

Porcelain Tiles



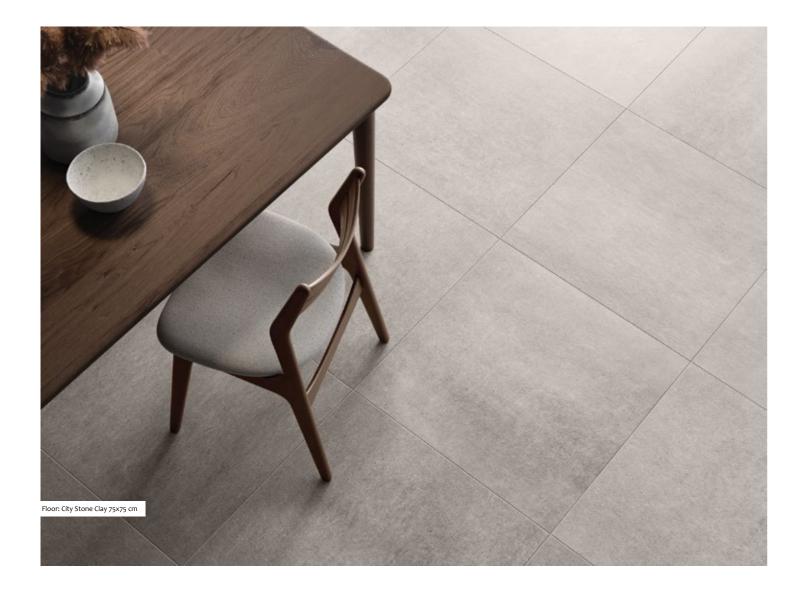








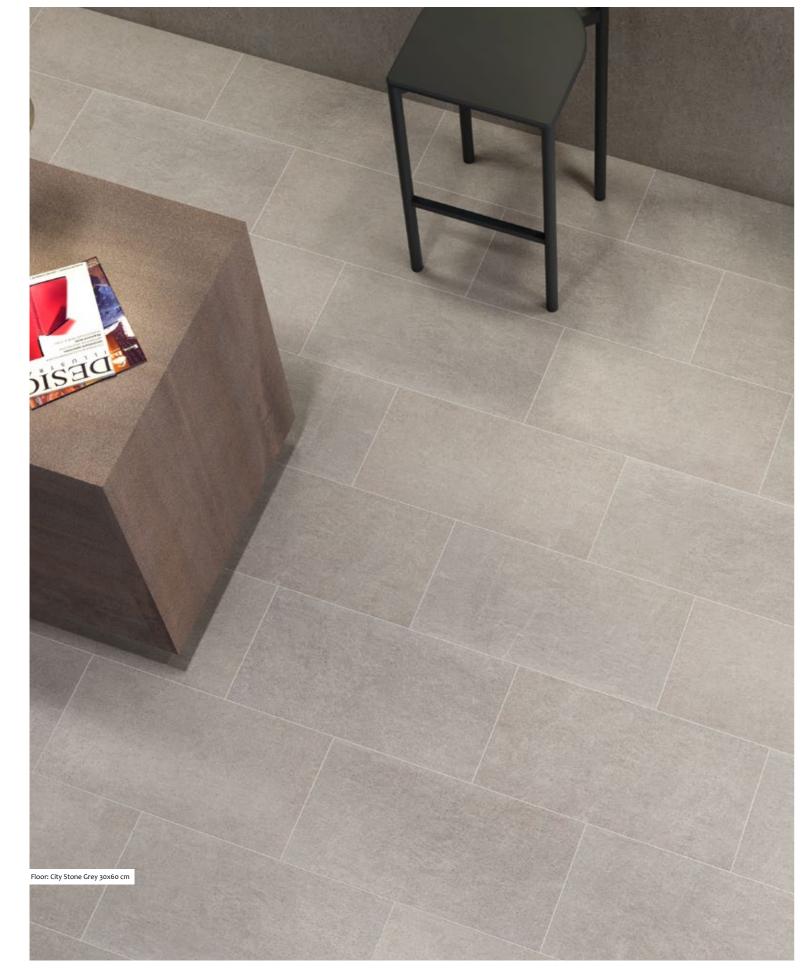
STONE City Stone

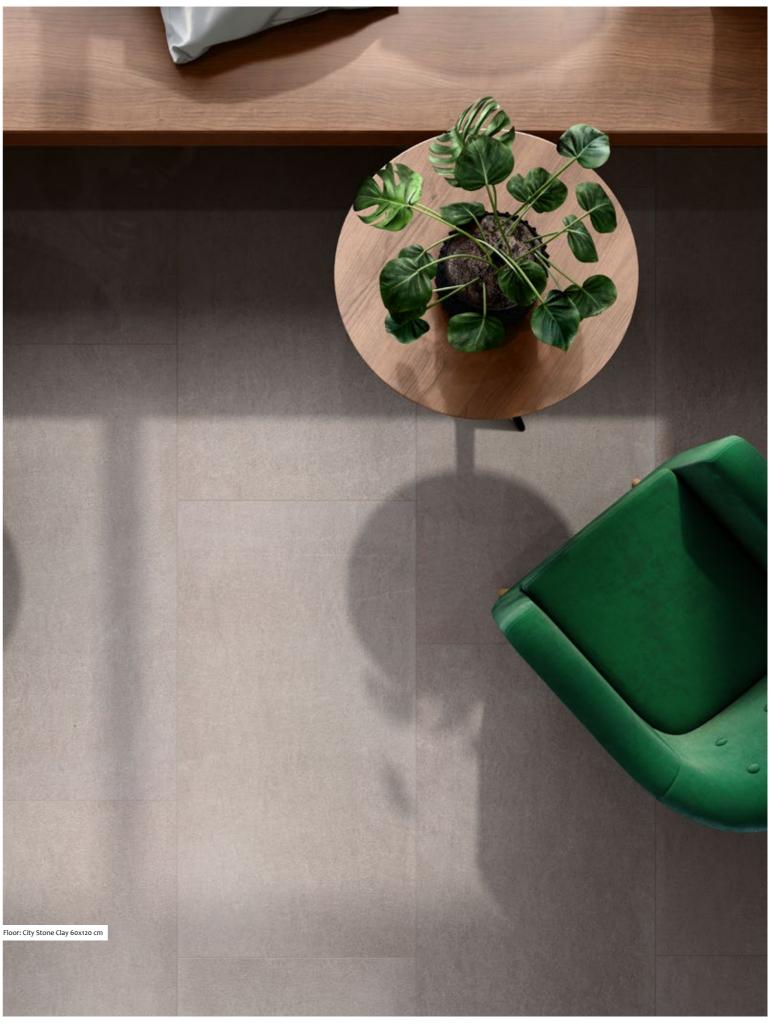






STONE City Stone









City Stone



city stone bone



city stone grey

city stone anthracite



city stone beige



city stone clay



| Sizes (cm) | Thickness (mm) | Pieces X 🍞 | M² X 💮 | Kg X 😭 | RM X 🎁 | 🕑 x 🗰 Sq. Pallet | M² X 🚛 Sq. Pallet | kg X 🚛 Sq. Pallet | 💬 x 🚛 Eu. Pallet | M² X 🚛 Eu. Pallet | kg X 🚛 Eu. Pallet |
|------------------|-------------------|------------|--------|--------|--------|---------------------|----------------------|----------------------|---------------------|----------------------|----------------------|
| 75×75 | 9 | 2 | 1.12 | 23.00 | - | - | - | - | 45 | 50.40 | 1056.00 |
| 60x120 | 9 | 2 | 1.44 | 29.00 | - | - | - | - | 30 | 43.20 | 891.00 |
| 60x60 | 9 | 4 | 1.44 | 28.00 | - | - | - | - | 36 | 51.84 | 1029.00 |
