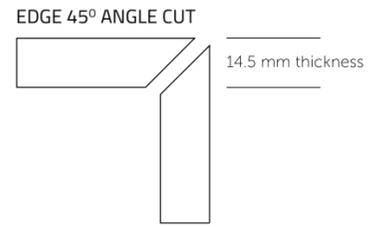


MAXIMUS SPECIAL EGDES



Choosing the right edge for your countertop

In any interior design project it is often the details that set it apart, and choosing your countertop edge is not a detail you want to overlook.

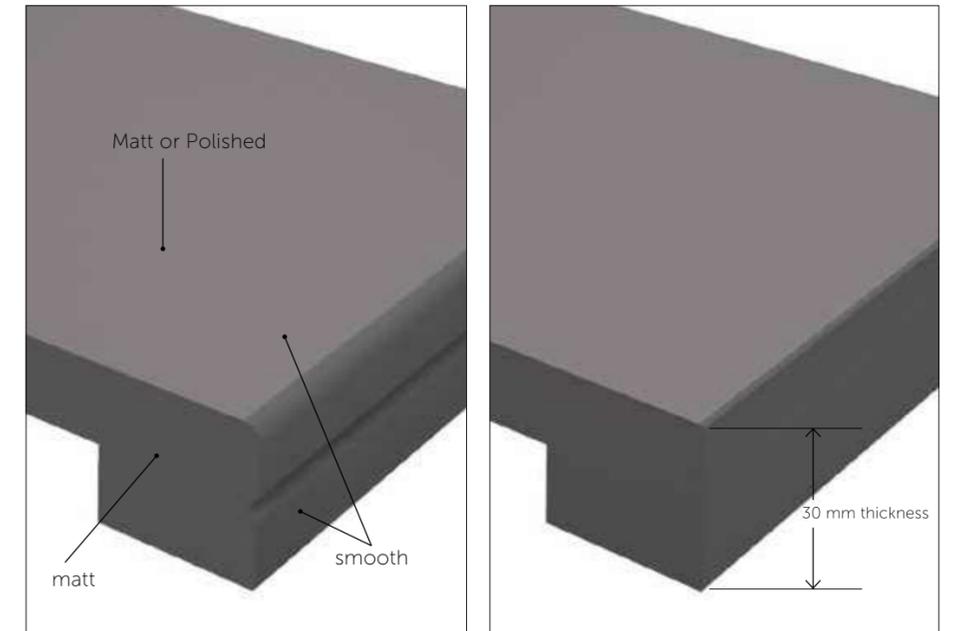
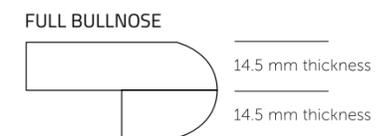
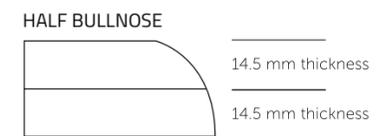
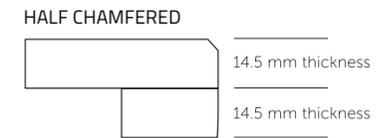
The edge can complete the style of your dream kitchen or bathroom.

Maximus standard and special edges are the finishing touch to your countertop installation.

RAK E-System*

RAK E-System is a worldwide exclusive by RAK Ceramics. It's the ideal and innovative solution to the current needs of designers who need to combine the aesthetics of a natural looking product with the versatility of porcelain slabs.

Thanks to its innovative and high performance materials, Maximus slabs can be easily processed to obtain glossy or matt thick edges, just gluing 2 overlapping slabs (14.5mm+14.5mm) according to the standards of natural stone processing.



