MAXIMUS

MEGA SLAB

800x1600 mm

RAK

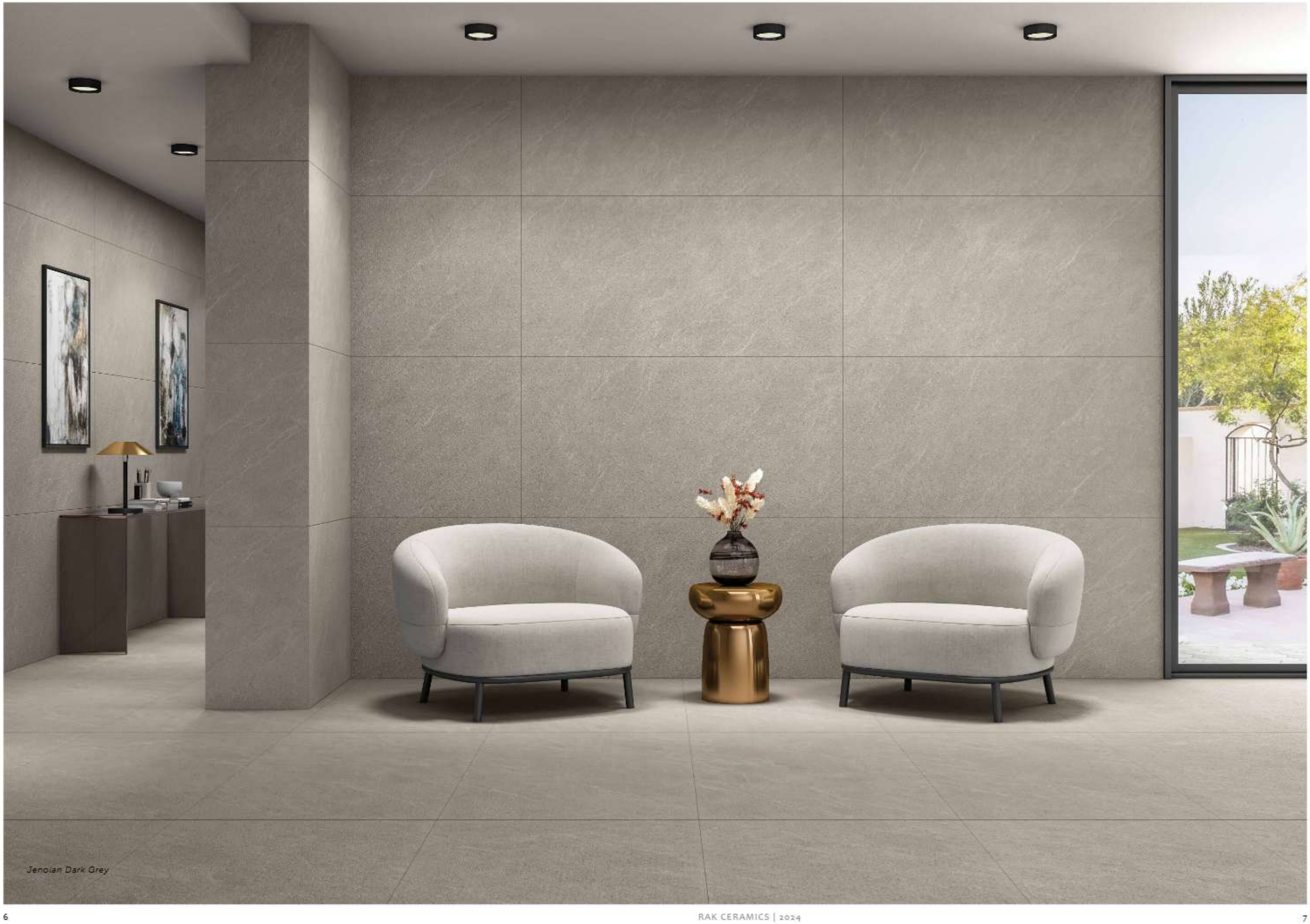
CERAMICS

Index

MAXIMUS
MEGA SLAB

This Collection has superior surface characteristics (High abrasion resistance making it suitable for heavy commercial areas) and also has high aesthetic appeal. Conkreto series gives the rich look of concrete and Jenolan captures the essence of beauty of natural limestone.