| 30x60 | 9 | 6 | 1.08 | 23.00 | - | - | - | - | 48 | 51.84 | 1125.00 |
| 30x30 | 8.5 | 13 | 1.17 | 22.80 | - | 81 | 94.77 | 1866.80 | 46 | 53.82 | 1068.00 |
| 20x20 | 7.5 | 27 | 1.08 | 17.00 | - | 125 | 135.00 | 2140.00 | 96 | 103.68 | 1650.00 |
| 10x10 | 6.8 | 108 | 1.08 | 15.50 | - | 108 | 116.64 | 1690.00 | 72 | 77.76 | 1135.00 |
| Mosaic 30x30 | 9 | 10 | - | 14.00 | - | - | - | - | 48 | - | 672.00 |
| Mosaic 25.5x29.5 | 9 | 10 | - | 17.50 | - | 54 | - | 980.00 | - | - | - |
| Mosaic 30x40 | 9 | 8 | - | 13.00 | - | - | - | - | 48 | - | 624.00 |
| Mosaic 30X45 | 9 | 6 | - | 15.00 | - | - | - | - | 30 | - | 450.00 |
| Mosaic 30X60 | 9 | 6 | - | 17.00 | - | - | - | - | 30 | - | 510.00 |
| Steps 30x60 | 9 | 6 | - | 18.00 | - | - | - | - | 48 | - | 900.00 |
| Skirting 75x8 | 9 | 10 | - | 14.40 | 7.5 | - | - | - | 66 | - | 950.40 |
| Skirting 60x8 | 9 | 18 | - | 19.00 | - | 80 | - | 1520.00 | - | - | - |

