

Outdoor Solutions

Porcelain Tiles



RAK
CERAMICS

**ROOM FOR
IMAGINATION**

RAK
CERAMICS

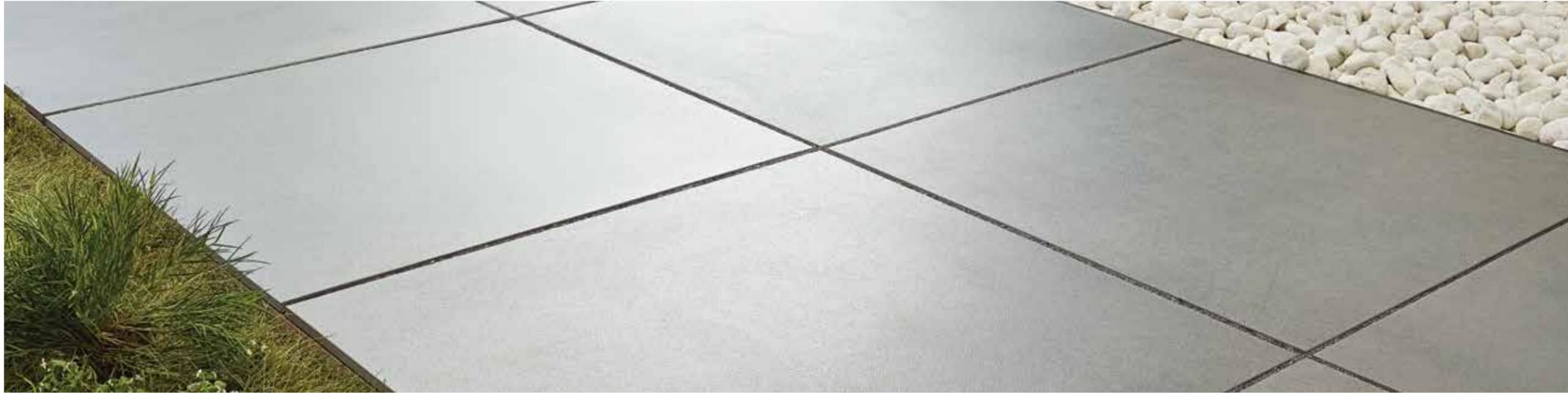


Floor: Core Stone Brown 60x60 cm

Redefining Outdoor Living with Porcelain

Give your outdoor spaces a new look. Sustainable and adaptable, porcelain 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, or a special antislip A+B+C product. Imagine your outdoor space.



20MM THICKNESS

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



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

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

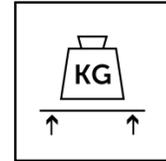


PRODUCTS WITH R11 AND STANDARD THICKNESS

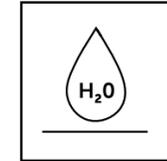
- 64 Curton
- 66 Fashion Stone
- 62 Hard Wood
- 63 Line Wood
- 67 Shine Stone



TECHNICAL PLUS FACTORS



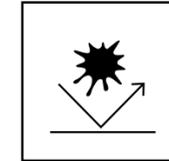
BENDING AND
BREAKING
STRENGTH
RESISTANT



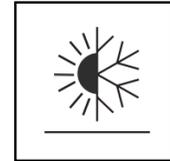
WATER
ABSORPTION
RESISTANT



FROST AND FIRE
RESISTANT



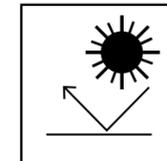
STAIN RESISTANT



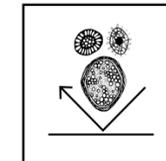
THERMAL SHOCK
RESISTANT



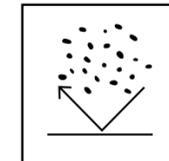
SLIP RESISTANCE
R11 - C(A+B+C)