*RAK E-System is only available for UNI



TECHNICAL

SIZES & PACKAGING

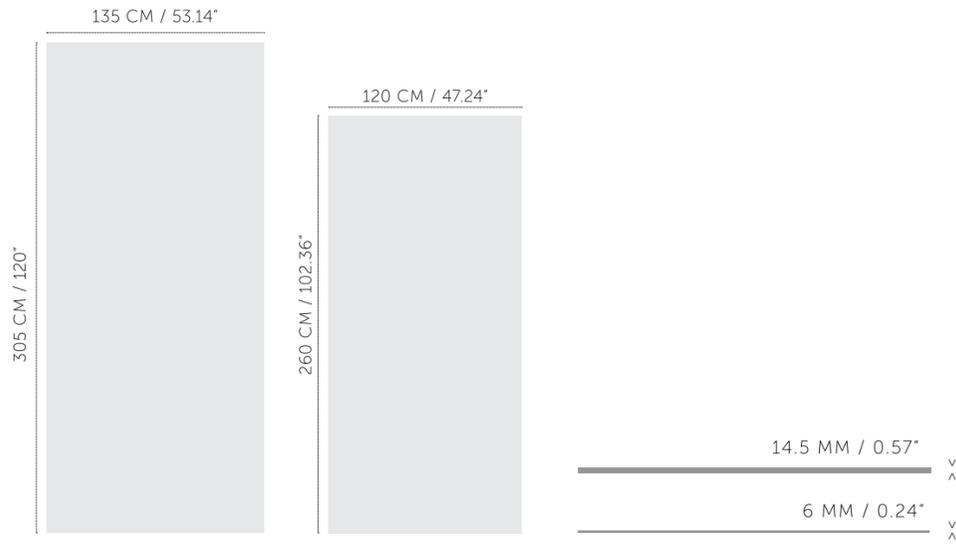
TECHNICAL SPECIFICATIONS

EQUIPMENTS AND HANDLING

CLEANING AND MAINTENANCE

TECHNICAL MANUAL

Product sizes



Packaging details

135x305 PALLET DIMENSIONS (CM)

| Finish | Length | Height | Width |
|----------|--------|--------|-------|
| Polished | 315 | 40 | 150 |
| Natural | 315 | 40 | 150 |

TILE THICKNESS: 14.5MM

| FINISH | TILE SIZE (CM) | TILE AREA (sqm) | KG per pc | PCS per pallet | TILE AREA per pallet (sqm) | WEIGHT per pallet (kg) |
|----------|----------------|-----------------|-----------|----------------|----------------------------|------------------------|
| Polished | 135x305 | 4.12 | 143 | 10 | 41.2 | 1502 |
| Matt | 135x305 | 4.12 | 150 | 10 | 41.2 | 1572 |

120x260 PALLET DIMENSIONS (CM)

| Finish | Length | Height | Width |
|----------------------------|--------|--------|-------|
| Polished / Natural / Honed | 267 | 33.50 | 133 |

TILE THICKNESS: 6MM

| FINISH | TILE SIZE (CM) | TILE AREA (sqm) | KG per pc | PCS per pallet | TILE AREA per pallet (sqm) | WEIGHT per pallet (kg) |
|----------------------------|----------------|-----------------|-----------|----------------|----------------------------|------------------------|
| Polished / Natural / Honed | 120x260 | 3.12 | 44.00 | 20 | 62.4 | 1000.00 |

Note: All tile dimensions mentioned above are rectified. Unrectified size is available in +/-140x308cm on request
All weights and thickness mentioned in the above table are approximate average.