City Stone



city stone bone mosaic 30x30



city stone bone mosaic 25.5x29.5



city stone bone mosaic 30x40



city stone beige mosaic 30x40



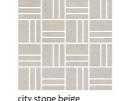
city stone grey mosaic 30x30

city stone grey mosaic 25.5x29.5



city stone anthracite mosaic 30x30

city stone anthracite mosaic 25.5x29.5



city stone beige mosaic 30x30

city stone beige mosaic 25.5x29.5



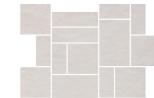
city stone clay mosaic 30x30



city stone clay mosaic 25.5x29.5











city stone grey mosaic 30x40

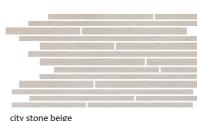


city stone clay mosaic 30x40





city stone anthracite mosaic 30x40



city stone beige mosaic 30x60

city stone bone mosaic 30x60



city stone grey mosaic 30x45



city stone clay mosaic 30x45



city stone grey mosaic 30x60



city stone clay mosaic 30x60

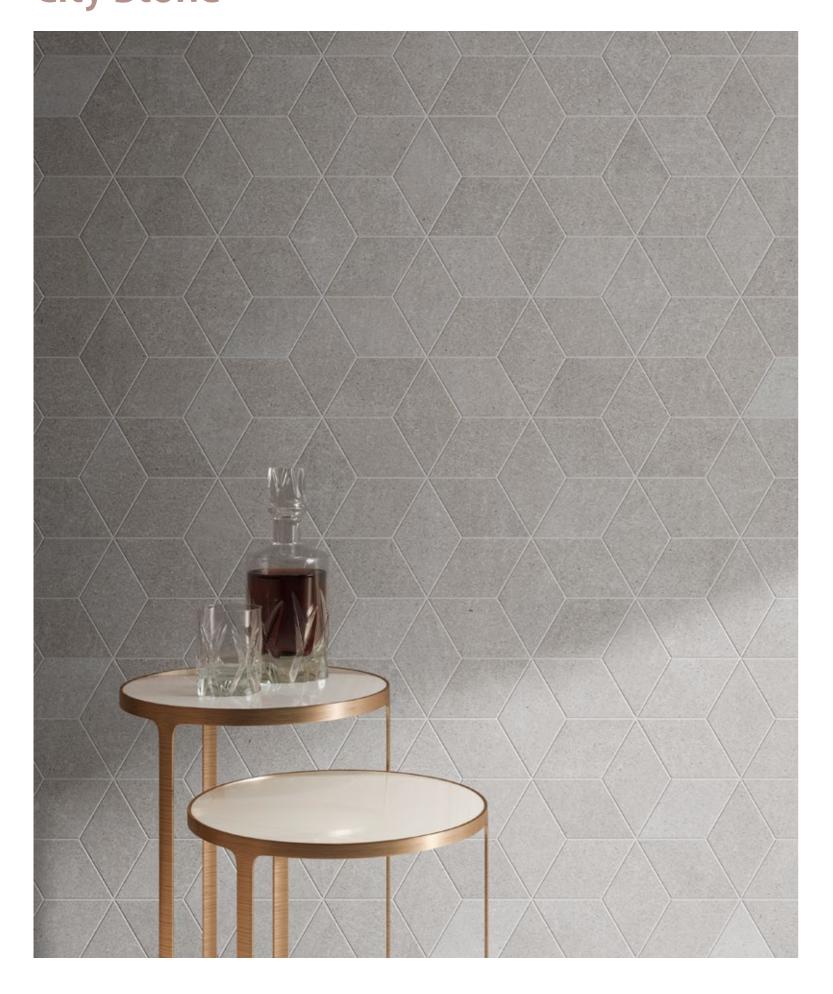


city stone anthracite mosaic 30x45



city stone anthracite mosaic 30x60

STONE City Stone



| | | c: (cm) | | c: (cm) | | c: (cm) | | c: (c) |
|---|--------------------|--------------------|--------------------|---|---------------------|------------|--------------------|----------|
| Name | Code | Size(CM) | Code | Size(CM) | Code | Size(CM) | Code | Size(CM) |
| city stone anthracite | AGB75CTSEANTZMLS5 | | AGB12CTSEANTZMLS5R | 60x120 | AGB06CTSEANTZMLNLR | 60x60 | AGB09CTSEANTZMLNLR | 30x60 |
| city stone bone | AGB75CTSEBNEZMLS5F | | AGB12CTSEBNEZMLS5R | 60x120 | AGB06CTSEBNEZMLNLR | 60x60 | AGB09CTSEBNEZMLNLR | 30x60 |
| city stone grey | AGB75CTSEGRYZMLS5F | | AGB12CTSEGRYZMLS5R | 60x120 | AGBo6CTSEGRYZMLNLR | 60x60 | AGB09CTSEGRYZMLNLR | 30x60 |
| city stone clay | AGB75CTSECLAZMLS5F | | AGB12CTSECLAZMLS5R | 60x120 | AGBo6CTSECLAZMLNLR | 60x60 | AGB09CTSECLAZMLNLR | 30x60 |
| city stone beige | AGB75CTSEBEEZMLS5P | 75×75 | AGB12CTSEBEEZMLS5R | 60x120 | AGBo6CTSEBEEZMLNLR | 60x60 | AGB09CTSEBEEZMLNLR | 30x60 |
