No crazing
*	Frost Resistance	BS EN ISO 10545-12	No visible damage	No visible damage	No visible damage
	Resistance to chemicals	BS EN ISO 10545-13	No visible defect	No visible defect	No visible defect
*	Resistance to stains	BS EN ISO 10545-14	Manufacturer to state class	Stain removed Min.class 4	Stain removed Min.clas
	Colour Resistance to UV Light	DIN 51094	No change in color	No change in color	No change in color

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Note: Shade variation across the batches is inherent to the manufacturing process and the pre-laying colour comparison is recommended

TECHNICAL FEATURES

FULL BODY PORCELAIN TILES (BIA - UGL):

Full body porcelain tiles are manufactured using pure, selectively imported raw materials mixed using the most advanced extraction and sorting techniques; they are obtained with a production process similar to that of single-fired tiles.

The resulting product is top-quality porcelain tile, obtained by raw materials wet grinding, followed by partial drying by spraying, silo storage to allow homogenization of properties, and pressing with highly efficient hydraulic presses up to specific pressures more than 500 kg/cm2. The high pressure combined with high firing temperature exceeding 1200 °C results in highly compact & strong ceramic surface with very low water absorption (lower than 0.1% according to UNI EN ISO 10545-3) and extremely high mechanical resistance (average value exceeding 40 N/mm2 according to UNI EN ISO 10545-4).

Full body porcelain are suitable for heavy traffic areas as they are characterized by a deep abrasion resistance (equal to 150 mm3 of removed material, as opposed to the 175 mm3 provided for by the UNI EN ISO 10545-6 standard).

Thanks to their low porosity, these tiles are frost-proof and rated as belonging to the BIa UGL class according to the International Standard ISO 13006 and European Standard UNI EN 14411 which requires water absorption ≤ 0.5%.

Chemical acid and base resistance (UNI EN ISO 10545-13) makes full body porcelain tiles suitable for environments where aggressive chemicals are used, e.g. food processing factories, hospitals, chemical or pharmaceutical plants. The full bod porcelain tiles are available in a wide range of sizes and surfaces (slip-resistant finish also available).

ADVICE ON LAYING

Although our full bod porcelain tiles can be installed using traditional cement mortars, we advise using modern adhesives. For large sizes over 40x40cm, outdoor and wall installations, the two-layer spreading system is recommended to perfectly wet the back of the tile.

Quickly dipping each tile in water before installation will remove any dust on the back of the tile for perfect adhesion. Do not wet the tiles if you are using vinyl, acrylic resin adhesives or two-component organic-solvent based adhesive.

It is advisable to incorporate suitable shrinkage - flexion joints (movement/ expansion joints) when installing on large floors: the joints should never be spaced more than 4 - 5 linear meters apart indoors and 3 linear meters apart outdoors. Be careful while using strong coloured grouts as they might leave stains on the surface of the tiles that may be difficult to remove later.

TECHNICAL CHARACTERISTICS - FULL BODY PORCELAIN TILES (BIA - UGL)

