



FRONTIER²⁰

 **LANDMARK**
CERAMICS

A new landmark in the porcelain 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 material.

FRONTIER20

Frontier20 is a porcelain pavers collection perfectly suited for outdoor applications. The market's demand for a stain-proof, slip-resistant, chemical resistant, no maintenance product led to the development of a revolutionary aesthetically superior product, enough versatility 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 dimension never seen before to your outdoor living area.



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LEARN MORE ABOUT



PERFORMANCE, FUNCTIONALITY AND AESTHETICS: ALL IN 20MM.

Frontier20 porcelain pavers are inherently 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 Frontier20 is physically bound and can not fade or be removed.

Frontier20 is Freedom!

PROJECT

FLOOR DESIGN

Frontier20 African Beige - 24"x48"

Frontier20 African Beige - 12"x48"

Frontier20 African Beige - 24"x24"

Frontier20 African Beige - 12"x24"

Frontier20 African Beige Stair Tread - 12"x24"


Frontier20 African Beige Riser - 8"x24"


Frontier20 Soul Walnut - 12"x48"




EASY TO INSTALL


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 themselves 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 RESIDENTIAL.

- Walkways
- Driveways
- Courtyards
- Paths on grass or gravel
- Garages
- Patios and porches
- Terraces and balconies
- Access ramps
- Verandas
- Outdoor pools

PROJECT

FLOOR DESIGN

Frontier20 Michelangelo Extra White - 24"x48"
Frontier20 Michelangelo Extra White - 12"x48"
Frontier20 Michelangelo Extra White - 24"x24"
Frontier20 Michelangelo Extra White - 12"x24"
Frontier20 Michelangelo Extra White Stair Tread - 12"x24"
Frontier20 Michelangelo Extra White Riser - 8"x24"

WALL DESIGN

Veneer World Alpine Alaska - 6"x24"

FOR PUBLIC SPACES.

- Public outdoor areas
- Swimming pools
- Outdoor restaurants
- Outdoor bars
- Wellness centres
- Urban design
- Safety passages
- Outdoor pavements and squares

PROJECT

FLOOR DESIGN

Frontier20 Star Grey - 24"x48"

Frontier20 Star Grey - 12"x48"

Frontier20 Star Grey - 24"x24"

Frontier20 Star Grey - 12"x24"

Frontier20 Star Grey - 12"x12"

Frontier20 Star Grey Grip Stair Tread - 12"x48"

Frontier20 Star Grey Riser - 6"x48"

FIRE PIT DESIGN

Frontier20 Star Grey - 12"x48"

20^{MM} THICKNESS
PORCELAIN PAVERS

CONTINUITY IN & OUT.

Combining the Frontier20 line of products with the standard thickness product lines offers **high-level design flexibility and customization**, allowing designers and architects to easily transition inside design into outdoor beauty, functionality and performance.

PROJECT

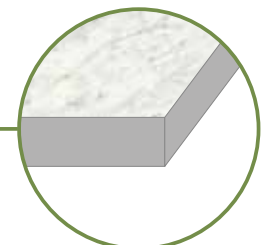
FLOOR DESIGN
Frontier20 Modern Grey - 24"x24"

**VERSATILE
MATCHING
SOLUTIONS.**

Landmark Ceramics provides matching solutions for indoors and outdoors, combining products from the Frontier20 catalog with items from traditional thickness collections.

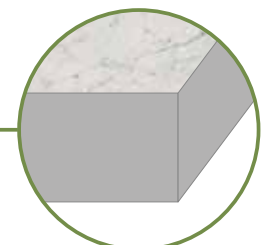
Continuity of style allows architects and designers to easily transition from inside beauty to outdoor functionality.

**INDOOR
PORCELAIN TILE**



± 9 mm

**OUTDOOR
PORCELAIN PAVER**



± 20mm

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.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Travertine Cross Cut White - 24"x48"
Frontier20 Travertine Cross Cut White - 24"x24"
Frontier20 Travertine Cross Cut White - 12"x24"
Frontier20 Travertine Cross Cut White - 12"x12"
Frontier20 Travertine Cross Cut White Grip Stair Tread - 12"x24"
Frontier20 Travertine Cross Cut White Riser - 8"x24"

WALL DESIGN

Brick World Soho Black - 3"x12"
Frontier20 Travertine Cross Cut White - 24"x48"

INDOOR FLOOR DESIGN

Charme Calacatta Gold - 24"x48"

FLOWER BEDS

Frontier20 Travertine Cross Cut White - 24"x48"

INDOOR FLOOR & WALL DESIGN

Charme Calacatta Gold - 24"x48"

01

DRY LAYING.