| city stone anthracite | AooGCTSE-ANT.MoXoR | 30x30 | ASB20CTSEANTZMLNLU | 20X20 | ASB10CTSEANTZMLNLT | 10X10 | | |
| city stone bone | A00GCTSE-BON.M0X0F | 30x30 | ASB20CTSEBNEZMLNLU | 20X20 | ASB10CTSEBNEZMLNLT | 10X10 | | |
| city stone grey | A00GCTSE-GRY.M0X0R | | ASB20CTSEGRYZMLNLU | 20X20 | ASB10CTSEGRYZMLNLT | 10X10 | | |
| city stone clay | AooGCTSE-CLA.MoXoR | 30X30 | ASB20CTSECLAZMLNLU | 20X20 | ASB10CTSECLAZMLNLT | 10X10 | | |
| city stone beige | AooGCTSE-BEE.MoXoR | 30x30 | ASB20CTSEBEEZMLNLU | 20X20 | ASB10CTSEBEEZMLNLT | 10X10 | | |
| Name | | Code | Size(CM) | Name | 1 | Code | Siza | (CM) |
| city stone anthracite mos | | AGMZZCTSEANT005613 | | | te mosaic 29.8x39.8 | AGMZZCTSEA | | • • |
| city stone bone mosaic 30 | | AGMZZCTSEBNE005615 | 30X30 | city stone bone mo | | AGMZZCTSE | | |
| | - | | 30X30 | - | , | | | |
| city stone grey mosaic 30 | | AGMZZCTSEGRY005617 | 30x30 | city stone grey mos | | AGMZZCTSEC | | |
| city stone clay mosaic 30 | - | AGMZZCTSECLA005616 | 30X30 | city stone clay mos | | AGMZZCTSEC | | |
| city stone beige mosaic 3 | 0x30 | AGMZZCTSEBEE005614 | 30x30 | city stone beige mo | USAIC 29.0X39.0 | AGMZZCTSEE | 3EE005602 30x | 10 |
| city stone anthracite mos | saic 25.5x29.5 | AGWZZCTSEANT005492 | 25.5x29.5 | city stone anthraci | te mosaic 30x45 | AGMZZCTSEA | ANT005618 30x | 45 |
| city stone bone mosaic 25 | 5.5x29.5 | AGWZZCTSEBNE005494 | 25.5x29.5 | city stone bone mo | osaic 30x45 | AGMZZCTSEE | 3NE005620 30x | 45 |
| city stone grey mosaic 25 | .5x29.5 | AGWZZCTSEGRY005496 | 25.5x29.5 | city stone grey mo | saic 30x45 | AGMZZCTSEC | GRY005622 30x | 45 |
| city stone clay mosaic 25. | 5x29.5 | AGWZZCTSECLA005495 | 25.5x29.5 | city stone clay mos | aic 30x45 | AGMZZCTSEC | LA005621 30x | 45 |
| city stone beige mosaic 25.5x29.5 AGWZZCTSEBEE00549 | | AGWZZCTSEBEE005493 | 25.5x29.5 | city stone beige me | osaic 30x45 | AGMZZCTSEE | 3EE005619 30x | 45 |