			RAK Ceramics Specifications				
	Test Description	Standard Test Method	International Standard ISO 13006	(Rectified)	(Unrectified)		
$\stackrel{\textstyle \longleftrightarrow}{\longleftrightarrow}$	Length & Width	BS EN ISO 10545-2	+/- 0.6%	+/- 0.1%	+/- 0.3%		
=	Thickness	BS EN ISO 10545-2	+/-5.0%	+/- 5.0%	+/- 5.0%		
	Rectangle Squareness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.2%	+/- 0.4%		
90°	Straightness of sides	BS EN ISO 10545-2	+/- 0.5%	+/- 0.2%	+/- 0.3%		
	Surface Flatness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.2%	+/- 0.3%		
H ₂ 0	Water Absorption	BS EN ISO 10545-3	<=0.5%	<=0.1%	<=0.1%		
$\frac{\downarrow}{\uparrow\uparrow}$	Modulus of Rupture	BS EN ISO 10545-4	>=35 N/mm2	>=40 N/mm2	>=40 N/mm2		
KG ↑ ↑	Breaking Strength	BS EN ISO 10545-4	>=1300N	>=1500N	>=1600N		
0	Resistance to deep abrasion	BS EN ISO 10545-6	<=175/mm³	<=150/mm ³	<=150/mm ³		
\boxtimes	Linear Thermal Expansion	BS EN ISO 10545-8	<=9x10 ⁶⁰ C ¹	<=7x10 ⁻⁶⁰ C ⁻¹	<=7x10 ⁻⁶⁰ C ⁻¹		
+	Resistance to Thermal Shock	BS EN ISO 10545-9	No visible defect	No visible defect	No visible defect		
*	Frost Resistance	BS EN ISO 10545-12	No visible damage	No visible damage	No visible damage		
	Resistance to chemicals	BS EN ISO 10545-13	No visible defect	No visible defect	No visible defect		
*	Resistance to stains	BS EN ISO 10545-14	Manufacturer to state class	Stain removed Min. class 2	Stain removed Min. class 2		
	Colour Resistance to UV Light	DIN 51094	No change in color	No change in color	No change in color		

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Note: Shade variation across the batches is inherent to the manufacturing process and the pre-laying colour comparison is recommended.

TECHNICAL FEATURES

RED BODY AND WHITE BODY CERAMIC TILES (BIII):

Red body and white body Ceramic tiles are made with finest quality clays and with chamotte (a ceramic raw material with high percentage of silica). These raw materials are submitted to dry grinding and suitably mixed and wet and then pressed with hydraulic presses. Quick-cycle support firing is obtained via roller kilns reaching temperatures of approximately 1130 °C. After biscuit glazing, the vitrified product is sintered in a single-layer roller kiln at approximately 1030 °C. The resulting wall tiles have an average bending strength that is higher than 16 N/mm2 in accordance with the UNI EN ISO10545-4 standard and a water absorption level that is higher than 10 %; they belong to the BIII (GL) group according to the International Standard ISO 13006 and UNI EN 14411 standard. This class of products shows virtually no shrinkage during firing; therefore such dimensional consistency results in extremely easy laying.

ADVICE ON LAYING

Ceramic Red and White body tiles can be laid using either tile adhesives or cement mortar. Under no circumstances should the tiles be wet before laying when using acrylic or vinyl resin based adhesives or two- component organic solvent based adhesives. When laying large sized tiles it is best to adopt the two layer spreading method and, when the laying surface is very large, to provide for suitable expansion joints which must not be spaced more than 4-5 linear meters apart from one another.

IMPORTANT POINTS TO REMEMBER WHILE LAYING THESE TILES

When laying on wet concrete or plaster, leave to dry for at least one week for each centimetre of thickness.

When laying on brick, never lay on tile adhesive measuring more than 4-5 mm in thickness. For laying on flexible supports (for example plasterboard panels, polymer panels, etc.) which may result in movement of the tiles, we advise laying on tile adhesive measuring no more than 2-3 mm in thickness and to use class C2 or D1 glues. For laying on waterproof brick, which prevents the release of damp, we advise laying on tile adhesive measuring no more than 3 mm in thickness and to use class C2 or D1 glues.

Avoid laying without expansion joints or joints where stress due to expansion is released directly onto the tile.

TECHNICAL CHARACTERISTICS - RED BODY AND WHITE BODY CERAMIC TILES (BIII)