NO
DISCOLOURING
WITH EXPOSURE
TO LIGHT



MOULDS, MOSS
AND VEROIGRIS
RESISTANT



SALT RESISTANT



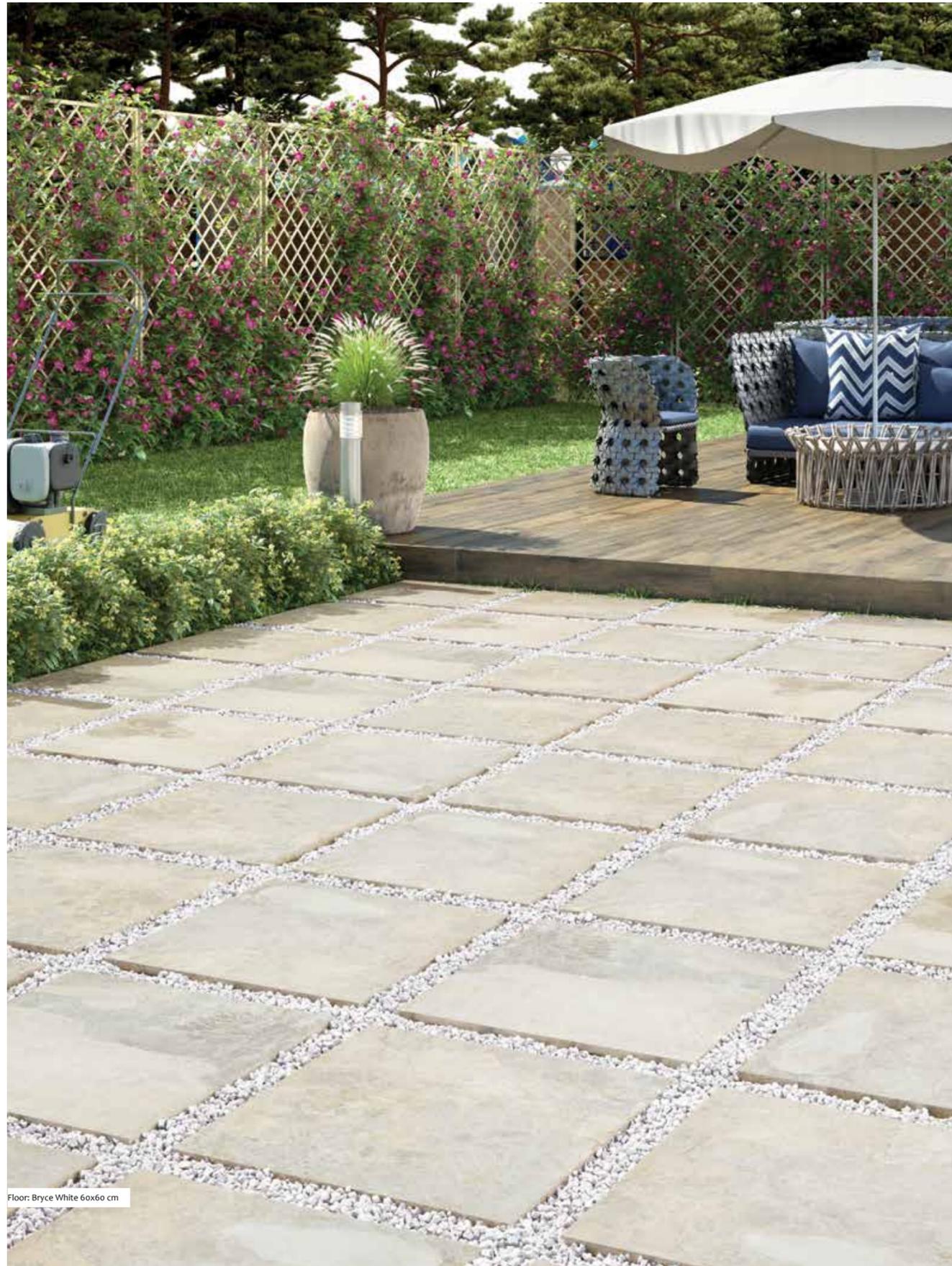
20MM THICKNESS



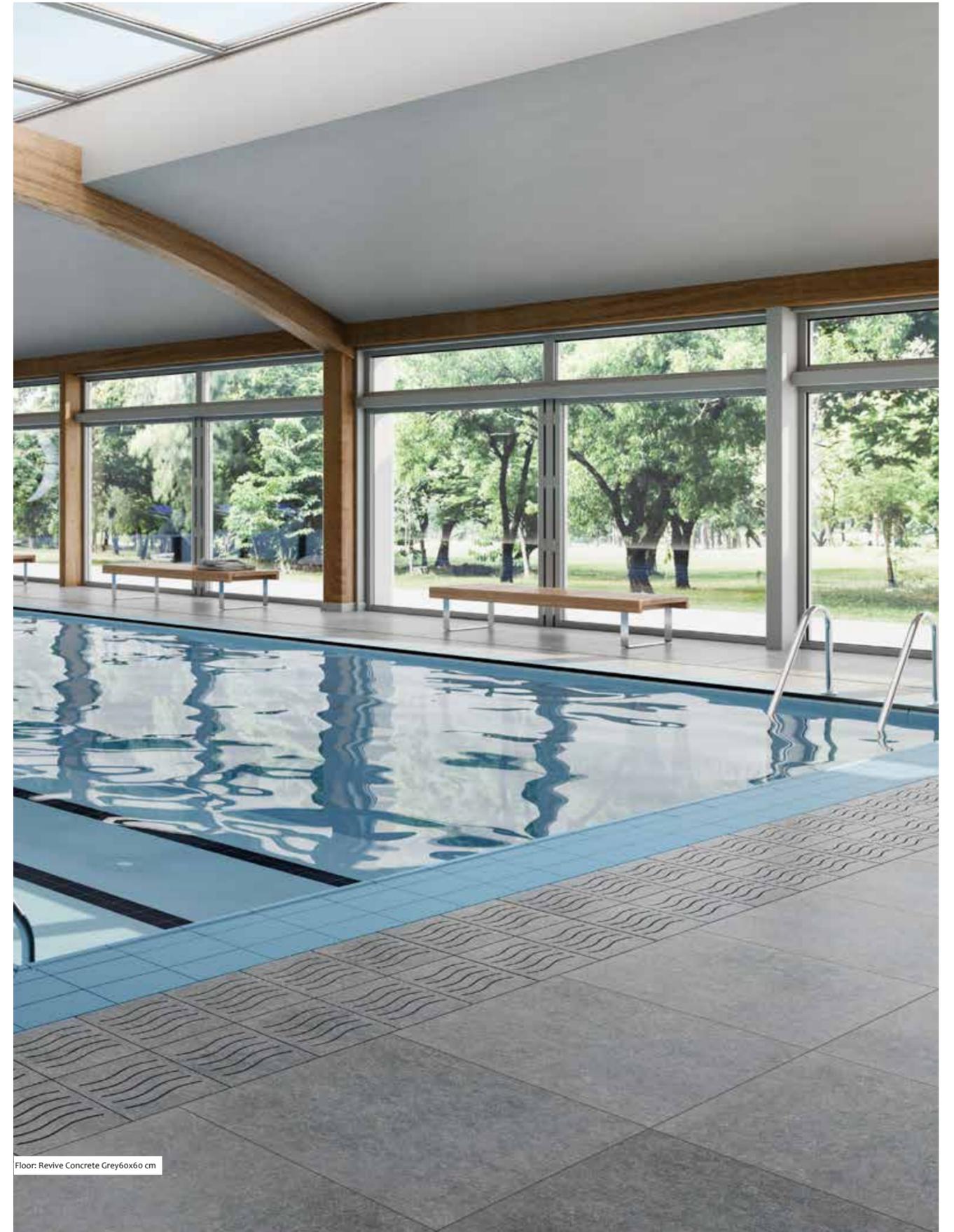
Floor: Bryce Anthracite 60x60 cm, Bryce Gold 60x60 cm



Floor: Borgogna Stone Beige 60x60 cm



Floor: Bryce White 60x60 cm



Floor: Revive Concrete Grey 60x60 cm



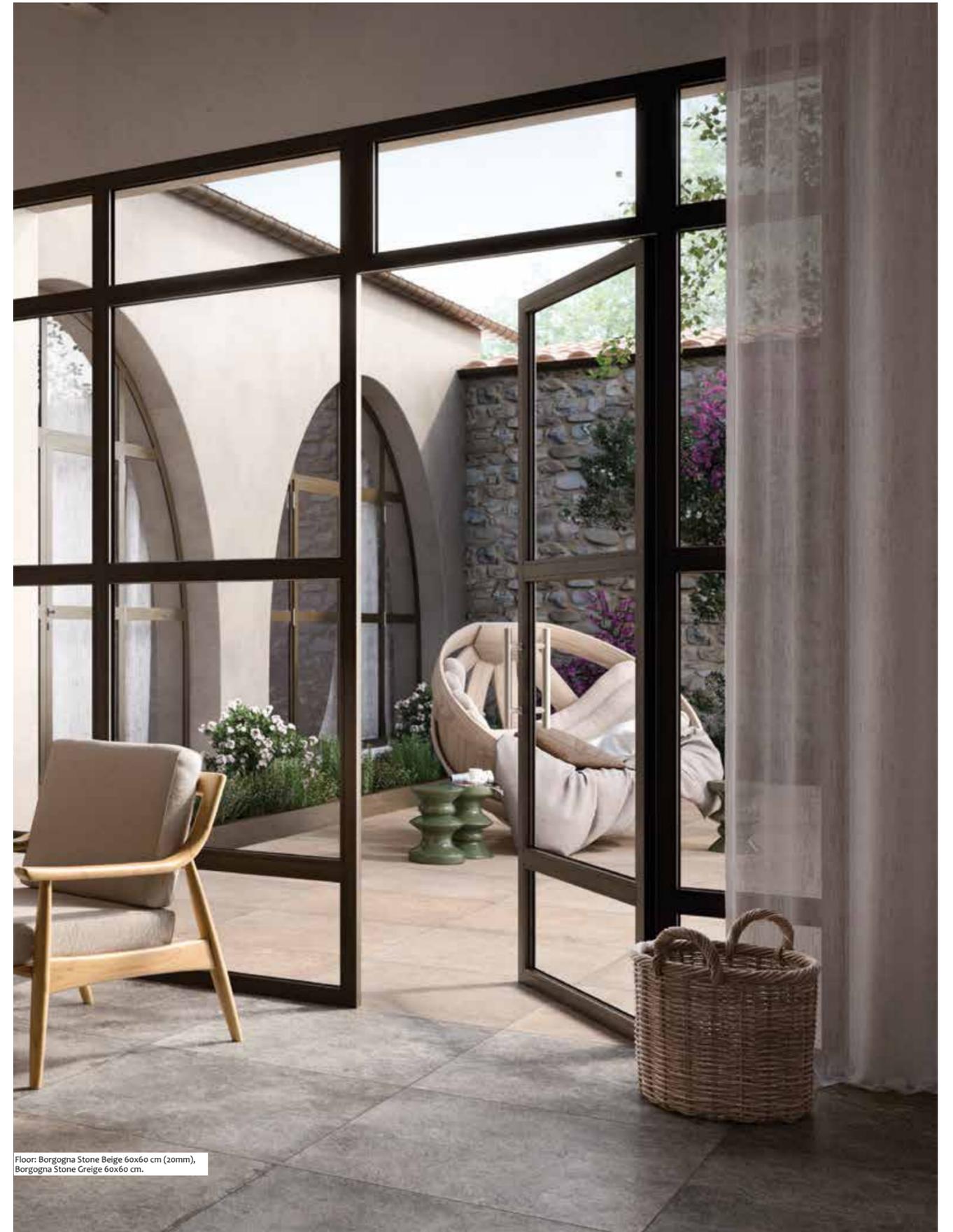
Floor: Core Stone Beige 60x60 cm



Floor: Surface 2.0 Outdoor Mid Grey 60x60 cm



Floor: Design Concrete Ivory 60x60 cm



Floor: Borgogna Stone Beige 60x60 cm (20mm), Borgogna Stone Greige 60x60 cm.