| | | | | | | | | |
| city stone anthracite mos | saic 30x60 | AGMZZCTSEANT005623 | 30x60 | city stone anthraci | te step | AGTZZCTSEA | NT005671 30X | 60 |
| city stone bone mosaic 30 | 0x60 | AGMZZCTSEBNE005625 | 30x60 | city stone bone ste | p | AGTZZCTSEB | NE005673 30x | 60 |
| city stone grey mosaic 30 | 0x60 | AGMZZCTSEGRY005627 | 30x60 | city stone grey step | p | AGTZZCTSEG | RY005675 30x | 60 |
| city stone clay mosaic 30 | x60 | AGMZZCTSECLA005626 | 30x60 | city stone clay step |) | AGTZZCTSEC | LA005674 30x | 60 |
| city stone beige mosaic 3 | 0x60 | AGMZZCTSEBEE005624 | 30x60 | city stone beige ste | ep | AGTZZCTSEB | EE005672 30X | 60 |
| city stone anthracite step | <u></u> | AGTZZCTSEANT005943 | 30X120 | city stone anthracit | te ricer | AGRZZCTSEA | NT005948 5x12 | |
| city stone bone step | , | AGTZZCTSEBNE005945 | 30X120 | city stone bone rise | | AGRZZCTSEB | | |
| city stone grey step | | AGTZZCTSEGRY005947 | 30x120 | city stone grey rise | | AGRZZCTSEG | | |
| city stone clay step | | AGTZZCTSECLA005946 | 30x120 | city stone clay riser | | AGRZZCTSEC | | |
| city stone beige step | | AGTZZCTSEBEE005944 | 30x120 | city stone beige ris | | AGRZZCTSEB | | |
| | | | | , see a s | - | | | |
| city stone anthracite skirt | ting | AGSZZCTSEANT005552 | 75x8 | city stone anthraci | te skirting | AGSZZCTSEA | NT005506 60x | .8 |
| city stone bone skirting | | AGSZZCTSEBNE005553 | 75x8 | city stone bone ski | rting | AGSZZCTSEB | NE005508 60x | .8 |
| city stone grey skirting | | AGSZZCTSEGRY005743 | 75x8 | city stone grey skir | ting | AGSZZCTSEG | RY005510 60x | .8 |
| city stone clay skirting | | AGSZZCTSECLA005554 | 75x8 | city stone clay skirt | ing | AGSZZCTSEC | LA005509 60x | .8 |
| city stone beige skirting | | AGSZZCTSEBEE005742 | 75x8 | city stone beige ski | irting | AGSZZCTSEB | EE005507 60x | .8 |

