





A new landmark in the ceramic industry

Landmark Ceramics is an American company, based in Tennessee that has set out to research, manufacture and sell top quality porcelain ceramics in North America, taking advantage of the proven experience of the Gruppo Concorde, an international leader in the sector. Technological innovation, market presence, attention to detail, the welfare of people and the environment, efficient service and a thorough product range make Landmark a new benchmark in the North American market for those who are looking for a reliable partner for any building and architecture project using US made top quality porcelain pavers.

FRONTIER20

__Frontier20 is a line of porcelain pavers that is perfectly suited for the outdoors. The market's demand for a stain proof, slip resistant, chemical resistant, no maintenance product lead to the development of a revolutionary aestheticly superior product that is versitile enough for exteriors as well as interiors. combining the highest level of quality control and technology with state of the art equipment, age old practices have been revitalized to offer a superior Industry leading product. Frontier20 offers a never before seen dimension to your outdoor living area! Please continue to be amazed at extremely realistic natural stone and wood look products.

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LEARN MORE ABOU



20 E THICKNESS PORCELAIN PAVERS

PERFORMANCE, FUNCTIONALITY AND AESTHETICS: ALL IN 20 MM.

__Frontier20 porcelain pavers are inheritantly slip resistant and impervious to chemicals, salt, fading, or scratching.

Free your self from having to commit to yearly sealing practices.

Your Frontier20 will never fade or need sealing!

Simply pressure wash your way to a newly installed look any time you want. Moss and mold also won't be an issue, they too can easily be cleaned off without fear of streaking. The ultra realistic surface of Frontier 20 is physically bound and can not fade or be removed.

Frontier20 is Freedom!

FLOOR DESIGN Frontier20 Modern Grey - 24"x24"









EASY TO KEEP CLEAN

Mild environmentally friendly detergents can be used when cleaning your porcelain pavers.

Pressure washers up to 1500 PSI may be used without fear of etching or striping.



ANTISLIP

The structure and texture of the porcelain paver reduce the risk of slipperiness.



RESISTANT TO MOSS AND MOLDING

Landmark Frontier20 is so dense that mold and mildew are not able to establish them selves in a permanent way making removal very easy and simple.



EASY TO REPLACE AND REMOVE

When not mortared down or installed with adhesive Landmark's Frontier20 can be easily removed and repositioned in a new area.



DRIVE OVER*

When properly installed over concrete, Landmark Frontier20 porcelain pavers are suitable for light residential vehicular traffic.

(*) When installed over reinforced concrete (4" minimum) using a thinset mortar suitable for porcelain paver.







STAIN RESISTANT

Landmark's Frontier20 porcelain pavers are virtually non porous.

Due to the baked on glazing process nothing can be absorbed including stains.



RESISTANT TO THERMAL SHOCK

Landmark's porcelain pavers are baked at temperatures up to 2300 degrees F which in turn causes a very strong molecular bond making for a very dense material. Due to its density it become very inert allowing for extreme and sudden temperature changes in the range of - 60 F +140 F.



SCRATCH RESISTANT

Landmark Frontier20 porcelain pavers are extremely hard with an equally hard surface making them virtually scratch proof.



FADE RESISTANT

Landmarks Frontier20 baked on graphics are created using ingredients that are completely unaffected by the sun ensuring enjoyment of your porcelain paving investment for many years to come.



FROST RESISTANT

Landmark Frontier20 porcelain pavers are so dense that frost and or freezing temperatures do not affect it.



RESISTANT TO SALTS

Landmark Frontier20 porcelain pavers are completly unaffected by use of salts.



RESISTANT TO ACID AND CHEMICALS

Landmark Frontier20 is made with inert ingredients that do not react or accept acids and or chemicals allowing you to make environmentally friendly cleaning decisions!



ECO-FRIENDLY

Landmark Frontier20 porcelain pavers are produced in our environmentally friend complex following the strictest state and federal regulations. Because of Landmarks environment friendly commitment, we can incorporate up to 20% recycled content in our usa made porcelain pavers.



NO SEALING NEEDED

No sealers are needed because Landmark Frontier20 is so dense virtually nothing can stick to it!

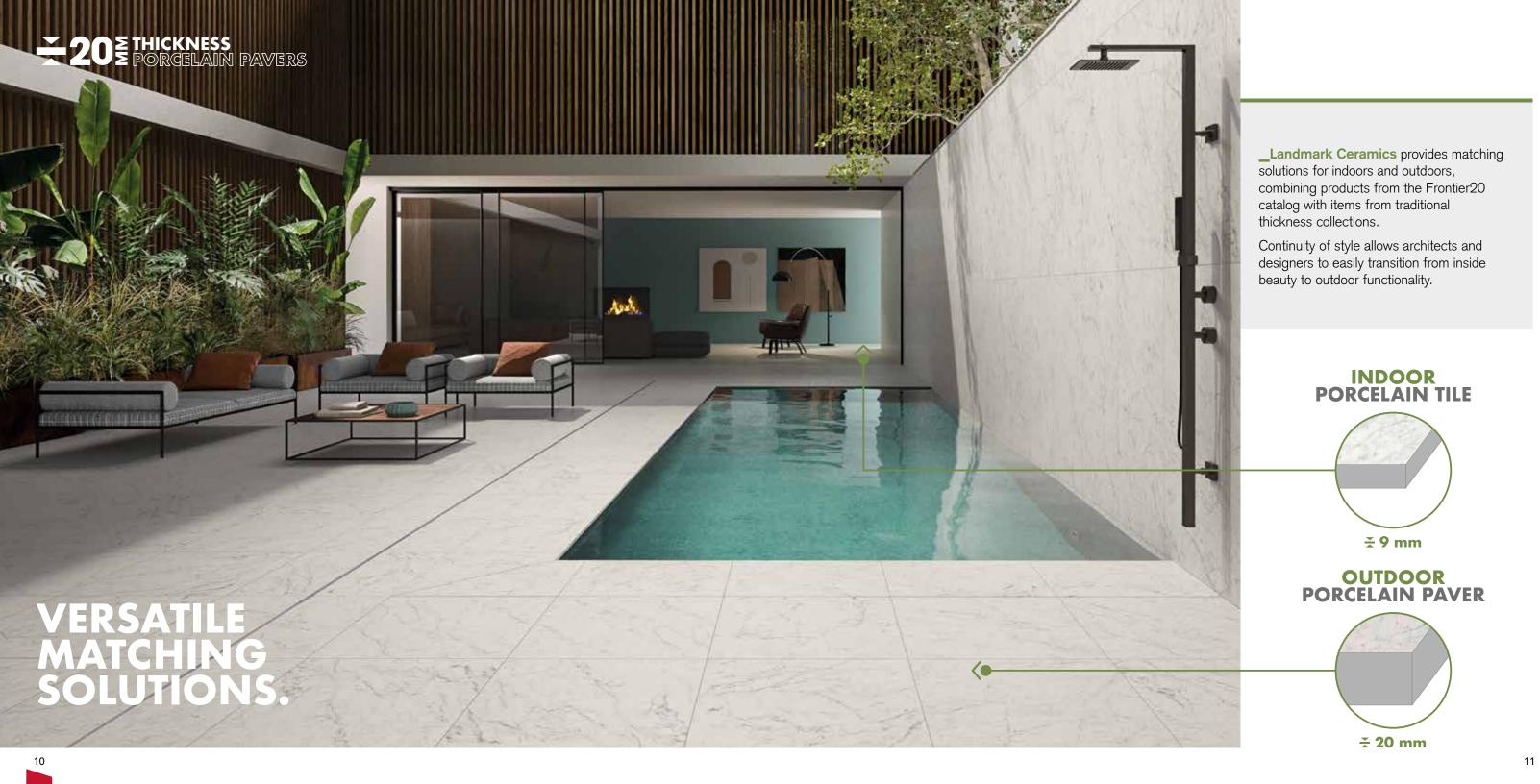


SAVING OVER TIME

Low maintenance cost.

FOR PUBLIC SPACES. FOR RESIDENTIAL. → Public outdoor areas → Walkways → Swimming pools → Driveways → Outdoor restaurants → Courtyards → Outdoor bars → Paths on grass or gravel → Wellness centres → Garages → Urban design → Patios and porches Terraces and balconies → Safety passages → Outdoor pavements → Access ramps and squares → Verandas → Outdoor pools **PROJECT** Frontier20 Travertine Cross Cut Cream - 24"x24" Frontier20 Travertine Cross Cut Cream - 24"x24"





COMPLETE LAYING VERSATILITY.

_The Frontier20 product line is so simply perfect, elegant and functional, that the challenge of installation is not "How can I install Frontier20?" but rather, "Where else do I want to install Frontier20?". Frontier20 may be installed using the traditional mortared bed, the more modern over sand and limestone, to the eco friendly permeable method, or even the budget conscious elevated deck or pedestal application.



DRY LAYING.

A way of laying pavers that allows you to **support plates** directly onto grass, gravel or sand.

1.1 ON GRASS



1.2 ON GRAVEL



01.3 ON SAND



02

INSTALLATION OVER REINFORCED CONCRETE*.

A way of laying pavers that allows you to create **perfectly stable surfaces** of incredible resistance.

* When installed over reinforced concrete (4" minimum) using a thinset/thickset mortar suitable for porcelain paver.



INSTALLATION OVER DECKING.

Traditional deck made with wood and porcelain pavers.



RAISED FLOORS.

Slabs matched with a support structure for raised high-performing floors that also leaves sufficient room for **under-floor inspection**.









DRY LAYING.

_The surface in 20mm thickness can be laid onto the substrate without adhesives, lending itself to applications onto grass, gravel and sand. Sought-after ambiance in the home come to life quickly with incredible ease and simplicity.

ADVANTAGES.

- → RAPID
- → MODIFIABLE
- → REUSABLE
- → EASY TO CARRY THROUGH
- → REDUCES ADHESIVES COSTS
- → QUICK TO INSTALL
- → READY TO USE

LOCATIONS.

- → PRIVATE GARDENS
- → PATIOS
- → WALKWAYS
- → PUBLIC PARKS AND GARDENS
- → OUTDOOR COMMERCIAL AREAS
- → BEACH RESORTS







ON GRASS.

DRY LAY OVER GRASS

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Cut grass in desired area as short as possible. remove any debris.
- → Using a landscape rake scratch up top 1 inch of soil and level.
- → Insure sub grade is graded to a 1" in 10' slope and that it is pitched away from any building.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20MM) PAVERS
- BARE SOIL IS BEST. SCRATCH AND LAYEL WITH A RAKE

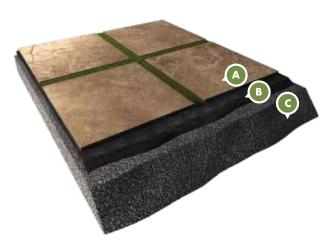
DRY LAY OVER GRASS ON COMPACTED ROAD BASE INSTALLATION

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Compacted base road is composed of ¾ compated gravel.
- Sand bed course poured onto compacted gravel and screed to have smooth surface.



- A FRONTIER20 PORCELAIN ¾" NOMINAL (20 MM) PAVERS.
- 1" SAND BEDDING COURSE SCREED WITH SMOOTH SURFACE
- C COMPACTED ROAD.

PROJECT FLOOR DESIGN Frontier20 Travertine Cross Cut White - 24"x24"

The stratigraphic images are just an example of the type of application and technical features of Frontier20. Landmark Ceramics recommends to refer to the specific norms valid in the various countries to carry out a state-of-the-art installation. Download Landmark Frontier20 Installation guide from https://hardscape.landmarkceramics.com for practical installation information.