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

01.1 ON GRASS



01.2 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.



03

INSTALLATION OVER DECKING.

Traditional deck made with wood and porcelain pavers.



04

RAISED FLOORS.

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



01 DRY LAYING.

ADVANTAGES.

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

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**.

LOCATIONS.

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



DRY LAYING ON GRASS



PROJECT

FLOOR DESIGN

Frontier20 Travertine Cross Cut Noce - 24"x24"
Frontier20 Travertine Cross Cut Noce Coping - 24"x12"
Frontier20 Travertine Cross Cut Noce Coping Corner - 24"x12"

WALL DESIGN

Spirit Old Maple - 8"x40"

01.1 DRY LAYING
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
- B** BARE SOIL IS BEST. SCRATCH AND LAYEL WITH A RAKE

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 outdoor.landmarkceramics.com for practical installation information.

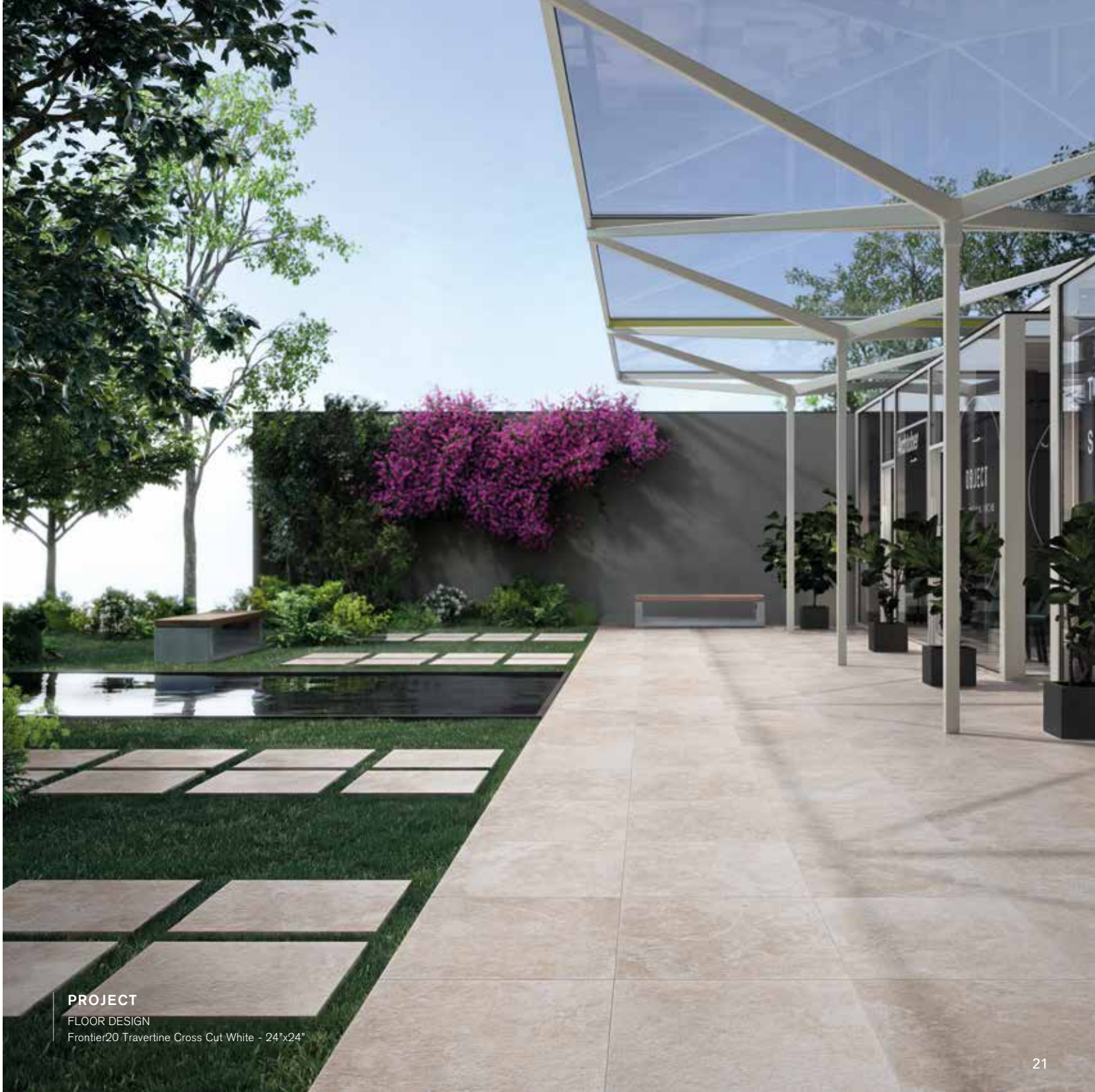
**DRY LAY OVER GRASS
ON COMPACTED ROAD BASE INSTALLATION**
(PEDESTRIAN FOOT TRAFFIC)