TECHNICAL FEATURES

PORCELAIN TILES (BIa - 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 0.1% according to UNI EN ISO 10545-3) and extremely high mechanical resistance (average value exceeding 50 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 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 50 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)

Test Description \leftrightarrow Length & Width Thickness **Rectangle Squareness** 90° Straightness of sides Surface Flatness ~ 1 H₂0 Water Absorption \downarrow Modulus of Rupture \uparrow \uparrow Breaking Strength R Resistance to surface abra \boxtimes Linear Thermal Expansion Resistance to Thermal Sho 莈 Crazing Resistance * Frost Resistance Resistance to chemicals * Resistance to stains Colour Resistance to UV Lig \bowtie

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

| | | | RAK Ceramics | RAK Ceramics Specifications | | |
|--------|----------------------|---|---------------------------------------|-------------------------------------|--|--|
| | Standard Test Method | International Standard ISO 13006 | (Rectified) | (Unrectified) | | |
| | BS EN ISO 10545-2 | +/- 0.6% | +/- 0.1% | +/- 0.3% | | |
| | BS EN ISO 10545-2 | +/-5.0% | +/- 5.0% | +/- 5.0% | | |
| | BS EN ISO 10545-2 | +/- 0.6% | +/- 0.2% | +/- 0.4% | | |
| | BS EN ISO 10545-2 | +/- 0.5% | +/- 0.2% | +/- 0.3% | | |
| | BS EN ISO 10545-2 | +/- 0.5% | +/- 0.3% | +/- 0.3% | | |
| | BS EN ISO 10545-3 | <=0.5% | <=0.4% | <=0.4% | | |
| | BS EN ISO 10545-4 | >=35 N/mm2 | >=40 N/mm2 | >=40 N/mm2 | | |
| | BS EN ISO 10545-4 | >=1300N | >=1500N | >=1600N | | |
| rasion | BS EN ISO 10545-6 | Manufacturer to state Abrasion Class | PEI Class 2 -5 | PEI Class 2 -5 | | |
| n | BS EN ISO 10545-8 | <=9x10 ⁻⁶⁰ C ¹ | <=7x10 ⁻⁶⁰ C ⁻¹ | <=7X10 ⁶⁰ C ¹ | | |
| nock | BS EN ISO 10545-9 | No visible defect | No visible defect | No visible defect | | |
| | BS EN ISO 10545-11 | No crazing | No crazing | No crazing | | |
| | BS EN ISO 10545-12 | No visible damage | No visible damage | No visible damage | | |
| | BS EN ISO 10545-13 | No visible defect | No visible defect | No visible defect | | |
| | BS EN ISO 10545-14 | Manufacturer to state class | Stain removed Min.class 4 | Stain removed Min.class 4 | | |
| Light | DIN 51094 | No change in color | No change in color | No change in color | | |
| | | | | | | |

TECHNICAL FEATURES

GRES WHITE BODY TILES (BIIA):

TECHNICAL CHARACTERISTICS - GRES WHITE BODY TILES (BIIA)

Gres white body tiles are created by mixing raw materials including high quality white or red clays, quartz and feldspar in wet grinding ball mills. After grinding, a clay-based suspension of these materials called a slip is fed out of the mill then spray-dried to remove excess moisture. Following the spray drying process, the free flowing powder is pressed using advanced hydraulic presses with a specific pressing power exceeding 300 kg/cm2 in order to obtain a compact gres body. Once dried, the tiles are coated and decorated with glazes to make them aesthetically pleasing and meet our customers design requirements.