ON GRAVEL.

PERMEABLE APPLICATION

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → The required edge restraint system for this installation has a vertical height of 2" (5 cm) as shown in the drawing.
- → Insure that pavement is constructed with a 1" in 10' and that it is pitched away from any building.
- → Insure the ³/₁₆" (4 mm) spacers are installed between all pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B COARSENESS OF GRAVEL 2" 8 S' AND 9 S' (1/2" + LESS)
- COARSENESS OF GRAVEL 4" #57 (3/4")
- COARSENESS OF GRAVEL 6" 3 S'- 4 S'
 IF DESIRED
- **E** FILTER FABRIC

INSTALLATION WITH HIGH DENSITY PANELS

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → The edge restraint system is 0.75 " 1" height profile.
- → Attach the edge restraint into the panel.
- → Lay fabric directly on top of the substrate to contain sand.
- → Install panel onto sand bed course 1".
- → Insure the ³/₁₆" (4 mm) spacers are installed between all pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B SPACERS
- C HIGH DENSITY PANELS
- D SAND 1/2" 1"

- FILTER FABRIC
- 1' INCH PERIPHERAL ANCHOR
- G SUBSTRATE

WARNING.

Please remember that high density panel can reduce the heat dispersion accumulated by pavers exposed to direct sun or any other source of heat. For this reason we recommend to contact landmark ceramics at https://hardscape.landmarkceramics.com/contact.php for any questions you might have.

INSTALLATION WITH GRATE FULFILLED WITH SAND OVER COARSE

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Paver joints have to be swept with polymeric tile sand
- > Please ensure that grate has to be filled with drainable sand
- → Depth of coarse aggregate has to be approximately 50% of traditional excavation vertical extent.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B SPACERS
- C FILTER FABRIC
- GRATE SYSTEM FILLED WITH DRAINABLE SAND
- E COARSE AGGREGATE (67 OR 57)
- 1' INCH PERIPHERAL ANCHOR
- G ADDITIONAL FILTER FABRIC IF NEEDED
- H SUBSTRATE



Insure the plastic 3/16" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.

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ON SAND.

TYPICAL FLEXIBLE BASE INSTALLATION

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Base material is to be over dug 6" to 8" beyond the edge of the pavement.
- → The required edge restraint system is a low profile edge restraint with a vertical height of 1.5"" (4 cm) as shown in the drawing.
- Insure that pavement is constructed with a 1" in 10' slope that it is pitched away from any building.
- → Insure the plastic ³/₁₆" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B 3/4" UNCOMPACTED BEDDING SAND
- c 4-6" CRUSHER RUN/ROAD BASE
- D FILTER FABRIC

OVER SAND BASE INSTALLATION

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Filter fabric is recommended as it allows water to pass but not the particles of sand.
- → 2-4" of a compactable sand is recommended. You can go with more however it will not offer any distinct advantage. Going with less than 2" may offer a less desirable effect as it will tend to hold more water and become "mushy" when super saturated.
- → The use of an edge restraint is ideal but not necessary. It becomes more necessary if your desired paving area is above the surrounding native soil, as it will help aid in the minimization of sand migration or erosion.
- → Insure the plastic ³/₁₆" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B APPROX. 4" OF BEDDING SAND
- C FILTER FABRIC

SAND SET OVER CONCRETE

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → The edge restraint system is 1 ½" 2" height profile.
- → Ensure edge restraint into the concrete base made.
- → Lay fabric directly on top of the concrete to contain sand and fold it up the front of the edging.
- → Insure that pavement is constructed with a 1" in 10' and that it is pitched away from any building.
- → Insure the ³/₁₆" (4 mm) spacers are installed between all pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B SAND BEDDING COURSE 1"
- C FILTER FABRIC

- EXISTING OR NEW CONCRETE 4" MINIMUM
- ½" 1" INCH DRAINAGE HOLES DRILLED 24 INCH ON CENTER
- F PERIPHERAL RESTRAINT SYSTEM



Insure the plastic 3/16" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.

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INSTALLATION OVER REINFORCED CONCRETE*.

ADVANTAGES.

- → LONG TERM DURABILITY
- → READILY ACCESSIBLE SURFACES
- → ABLE TO WITHSTAND PEDESTRIAN AND LIGHT VEHICLURE TRAFFIC

_The Frontier20 may also be installed with tradional methods using thinset/thickset mortar appropriate for use with porcelain paver. In a short 24 hours your floor will be ready for foot traffic. This method offers the most stable and most durable floor covering that is able to withstand foot traffic up to light vehicular traffic.

* It is recommended installation over 4" minimum thick reinforced concrete, using a thinset/thickset mortar suitable for porcelain paver.

LOCATIONS.

- → YARDS
- → PORCHES
- → TERRACES
- → RAMPS
- → GARAGES

- → PARKING AREAS
- → CYCLE TRACKS
- **→ PAVEMENTS**
- → SQUARES





THIN SET MORTAR APPLICATION **OVER REINFORCED CONCRETE**

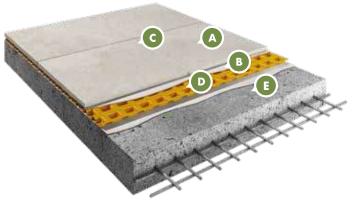
PRACTICAL INSTALLATION

Follow the drawing below.

- → Insure that pavement is constructed with approximately 2 degree slope and that it is sloped away from any building.
- > Please consult your paver supply distributor for thin set mortar suitable for porcelain paver as well as for inside or external usage.
- → For cementitious adhesive and grout installation, refer to the manufacturer's technical instructions and specifically as they relate to outdoor installations.
- → For concrete foundation slabs that are not large enough to require contraction/control joints, a minimum ³/₁₆" (4 mm) grout joint is acceptable, but for larger concrete foundation slabs that do require contraction/control joints, the control joint width should be a 3/8" (1 cm). It is absolutely imperative that all contraction/control joints be located in the joint line of installed porcelain pavers and not beneath a paver.

CAUTION: if a porcelain paver is installed over a control joint, the paver will reflectively crack along the contraction/control joint beneath it.

Utilization of an uncoupling membrane can help minimize the potential issue.



- FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B THINSET
- 3/16" MINIMUM GROUT JOINT
- D UNCOUPLING MEMBRANE
- E EXISTING OR NEW CONCRETE (REINFORCED). 4" MINIMUM

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INSTALLATION OVER DECKING.

Landmark Ceramic's Frontier20 combined with a **grate system** allows porcelain paving to be utilized in conjunction with an existing or new construction **wood deck structure**. As long as the wooden deck structure is constructed soundly and according to local codes, the honeycomb plastic grate is installed as the substrate for the porcelain paver. This system is **highly innovative and functional** for the design of contemporary outdoor spaces.



ADVANTAGES.

- → ANTISLIP FROST RESISTANT
- → RESISTANT TO THERMAL SHOCK
- → SAFETY
- → EASY TO MAINTAIN
- → DURABLE OVER TIME
- → HIGH END LOOK
- → NEVER HAVING TO STAIN DECK BOARDS AGAIN
- → NO SCREW OR NAILS STICKING UP
- → NO WOOD SPLINTERS

LOCATIONS.

- → PRIVATE GARDENS
- → OUTDOOR ELEVATED WALKWAYS
- → DECK PATIOS
- → DECK GAZEBOS



INSTALLATION OVER DECKING

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Deck joists must be "sound" and in good condition as well as constructed in accordance with local codes.
- → Deck joists must be spaced 16" on center.
- → Top of joists bust be flat to one another.
- → Grates will span 2 joists and be fastened using weather proof screws.
- Stagger grates ¹/₃ rd, ¼th or ½ as shown.
- Outdoor fabrics varies in thickness. Multiple layers may be needed to reduce acoustics.
- → The use of porcelain paver spacers are recommended. ¹/₂ th inch joints are the minimum recommendation.
- → Silicon or a neutral colored adhesive may be applied to spacers to help reduce porcelain paver movement.
- → Porcelain paver joints may be filled or left open, depending on desired drainage.
- → Insure the ³/₁₆" (4 mm) spacers are installed between all pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20MM) PAVERS
- B OUTDOOR FABRIC OR SOUND INSULATING MATTRESS
- C HONEYCOMB PLASTIC GRATE
- D DECK JOISTS

Insure the plastic 3/16" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.

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RAISED FLOORS.

ADVANTAGES.

- → LEVEL OFF UNEVEN SURFACES
- → ALLOWS YOU TO HIDE UNSIGHTLY PIPES AND PLANTS WIRES AND ELECTRICAL CONDUIT
- **→** EASY MAINTENANCE
- → ALLOWS FOR WATER DRAINAGE
- → RESISTANT TO THERMAL EXPANSION
- → PROVIDES THERMAL AND ACOUSTIC INSULATION
- → NO NEED FOR ADHESIVES
- → REDUCES LABOUR COSTS

LOCATIONS.

- → PATIOS
- → GAZEBOS
- → FACILITY AREAS OF COMMERCIAL VENUES
- → ROOF TOPS

_In combination with a suitable structure the Frontier20 porcelain paver in 20mm thickness lend themselves perfectly to floors with a **suspended installation**. The adjustable stand means being able to create an air space under the floor in which to lay electrical conduit or plumbing.

The raised flooring system is easy to manage, allows you to configure the underlying wiring or plumbing systems based on specific needs and also to change its configuration any time a new look is needed.



LOW HEIGHT SUPPORTS (UP TO 3/4" - 20 MM) PEDESTAL INSTALLATION OVER EXISTING SUBSTRATE

(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION

Follow the drawing below.

- → Ensure concrete slab is in stable condition and has a 1" in 10' slope to divert water away from structure.
- → Ensure spacer tabs are intact in the corners where the porcelain pavers might come to contact.



- A FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B PEDESTAL
- C EXISTING SLAB OR SUBSTRATE

INSTALLATION OVER LOW HEIGHT SUPPORTS (UP TO 3/4" - 20 MM) PEDESTAL ON CONCRETE (PEDESTRIAN FOOT TRAFFIC)

(== ==,

PRACTICAL INSTALLATION

Follow the drawing below.

- → Make sure the concrete slab is properly built and smooth and has 1 ½ 2 degree pitch and that it is pitched away from any building.
- Plastic 3/4" pedestal support must be placed and installed all corners of the pavers.



- FRONTIER20 PORCELAIN 3/4" NOMINAL (20 MM) PAVERS
- B PEDESTAL
- C CONCRETE BASE
- SUBSTRATE

Insure the plastic 3/16" (4 mm) spacers are installed at all corners of the installed pavers, in order to prevent pavers from touching each other (and potentially chipping) and to allow better water drainage.

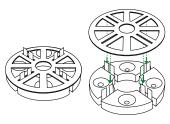
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RAISED FLOORS INSTALLATION SYSTEM.

LOW HEIGHT SUPPORTS.

System made up of disks of variable thickness. Utilize for low height installation (up to 3/4").

	AVAILABLE HEIGHT			
	1/8"	1/4"	1/2"	3/4"
Shim	1/8"			

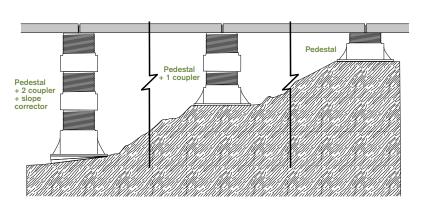




ADJUSTABLE HEIGHT SUPPORTS.