APPLICATIONS



Dry laying on grass Dry laying on gravel dry laying on sand screed with adhesive Laying as raised paving

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



Mall and Offices



House exterior garden



Terrace



Swimming pools

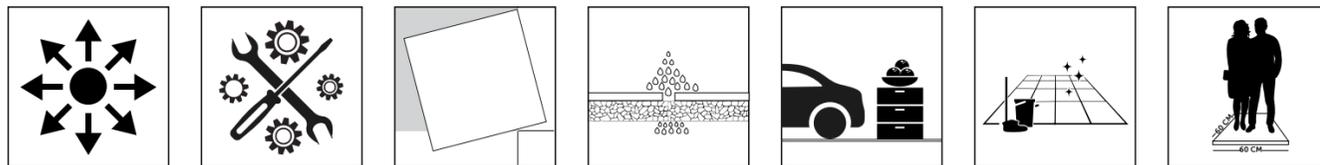


Cafes / Restaurants



Public gardens

PRACTICAL PLUS FACTORS



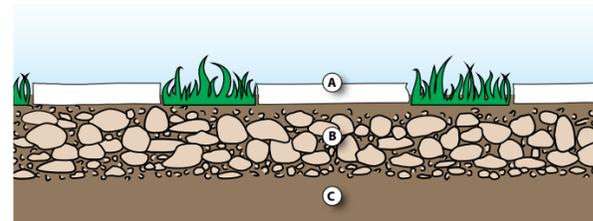
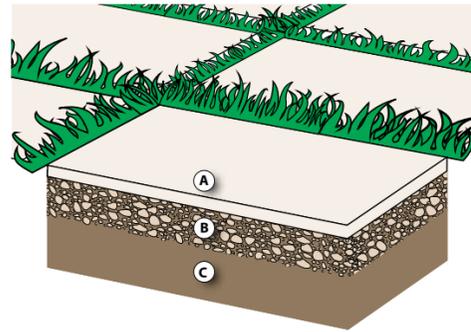
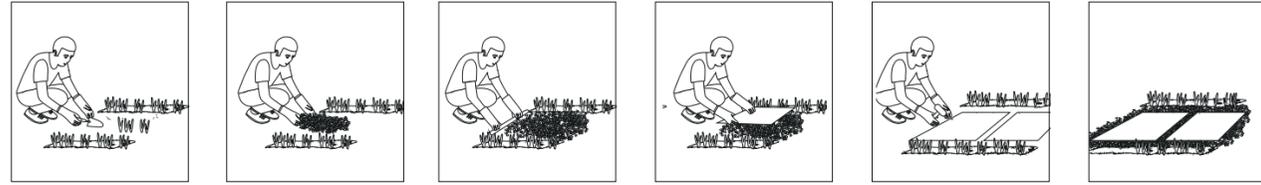
Versatile Easy to install Removable, inspectable and relisable Effective drainage Matching indoor and outdoor pavngs Need no treatment and is easy to clean Paths convenient for more than one person



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 closed joints

Laying with open joints



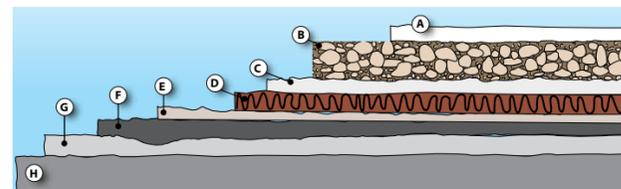
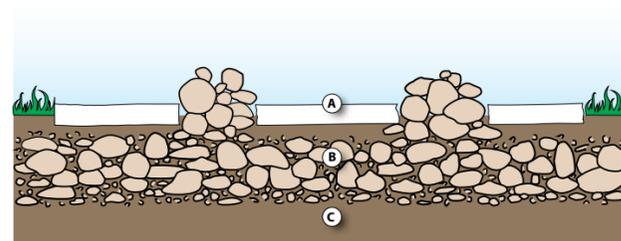
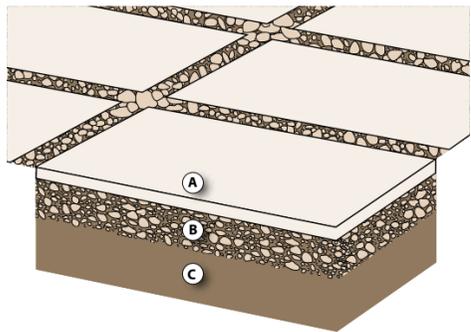
- A. Tile
- B. Fine gravel or sandy laying bed
- C. Ground