PRACTICAL INSTALLATION
Follow the drawing below.

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



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



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

01.2 DRY LAYING

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 (20MM) PAVERS
- B

COARSENESS OF GRAVEL 2" - 8 S' AND 9 S' (1/2" + LESS)
- C

COARSENESS OF GRAVEL 4" - #57 (3/4")
- D

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 (20MM) PAVERS
- B

SPACERS
- C

HIGH DENSITY PANELS
- D

SAND 1/2" - 1"
- E

FILTER FABRIC
- F

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 outdoor.landmarkceramics.com/contact.php for any questions you might have.

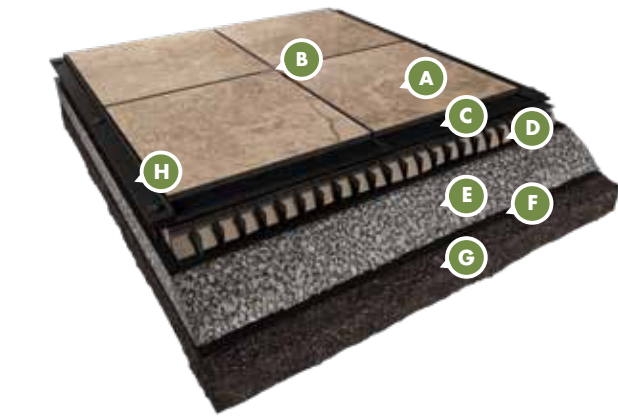
INSTALLATION WITH GRATE FULFILLED
WITH SAND OVER COARSE

(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 (20MM) PAVERS
- B

SPACERS
- C

FILTER FABRIC
- D

GRATE SYSTEM FILLED WITH DRAINABLE SAND
- E

COARSE AGGREGATE (67 OR 57)
- F

ADDITIONAL FILTER FABRIC IF NEEDED
- G

SUBSTRATE
- H

1' INCH PERIPHERAL ANCHOR



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01.3 DRY LAYING
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.



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

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.

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 (20MM) 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 1/2" - 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 (20MM) PAVERS
- B SAND BEDDING COURSE 1"
- C FILTER FABRIC
- D EXISTING OR NEW CONCRETE 4" MINIMUM
- E 1/2" - 1" INCH DRAINAGE HOLES DRILLED 24 INCH ON CENTER
- F PERIPHERAL RESTRAINT SYSTEM

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 outdoor.landmarkceramics.com for practical installation information.



02 INSTALLATION OVER REINFORCED CONCRETE*.

The Frontier20 may also be installed with traditional 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.

ADVANTAGES.

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

LOCATIONS.

- | | |
|------------|-----------------|
| → YARDS | → PARKING AREAS |
| → PORCHES | → CYCLE TRACKS |
| → TERRACES | → PAVEMENTS |
| → RAMPS | → SQUARES |
| → GARAGES | |



INSTALLATION OVER REINFORCED CONCRETE

THIN SET MORTAR APPLICATION OVER REINFORCED CONCRETE

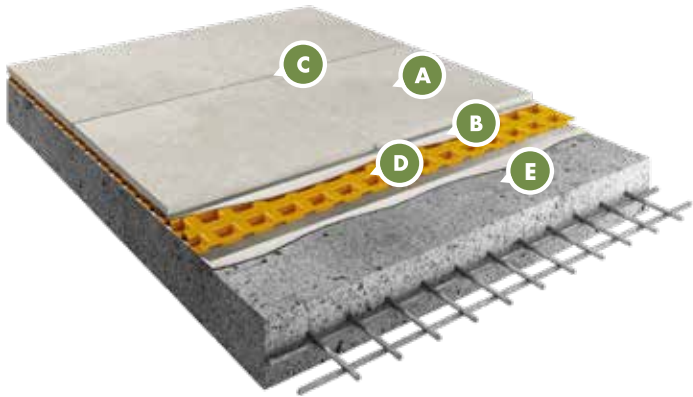
PRACTICAL INSTALLATION

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.