Jenolan Beige



Jenolan Dark Grey

Jenolan Light Grey

JENOLAN

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

jenolan beige

jenolan beige variations
80x160

JENOLAN BEIGE	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

JENOLAN

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

jenolan dark grey

jenolan dark grey variations
80x160

JENOLAN DARK GREY	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

JENOLAN

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

jenolan light grey

jenolan light grey variations
80x160

JENOLAN LIGHT GREY	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

JENOLAN

Vitrified tile
Matt

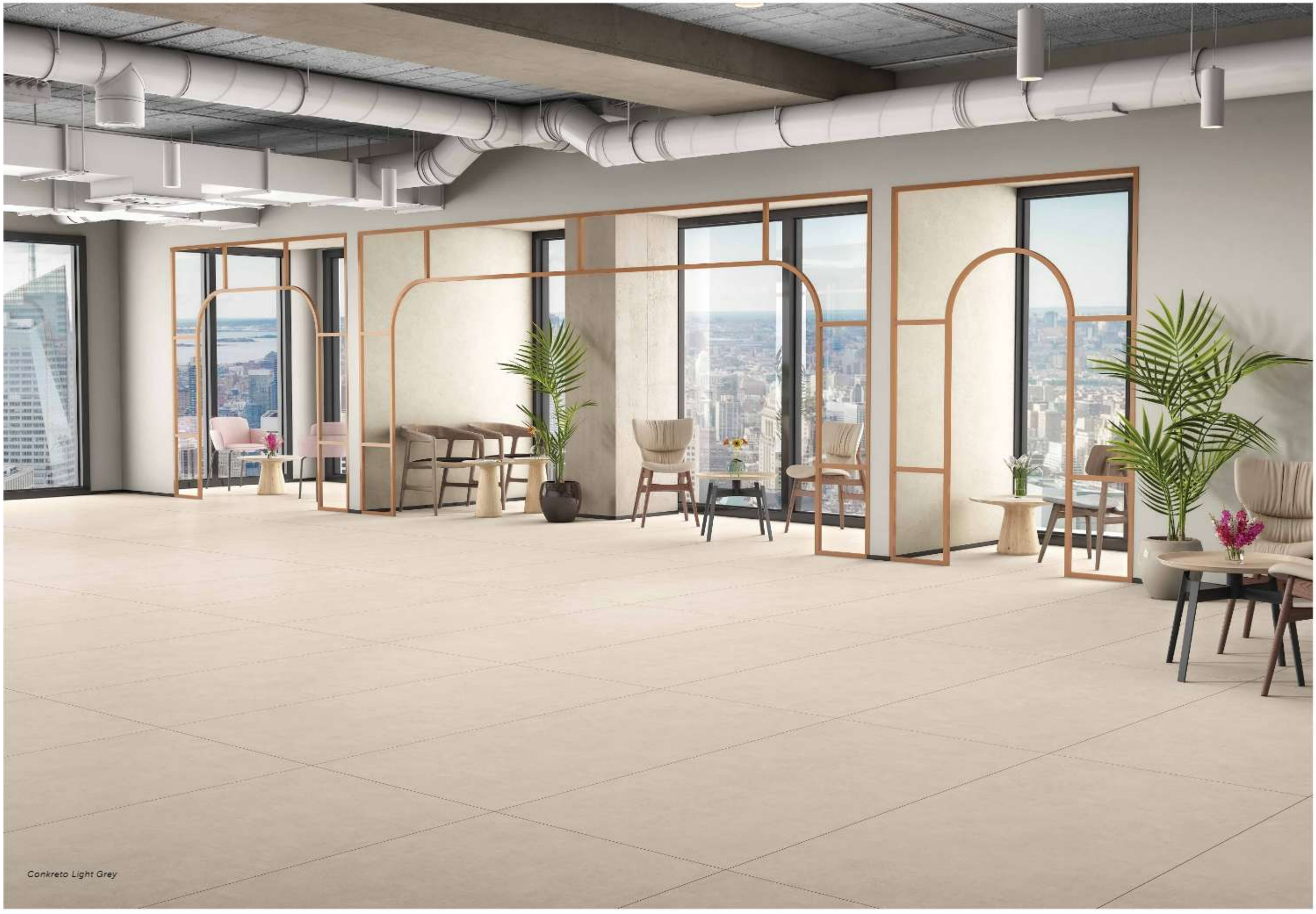
>|< 9 mm
80x160 cm
31.49"x63"