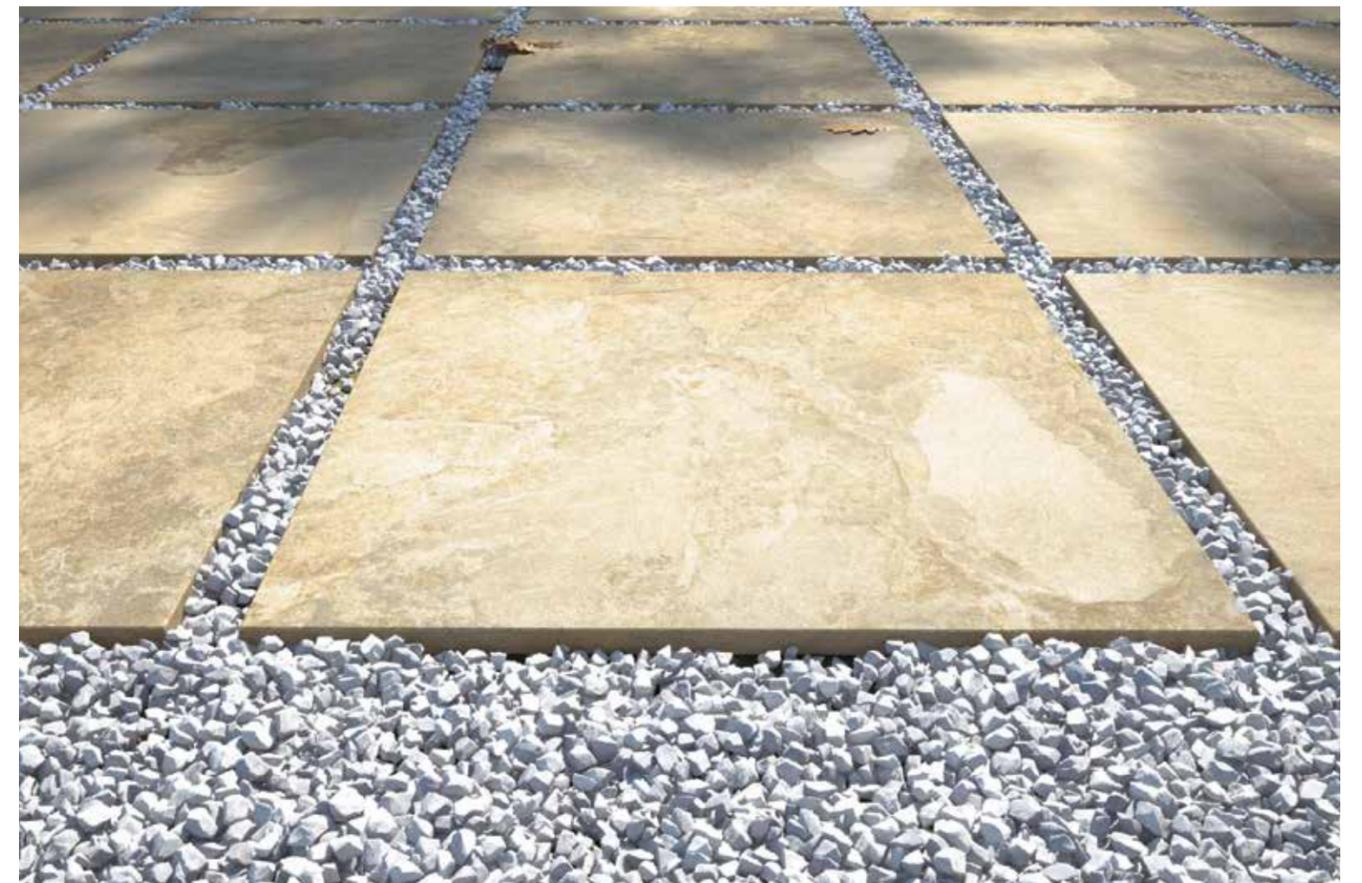
INSTALLATION ON GRAVEL AND SAND

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



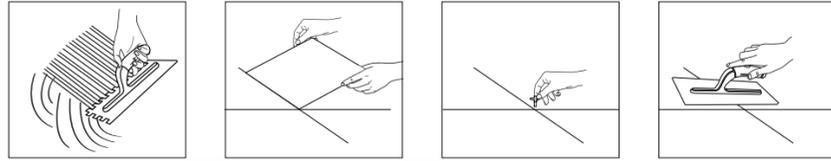
- A. Tile
- B. Fine gravel or sandy laying bed
- C. Concrete screed (may include electro welded mesh)
- D. Reinforcement layer
- E. Concrete screed
- F. Loose stone foundation (gravel)
- G. Soil



INSTALLATION ON SCREED WITH ADHESIVE

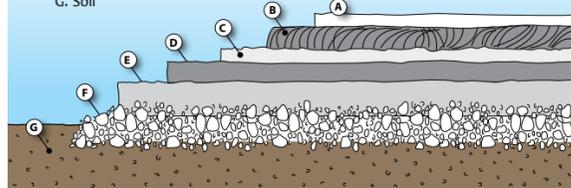
Ideal for: Terraces, indoor areas, high traffic areas

- 1- Create 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 create suitable joints (for unrectified products, a joint of at least 5 mm is required).
- 4- Create expansion and separation joints suitable for the location and the size of the area to be covered.



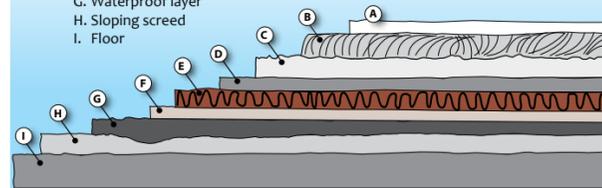
Examples of laying on a soil with adhesive

- A. Tile
- B. Adhesive
- C. Concrete screed (may include electro welded mesh)
- D. Reinforcement layer
- E. Concrete screed
- F. Loose stone foundation (gravel)
- G. Soil



Example of laying on a cement with adhesive

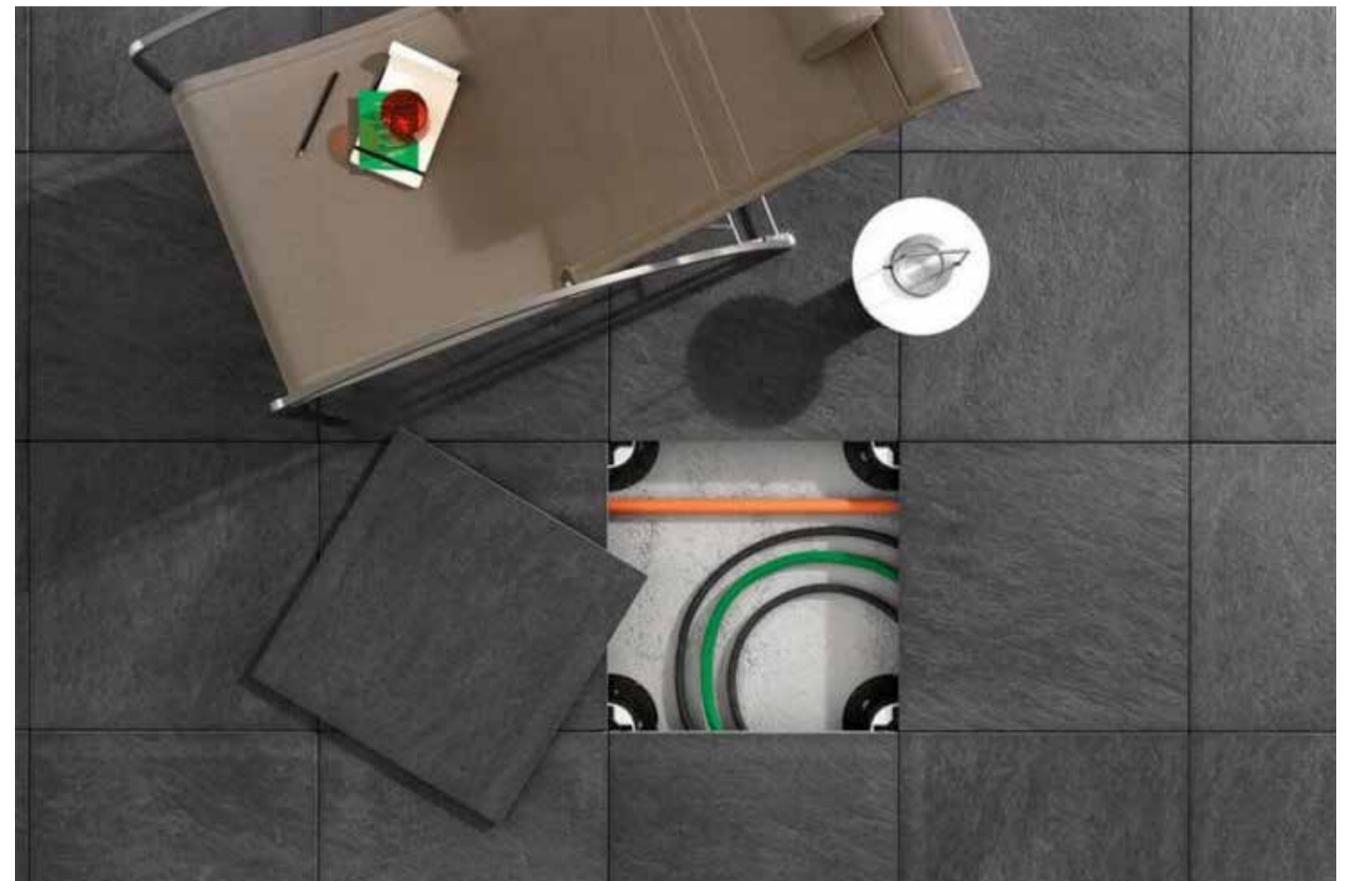
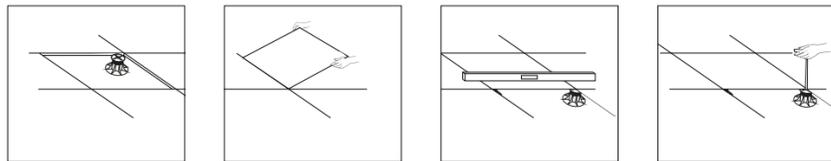
- A. Tile
- B. Adhesive
- C. Concrete screed
- D. Separation layer
- E. Thermal insulation element
- F. Vapour barrier
- G. Waterproof layer
- H. Sloping screed
- I. Floor



INSTALLATION ON FIXED OR ADJUSTABLE FEET

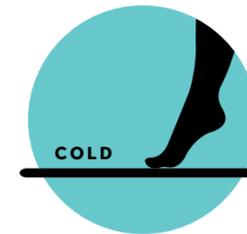
Ideal for: Offices, Terrace, places to hide pipes or cables.

- 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 gradient to ensure effective stormwater drainage
- 4- Follow the instruction of the chosen system



KLIMA

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.