System made up of adjustable height pedestal (from 1 1/4" to 16").

B	AVAILABLE HEIGHT			
	11/4" - 2"	2" - 3"	3" - 43/4"	43/4" - 73/4"
Coupler	add up 4" each			
Slope corrector		0" - 1" per	foot slope	







RAISED FLOORS INSTALLATION SYSTEM.

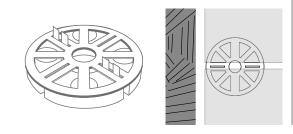


It is recommended to carry out raised installation onto a solid, resistant substrate with the correct inclination to guarantee water drainage. Support come equipped with four spacers that allow for the creation of grout lines between pavers. For a correct installation against walls or corners, it is necessary to keep the supports distant from the wall and remove 2 or 4 spacers as showed in the picture. **Landmark Ceramics** recommends to strictly follow the instructions for the raised installation of Frontier20.

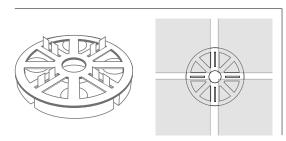
Wall corner



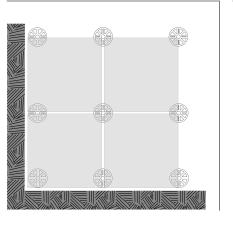
Wall border



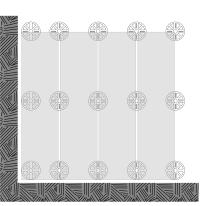
Floor center



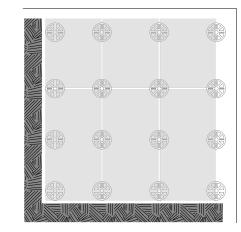
24"x24" - 12"x24" - 12"x12"



12"x48"



18"x36"



RAISED FLOORS INSTALLATION SYSTEM.



WARNINGS.

If the application of the 20 mm slabs requires the ceramic product used in structural installations, the project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs. to prevent the risk of damage or injury, the manufacturer recommends: with regard to a raised floor installation a ceramic slab may fracture on impact if a heavy object falls on it from any significant height. therefore the manufacturer recommends to check the specific intended use before starting the installation and to follow table for raised installation provided below. in certain conditions, reinforcing must be applied on the back of the slabs (double fiberglass mesh) supplied and applied by the manufacturer; with reference to any dry installation system of flooring above the ground level, the manufacturer recommends to comply with local regulations and conditions of use with regard to wind-load, loadbearing, seismic events, etc.

Failure to comply with these recommendations may lead to improper use of the product and could cause serious damage or injury.

For further information and recommendations concerning the installation systems please refer to https://hardscape.landmarkceramics.com website.

SUPPORTS REQUIREMENTS				
	SIZE	UP TO 3/4" (20 MM)	ABOVE 3/4" (20 MM)	
	12"x12" (300x300 mm)	4 supports 0,32 pcs/sq ft	Please contact Landmark Ceramics	
	12"x24" (600x300 mm)	4 supports 0,32 pcs/sq ft	Please contact Landmark Ceramics	
	24"x24" (600x600 mm)	4 supports 0,32 pcs/sq ft	Please contact Landmark Ceramics	
	24"x36" (600x900 mm)	6 supports 0,32 pcs/sq ft	Please contact Landmark Ceramics	
	18"x36" (450x900 mm)	6 supports 0,56 pcs/sq ft	Please contact Landmark Ceramics	
	12"x48" (300x1200 mm)	6 supports 0,65 pcs/sq ft	Please contact Landmark Ceramics	
	24"x48" (600x1200 mm)	6 supports 0,65 pcs/sq ft	Please contact Landmark Ceramics	

NOTE.

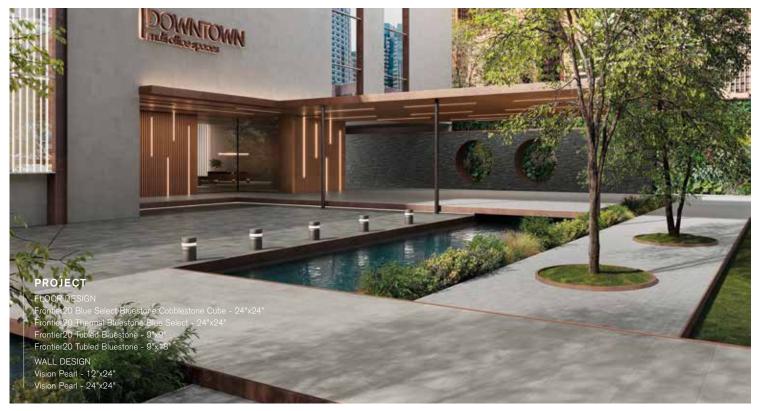
For any detail and technical specification concerning the double fiberglass mesh, please contact Landmark Ceramics. Landmark is responsible only if it supplies the whole system (paver + double fiber mesh). Landmark cannot be held responsible for reinforcing systems that has not supplied. **In case of breakage, paver must be replaced immediately.**

RECOMMENDATIONS FOR THE INSTALLATION, ORDINARY CLEANING AND MAINTENANCE OF FRONTIER20.

Landmark Ceramics recommends carrying out the procedures for the ordinary cleaning of Frontier20 floor surfaces using water and commercially available neutral detergents: the inclination of the surface and the space between adjacent slabs for dry-system installation favour the natural flow of water. However, it is important to take into consideration that any type of floor surface is subject to the surface tension effect of liquids: it is the same property of water that gives the tendency to transform into spherical droplets and which cause the curved top surface of a glass full of water. The surface tension can obstacle the complete drainage of water and cause a temporary stagnation of liquid on the slab edges. In order to avoid this problem, Landmark Ceramics recommends ensuring adequate inclination of the surface during installation so as to encourage the flow of water between adjacent slabs. Please remember in any case that, in view of the distinctive advantages of porcelain stoneware, Frontier20 absorbs practically no water, which makes it highly frost-proof. This may lead to localised water pooling, mainly on the edges of the pavers, independently of the manner and quality of the laying. Laying is also recommended with a minimum gap of 4 mm (5/32"). Should liquid deposit on the surface, it is recommended to push it towards grout lines using a brush or remove it with a wet and dry vacuum cleaner.



Backing with double fiberglass mesh.





TRIM TILES TO LANDSCAPE THE OUTDOORS.

_Frontier20 includes a complete range of special trim pieces to seamlessly complete and accentuate the landscaping of outdoor spaces. The trim tiles represent the ideal solution for the planning of outdoor spaces, commercially or residentially. The special trims feature coordinated aesthetics to match those of the Landmark porcelain paver, for projects that demand total visual continuity.

DESTINATION OF USE.

- → STAIRS
- **→POOLS**
- → WALL COVERS

PROJECT

Frontier20 Silver Quartz - 24"x24"
Frontier20 Silver Quartz Linear Cover Dra
Frontier20 Silver Quartz Coping - 24"x13"

Frontier20 Silver Quartz Stair Tread - 24"x13" Frontier20 Silver Quartz Stair Tread Grip - 24"x13'

Frontier20 Silver Quartz Stair Tread Grip - 24° Frontier20 Silver Quartz Riser - 24″x8″

Frontier20 Silver Quartz Cover - 24"x12"

Frontier20 Silver Quartz End Cover - 24 x 12 Frontier20 Silver Quartz End Cover - 24":





RISER P. 37

LINEAR COVER DRAIN S

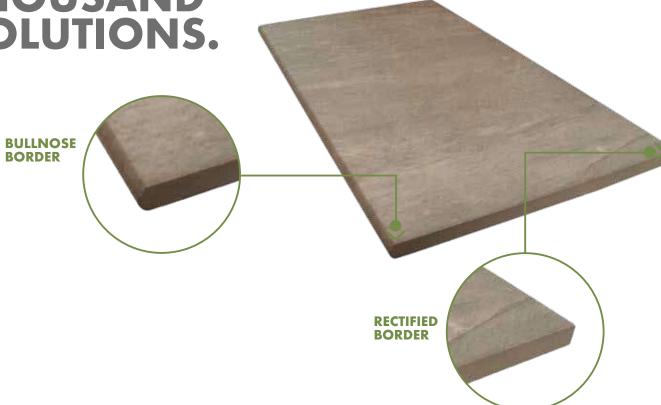
GRIP STAIR TREAD
P. 37



COPING &
STAIR TREAD
MONOLITHIC.
A UNIQUE
PIECE, A
THOUSAND
SOLUTIONS.

__Coping & Stair Tread Monolithic* is processed in order to cater to multiple needs in outdoor design.

Two different border shapes, bullnose (rounded) border and rectified border, in one single piece: freedom for projects with the excellent technical performance of porcelain stoneware.



 Coping & Stair Tread Monolithic is available in the following colors: Barge Gold, Multicolor Gold, Vintage Slab.









DESTINATION OF USE.

- → STAIRS
- → POOLS

_A trim piece offering outstanding versatility, both in terms of look and efficiency. Thanks to its two different border shapes, Coping & Stair Tread Monolithic is suitable both for swimming pool copings and for stairs, in two different versions: with or without grip strips.





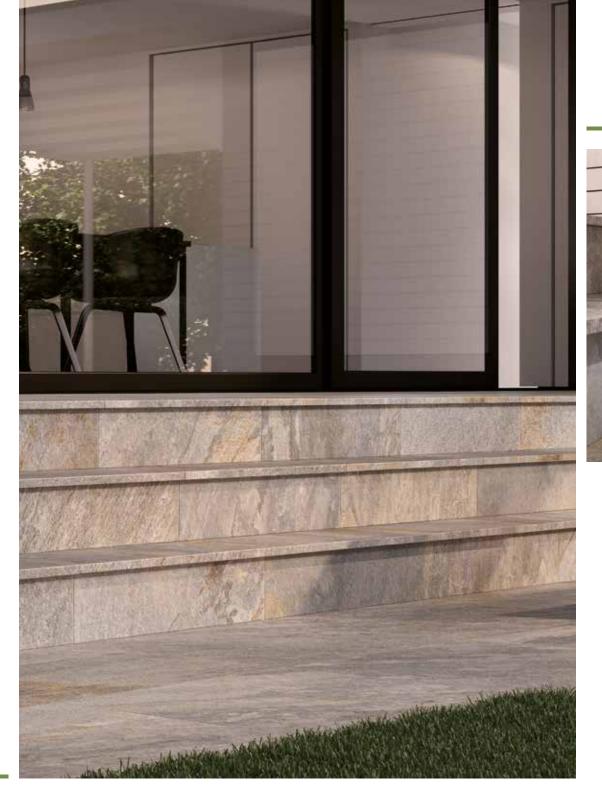
STAIRS WITH AN IN-DEMAND AESTHETIC THAT IS ALSO HIGH PERFORMING.

SYSTEM.

- → STAIR TREAD
- → GRIP STAIR TREAD
- → RISER

ADVANTAGES.

- → RESISTANCE TO SALTS
- → RESISTANCE TO CHEMICALS
- → TECHNICAL PERFORMANCE
- → ANTI-SLIP
- → VISUAL CONTINUITY TO THE OUTDOOR FLOOR







COMFORT AND STYLE FOR SWIMMING POOL AREAS.