Technical specifications

| TEST DESCRIPTION | STANDARD TEST METHOD | STANDARD REQUIREMENTS | RAK CERAMICS SPECIFICATION | |
|---|----------------------|---|---|---|
| | | | Porcelain Tiles (Natural) 14 MM THICKNESS 135X305 | Full Body Porcelain Tiles (Natural/ Polished) 14 MM THICKNESS 135X305 |
| Surface Quality | BS EN ISO 10545-2 | A minimum of 95% of the tiles are to be free from visible defects | Minimum of 95% of the tiles are free from visible defects | |
| Length & Width | BS EN ISO 10545-2 | ± 1.0mm | ± 1.0mm | ± 1.0mm |
| Thickness | BS EN ISO 10545-2 | ± 0.5mm | ± 0.5mm | ± 0.5mm |
| Straightness Of Sides | BS EN ISO 10545-2 | ± 0.8mm | ± 0.8mm | ± 0.8mm |
| Rectangularity | BS EN ISO 10545-2 | ± 1.5mm | ± 1.2mm | ± 1.2mm |
| Surface Flatness: Centre Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.8mm | ± 1.8mm |
| Surface Flatness: Edge Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm | ± 1.5mm |
| Surface Flatness: Warpage | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm | ± 1.5mm |
| Water Absorption | BS EN ISO 10545-3 | ≤ 0.5% | ≤ 0.4% | ≤ 0.1% |
| Breaking Strength* | BS EN ISO 10545-4 | ≥ 1300 N ≥ 700 N | ≥ 3500 N - | ≥ 3500 N - |
| Modulus Of Rupture* | BS EN ISO 10545-4 | ≥ 35 N/mm ² | ≥ 40 N/mm ² | ≥ 40 N/mm ² |
| Resistance To Deep Abrasion | BS EN ISO 10545-6 | ≤ 175 mm ³ | - | ≤ 150 mm ³ |
| Resistance To Surface Abrasion | BS EN ISO 10545-7 | Report abrasion class | PEI CLASS 2-5 | - |
| Coefficient Of Linear Thermal Expansion | BS EN ISO 10545-8 | Test method available | ≤ 7 X 10 ⁻⁶ /°C | ≤ 7 X 10 ⁻⁶ /°C |
| Resistance To Thermal Shock | BS EN ISO 10545-9 | Test method available | No visible defect | No visible defect |
| Frost Resistance | BS EN ISO 10545-12 | Required | No crazing | No visible damage |
| Resistance To Household Chemicals & Swimming Pool Salts | BS EN ISO 10545-13 | Minimum B | No visible damage | Class A No visible effect |
| Resistance To Low Concentrations Acids & Alkalis | BE EN ISO 10545-13 | Manufacturer to state classification | Class A No visible effect | Class LA No visible effect |
| Resistance To High Concentrations Acids & Alkalis | BS EN ISO 10545-13 | Test method available | Class LA No visible effect | Class HA No visible effect |
| Resistance To Staining (Natural) | BS EN ISO 10545-14 | Min. Class 3 | Min. Class 4 Stains removed | Min. Class 3 Stains removed |
| Resistance To Staining (Polished) | BS EN ISO 10545-14 | Test method available | - | Min. Class 2 Stains removed |

Note: This technical specifications are applicable only to tiles in choice "A".

* Test performed using 100X100 cm cut pieces from the slab.
* Thickness is nominal

TECHNICAL MANUAL

Technical specifications - Porcelain Tiles (Natural, Full Lappato, Honed)

| TEST DESCRIPTION | STANDARD TEST METHOD | STANDARD REQUIREMENTS | RAK CERAMICS SPECIFICATION 6 MM THICKNESS (120x260) |
|---|----------------------|---|---|
| Surface Quality | BS EN ISO 10545-2 | A minimum of 95% of the tiles are to be free from visible defects | Minimum of 95% of the tiles are free from visible defects |
| Length & Width | BS EN ISO 10545-2 | ± 1.0mm | ± 1.0mm |
| Thickness | BS EN ISO 10545-2 | ± 0.5mm | ± 0.5mm |
| Straightness Of Sides | BS EN ISO 10545-2 | ± 0.8mm | ± 0.8mm |
| Rectangularity | BS EN ISO 10545-2 | ± 1.5mm | ± 1.2mm |
| Surface Flatness: Centre Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.8mm |
| Surface Flatness: Edge Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm |
| Surface Flatness: Warpage | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm |
| Water Absorption | BS EN ISO 10545-3 | ≤ 0.5% | ≤ 0.4% |
| Breaking Strength* | BS EN ISO 10545-4 | ≥ 700 N | ≥ 700 N |
| Modulus Of Rupture* | BS EN ISO 10545-4 | ≥ 35 N/mm ² | ≥ 35 N/mm ² |
| Resistance To Surface Abrasion | BS EN ISO 10545-7 | Report abrasion class | PEI CLASS 2-5 |
| Coefficient Of Linear Thermal Expansion | BS EN ISO 10545-8 | Test method available | ≤ 7 X 10 ⁻⁶ /°C |
| Resistance To Thermal Shock | BS EN ISO 10545-9 | Test method available | No visible defect |
| Crazing Resistance | BS EN ISO 10545-11 | Required | No crazing |
| Frost Resistance | BS EN ISO 10545-12 | Required | No visible damage |
| Resistance To Household Chemicals & Swimming Pool Salts | BS EN ISO 10545-13 | Minimum B | Class A No visible effect |
| Resistance To Low Concentrations Acids & Alkalis | BE EN ISO 10545-13 | Manufacturer to state classification | Class LA No visible effect |
| Resistance To Staining | BS EN ISO 10545-14 | Minimum class 3 | Min. Class 4 Stains removed |