ENERGY SAVING

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

20mm thickness

Borgogna Stone



borgogna stone beige



borgogna stone greige

Bryce



bryce anthracite



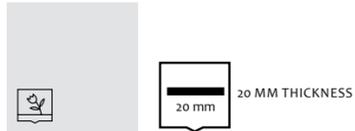
bryce white



bryce gold

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	60x60
borgogna stone beige	AGBo6BRGSBEEZMLT5R	60x60	bryce white	Ao6GZBYC-WHo.M2T5R	60x60
			bryce gold	Ao6GZBYC-GLD.M2T5R	60x60
coral stone light grey	Ao6GCLNA-LGY.A6X7R	60x60	core stone grey	Ao6GZCES-GYo.MoT5R	60x60
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	Ao6GZCES-BRo.MoT5R	60x60

20mm thickness

Coral Stone



CORAL STONE LIGHT GREY



CORAL STONE GREY



CORAL STONE IVORY



CORAL STONE BEIGE

Core Stone



core stone grey



core stone anthracite



core stone beige



core stone brown

20mm thickness

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 black



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	A06GZDCC-LGY.M2T5R	60x60	design concrete ivory	A06GZDCC-IVO.M2T5R	60x60
design concrete dark grey	A06GZDCC-DGY.M2T5R	60x60	design concrete nut	A06GZDCC-NT0.M2T5R	60x60
fashion stone light grey	A06GFNSE-LIG.MYX7R	60x60	revive concrete active white	AGBo6REVcACWZMLT5R	60x60
fashion stone grey	A06GFNSE-GRY.MYX7R	60x60	revive concrete concrete grey	AGBo6REVcCRGZMLT5R	60x60
fashion stone black	A06GFNSE-BLK.MYX7R	60x60	revive concrete cloud grey	AGBo6REVcCCGYZMLT5R	60x60
fashion stone ivory	A06GFNSE-IVO.MYX7R	60x60	revive concrete graphite grey	AGBo6REVcGPGZMLT5R	60x60
fashion stone beige	A06GFNSE-BEE.MYX7R	60x60	revive concrete blade beige	AGBo6REVcBDBZMLT5R	60x60
fashion stone clay	A06GFNSE-CLA.MYX7R	60x60	revive concrete pitch black	AGBo6REVcPBKZMLT5R	60x60
			revive concrete summer sand	AGBo6REVcSMSZMLT5R	60x60

20mm thickness

Salento



salento beige



salento brown



salento grey



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	A06GSLTO-BEE.A6X7R	60x60
salento brown	A06GSLTO-BRN.A6X7R	60x60
salento grey	A06GSLTO-GRY.A6X7R	60x60
surface 2.0 outdoor cool grey	A06GZSUR-CCY.MoT5R	60x60
surface 2.0 outdoor mid grey	A06GZSUR-MGY.MoT5R	60x60
surface 2.0 outdoor ash	A06GZSUR-ASo.MoT5R	60x60
surface 2.0 outdoor night	A06GZSUR-NTo.MoT5R	60x60
surface 2.0 outdoor sand	A06GZSUR-SNo.MoT5R	60x60
surface 2.0 outdoor copper	A06GZSUR-CPo.MoT5R	60x60



Floor: Quarzite grey 60x120 cm

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.





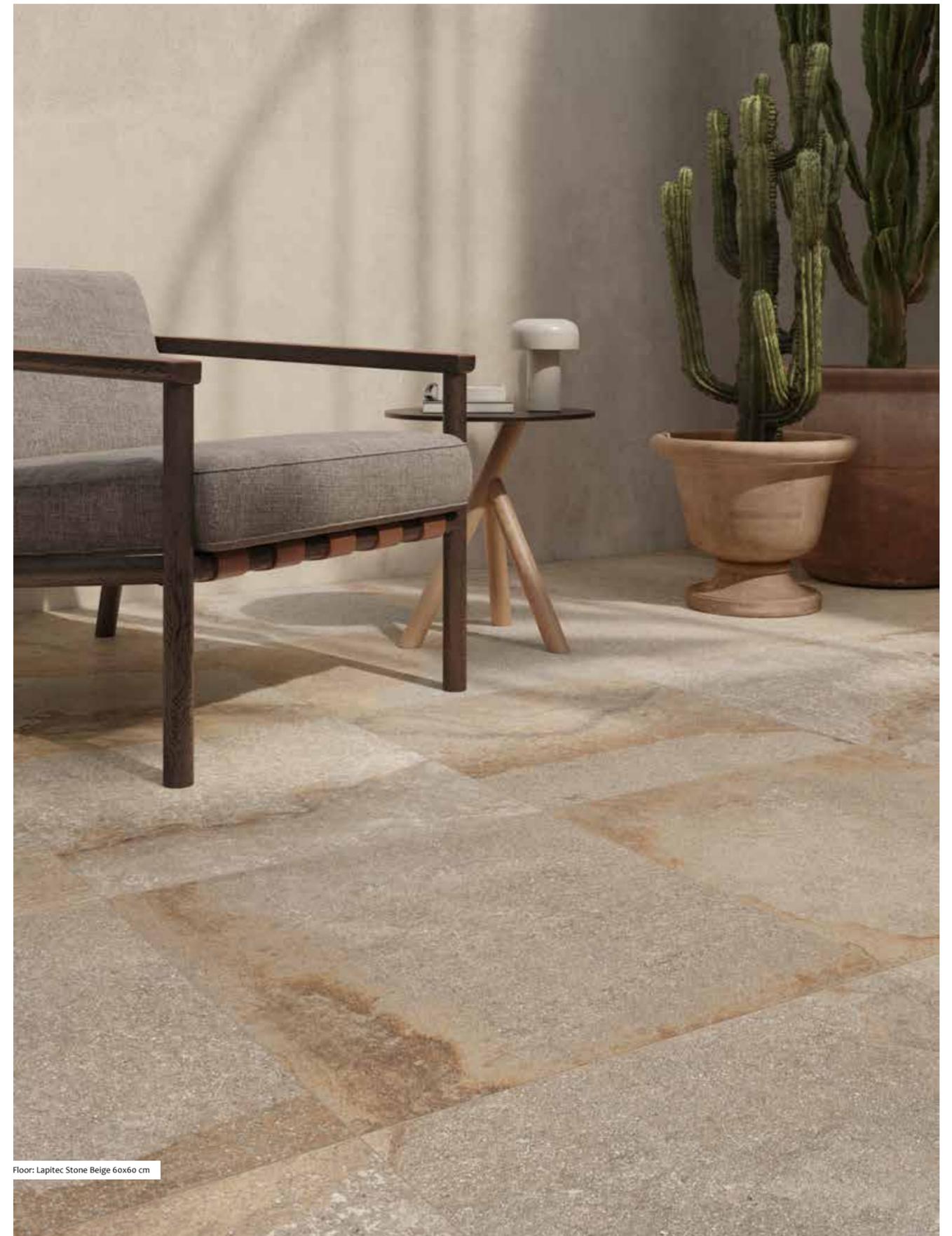
Floor: Lapitec Stone Beige 60x60 cm



Wall: Quarzite Grey 30x60 cm
Floor: Quarzite Grey 60x120 cm



Floor: Valley Stone Beige 60x60 cm



Floor: Lapitec Stone Beige 60x60 cm



Floor: Pietra Piasentina Beige 60x60 cm

Lapitec Stone



lapitec stone white



lapitec stone black



lapitec stone slate grey



lapitec stone dark grey



lapitec stone beige



lapitec stone original



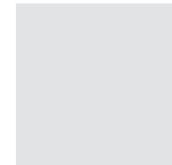
lapitec stone pece



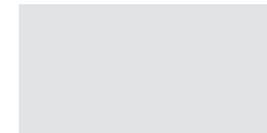
Floor: Valley Stone Beige 60x60 cm

Sizes

75x75 cm
26.52"x26.52"



60x120 cm
23.62"x47.24"