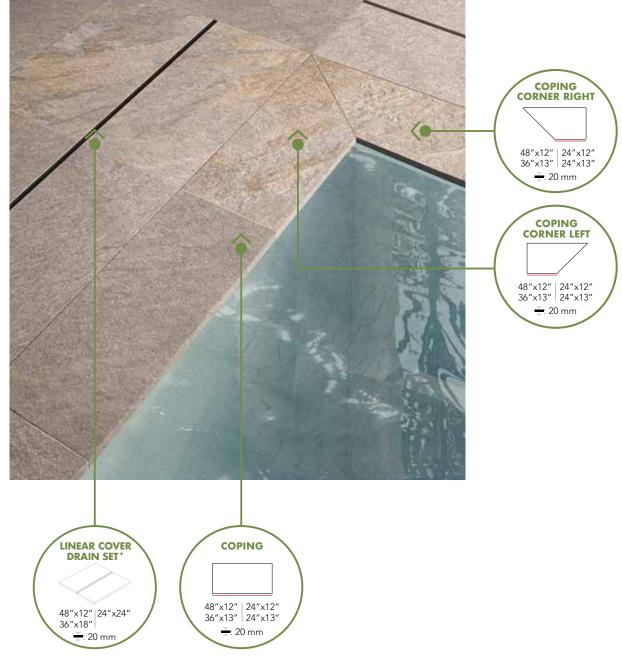
SYSTEM.

- → LINEAR COVER DRAIN SET
- → COPING
- → COPING CORNER

ADVANTAGES.

- → RESISTANCE TO SALTS
- → RESISTANCE TO CHEMICALS
- → ANTI-SLIPPERINESS
- → DURABILITY
- → EASY TO CLEAN
- → VISUAL CONTINUITY TO THE OUTDOOR FLOOR





^{*} The Linear Cover Drain Set is made-up of two pieces, each having a further beveled and polished edge. The two pieces are studied to be laid with the beveled and polished edges facing each other in order to create an open joint. See pages 43, 44, 45 for more details.



WALL COVERS: PROTECTION FROM WATER AND VISUAL CONTINUITY.

SYSTEM.

- → COVER
- → END-COVER

ADVANTAGES.

- → ANTI-DETERIORATION
- → EASY TO CLEAN
- → PROTECTS THE WALL FROM WATER INFILTRATION

COVER* 36"X12" 12"x24" <u>∓</u>: 20 mm **END COVER*** 36"X12" 12"x24" <u>▼</u>: 20 mm **DRIPSTONE**

^{*} Both Cover and End-Cover have dripstone and undecorated borders.

TRIM TILES RANGE 24"x24"

THICKNESS PORCELAIN PAVERS

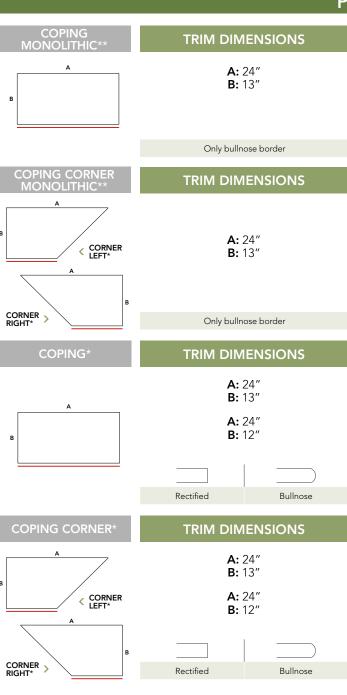
TRIM TILES RANGE 24"x24"

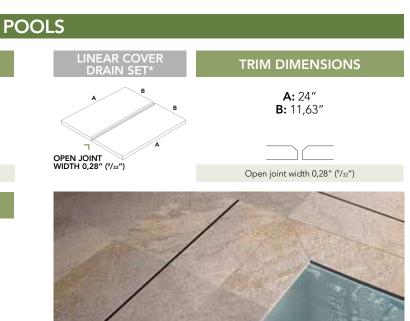


* Available in standard version (with undecorated borders).

Barge Gold, Multicolor Gold, Vintage Slab.

** Monolithic trim pieces (with decorated borders), available in the following colors:







- * Available in standard version (with undecorated borders).
- ** Monolithic trim pieces (with decorated borders), available in the following colors: Barge Gold, Multicolor Gold, Vintage Slab.



STAIR TREAD*

TRIM TILES RANGE 18"x36"

STAIRS TRIM DIMENSIONS **GRIP STAIR TREAD*** TRIM DIMENSIONS **A:** 36" **A:** 36" **B:** 13" **B:** 13"



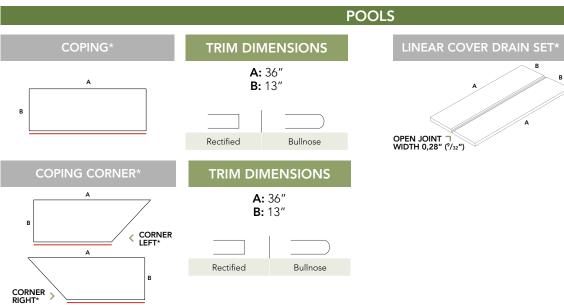


TRIM DIMENSIONS

A: 36"

B: 8,71"

Open joint width 0,28" (9/32")

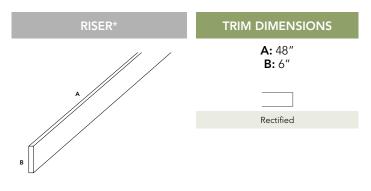


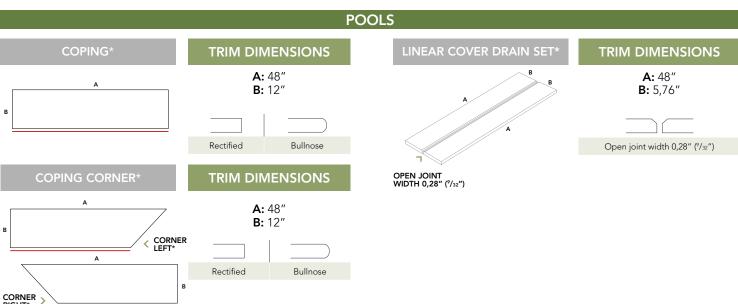


TRIM TILES RANGE 12"x48"









^{*} Available just in standard version (with undecorated borders)



FRONTIER20 **EXTERIOR DESIGN** WITH A DIFFERENT STYLE.



PROJECT

FLOOR DESIGN

Frontier20 Essence Brown - 12"x48" Frontier20 Essence Brown Stair Tread - 12"x48"

Frontier20 Essence Brown Coping Corner - 13"x48" Frontier20 Essence Brown Riser - 6"x48"



_Frontier20 is a complete project for any design need, specially developed by Landmark for contemporary outdoor spaces.

The extent of the range makes it possible to design outdoor environments with looks that are always new, and to play with surfaces inspired by different materials.

- **POPULAR AMERICAN STONES**

PROJECT OUTDOOR FLOOR DESIGN

and providing endless possibilities for

Total Look outdoor projects.

_Frontier20 includes American Stone,

inspired by typical American stones.

a selection of porcelain stoneware surfaces

To this is added the Multi Pattern Design

project, which completes the range with

installation solutions that arise from the

_The Bluestone Design Project is a

prestigious selection of outdoor solutions inspired by the Pennsylvania native bluestone.

A highly versatile, premium collection that has

its roots in a foundational element of American

design and architecture. Redefining traditions

combination of multiple sizes.

new formats for the creation of innovative

Frontier20 Simply Grey - 18"x36" Frontier20 Blue Select Bluestone Cobblestone Cube - 24"x24" INDOOR FLOOR DESIGN

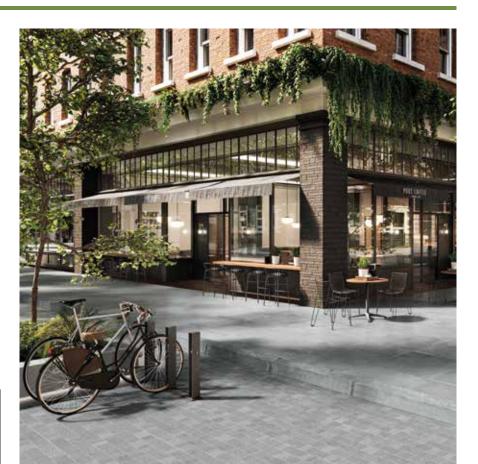
Emotion Soft Dark - 8"x40"

ADVANTAGES.

- → WIDE LOOKS RANGE
- → PRODUCTS INSPIRED BY MUST
- → A WIDE RANGE OF SIZES
- → BLUESTONE DESIGN PROJECT
- → M.P.D. MULTI PATTERN DESIGN PROJECT
- → WIDE CHOICE OF TRIM PIECES



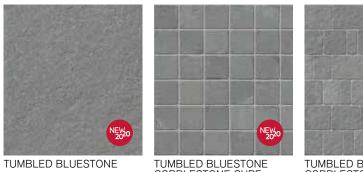
FLOOR DESIGN Frontier20 Silver Quartz - 24"x24"





WIDE LOOKS RANGE.





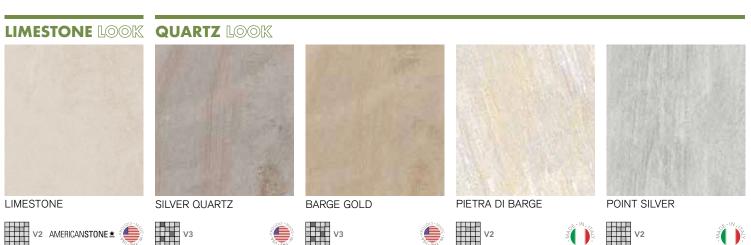
TUMBLED BLUESTONE COBBLESTONE CUBE TUMBLED BLUESTONE COBBLESTONE MULTISIZE V3 AMERICANSTONE ★ ₹ V3 AMERICANSTONE ★ V3 AMERICANSTONE ★













WIDE LOOKS RANGE.







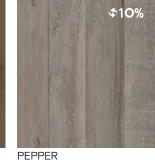


\$10%





WOOD LOOK







WALNUT



V2

V2

P. IN.

STONE LOOK



PIETRA DI BAGNOLO







DESERT





ABSOLUTE



COSMOS



MARBLE LOOK





WOOD LOOK













ESSENCE BROWN





CONCRETE LOOK



SIMPLY GREY















PASSION SILVER







MICHELANGELO EXTRA WHITE







THE AMERICAN SOUL OF THE REAL AMERICAN STONES.



_Frontier20 American Stone is a collection of some of the most regionally popular natural stones from across the nation. Elegant rangy Bluestone from the North East, earth tone tans browns from the desert south west to the classic heartland Cherokee pinks, tans and coffee brown, even the pacific northwest's deep charcoals and grey. The American Stone range also includes prestigious travertine cut against the vein, a stone commonly found in the southwest distinguished by the timeless beauty and appeal of the original material. Naturally inspired color that are rich, sophisticated and bold enough to make a statement yet versatile enough to seamlessly bled your home's interior charm with your outdoor living area.

AMERICANSTONE **★**

__Unlike natural stone, American Stone is uniform in thickness and consistent in size, affording the most in design flexibility and cost saving installation. American Stone is extremely durable, will never fade, impervious to chemicals or salts, can be easily cleaned without harsh chemicals and never needs sealed. Landmark's American Stone is freedom.



FLOOR DESIGN ontier20 Multicolor Dark - 24"x24"







 $\bigcirc 3$

A WIDE RANGE OF DIFFERENT SIZES.