A FRONTIER20 PORCELAIN
3/4" NOMINAL (20MM) PAVERS

B THINSET

C 3/16" MINIMUM GROUT JOINT

D UNCOUPLING MEMBRANE

E EXISTING OR NEW CONCRETE
(REINFORCED). 4" MINIMUM

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03 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

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 must be flat to one another.
- Grates will span 2 joists and be fastened using weather proof screws.
- Stagger grates 1/3 rd, 1/4 th or 1/2 as shown.
- Outdoor fabrics varies in thickness. Multiple layers may be needed to reduce acoustics.
- The use of porcelain paver spacers are recommended. 1/8 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.

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

04 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" - 20MM) 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 (20MM) PAVERS
- B** PEDESTAL
- C** EXISTING SLAB OR 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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INSTALLATION OVER LOW HEIGHT SUPPORTS (UP TO 3/4" - 20MM) 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.




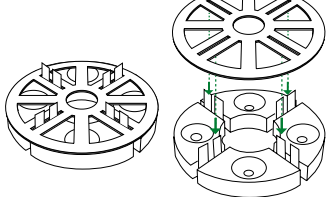
- A** FRONTIER20 PORCELAIN 3/4" NOMINAL (20MM) PAVERS
- B** PEDESTAL
- C** CONCRETE BASE
- D** SUBSTRATE

RAISED FLOORS INSTALLATION SYSTEM.

LOW HEIGHT SUPPORTS.


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

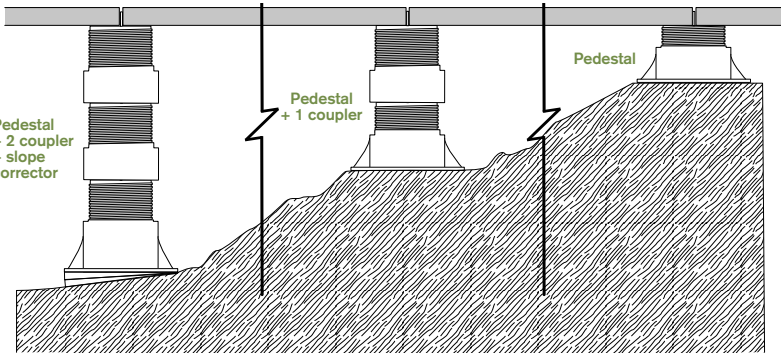
	AVAILABLE HEIGHT			
	1/8"	1/4"	1/2"	3/4"
Shim	1/8"			



ADJUSTABLE HEIGHT SUPPORTS.

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

	AVAILABLE HEIGHT			
	1 1/4" - 2"	2" - 3"	3" - 4 3/4"	4 3/4" - 7 3/4"
Coupler	add up 4" each			
Slope corrector	0" - 1" per foot slope			

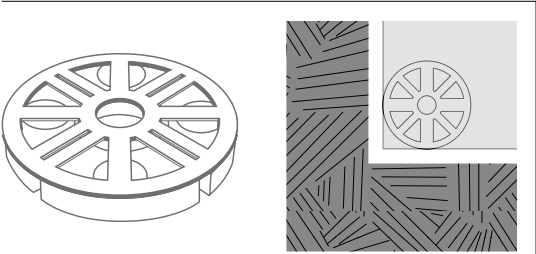


RAISED FLOORS INSTALLATION SYSTEM.

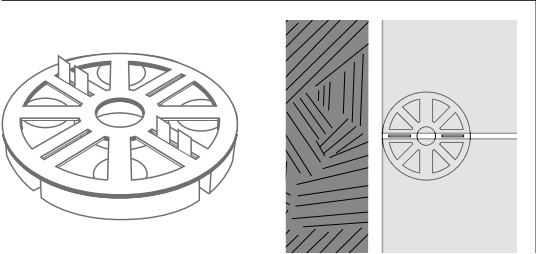
20 THICKNESS
PORCELAIN PAVERS

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.