	Test Description	Standard Test Method	International Standard ISO 13006	RAK Ceramics Specifications
$\stackrel{\longrightarrow}{\longleftrightarrow}$	Length & Width	BS EN ISO 10545-2	+/- 0.5%	+/- 0.3%
	Thickness	BS EN ISO 10545-2	+/-10%	+/- 5.0%
	Rectangle Squareness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.4%
90°	Straightness of sides	BS EN ISO 10545-2	+/- 0.5%	+/- 0.3%
	Surface Flatness	BS EN ISO 10545-2	+/- 0.5%	+/- 0.3%
H ₂ 0	Water Absorption	BS EN ISO 10545-3	10% < E <= 20%	10% <e <="18%</th"></e>
$\frac{\downarrow}{\uparrow\uparrow}$	Modulus of Rupture	BS EN ISO 10545-4		
	Thickness > = 7.5mm		>=12 N/mm2	>=16 N/mm2
	Thickness < = 7.5mm		>=15 N/mm2	>=16 N/mm2
KG	Breaking Strength	BS EN ISO 10545-4		
	Thickness > = 7.5mm		>=600N	>=650N
	Thickness < = 7.5mm		>=200N	>=400N
<u> </u>	Resistance to surface abrasion	BS EN ISO 10545-7	Manufacturer to state Abrasion Class	Class 2 - 4
<u>+</u>	Resistance to Thermal Shock	BS EN ISO 10545-9	No visible defect	No visible defect
茶	Crazing Resistance	BS EN ISO 10545-11	No crazing	No crazing
	Resistance to chemicals	BS EN ISO 10545-13	No visible effect	No visible effect
<u>*</u>	Resistance to stains	BS EN ISO 10545-14	Manufacturer to state class	Stain removed Min. class 4
<u></u>	Scratch Hardness : (Moh's)	EN 101	-	4 - 6

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 $\textbf{Note:} Shade \ variation\ across\ the\ batches\ is\ inherent\ to\ the\ manufacturing\ process\ and\ the\ pre-laying\ colour\ comparison\ is\ recommended$

MAINTENANCE AND CLEANING OF TILES

Maintenance of ceramic and porcelain tiles on dry surfaces is relatively easy. RAK Ceramics tiles are highly scratch and stain resistant.

- By regularly sweeping the floor, you can help avoid scratches that small pebbles or sand can create.
- Make it a habit to always wipe the soles of your shoes on a mat before entering the house. Thoroughly wipe up any spills using plain warm water.
- While they are not likely to stain your ceramic tiles, spills may stain the grout between the tiles and if they are left to sit for too long, may also stain the actual tiles.
- Plain water is the ideal cleaner because it leaves no residue if you dry the surface of the tiles thoroughly after cleaning.
- If tiles are left wet after cleaning, there may be some unsightly mineral residue after the water dries, but this can easily be removed by spot cleaning.
- If stains resist cleaning with water alone, you can use a mild acidic solution, such as white vinegar. Use it highly diluted and rinse with plain water then dry.
- As food stains are acidic in nature, try using a mild alkaline solution.
- Use common detergents sparingly, rinse with plain water and dry thoroughly.

RAK CERAMICS CARE EXCLUSIVE POST INSTALLATION CLEANING SERVICE

We have collaborated with Fila, a leading company in cleaning, protection and maintenance of ceramic surfaces to offer an exclusive cleaning service to address our customers post installation concerns.

Cleaning after laying is of vital importance as a lot of unseen debris and reactive chemicals can affect the visual appearance of the ceramic material. With this new service, our customers can take advantage of Fila's professional on-site consultation. For more info please visit www.rakceramics.com



TILE-LAYING RECOMMENDATIONS

All RAK Ceramics products are subject to size and shade variations. Please check the size, batch number, caliber, tone, choice, color, quality of the pieces before the installation, as no claims will be accepted once the tiles are installed.

Place some tiles on the floor - 2 or 3 sqm - and check the overall technical and aesthetic characteristics with care and check if there is enough product to finish the work.

Manufacturer's responsibility is only limited to replacement of defective material if any, prior to fixing of tiles and we will not entertain claim of any nature after the tiles are installed.

Therefore, if any issue is found on the delivered product, the contractor for installation or the client should not install the tiles. The issue should be communicated to RAK Ceramics for investigation and further action for resolution as required.

The substrate must be a compact cement bed. Levelling system ensures flatness between tiles avoiding movements during the mortar setting. This reduces the time for the ceramic laying obtaining a perfect lippage-free finish. Avoid movements between the tiles due to the mortar setting.