DIFFERENT SIZES, GREATER FREEDOM.









_Frontier20 is characterized by a wide range of sizes from the small 12"x12" and 12"x24" up to the bigger 18"x36" and 24"x48", from the classic 24"x24" to the refined 12"x48" and 16"x48" plank size. Frontier20 ensures freedom in every design project.











5.



BLUESTONE DESIGN PROJECT. REDEFINE TRADITIONS.



_Bluestone Design Project is a premium line inspired by the finest Pennsylvania native bluestone, widely used for prestigious projects all over North America.

A highly versatile outdoor collection with infinite combinations of colors, sizes, trim pieces and finishes, designed to meet the demands of Total Look outdoor projects.

PROJECT

OUTDOOR FLOOR DESIGN
Frontier20 Tumbled Bluestone - 9"x9"
Frontier20 Tumbled Bluestone - 9"x18"
Frontier20 Tumbled Bluestone Cobblestone Multisize - 24"x24"
WALL DESIGN
Vision Concrete - 24"x48"





O4 BLUESTONE DESIGN PROJECT.

HIGH-TIER FINISH.

__The Bluestone Design Project comes with the most refined and prestigious finishes available with the Pennsylvania stone.



THERMAL

The result of a high-grade flaming process, grants the tile its refined, rough-textured surface.



NATURAL (CLEFT)

The traditional, natural split-stone finish, highlights the stone's uniquely layered structure.



TUMBLED

A prestigious finish that lends the surface its distinctive antiqued look, cherished for its rugged yet elegant nature.



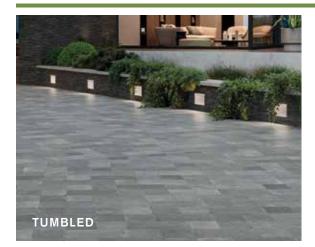
OA BLUESTONE DESIGN PROJECT.

COLORS AND DESIGN.

__The Bluestone Design Project explores the most exceptional and defining traits of the Pennsylvania native bluestone, such as the Blue Select color, known for its uniform and intense gray-blue shade, or the Full Color alternative, where polychromy and dynamic design meet to create an array of combinations. Bluestone Design Project also revisits the prestigious Tumbled design, breathing new life into a historical pattern and the Cobblestone variant, enriched by infinite multicolored nuances.

Bluestone Design Project offers an ample choice of customizable solutions, with options ranging from the standard 24"x24" size to 12"x24", 24"x36", 24"x48", and 12"x12". The antiqued Tumbled finish is available in the 9"x9" and 9"x18" versions, while the Cobblestone model comes in the traditional Cube pattern or in the unique Multisize variant.

Bluestone Design Project presents an ample choice of boundless combinations.









THERMAL BLUESTONE **BLUE SELECT**



BLUESTONE BLUE SELECT

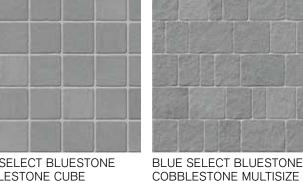


TUMBLED BLUESTONE

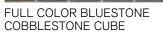
COBBLESTONE CUBE

BLUE SELECT BLUESTONE **COBBLESTONE CUBE**











FULL COLOR BLUESTONE COBBLESTONE MULTISIZE

THERMAL BLUESTONE **FULL COLOR**

BLUESTONE FULL COLOR

₹20 ETHICKNESS PORCELAIN PAVER

M.P.D.

MULTI PATTERN DESIGN

_The Multi Pattern Design (M.P.D.) is a project designed to allow combination of multiple size patterns and therefore develop creative and original outdoor design solutions. M.P.D. project is available in three different versions:

- M.P.D. Big: allows multiple big size patterns made by using 4 formats (24"x48", 24"x36", 24"x24", 12"x24")
- M.P.D. Small: combines 12"x12", 12"x24" and 24"x24" formats to create smaller size patterns.
- M.P.D. Mini: combines 9"x9" and 9"x18" to create refined and precious patterns.

PROJECT

LOOR DESIGN

Frontier20 Blue Stone Blue Select - 12"x24"

Frontier20 Blue Stone Blue Select - 24"x24"

Frontie 00 Bloc Clare Bloc Colore 04"

Frontier20 Blue Stone Blue Select - 24"x48

Frontier20 Blue Stone Blue Select Stair Tread - 24"x13"



M.P.D. MULTI PATTERN DESIGN BIG

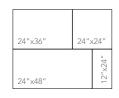
M.P.D. BIG ONE*



Module percentage

 $24'' \times 48'' = 40\%$ 24"x24" = 20%

24"x36" + 12"x24" (MIX) = 40% **



* Modular products with 4 mm joint (approx 5/32").

The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

Available colors

Blue Select Full color Pink-Tan



M.P.D. BIG TWO*



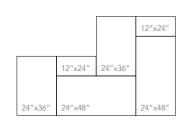
Available colors

Blue Select Full color Pink-Tan

Module percentage

24"x48" = 50% $24'' \times 24'' = 0\%$

24"x36" + 12"x24" (MIX) = 50% **



^{*} Modular products with 4 mm joint (approx 5/32").

** NOTE
The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet
containing the correct percentages of each size.





M.P.D. MULTI PATTERN DESIGN BIG

M.P.D. BIG THREE*



Module percentage

24"x48" = 40% $24'' \times 24'' = 20\%$ 24"x36" + 12"x24" (MIX) = 40% **



* Modular products with 4 mm joint (approx 5/32").

The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

Available colors

Blue Select Full color Pink-Tan



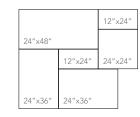
M.P.D. BIG FOUR*



Module percentage

24"x48" = 28.6% 24"x24" = 14.3%

24"x36" + 12"x24" (MIX) = 57.1% **



^{*} Modular products with 4 mm joint (approx 5/32").

The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

Available colors







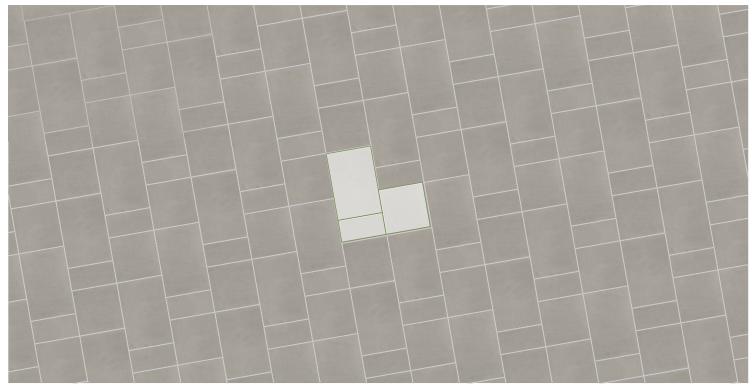
Blue Select Full color Pink-Tan





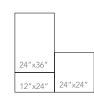
M.P.D. MULTI PATTERN DESIGN BIG

M.P.D. BIG FIVE*



Module percentage

12"x24" = 17% 24"x24" = 33% 24"x36" = 50%



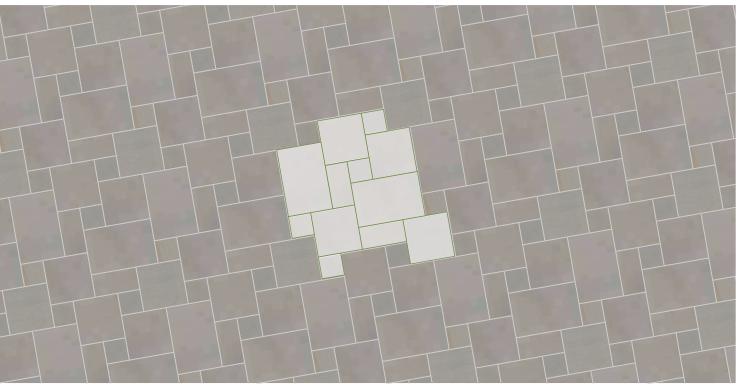
Available colors





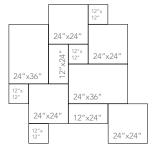
Thermal Thermal Bluestone Bluestone Blue Select Full Color

M.P.D. BIG SIX*



Module percentage

12"x12" = 11% 24"x24" = 45% 12"x24" = 11% 24"x36" = 33%



Available colors



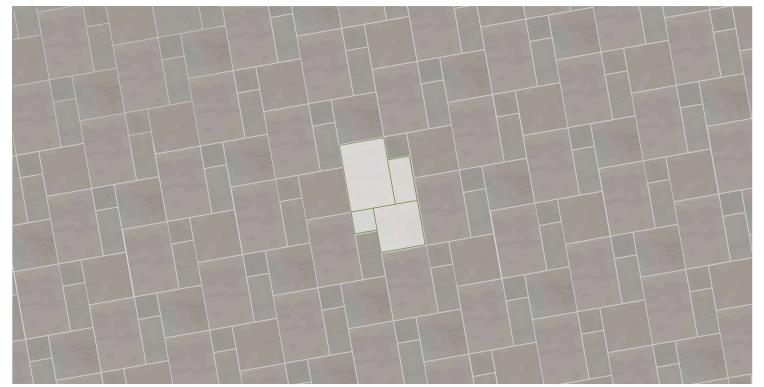


Thermal
Bluestone
Blue Select
Full Color



M.P.D. MULTI PATTERN DESIGN BIG

M.P.D. BIG SEVEN*



Module percentage

12"x12" = 8% 12"x24" = 15% 24"x24" = 31% 24"x36" = 46%



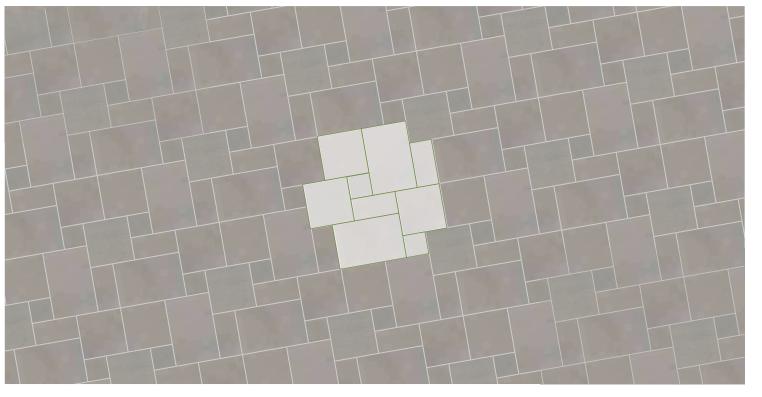
Available colors





Thermal
Bluestone
Blue Select
Full Color

M.P.D. BIG EIGHT*



Module percentage

12"x12" = 7% 24"x24" = 40% 12"x24" = 13% 24"x36" = 40%



Available colors



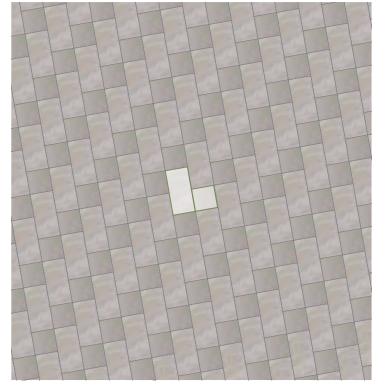


Thermal
Bluestone
Blue Select
Thermal
Bluestone
Blue Select



M.P.D. MULTI PATTERN DESIGN SMALL

M.P.D. SMALL ONE*



Module percentage 12"x24" = 67% 12"x12" = 33%



Available colors

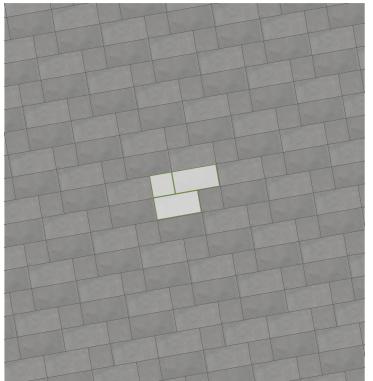






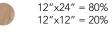
Thermal Thermal Bluestone Bluestone Blue Select Full Color