jenolan nero

jenolan nero variations
80x160

JENOLAN NERO	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

Conkreta Ivory


Conkreto Light Grey

Conkreto Beige

CONKRETO

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

conkreto ivory

conkreto ivory variations
80x160

CONKRETO IVORY	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

CONCRETE

CONKRETO

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

conkreto light grey

conkreto light grey variations
80x160

CONKRETO LIGHT GREY	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

CONKRETO

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

conkreto dark grey

conkreto dark grey variations
80x160

CONKRETO DARK GREY	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

CONKRETO

Vitrified tile
Matt

>|< 9 mm
80x160 cm
31.49"x63"

conkreto beige

conkreto beige variations
80x160

CONKRETO BEIGE	SIZES (cm / Inches)	THICKNESS (mm)
	80x160 / 31.49 "x63"	9

TECHNICAL MANUAL

PRODUCT TYPOLOGY & SIZES

TECHNICAL SPECIFICATIONS

HANDLING

INSTALLATION (WALL, FLOOR AND FAÇADE)

CLEANING AND MAINTENANCE

Technical specifications - Vitrified Tile

GVT/PGVT

TEST DESCRIPTION	STANDARD TEST METHOD	STANDARD REQUIREMENTS	RAK CERAMICS SPECIFICATION
Deviation in Length	BS EN ISO 10545 - 2	±0.3 %	±0.10 %
Deviation in Width	BS EN ISO 10545 -2	±0.3%	±0.10 %
Deviation in Thickness	BS EN ISO 10545-2	±5.0 %	±4.00%
Straightness of Sides	BS EN ISO 10545 - 2	±0.3%	±0.10 %
Rectangularity (mm)	BS EN ISO 10545 -2	±0.3 %	±0.10 %
Surface flatness : Center curvature	BS EN ISO 10545 -2	± 0.40 %	±0.20 %
Surface flatness : Edge curvature	BS EN ISO 10545-2	± 0.40 %	± 0.20 %
Surface flatness : Warpage	BS EN JSO 10545-2	± 0.40 %	± 0.20 %
Surface Quality	BS EN ISO 10545 -2	Min 95% free from visible defects	Min 95% free from visible defects
Water Absorption	BS EN ISO 10545 - 3	Ev ≤0.5 %	≤ 0.05 %
Breaking Strength	BS EN ISO 10545 - 4	≤ 1300 N	≥ 1600 N
Modules Of Rupture	BS EN ISO 10545 -4	≥ 35 N/mm^2	≥ 38 N/mm2
Resistance to surface Abrasion for glazed tiles	BS EN ISO 10545- 7	Report abrasion class	PEI-2-4
Co Efficient Of Linear Thermal Expansion	BS EN ISO 10545- 8	Test method available	< 7x 10^{-6}/°C
Thennal Shock Resistance	BS EN ISO I 0S45 - 9	Test method available	No visible defect
Crazing Resistance	BS EN ISO 10545- 11	Required	4 Cycle Pass
Frost- Resistance	BS EN ISO 10545 - 12	Required	No visible damage
Resistance to House hold Chemicals & swimming pool Salts	BS EN ISO 10545 - 13	MinimumB	Class A No visible effect
Resistance to acids & alkalis (with exceptions of HF acid and it's compounds)	BS EN ISO 10545,- 13	Manufacturer to state classification	Class LA No visible effect
Resistance To Staining	BS EN ISO 10545- 14	Min Class-3	Min Class-3

Note: The Breaking Strength & MOR values shall be as per RAK INDIA (Morbi) Lab MOR testing machine results Test Performed using 90x90 cm cut pieces from the slab.

Superior quality raw materials like kaolin, clay, feldspar, silica, and colouring inks are imported from Europe and other parts of the world to manufacture Maximus Mega Slabs, without compromising on its breaking strength, water absorption, dust, termite and chemical resistance.