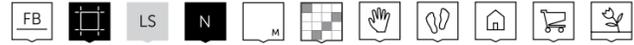


60x60 cm
23.62"x23.62"



Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
lapitec stone white	A75GLPSE-WHE.M6X5R	75x75	A12GLPSE-WHE.M6X5R	60x120	A06GLPSE-WHE.M6X0R	60x60
lapitec stone slate grey	A75GLPSE-SLA.M6X5R	75x75	A12GLPSE-SLA.M6X5R	60x120	A06GLPSE-SLA.M6X0R	60x60
lapitec stone dark grey	A75GLPSE-DKG.M6X5R	75x75	A12GLPSE-DKG.M6X5R	60x120	A06GLPSE-DKG.M6X0R	60x60
lapitec stone black	A75GLPSE-BLK.M6X5R	75x75	A12GLPSE-BLK.M6X5R	60x120	A06GLPSE-BLK.M6X0R	60x60
lapitec stone beige	A75GLPSE-BEE.M6X5R	75x75	A12GLPSE-BEE.M6X5R	60x120	A06GLPSE-BEE.M6X0R	60x60
lapitec stone original	A75GLPSE-OGL.M6X5R	75x75	A12GLPSE-OGL.M6X5R	60x120	A06GLPSE-OGL.M6X0R	60x60
lapitec stone pece	A75GLPSE-PEC.M6X5R	75x75	A12GLPSE-PEC.M6X5R	60x120	A06GLPSE-PEC.M6X0R	60x60

Lava Concrete



lava concrete white



lava concrete beige



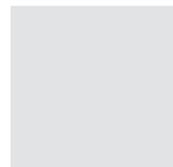
lava concrete light grey



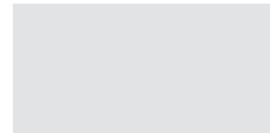
lava concrete dark grey

Sizes

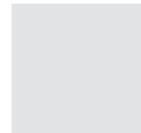
75x75 cm
26.52"x26.52"



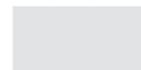
60x120 cm
23.62"x47.24"



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	75x75
lava concrete light grey	A2B12LVCRDGMMLS5R	60x120	A2B06LVCRDGMMLNLR	60x60	A2B75LVCRDGMMLS5R	75x75
lava concrete dark grey	A2B12LVCRDGMMLS5R	60x120	A2B06LVCRDGMMLNLR	60x60	A2B75LVCRDGMMLS5R	75x75
lava concrete beige	A2B12LVCRBEEMLS5R	60x120	A2B06LVCRBEEMLNLR	60x60	A2B75LVCRBEEMLS5R	75x75
lava concrete white	A2X29LVCRWHEMMLNLR	29.8X60				
lava concrete light grey	A2X29LVCRDGMMLNLR	29.8X60				
lava concrete dark grey	A2X29LVCRDGMMLNLR	29.8X60				
lava concrete beige	A2X29LVCRBEEMLNLR	29.8X60				

Pietra Piasentina



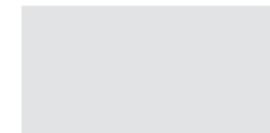
pietra piasentina grey



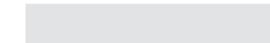
pietra piasentina beige

Sizes

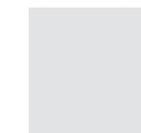
60x120 cm
23.62"x47.24"



19.5x120 cm
7.67"x47.24"



60x60 cm
23.62"x23.62"



Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
pietra piasentina grey	A12GTPS-GRY.A6X5R	60x120	A99GTPS#GRY.A6X5R	19.5x120	A06GTPS-GRY.A6X0R	60x60
pietra piasentina beige	A12GTPS-BEE.A6X5R	60x120	A99GTPS#BEE.A6X5R	19.5x120	A06GTPS-BEE.A6X0R	60x60

Quarzite



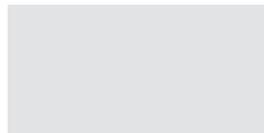
quarzite grey



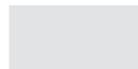
quarzite beige

Sizes

60x120 cm
23.62"x47.24"



30x60 cm
11.81"x23.62"



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



valley stone light grey



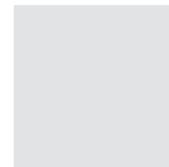
valley stone dark grey



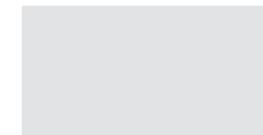
valley stone beige

Sizes

75x75 cm
26.52"x26.52"



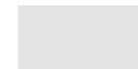
60x120 cm
23.62"x47.24"



60x60 cm
23.62"x23.62"



29.8x60 cm
11.73"x23.62"



Name	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)	Code	Size(CM)
valley stone dark grey	A2B12VYSTDKGMML55R	60x120	A2B06VYSTDKGMMLNLR	60x60	A2B75VYSTDKGMML55R	75x75	A2X29VYSTDKGMMLNLR	29.8x60
valley stone light grey	A2B12VYSTLIGMML55R	60x120	A2B06VYSTLIGMMLNLR	60x60	A2B75VYSTLIGMML55R	75x75	A2X29VYSTLIGMMLNLR	29.8x60
valley stone beige	A2B12VYSTBEEML55R	60x120	A2B06VYSTBEEMLNLR	60x60	A2B75VYSTBEEML55R	75x75	A2X29VYSTBEEMLNLR	29.8x60