M.P.D. SMALL TWO*



Module percentage







Available colors









Bluestone Bluestone Blue Select Full Color

M.P.D. SMALL THREE*



Module percentage

 $24'' \times 24'' = 50\%$ $12" \times 24" = 50\%$



Available colors

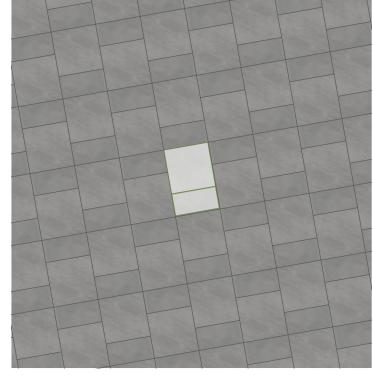






Bluestone Bluestone Blue Select Full Color

M.P.D. SMALL FOUR*



Module percentage





Available colors











Bluestone Bluestone Blue Select Full Color

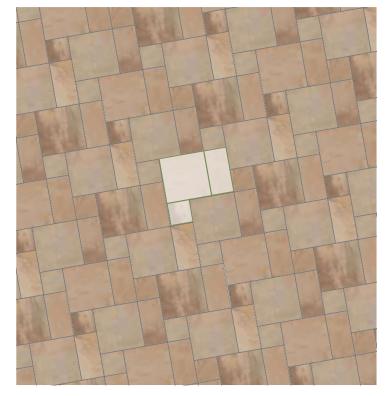
^{*} Modular products with 4 mm joint (approx 5/32").

^{*} Modular products with 4 mm joint (approx 5/32").

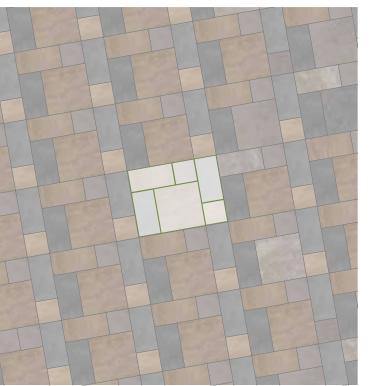


M.P.D. MULTI PATTERN DESIGN SMALL

M.P.D. SMALL FIVE*



M.P.D. SMALL SIX*



Module percentage

12"x12" = 14% 12"x24" = 29% $24'' \times 24'' = 57\%$









Bluestone Bluestone Blue Select Full Color

Available colors





Module percentage

12"x12" = 17%

12"x24" = 50%

24"x24" = 33%

Available colors





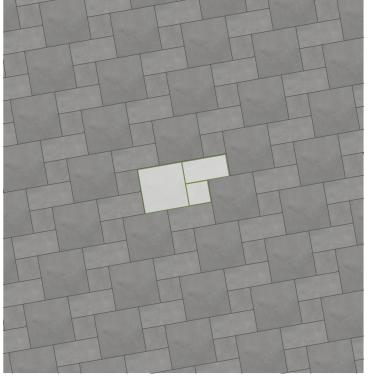






Bluestone Bluestone Blue Select Full Color

M.P.D. SMALL SEVEN*



Module percentage

12"x12" = 14% $12" \times 24" = 29\%$ 24"x24" = 57%



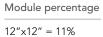
Available colors







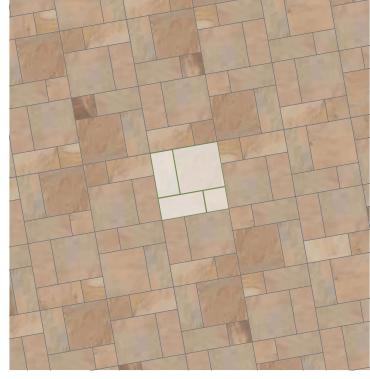




12"x24" = 45% 24"x24" = 44%



M.P.D. SMALL EIGHT*



Available colors











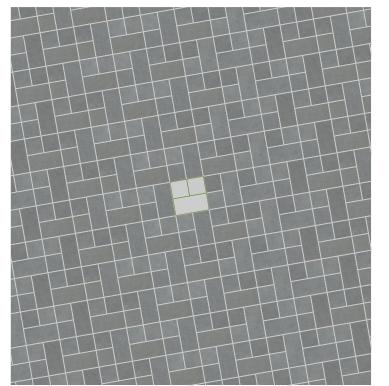
Bluestone Bluestone Blue Select Full Color

^{*} Modular products with 4 mm joint (approx 5/32").

^{*} Modular products with 4 mm joint (approx 5/32").

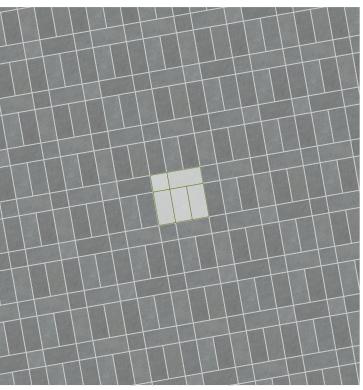
M.P.D. MULTI PATTERN DESIGN MINI

M.P.D. MINI ONE*



Available colors

Tumbled Bluestone M.P.D. MINI TWO*



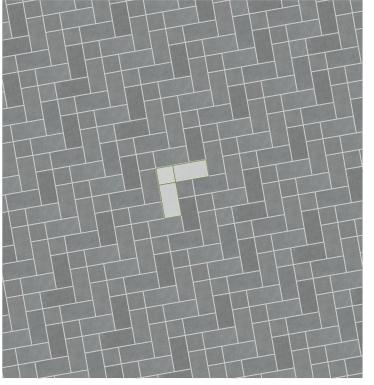
Module percentage

9"x9" = 11% 9"x18" = 89%

Available colors



Tumbled Bluestone M.P.D. MINI THREE*

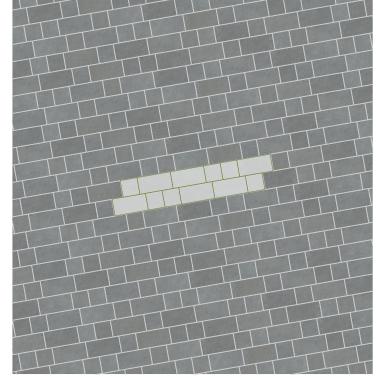


Module percentage

9"x9" = 20% 9"x18" = 80%

9"x 9" 9"x18"

M.P.D. MINI FOUR*



Available colors

Tumbled Bluestone Module percentage

9"x9" = 33% 9"x18" = 67%

Available colors



Tumbled Bluestone

Module percentage

9''x9'' = 50%

9"x18" = 50%

^{*} Modular products with 4 mm joint (approx 5/32").

^{*} Modular products with 4 mm joint (approx 5/32").

AMERICANSTONE **★**

AMERICANSTONE **★**

20 E THICKNESS PORCELAIN PAVERS

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

BLUESTONE DESIGN PROJECT



Available sizes Color sh

24"x24" 12"x12" ±0.8" ±0.8" 24"x36" Color shading

BLUESTONE BLUE SELECT

AMERICANSTONE *

One of the second second



BLUESTONE DESIGN PROJECT
BLUE SELECT BLUESTONE
COBBLESTONE CUBE

AMERICANSTO



ailable size Co



Color shading



BLUE SELECT BLUESTONE COBBLESTONE MULTISIZE

AMERICANSTONE *



Available size

24"×24"

Color shading



The color of pavers printed in this catalog may differ from actual pavers. Paver color reproductions in this catalog are representative only. Slight tone and shade variations are inherent in porcelain pavers. Before selecting a color, we recommend that you contact your local representative, who will provide you with a sample piece of the requested paver.

This porcelain paver product is manufactured with a V2 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.





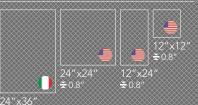




BLUESTONE DESIGN PROJECT



Available sizes



Color shading







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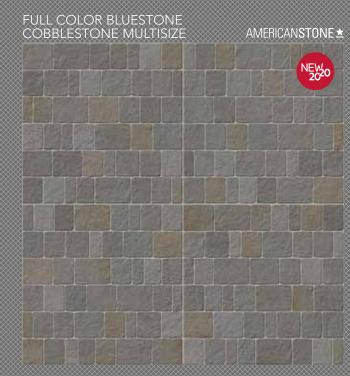
This porcelain paver product is manufactured with a V3/V4 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.

BLUESTONE DESIGN PROJECT





V3





V3











AMERICANSTONE **★**

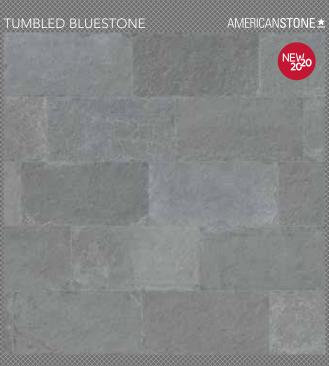
V3

AMERICANSTONE ★

₹20 ₹ THICKNESS PORCELAIN PAVERS

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

BLUESTONE DESIGN PROJECT



Color shading

V3

TUMBLED BLUESTONE COBBLESTONE CUBE AMERICANSTONE *







AMERICANSTONE ±



BLUESTONE DESIGN PROJECT

Color shading



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This porcelain paver product is manufactured with a V3 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.









V3

\$10%

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

FLAGSTONE LOOK



Available sizes

Color shading

V4

12"x12"

24"x24"

24"x36"

24"x36"

24"x36"

Available size

Available size

AMERICANSTONE

AMERICANSTONE

Color shading

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AMERICANSTONE **★**

V3

\$10%

AMERICANSTONE **★**

20 E THICKNESS PORCELAIN PAVERS

SLATE LOOK



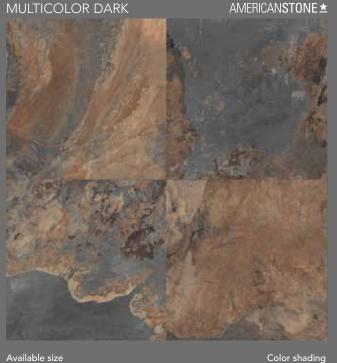
Available size



Color shading



\$10%



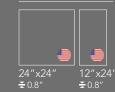
Available size



SLATE LOOK



Available sizes



Color shading

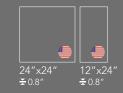




LIMESTONE LOOK



Available sizes



Color shading



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This porcelain paver product is manufactured with a V2/V3 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.