Note: This technical specifications are applicable only to tiles in choice "A".

* Test performed using 100X100 cm cut pieces from the slab.
* Thickness is nominal

Technical specifications - Full Body Porcelain Tiles (Natural/Polished)

| TEST DESCRIPTION | STANDARD TEST METHOD | STANDARD REQUIREMENTS | RAK CERAMICS SPECIFICATION 6 MM THICKNESS (120x260) |
|---|----------------------|---|---|
| Surface Quality | BS EN ISO 10545-2 | A minimum of 95% of the tiles are to be free from visible defects | Minimum of 95% of the tiles are free from visible defects |
| Length & Width | BS EN ISO 10545-2 | ± 1.0mm | ± 1.0mm |
| Thickness | BS EN ISO 10545-2 | ± 0.5mm | ± 0.5mm |
| Straightness Of Sides | BS EN ISO 10545-2 | ± 0.8mm | ± 0.8mm |
| Rectangularity | BS EN ISO 10545-2 | ± 1.5mm | ± 1.2mm |
| Surface Flatness: Centre Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.8mm |
| Surface Flatness: Edge Curvature | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm |
| Surface Flatness: Warpage | BS EN ISO 10545-2 | ± 1.8mm | ± 1.5mm |
| Water Absorption | BS EN ISO 10545-3 | ≤ 0.5% | ≤ 0.1% |
| Breaking Strength* | BS EN ISO 10545-4 | ≥ 700 N | ≥ 700 N |
| Modulus Of Rupture* | BS EN ISO 10545-4 | ≥ 35 N/mm ² | ≥ 35 N/mm ² |
| Resistance To Deep Abrasion | BS EN ISO 10545-6 | ≤ 175 mm ³ | ≤ 150 mm ³ |
| Coefficient Of Linear Thermal Expansion | BS EN ISO 10545-8 | Test method available | ≤ 7 X 10 ⁻⁶ /°C |
| Resistance To Thermal Shock | BS EN ISO 10545-9 | Test method available | No visible defect |
| Frost Resistance | BS EN ISO 10545-12 | Required | No visible damage |
| Resistance To Household Chemicals & Swimming Pool Salts | BS EN ISO 10545-13 | Minimum B | Class A No visible effect |
| Resistance To Low Concentrations Acids & Alkalis | BE EN ISO 10545-13 | Manufacturer to state classification | Class LA No visible effect |
| Resistance To High Concentrations Acids & Alkalis | BS EN ISO 10545-13 | Test method available | Class HA No visible effect |
| Resistance To Staining (Natural) | BS EN ISO 10545-14 | Test method available | Min. Class 3 Stains removed |
| Resistance To Staining (Polished) | BS EN ISO 10545-14 | Test method available | Min. Class 2 Stains removed |

Note: This technical specifications are applicable only to tiles in choice "A".