The width of grout joints must be established by the installation supervisor, unless grout widths are regulated by national laying standards. The grout colour should be selected according to the colour of the tile. We recommend to select a matching colour. Before using fine-grain coloured grout on lapped, polished or brushed products, always test it. If the pigment is very adhesive, it may be very difficult to remove.

We recommend to lay the tiles by using suitable adhesives for each kind of product and surface. As general rule, tiles must be installed in the same position. The minimum joint is 2 mm for rectified tiles, although we suggest a higher joint for big size products. After grouting, remove any excess product as quickly as possible by repeatedly washing the area with a sponge and water.

Steps to follow 1. First, set the tool to the scale according to the ceramic thickness. 2. Introduce the crossheads and continue laying the adjacent tiles. 3. Put the wedges in the crosshead manually. 4. Tighten the wedges with the pliers to level the pieces. 5. Allow for setting for the time recommended by the manufacturer of the adhesive cement. 6. Remove the crossheads. Hit the crosshead with a rubber mallet or with your foot in the direction of the joint. Do not hit the wedges.

The company will not accept any claim if this is due to the problems caused by not following these suggestions and instructions.



LATICRETE IS A RECOMMENDED PARTNER OF RAK CERAMICS

ICONS

TYPOLOGY







EDGE







Natural looking surface.

SURFACE LOOK

MATT

FINISH



Pressed tiles without further work after firing.

NATURAL

SURFACE STRUCTURE



Tiles with an even and regular surface, free from perceptible projections, lumps, or indentations.

LIGHT STRUCTURE LS

Tiles with an uneven, irregular surface, with a structure perceptible to the eye and touch.



Tiles with a highly irregular

COLOUR VARIATIONS



The least amount of shade variation attainable.



Light to moderate shade variation within each carton.



Medium to high shade variation within each carton.

INDICATIONS FOR USE



WALL TILES



SUGGESTED APPLICATIONS



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Residential areas, hotel rooms, bathrooms



Indoor public areas subject to medium pedestrian traffic such as restaurants, bars, offices, shops, hotel public areas,



Industrial floors such as warehouses, deposits, factories.



Outdoor public environments subject to medium pedestrian traffic such as outdoor terraces,

stairs, corridors, raised paving, private garden, swimming pool and wellness areas. Always check the slipperiness characteristics according to the intended environment, in conformity with applicable regulations or laws.

PACKAGING

Sizes (cm)	Thickness (mm)	Pieces X	M² X ⊕	Kg X 🗇	Sq. Pallet	M² X Sq. Pallet	kg X Sq. Pallet	Eu. Pallet	M² X Eu. Pallet	kg X Eu. Pallet
75×75	9	2	1.12	24.00	-	-	-	44	49.28	1077.00
60x120	9	2	1.44	30.00	-	-	-	30	43.20	921.00
60x60	9	4	1.44	30.00	-	-	-	30	43.20	921.00
60x60	20	2	0.72	32.00	-	-	-	30	21.60	1000.00
30x60	9	6	1.08	23.00	-	-	-	48	51.84	1125.00
29.8x60	9	6	1.07	23.00	-	-	-	48	51.49	1117.5
19.5x120	9	5	1.17	25.00	-	-	-	36	42.12	921.00
41.6x41.6	13	7	1.21	30	44	53.24	1335.00	48	58.08	1460.00
33×33	12	10	1.09	23	81	88.29	1863	69	75.21	1587

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In printing, colour of the products may differ slightly from actual, pictures are only for reference.