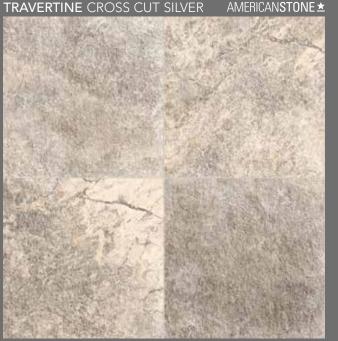
AMERICANSTONE **★**

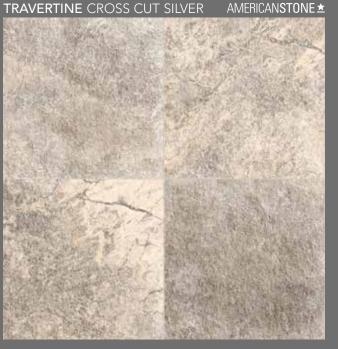
COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

TRAVERTINE LOOK

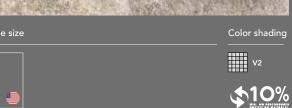


Available size Color shading V2

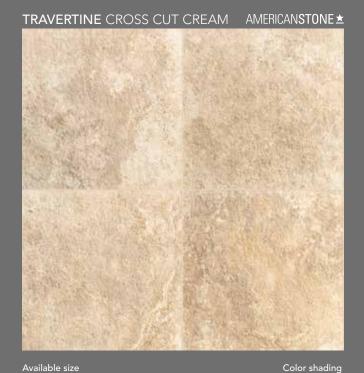




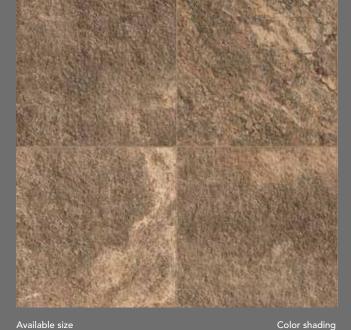
Available size



TRAVERTINE LOOK



Available size



TRAVERTINE CROSS CUT NOCE

Available size

V2

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V2

CONCRETE LOOK

SIMPLY GREY



Available sizes



Color shading



\$10% WILL OUR PRECIONAL

WARM SAND



Available size



24"x24" ₹0.8″



Color shading



CONCRETE LOOK

FREEDOM WHITE



Available size



Color shading



PASSION SILVER



Available size



Color shading



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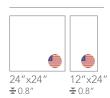


QUARTZ LOOK

BARGE GOLD



Available sizes



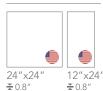


Color shading

SILVER QUARTZ



Available sizes



Color shading

V3



₹ 0.8"

MARBLE LOOK

MICHELANGELO EXTRA WHITE



Available size



Color shading



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STONE LOOK



Available size



24"x24" ₹ 0.8"

DESERT



Color shading

V2



Available size

24"x24" ₹0.8″

Color shading



STONE LOOK

ABSOLUTE



Available size



Color shading





COSMOS



Available size



24"x24" ₹0.8″

Color shading





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STONE LOOK

NATURAL IVORY



Available size





Color shading

V2



Available size

MODERN GREY





Color shading

WOOD LOOK



Available size





PEPPER



Available size



V3

Color shading

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Color Shading









V3

\$10% HILL ON AN ASSAULUME

₹20 ETHICKNESS

101

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

WOOD LOOK

ESSENCE GREY



Color shading

Available size

12"x48"

₹0.8″



ESSENCE BROWN



Available size

12"x48" \$0.8"

Color shading

V2

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WOOD LOOK

SOUL WALNUT



Available size



Color shading



SOUL GREY



Color Shading









FRONTIER20

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

STONE LOOK

PIETRA DI BAGNOLO



Available size



18"x36" **₹**0.8″

Color shading



TRAVERTINE LOOK

SOURCE BEIGE



Available size



18"x36" **₹**0.8″

Color shading



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QUARTZ LOOK

PIETRA DI BARGE



Available size



18"x36" **₹**0.8″

Color shading



POINT SILVER



Available size



18"x36" ₹0.8″

Color shading











INSTALLATION INFORMATION AND RECOMMENDATIONS.



INSTALLATION INFORMATION AND RECOMMENDATIONS.

Specific details and instructions are given for each of the following installation options. Different climates and geographical locations will affect the thickness of the base. Depending on the location, contractors will install the standard base thickness to install porcelain pavers for the needs of the area. When installing porcelain pavers, the bedding course sand must be pre-compacted and then struck off with a screed to the required thickness as shown in the drawings. Before the laying of the porcelain pavers, the sand layer underneath must be pre-compacted. The sand layer needs a 5 to 6% moisture content to insure a smooth strike off finish.

Compacting dry sand will not give the desired results.

- → Only use a paver saw with a wet cut porcelain blade to wet cut porcelain pavers.
- → Before installing your porcelain pavers in sand set installations, pre-compact and strike off your sand leveling course.
- → Plastic ³/₁₆" (4 mm) spacers must always be used to install pavers on sand set and permeable installations. The photo on the right illustrates the use of the ³/₁₆" spacer to support and space the 4 paver corners.
- → Never install pavers with porcelain to porcelain contact.
- → The use of plate compactors is not recommended to be used on the porcelain pavers.

JOINT FILLING

When installing porcelain paver on sand set base, fill the 4 mm (approx $\frac{3}{16}$ ") paver joints with these options:

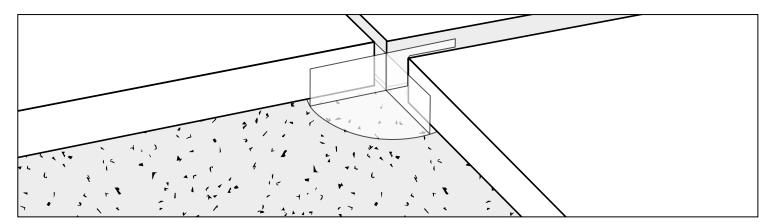
Traditional sand

Fill the open joints with traditional dry sand until completely filled. Sweep any excess sand off the pavers. Refilling of the joints with sand may be needed in the future due to wind and rain erosion.

Polymeric sand

Polymeric sand is a blend of polymers which harden when subjected to moisture. Sweep the sand into the open joints until completely filled. All excess sand and dust must be swept from the surface. Use a blower for the final dust removal to make certain all excess sand is removed. Any residual sand or dust can result in staining of the surface.

Once the filling of the joints and the cleaning of the surface is complete, mist the pavement with water which activates the polymer and cures the mixture.



HANDLING AND SPECIALTY TOOLS.

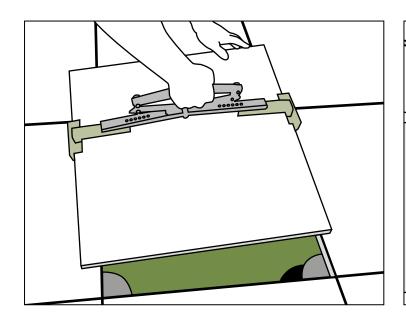
Porcelain paver pallets are shipped with a very strong plastic covering and the individual units are packaged in protective cardboard boxes. The protective cardboard boxes guard them from the possibility of chipping.

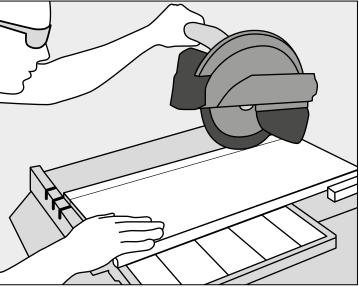
The handling of multiple loose stones can result in damaging or chipping of the pavers. Protect any un-used boxed pavers from the elements once the plastic shipping cover is removed.

This insures the integrity of the protective cardboard boxes.

Wet cut paver saw is used to cut paver accurately and cleanly to fit around edges and corners. The saw must be equipped with a diamond blade manufactured for wet cutting porcelain and designed to safely cut a 24" (60 cm) length porcelain paver.

A paver clamp to easily handle the installation and removal of pavers. Gloves are highly recommended while handling and installing porcelain slabs to protect the hands from injury. Notched trowels and grout float tools for cementitious adhesive and grout Installation. Follow the adhesive and grout manufacturer's recommendations to select the appropriate tools needed for application.





IMPORTANT NOTE: LEGAL DISCLAIMER

The nominal measurements include 4 mm (approx $^3/_{16}$ ") for product spacers which are sold separately. Although extreme care has been taken to ensure the accuracy of all measurements set forth herein, manufacturer assumes no liability relating thereto.

IMPORIANT NOTE

- 1. Use the manufacturer's instructions when choosing polymeric sand for your project.
- 2. The use of cement blended sand and polymeric sand can reduce plant growth and insect infiltration within the joint infill material
- Whether using traditional sand or a cemented blended sand, ensure the gradation of the sand is fine enough to pass through and fill the ³/₁₆" (4 mm) joints.

PORCELAIN PAVERS CUTTING GUIDE



LINEAR CUT.

The videos linked below show how to properly cut thick porcelain pavers (porcelain tiles with 20 mm thickness) currently used for outdoor installations. Cutting these porcelain thick pavers is very different than cutting standard thickness tiles. The extreme hardness of the material, combined with its thickness, are the main factors that will put cutting tools to the test. Based on the experience of many professional tile installers, what often happens is that the basic blades make one or two good cuts on very thick tiles and then lose their cutting power. This causes the diamond blade to be so ruined that it can't even be recovered with common abrasive stones. Many tile and brick installers have found a first solution for this: using segmented blades to cut these thicker tiles. These are more aggressive blades that easily cut this type of ceramics leaving though a very poor cutting finish. There is then the need to spend time after each cut to finish the cut edge of the tile, especially if it is going to be laid in a position that leaves that edge visible after installation. It is important that the cut is made using a professional wet saw cutting machine and that is it made by pushing (or pulling, depending on how the cutting saw is built) the blade parallel to the plane from the beginning of the cut, applying a horizontal force (figure 1 and 2) to the trolley while avoiding to push (or pull) with excessive force. Please note that the cut has to be performed at once with one passage. It is very important to pull down the blade without touching the tile and then pull/push the disc to cut the entire paver all at once.





FIGURE 1 FIGURE 2

It is not recommended (figure 3) to carry out the cut by applying a force perpendicular to the side of the cutting plane (basically pushing down the saw into the tile). In fact, performing a vertical cut could affect the internal tensions of the product and lead to tile breakage.



FIGURE 3

Another cutting method consists in making a groove about 2 / 3mm deep (figure 4) by applying a very light force perpendicular to the paver surface first and then making the final cut at once with one passage, as above reported in figure 1 and 2.



FIGURE 4

In both cases, it is always recommended to use high quality disc blades and to perform the revitalization operations of the latter whenever necessary to achieve a proper cut.

Landmark Ceramics recommends using a high quality blade specific for porcelain and revive it often. By using a low quality blade, or a blade not specifically made for porcelain, it might need to be revived 2 or even 3 times during the same cut. This can lead to extra costs related to the use of many diamond abrasive stones or, even worse, it can significantly increase the likelihood of breaking the paver during the cutting process.

During cutting, Landmark Ceramics always recommends the use of abundant water before, during, and after the cutting phases to minimize the presence or dispersion of ceramic powder and to cool down the blade.

Once the cut has been completed, Landmark Ceramics recommends to clean the newly cut surface with water, in order to remove all the dust from the paver created by the cutting operation.

Please find below some links to videos of 20 mm porcelain pavers cutting:

https://www.youtube.com/watch?time_continue=2&v=rCK48yu8qV4

https://www.youtube.com/watch?time_continue=3&v=A231KShJnww

https://www.youtube.com/watch?v=G6FVJz08ajA

https://www.youtube.com/watch?v=FSMNtwxiLRI

PORCELAIN PAVERS CUTTING GUIDE



DRILLING HOLES WITH CORE BITS.