Maximus Mega Slabs are exceptionally hard, resist thermal shock better than any material available today, are virtually non-porous and are a green product. Installation is quicker and easier because of the dimensions of the product.

Flooring, wall cladding, kitchen counter tops, vanity tops, steps and risers, and bath surrounds are all possible.

Suggested equipment

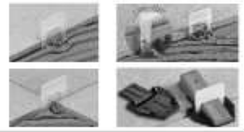
HANDLING EQUIPMENT

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 LEVELLINGEQUIPMENT

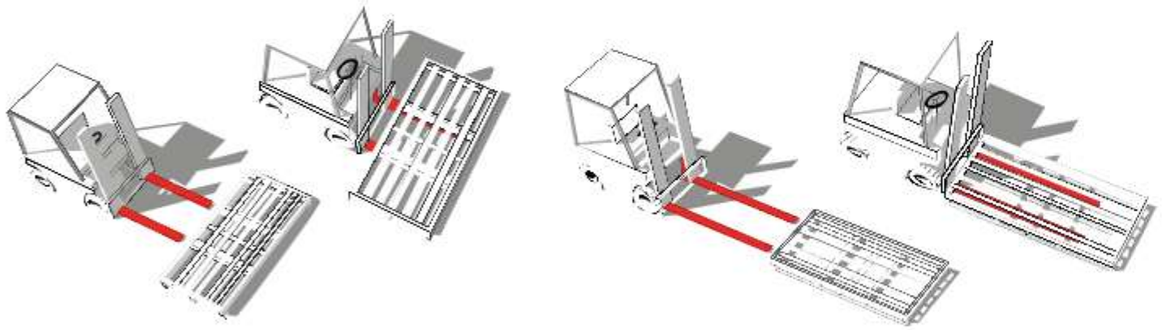
Compact Vibrator or Tile Beater	
RLS 3D Clips for tiles	
Wedges (for Anti- Chipping / Anti-Scratching preventing platforms)	
Adjustable pliers for wall and floor covering	
Low-speed mixer	
Rubber Grout floats	
Slant ridge notched trowel	
Diamond for edge and side polishing	

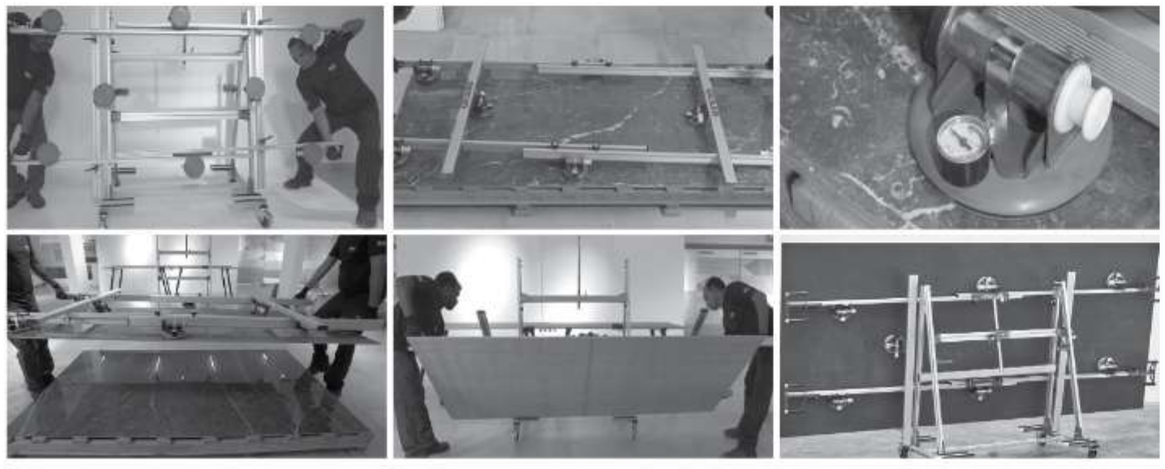
CLEANING AND MAINTENANCE

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 sukers with a damp spongue.
- 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.