Floor: Fashion Stone Clay 60x60 cm

PRODUCTS WITH R11 AND STANDARD THICKNESS



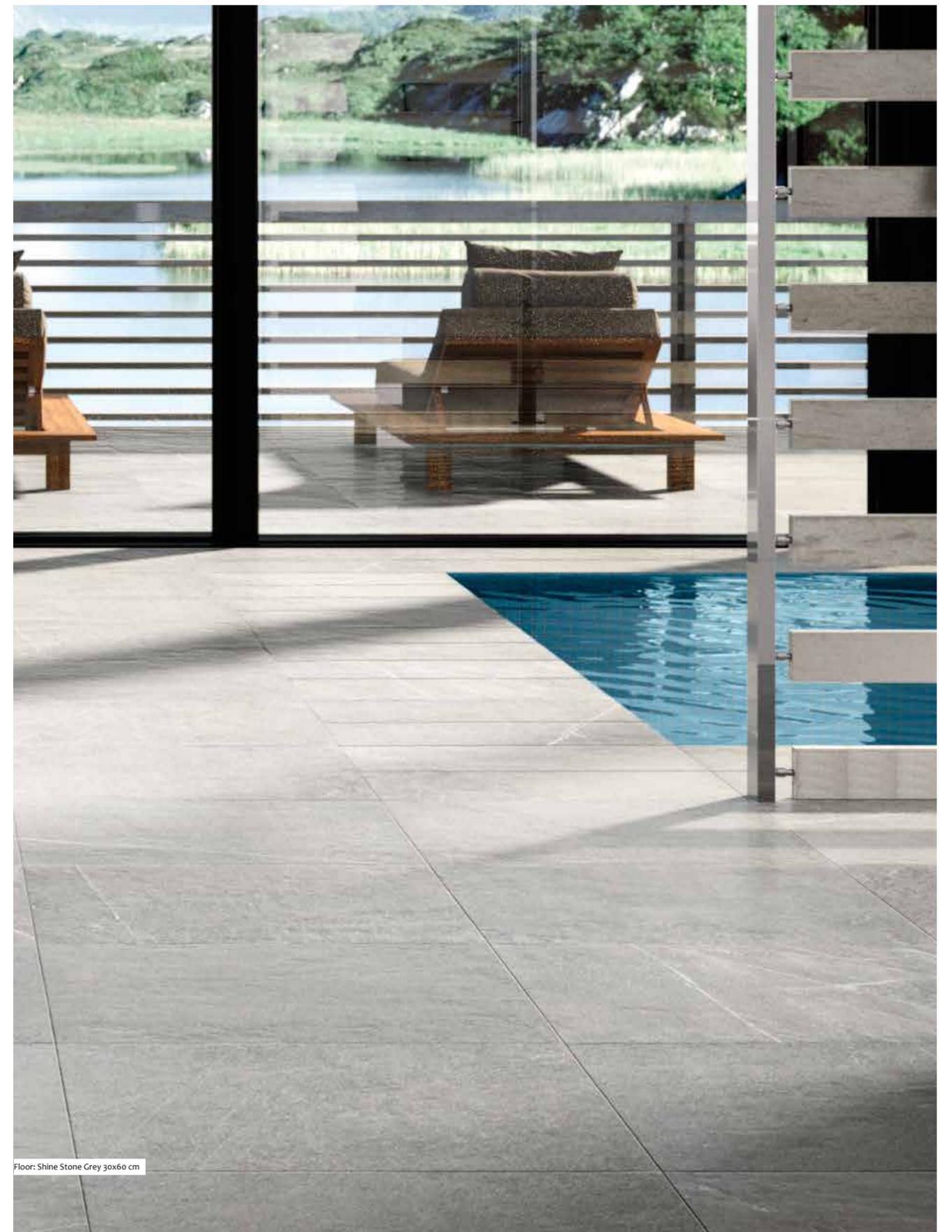
Floor: Line Wood Dark Beige 19,5x120 cm



Floor: Hard Wood Mud 19,5x120 cm



Floor: Fashion Stone Light Grey 60x60 cm (R11)



Floor: Shine Stone Grey 30x60 cm

Hard Wood



hard wood ivory



hard wood beige



hard wood red



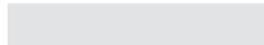
hard wood brown



hard wood mud

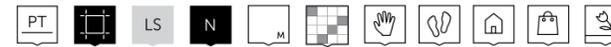
Sizes

19.5x120 cm
7.67"x47.24"



Name	Code	Code
hard wood ivory	19.5x120	A99GZHRD#IVo.WYS5R
hard wood beige	19.5x120	A99GZHRD#BEo.WYS5R
hard wood red	19.5x120	A99GZHRD#RDo.WYS5R
hard wood brown	19.5x120	A99GZHRD#BRo.WYS5R
hard wood mud	19.5x120	A99GZHRD#MUD.WYS5R

Line Wood



line wood ivory



line wood beige



line wood dark beige



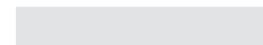
line wood brown



line wood dark brown

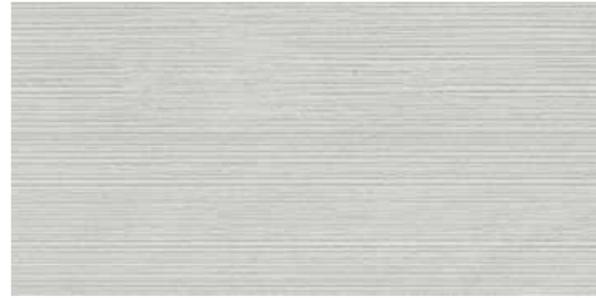
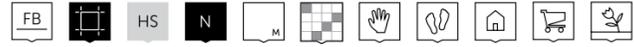
Sizes

19.5x120 cm
7.67"x47.24"

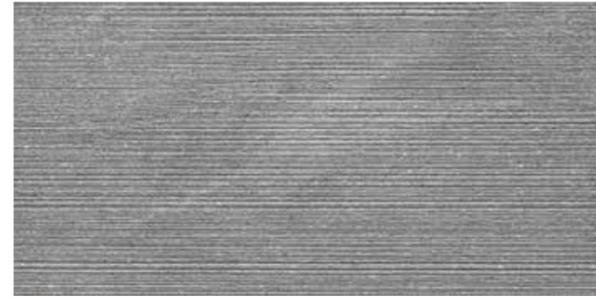


Name	Code	Code
line wood ivory	19.5x120	A99GZLNW#IVo.WYS5R
line wood beige	19.5x120	A99GZLNW#BEo.WYS5R
line wood dark beige	19.5x120	A99GZLNW#DBE.WYS5R
line wood brown	19.5x120	A99GZLNW#BRo.WYS5R
line wood dark brown	19.5x120	A99GZLNW#DBR.WYS5R

Curton



curton white decor



curton taupe decor



curton grey decor



curton beige decor

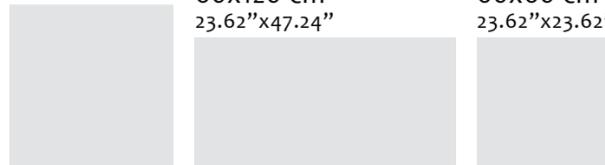


Sizes

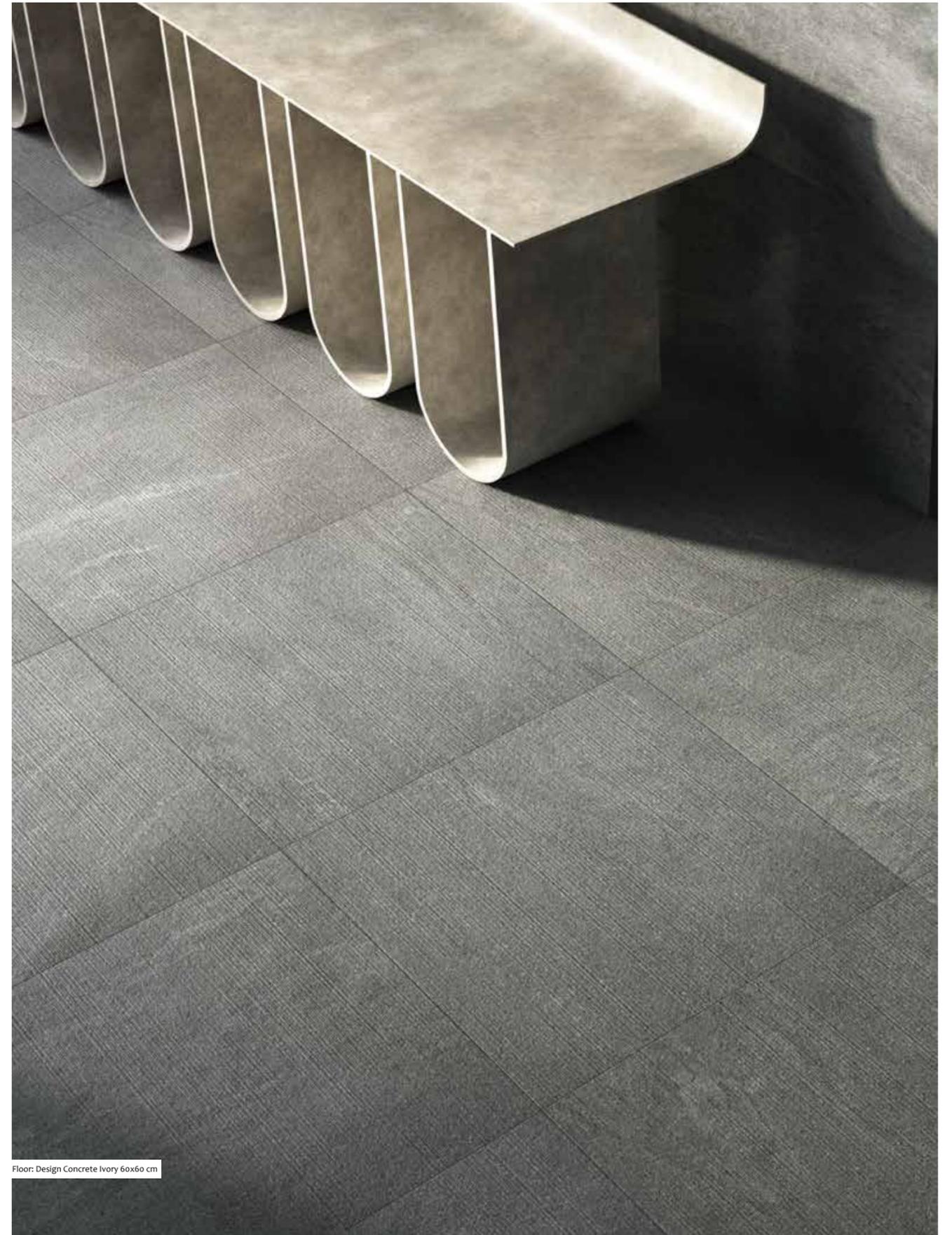
decor
75x75 cm
26.52"x26.52"