* Test performed using 100X100 cm cut pieces from the slab.
* Thickness is nominal

Suggested equipment

HANDLING EQUIPMENT

Aluminum Parallel profile with crossbars and Suction Vacuum suction cups with vacuum gauge



Tile Cart Trolley



Double Suction Cups



Modular Work Bench BM180



Modular Work Bench BM180 BM180 Plus (Perfect Workstation for large format tiles up to 160cm width)



CUTTING AND DRILLING EQUIPMENT

Compass device with suction cups for Circular Cuts



Free cut guide with complete outfit Max. Cut of length – 156 cm



Free Cut Extension



Cutting off pliers for tile/slabs



Diamond polishing pad



Diamond for edge and side polishing



Diamond Blades for simultaneous cutting and grooving



INSTALLATION AND LEVELLING EQUIPMENT

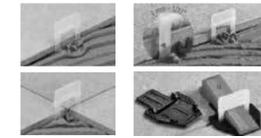
Compact Vibrator or Tile Beater



RLS 3D Clips for tiles



Wedges (for Anti-Chipping / Anti-Scratching preventing platforms)



Adjustable pliers for wall and floor covering



Low-speed mixer



Rubber Grout floats



Slant ridge notched trowel



Diamond for edge and side polishing



CLEANING AND MAINTENANCE

Brooms

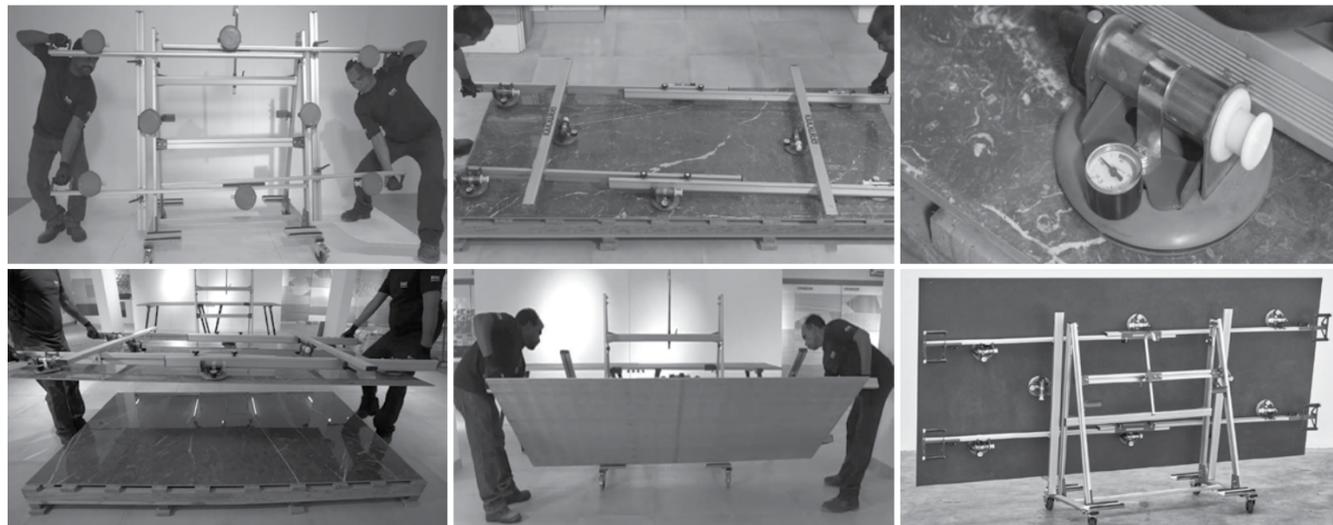
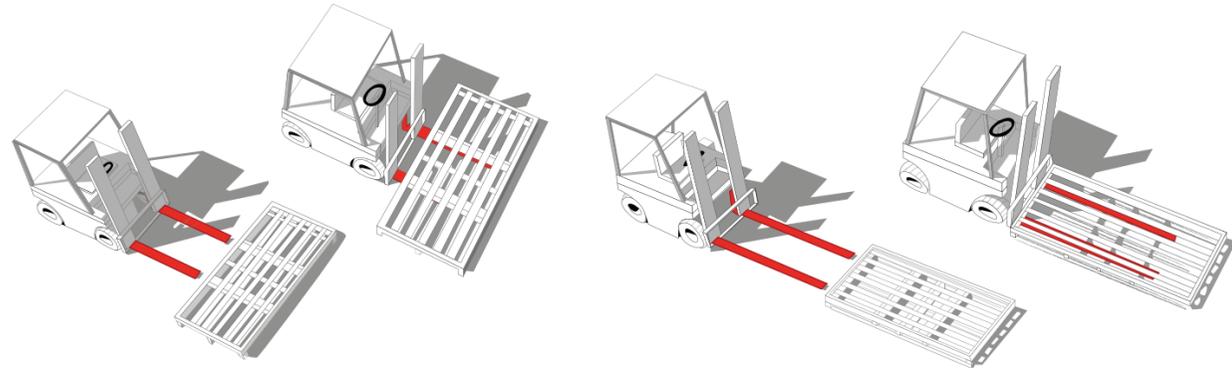