Installation

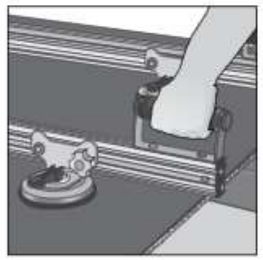
Laying "Maximus" slabs requires similar laying conditions to those required for traditional format slabs. Maximus requires the adhesive to be applied both on the setting bed and on the back of the slab.

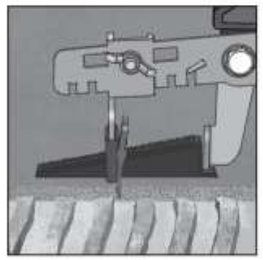
Maximus Slabs For Flooring Require The Following Conditions:

- A flat surface that is clean and free from dust, scraps and any lumps of cement
- The setting bed must be uniform and have already undergone the dry shrinkage process
- Repair any cracks
- Any uneven parts on the surface must be filled with suitable levelling compounds

Instruments Required

- Cement-based powder adhesive for full spread, class "C2E according to EN12004 and S1 according to EN12002 standards"
- 3x3 mm square toothed trowel and 15 mm round toothed trowel
- Frame with suction cups for handling or double suction cups
- Non-bounce plastic mallet 170x370 mm
- Levelling system: base clip + wedge + pliers





Bonding To The Floor

- Ensure that the surface to be covered is solid, flat and free from dust and oil/grease.
- Use the adhesives described above mixed according to the specifications indicated in the technical data sheet of the chosen adhesive.
- Spread the adhesive onto the surface to be covered with a 15 mm round toothed trowel across an area of 5/10 cm more than the dimensions of the slab.
- With the slab in a vertical position on the handling frame, spread the adhesive onto the back of the slab with a 3x3 mm square toothed trowel.
- Using the frame with suction cups, bring the slab into a horizontal position and lay it.
- To guarantee uniform bonding of the slab, the special 170x370 mm non-bounce plastic mallet must be used, tapping from the middle towards the edges so as to remove any air pockets between the back of the slab, the adhesive and the surface to be tiled using the levelling system.

Bonding To The Wall

- Ensure that the surface to be covered is solid, flat and free from dust.
- Cement-based powder adhesive for full spread, class "C2E according to EN12004 and S1 according to EN12002 standards".
- Spread the adhesive onto the surface to be covered with a 15 mm round toothed trowel across an area of 5/10 cm more than the dimensions of the slab.
- With the slab in a vertical position on the handling frame, spread the adhesive onto the back of the slab with a 3x3 mm square toothed trowel.
- Using the handling frame in a vertical position lay the slab.
- Before releasing the slab from the handling frame, ensure that the adhesive will hold it in place.
- To guarantee complete bonding of the slab and eliminate any air, tap from the middle towards the edges using the non-bounce plastic mallet.
- Before bonding the next slab, fix the hidden mechanical hook to the wall with the relevant nails (length 27 mm) using the gas-powered nailing machine.

Ventilated Façade

Maximus Mega Slab – Ventilated Façade Systems

A ventilated façade is a coating system on the outside of a building which leaves a ventilated chamber between the coating (façade) and the building insulation. Considered as the best solution for maximising insulation whilst reducing unwanted condensation or thermal bridge problems, ventilated façades provide excellent thermal-hygrometric solutions.

- Advantages of Ventilated Façade Systems
- Energy Saving – Excellent thermal insulation, reduction in heat/cool dispersal, and less heat absorption in warm climates.
- Technical and Aesthetic Durability – Significant reduction in deterioration due to pollution, does not absorb dust or dirt, easy to clean and maintain and promotes humidity dispersal.
- Healthier Environment – Increased comfort for users and meets all hygiene, health and environmental protection standards.

RAK
CERAMICS

RAK CERAMICS India Pvt. Ltd.
Carnival House, 1st Floor,
Near Dindoshi Fire Station,
Off Gen. A. K. Vaidya Marg,
Malad (East). Mumbai 400097.
Maharashtra. India.
RAKCERAMICS.COM/INDIA
Toll Free: 18001025829

RAKCERAMICS.COM

REF: MAXIMUS BIXBIB 1/2024 V1.0