Product Guide

R RATING TABLE

Collections	Typology	Colours	R 😭	R (20mm thickness)
		Greige		R11 / A+B
Borgogna Stone	Porcelain Tiles	Beige		R11 / A+B
		Anthracite	-	R11 / A+B
Bryce	Porcelain Tiles	White	-	R11 / A+B
		gold	-	R11 / A+B
		light Grey	-	R11 / A+B
		Grey	-	R11 / A+B
Coral Stone	Porcelain Tiles	ivory	-	R11 / A+B
		Beige	-	R11 / A+B
		Grey	-	R11 / A+B
Core Stone		Anthracite	-	R11 / A+B
	Porcelain Tiles	Beige	-	R11 / A+B
		Brown	-	R11 / A+B
		white decor	R11 / A+B	-
		taupe decor	R11 / A+B	-
Curton	Full Body Porcelain Tiles	grey decor	R11 / A+B	-
		beige decor	R11 / A+B	-
		Light Grey	-	R11 / A+B
Data Guarda	December 71	Grey	-	R11 / A+B
Design Concrete	Porcelain Tiles	Ivory	-	R11 / A+B)
		Nut	-	R11 / A+B
		Light Grey	R11 / A+B	R11 / A+B
		Grey	R11 / A+B	R11 / A+B
Forther Street	Down International	Black	R11 / A+B	R11 / A+B
Fashion Stone	Porcelain Tiles	Ivory	R11 / A+B	R11 / A+B
		Beige	R11 / A+B	R11 / A+B
		Clay	R11 / A+B	R11 / A+B
		ivory	R11 / A+B	-
		beige	R11 / A+B	-
Hard Wood	Porcelain Tiles	red	R11 / A+B	-
		brown	R11 / A+B	-
		mud	R11 / A+B	-
		White	R10 / A+B+C	-
		black	R10 / A+B+C	-
		slate grey	R10 / A+B+C	-
Lapitec Stone	Full Body Porcelain Tiles	dark grey	R10 / A+B+C	-
		beige	R10 / A+B+C	-
		original	R10 / A+B+C	-
		pece	R10 / A+B+C	-
		White	R10 / A+B+C	-
Lava Concrete	Full Body Porcelain Tiles	Light Grey	R10 / A+B+C	-
Lava COTICIETE	i dii body Forceialli Tiles	Dark Grey	R10 / A+B+C	-
		Beige	R10 / A+B+C	-

	-
Dark Beige R11 A+B	-
Brown R11 A+B Dark Brown R11 A+B Dark Brown R11 A+B Grey R10 A+B+C	-
Dark Brown R11/A+B Grey R10/A+B+C Pietra Piasentina Full Body Porcelain Tiles	-
Pietra Piasentina Full Body Porcelain Tiles Grey R10 / A+B+C	-
Pietra Piasentina Full Body Porcelain Tiles	-
	-
Beige R10 / A+B+C	
white R10 / A+B+C	
bone R10 / A+B+C	-
ivory R10 / A+B+C	-
Plank Wood Full Body Porcelain Tiles beige R10 / A+B+C	-
grey R10 / A+B+C	-
black R10 / A+B+C	-
grey R10 / A+B+C	-
Quarzite Full Body Porcelain Tiles beige R10 / A+B+C	-
active white -	R11 / A+B
concrete grey -	R11 / A+B
graphite grey -	R11 / A+B
Revive Concrete Porcelain Tiles pitch black -	R11 / A+B
cloud grey -	R11 / A+B
blade beige -	R11 / A+B
summer sand -	R11 / A+B
grey -	R11 / A+B
Salento Porcelain Tiles beige -	R11 / A+B
brown -	R11 / A+B
white R11/A+B	-
grey R11/A+B	-
dark grey R11 / A+B	-
black R11/A+B	-
Shine Stone Porcelain Tiles ivory R11/A+B	-
beige R11/A+B	-
dark beige R11 / A+B	-
brown R11/A+B	
Cool Grey -	R11 / A+B
mid grey -	R11 / A+B
	R11 / A+B
Surface 2.0 Porcelain Tiles night -	R11 / A+B
Sand -	R11 / A+B
copper -	R11 / A+B
light grey R10 / A+B+C	-
Valley Stone Full Body Porcelain Tiles dark grey R10 / A+B+C	-
beige R10 / A+B+C	-

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