The creation of holes in traditional 9 / 10mm thick porcelain tile is a common practice, but it is very delicate and requires experience and technique. This is even more true for 20mm thick porcelain paver, being this particular tile thicker and more resistant.

To carry out this specific cut, it is recommended to use drills or grinders together with high quality core bits for porcelain tile and paver. The use of low quality core bits could cause numerous breakages, together with an extremely accelerated wear of the tool due to the resistance of the 20mm porcelain stoneware. First of all, it is suggested to place the tile on a rigid support that absorbs the vibrations generated by the work (for example a panel of wood or regenerated rubber on a wooden panel).

After positioning the drill with the core bit in the desired position (remember to check that the drill is not in hammer mode) it is crucial to mark the exact point with a pencil, then proceed to place the core bit by tilting it slightly on the paver (figure 5).





FIGURE 6

Do not place the core bit perpendicularly (figure 6) to the paver surface as it could lead to the breakage of the paver itself.

Once the core bit is in place and already moving, gently (and without pushing too much) make a continual and constant oscillatory movement until the hole from top to bottom thorough the paver is complete (figure 5).

Landmark Ceramics recommendation is to use a high quality core bit specific for porcelain.

By using a low quality core bit, or a core bit not specific for porcelain, the likelihood of breaking the paver during drilling operation could increase. During drilling, Landmark Ceramics always recommends the use of abundant water before, during, and after the drilling phase to minimize the presence or dispersion of ceramic powder and to cool down the cutter.

Once the hole has been made, Landmark Ceramics recommends to clean the hole with water, in order to remove all the dust from the surface of the paver created by the drilling.

It is also possible, whenever needed, to adjust the shape of the hole created with specific tools that soften the cut made by milling eventual sharp/ irregular edges of the hole.

These tools are always made with artificial diamonds and should be specific for porcelain tiles and pavers.

Please find below a link to a video of 20 mm porcelain pavers drilling: https://www.youtube.com/watch?v=SVwzk894gdl

GENERAL RECOMMENDATIONS.

Landmark Ceramics recommends using high quality tools and blades, specifically designed for porcelain. This is because 20mm thick porcelain is very strong and compact and does not behave, during cutting and drilling operations, like traditional thickness porcelain.

During cutting and/or drilling, Landmark Ceramics always recommends the use of abundant water before, during and after the drilling phases to minimize the presence or dispersion of ceramic powder and to cool the blade/core bit.

Landmark Ceramics also recommends to use certified wet or suction tools to reduce and minimize the dispersion of ceramic powder.

Once the necessary operations are finished, it is very important to clean the surface of the tile from the dust to prevent it from being trapped by the filler needed for the joints.

Landmark Ceramics always recommends the use of safety glasses, mask, gloves and steel toe shoes.

CLEANING INFORMATION FOR PORCELAIN PAVERS INSTALLED OVER CONCRETE

FIRST FLOOR DEEP CLEANING AFTER INSTALLATION OVER CONCRETE

After Grouting the Joints (pic. 1) It is important to remove the excess grout with a sponge and clear water (pic. 2). After 12/48 hours, the grout in the joints will have "set up" /hardened significantly. There will be a noticeable residual "haze". Typically, a diluted acid cleaner specifically for removing "Grout Haze", combined with a soft scrubbing pad will remove the majority if not all the "Haze". Change your acid/water solution frequently for best results. It is also recommended to keep a bucket of clean water to remove the acid/water solution. It is recommended to keep and use clean dry towels to help remove as much residual water and keep the floor as dry as possible.

Please refer to the cleaning chemical company's suggested methods and dilution rates. (pic. 3). For areas with excess grout or grout that becomes adhered to the face of the tile, further cleaning with an Acid/ Water Solution may be necessary. Please refer to the Cleaning Chemical Company's instructions as not all acids or chemicals are the same.

The excess grout residue (pic. 4-5) must be removed so that it does not dry and stick on the surface. It is necessary to change the cleaning water frequently and rinse well. Care must be taken on inlayed, polished and especially Anti Slip products similar to Frontier20. The use of a floor-washing machine combined with the use of a diluted acid detergent helps reach the spaces between adjacent tiles and clean them properly. If such a cleaning procedure is not carried out, or if such cleaning is carried out too late, the grout residue creates an absorbent film, which holds dirt, making the surface difficult to clean: in this case, Landmark Ceramics will not be liable for any damage caused to the surface.

ORDINARY CLEANING

Ordinary maintenance must be carried out using specialized detergents to remove stains but these detergents must not leave a wax, film or membrane residue. Rinsing well with plenty of clean water is a fundamental part of the cleaning procedure, therefore we advise against the use of products which state that they "do not need rinsing".

OTHER RECOMMENDATIONS

Bright colored products, in particular white and extra-white tiles, are very delicate and, although

for all intent and purpose are hygienically clean, However, they can get dirthy more easily than darker tiles. It is therefore necessary to remember that these particular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our Frontier20 Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery. Also because Porcelain has such a low absorption the sealer will unlikely stick and most likely the sealer will flake off over time.



PIC 1. Fill joint with grout.



PIC 2. Remove excess grout with clean water.



PIC 3. Add specific acid cleaning agent for porcelain tile to clean water.



PIC 4. First floor deep cleaning PIC 5. Removal of excess grout after 12/48 h from installation.



residues with hard brush.

CLEANING AGENTS



TYPE OF STAIN	SOLUTION	DETERGENTS	MANUFACTURER			
		INORGANIC STAINS				
Cement		DETERGE	DETERGENT WITH AN ACID BASIS *			
Carbon Calcium Efflorescence Chalk Metallic residues Rust Cement-based grout Colored grout Wall paint	Acid	DETERDEK or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com			
		KERANET (liquid) or similar	MAPEI Americas Headquarters 1144 E. Newport Center Drive Deerfield Beach, Florida 33442			
		ORGANIC STAINS				
		LIMITED	LIMITED FOAM TYPE PRODUCT **			
Coca Cola Ice Cream Coffee Wine Beer Animal fats Vegetable fats Mustard Mayonnaise Ketchup Jam Linseed oil Lipstick Wax	Alkaline and neutral	PS87 or similar	UNITED STATES > Fila Chemicals USA, Corp. 10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com			
		FILACLEANER or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com			
		Ammonium	Universal			
RESIDUAL RINGS of organic nature	Saline solution	Sodium hypochloride (bleach for white laundry)	Universal			
Silicone oils Machine Oil Resins and glazes		FILASOLV or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com			
Coal and natural rubber Encres et feutres		Aceton	Universal			
		NITRO - THINNER	Universal			
		TURPENTINE	Universal			
		TRICHLORETHYLENE	Universal			
Tire		CIF AMMONIACAL	Universal			
		HAND CLEANSER	Universal			

N.B. When using the above products, the instructions on the package should be followed.

Silicone and chewin-gum

Ice+scraper

Detergent with an acid base: a detergent with an acid basis, specifically recommended after bath floor or wall installation, for the decalcioficant cleaning and the regular maintenance.

[&]quot; Limited foam type product: a limited foam type product degreasing and general cleaning, suitable for all types of stains but especially for remove of vegetable and animals fats.



PERFORMANCE COMPARISON PORCELAIN PAVERS VS. COMPETITOR OUTDOOR PAVING MATERIALS

FEATURES	LANDMARK FRONTIER20 PORCELAIN PAVERS	WOOD PAVERS	CLAY BRICK	CIP (CAST IN PLACE) CONCRETE	CONCRETE PAVERS	NATURAL STONE
Stainable	No	Yes	Yes (Highly)	Yes	Yes	Yes (Highly)
Freeze Thaw Proof	Yes	No	No	No	No	No
Salt Resistant	Yes	No	Salt Will Degrade	No	No	No
Acid Resistant	Yes	No	Acid Will Burn	No	No	No
Scratch Resistant	Highly	No	Somewhat	No	No	No
Moisture Absorption	< 0,5%	Highly Varried	5%	5%	5-10%	>= 5%
Easy To Repair	Yes	Yes	No	Can Not	No	No
Uv Resistant	Unaffected	No	Yes	If Sealed	Yes/No	Unaffected
Needs Sealed	Never	Yes	Recommended	Recommended	Recommended	Recommended
Pressure Washer Safe	> 1500 PSI	No	Not Recommended	> 1500 PSI	No	No
Environmentally Friendly	Facility 98% Green	Many Exotic Rainforest Species	No	Large Carbon Foot Print	Possible Fly Ash Content	Mined Or Imported
Recycled Content	20% In Each Paver	No	Not Possible	Not Possible	If Possible Less Than 5%	Not Possible

PAVER PERFORMANCE DATA

PHYSICAL PROPERTIES	TEST ASTM	NORTH AMERICAN STANDARD A137.1*	RESULTS
Water absorption *	C373	≤ 0.5%	COMPLY WITH ANSI A137.1
DCOF Average dynamic coefficient of friction **	BOT 3000 test	≥ 0.42	≥ 0.42
Skid Resistance	DIN 51097		A+B+C
3kiu kesistarice	DIN 51130	-	R11
Resistance to freeze/thaw cycling *	C1026	As reported	RESISTANT
Resistance to thermal shock	C484	As reported	RESISTANT
Warpage (edge)	C485	Warpage ± 0.4% or ± 0.05 in	COMPLY WITH ANSI A137.1
Warpage (diagonal)	C485	Warpage ± 0.4% or ± 0.07 in	COMPLY WITH ANSI A137.1
Wedging	C502	± 0.25% or ± 0.03 in	COMPLY WITH ANSI A137.1
Chemical resistance	C650	As reported	UNAFFECTED
** Resistance to stain	C1378	As reported	UNAFFECTED
Thickness	C499	Range: 0.04 in	COMPLY WITH ANSI A137.1
Breaking strength	C648	250 lbf or greater	≥2200 lbf

* Average values referred to our production and related to the matt finish of the product.

** As far as values relating to the matt finish of the product and to tests carried out by certified external laboratories whose results are available upon request at Headoffice, we are willing to check the lot you are interested in purchasing.

- Be sure to use pavers belonging to the same caliber.

- Test results are available on request.

- The information provided can be subject to change. Please refer to https://hardscape.landmarkceramics.com for the latest, most accurate and up-to-date information.

- Outdoor pavings installed unglued above the ground level are subject to the action of the wind, with the risk, in some cases, of becoming airborne. The manufacturer recommends to require the assistance of a qualified professional in order to check the suitability of the installation system above the ground adopted, in accordance with the local laws and regulations and the conditions of use. Failure to do so could result in serious injury or property damage.
- If the application of the 20 mm slabs requires the ceramic product used in structural installations, the project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs. to prevent the risk of damage or injury, the manufacturer recommends: with regard to a raised floor installation a ceramic slab may fracture on impact if a heavy object falls on it from any significant height. therefore the manufacturer recommends to check the specific intended use before starting the installation and to follow table for raised installation provided below. in certain conditions, reinforcing must be applied on the back of the slabs (double fiberglass mesh) supplied and applied by the manufacturer; with reference to any dry installation system of flooring above the ground level, the manufacturer recommends to comply with local regulations and conditions of use with regard to windload, loadbearing, seismic events, etc. Failure to comply with these recommendations may lead to improper use of the product and could cause serious damage or injury. Failure to adhere to the manufacturer's instructions for installation of slabs on raised pedestal systems may result in serious injury.
- For further information and recommendations concerning the installation systems please refer to https://hardscape.landmarkceramics.com website.















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