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	A2D12PDCNWHMMLS5R	60x120	A2D06PDCNWHMMLN1R	60x60	A2D75PDCNWHMMLS5R	75x75
curton grey decor	A2D12PDCNNGRYMMLS5R	60x120	A2D06PDCNNGRYMMLN1R	60x60	A2D75PDCNNGRYMMLS5R	75x75
curton taupe decor	A2D12PDCNTPMMLS5R	60x120	A2D06PDCNTPMMLN1R	60x60	A2D75PDCNTPMMLS5R	75x75
curton beige decor	A2D12PDCNBEEMMLS5R	60x120	A2D06PDCNBEEMMLN1R	60x60	A2D75PDCNBEEMMLS5R	75x75



Floor: Design Concrete Ivory 60x60 cm

Fashion Stone



fashion stone ivory

fashion stone light grey

fashion stone grey

fashion stone black

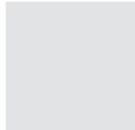


fashion stone beige

fashion stone clay

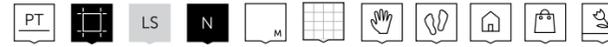
Sizes

60x60 cm
23.62"x23.62"



Name	Code	Size(CM)
fashion stone light grey	AGBo6FNSELIGZYLNLNLR	60x60
fashion stone grey	AGBo6FNSEGRYZYLNLNLR	60x60
fashion stone black	AGBo6FNSEBLKZYLNLNLR	60x60
fashion stone ivory	AGBo6FNSEIVOZYLNLNLR	60x60
fashion stone beige	AGBo6FNSEBEEZYLNLNLR	60x60
fashion stone clay	AGBo6FNSECLAZYLNLNLR	60x60

Shine Stone



shine stone white

shine stone ivory



shine stone grey

shine stone beige



shine stone dark grey

shine stone dark beige

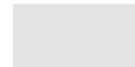


shine stone black

shine stone brown

Sizes

30x60 cm
11.81"x23.62"



Name	Code	Size(CM)	Name	Code	Size(CM)
shine stone white	A09GZSHS#WHo.MYR	30x60	shine stone ivory	A09GZSHS#Vo.MYR	30x60
shine stone grey	A09GZSHS#GYo.MYR	30x60	shine stone beige	A09GZSHS#BEo.MYR	30x60
shine stone dark grey	A09GZSHS#DGY.MYR	30x60	shine stone dark beige	A09GZSHS#DBE.MYR	30x60
shine stone black	A09GZSHS#BKo.MYR	30x60	shine stone brown	A09GZSHS#BRo.MYR	30x60

TECHNICAL FEATURES

PORCELAIN TILES (B1a - 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 B1a 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 (B1a - GL)

Test Description	Standard Test Method	International Standard ISO 13006	RAK Ceramics Specifications	
			(Rectified)	(Unrectified)
 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%
 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%
 Water Absorption	BS EN ISO 10545-3	<=0.5%	<=0.4%	<=0.4%
 Modulus of Rupture	BS EN ISO 10545-4	>=35 N/mm ²	>=40 N/mm ²	>=40 N/mm ²
 Breaking Strength	BS EN ISO 10545-4	>=1300N	>=1600N	>=1600N
 Resistance to surface abrasion	BS EN ISO 10545-7	Manufacturer to state Abrasion Class	PEI Class 2 -5	PEI Class 2 -5
 Linear Thermal Expansion	BS EN ISO 10545-8	<=9x10 ⁻⁶ /°C	<=7x10 ⁻⁶ /°C	<=7x10 ⁻⁶ /°C
 Resistance to Thermal Shock	BS EN ISO 10545-9	No visible defect	No visible defect	No visible defect
 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.class 4
 Colour Resistance to UV Light	DIN 51094	No change in color	No change in color	No change in color

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)

Test Description	Standard Test Method	International Standard ISO 13006	RAK Ceramics Specifications	
			(Rectified)	(Unrectified)
 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%
 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%
 Water Absorption	BS EN ISO 10545-3	≤0.5%	≤0.1%	≤0.1%
 Modulus of Rupture	BS EN ISO 10545-4	≥35 N/mm ²	≥40 N/mm ²	≥40 N/mm ²
 Breaking Strength	BS EN ISO 10545-4	≥1300N	≥1500N	≥1600N
 Resistance to deep abrasion	BS EN ISO 10545-6	≤175/mm ³	≤150/mm ³	≤150/mm ³
 Linear Thermal Expansion	BS EN ISO 10545-8	≤9x10 ⁻⁶ /°C	≤7x10 ⁻⁶ /°C	≤7x10 ⁻⁶ /°C
 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

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

TPOLOGY



EDGE



SURFACE STRUCTURE



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



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



Tiles with a highly irregular surface.

SURFACE LOOK



Natural looking surface.

FINISH

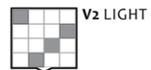


Pressed tiles without further work after firing.

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



SUGGESTED APPLICATIONS



Residential areas, hotel rooms, bathrooms



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



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.

Product Guide

R RATING TABLE

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

Collections	Typology	Colours	R 	R  (20mm thickness)
Line Wood	Porcelain Tiles	Ivory	R11 / A+B	-
		Beige	R11 / A+B	-
		Dark Beige	R11 / A+B	-
		Brown	R11 / A+B	-
		Dark Brown	R11 / A+B	-
Pietra Piasentina	Full Body Porcelain Tiles	Grey	R10 / A+B+C	-
		Beige	R10 / A+B+C	-
Plank Wood	Full Body Porcelain Tiles	white	R10 / A+B+C	-
		bone	R10 / A+B+C	-
		ivory	R10 / A+B+C	-
		beige	R10 / A+B+C	-
		grey	R10 / A+B+C	-
		black	R10 / A+B+C	-
Quarzite	Full Body Porcelain Tiles	grey	R10 / A+B+C	-
		beige	R10 / A+B+C	-
Revive Concrete	Porcelain Tiles	active white	-	R11 / A+B
		concrete grey	-	R11 / A+B
		graphite grey	-	R11 / A+B
		pitch black	-	R11 / A+B
		cloud grey	-	R11 / A+B
		blade beige	-	R11 / A+B
		summer sand	-	R11 / A+B
Salento	Porcelain Tiles	grey	-	R11 / A+B
		beige	-	R11 / A+B
		brown	-	R11 / A+B
Shine Stone	Porcelain Tiles	white	R11 / A+B	-
		grey	R11 / A+B	-
		dark grey	R11 / A+B	-
		black	R11 / A+B	-
		ivory	R11 / A+B	-
		beige	R11 / A+B	-
		dark beige	R11 / A+B	-
brown	R11 / A+B	-		
Surface 2.0	Porcelain Tiles	Cool Grey	-	R11 / A+B
		mid grey	-	R11 / A+B
		ash	-	R11 / A+B
		night	-	R11 / A+B
		Sand	-	R11 / A+B
Valley Stone	Full Body Porcelain Tiles	copper	-	R11 / A+B
		light grey	R10 / A+B+C	-
		dark grey	R10 / A+B+C	-
		beige	R10 / A+B+C	-

RAK CERAMICS
P.O. Box 4714, Ras Al Khaimah,
United Arab Emirates (U.A.E.)
Tel.: +971 7 2467000
Fax: +971 7 2445270
Email : info@rakceramics.com

RAKCERAMICS.COM

RAK
CERAMICS