Floats with abrasive pads



Handling Maximus

- Maximus extra-large format slabs arrive in oversized crates, which require specific Handling equipment to prevent from damage occurring during forklift operation, specific fork sizes must be used. For example, to handle a crate of 135cm x 305cm tiles from the side, 112cm/ 44" long forks are recommended.
- To handle the same crate from the narrow end requires forks that are at least 213cm/ 84" long. Lifting multiple crates with longer forks may require forklifts with a greater lift capacity.
- Specialized tools and equipment are currently available for the handling, installation and cutting of large porcelain surfaces. Innovative trowels with unique notch configurations can help increase the consistency of the mortar coverage on the back of the tile.
- To increase rigidity and limit twisting, use a system composed of parallel and transverse guides.
- For a perfect adhesion clean the slab and the suckers with a damp sponge.
- The suckers run along the guides and adhere to the slab. Make sure that a vacuum is created between the device and the surface.
- A single guide device can be used for sizes of maximum length.
- Use four operators at a time to carry out handling operations of large size slabs.
- Lift the slab along the long side and hang it vertically to the handles of the frame.
- For the large size slab a suitably reinforced trolley is recommended. Set the guides to the trolley for carrying the slab.
- Follow the same procedure for handling the 120x240cm and all other sub-sizes, where only two operators are sufficient.



Cut-to-pieces and drilling

- RAK Ceramics recommends the use of special designed devices for handling as well as cutting and laying of big slabs.
- Handle slab with a proper and professional trolley of aluminum parallel profile with crossbars and vacuum suction cups along with a vacuum gauge. Please use double suction cups for slabs above 300cm. This could make sure that appropriate vacuum is created between the device and the slab. Lift the slab and keep it vertically to the trolley frame.
- Keep the slab on a stable, flat and intractable surface. For successful cutting and drilling, RAK Ceramic recommend using a professional modular workbench with aluminum profiles and proper cutting tools for each type of cut.
- Set the cutting unit on the tile so that the references coincide with the marked lines and lock it with the appropriate suckers. Score the slab from one edge to the other, being carefully maintaining the same pressure while moving.
- When the cut has been made, move the slab until the slit line sticks out a 10 to 15 cm from the workbench. Start hew from both sides using appropriate cutting-off pliers and follow the scoring line to complete the hew.
- Smooth rough edges and sides with an appropriate diamond polishing pad.
- To drill internal cutouts from the slab, first you need to draw the guide lines. For circular cuts, use the compass device with suction cups. For rectangular cut, drill first a 5 – 7 mm hole at the corners of the rectangle shape, using a non-percussion drill. For a better drilling always, keep the surface and drill a little bit wet. Then Follow the drilled lines using a diamond-blade angle grinder and then finish off the edges with a diamond-polishing pad. Round holes (4) must be made in wet drilling, using diamond-blades. Start engraving the surface with a 75 degrees point angle, then straighten out the drill avoiding excessive pressure on the slab. Also, in this case finish with a diamond-polishing pad.
- Manual traction devices are available, in order to make a finishing cut at 45° and thus enable special applications of the material.