The glazed tile body is then fired in roller kilns where temperatures of approximately 1200 °C are reached. The resulting product is normally a medium-to-low porosity (3% to 6%) tile, in compliance with the UNI EN 14411 standard and rated as belonging to the BIIa GL group with notable technological specifications such as the product flexural strength (average value: 30N/mm2 according to UNI EN ISO 10545-4).

As for wear resistance, this will depend on the type and colour of glazing and may change according to different products or collections. As a general rule, bright finishes are not recommended for heavy traffic floors or rooms opening onto outdoor areas, where sand or other abrasive materials are more likely to be brought in.

ADVICE ON LAYING

Our gres white body tiles can be laid using either traditional cement mortar or modern tile adhesives. When laying large size tiles, it is best to adopt the two-layer spreading system to ensure the adhesive is spread over 90 % of the tile surface.

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

It is advisable to always incorporate suitable shrinkage-flexion joints (movement/expansion joints) which must not be spaced more than 4-5 metres apart from one another. These joints must be inserted not only between the tiles, but also reach the levelling compound below, consisting of either cement mortar or dry compound, depending on whether the tiles are set in the traditional manner or using a modern adhesive. The movement joints must be sealed with appropriate materials such as silicone or polyurethane-based sealants, depending on the anticipated traffic of the application area.

Appropriate tile bedding layers should be used such as underlay, damp course, vapour barrier or any other layer necessary to prevent the tiles from detaching themselves or cracking due to water penetration.

| | Test Description | Standard Test Method | International Standard ISO 13006 | RAK Ceramics Specification |
|---|--------------------------------|----------------------|--------------------------------------|----------------------------|
| \Rightarrow | Length & Width | BS EN ISO 10545-2 | +/- 0.6% | +/- 0.3% |
| | Thickness | BS EN ISO 10545-2 | +/-5.0% | +/- 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 | 3% < E <= 6% | 3% <e <="6%</td"></e> |
| $\frac{\downarrow}{\uparrow\uparrow\uparrow}$ | Modulus of Rupture | BS EN ISO 10545-4 | >=22 N/mm2 | >=30 N/mm2 |
| | Breaking Strength | BS EN ISO 10545-4 | | |
| | Thickness > = 7.5mm | | >=1000N | >=1000N |
| | Thickness < = 7.5mm | | >=600N | >=700N |
| Q) | 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 |
| 狡 | 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 |
| * | Scratch Hardness : (Moh's) | EN 101 | | 4 - 6 |
| <u>~\V~</u> | | | | |

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.

work.

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

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

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

Product Guide

ICONS

R RATING TABLE

| | | | | Collections | Туроlogy | Colours | R N |
|------------|-----------------|-----------|----------|-------------|-----------------|------------|-----|
| | | | | | | Bone | R10 |
| | | | | City Stone | Porcelain Tiles | Grey | R10 |
| | | FRCF | | | | Anthracite | R10 |
| | | EDGE | | | | Beige | R10 |
| | GRES WHITE BODY | RECTIFIED | STRAIGHT | | | Clay | R10 |
| <u>G/W</u> | | | | | | | |
| | | | | | | | |

SURFACE STRUCTURE



FINISH NATURAL Ν

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

Pressed tiles without further work after firing.

SURFACE LOOK

м

MATT

Natural looking surface.



COLOUR VARIATIONS



The least amount of shade variation attainable.

INDICATIONS FOR USE





SUGGESTED APPLICATIONS





Residential areas, hotel rooms, bathrooms

FLOOR TILES

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

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

Contact

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RAKCERAMICS.COM