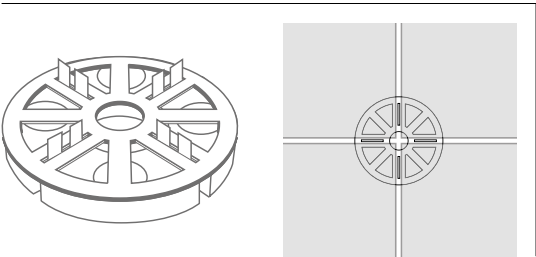
Wall corner



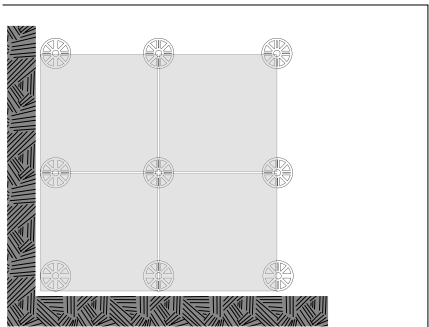
Wall border



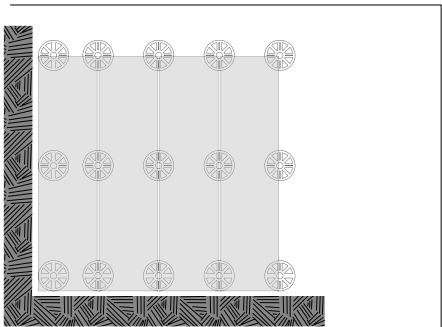
Floor center



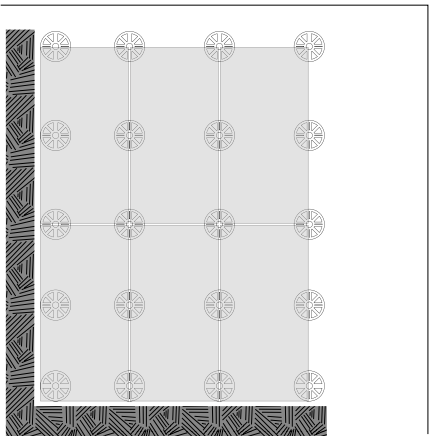
24"x24" - 12"x24" - 12"x12"



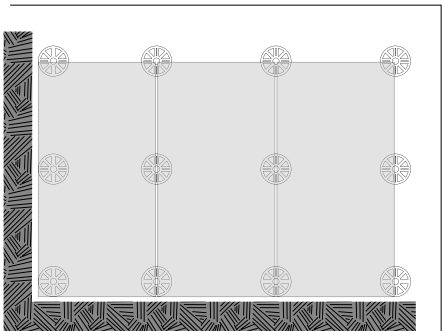
12"x48"



18"x36"



24"x48"



RAISED FLOORS INSTALLATION SYSTEM.

WARNINGS.

If the application of the 20mm 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 **outdoor.landmarkceramics.com** website.

SUPPORTS REQUIREMENTS			
	SIZE	UP TO ¾" (20MM)	ABOVE ¾" (20MM)
	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.



PROJECT
FLOOR DESIGN
Frontier20 Full Color Bluestone Cobblestone Multisize - 24"x24"

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

FLOOR DESIGN

Frontier20 Silver Quartz - 24"x24"
Frontier20 Silver Quartz Linear Cover Drain Set - 24"x24"
Frontier20 Silver Quartz Coping - 24"x12"
Frontier20 Silver Quartz Coping Corner - 24"x12"
Frontier20 Silver Quartz Stair Tread - 24"x12"
Frontier20 Silver Quartz Stair Tread Grip - 24"x12"
Frontier20 Silver Quartz Riser - 24"x8"
Frontier20 Silver Quartz Cover - 24"x12"
Frontier20 Silver Quartz End Cover - 24"x12"

STAIR TREAD
P. 39

GRIP STAIR TREAD
P. 39

RISER
P. 39

END COVER
P. 43

COVER
P. 43

COPING CORNER
P. 41

COPING
P. 41

LINEAR COVER DRAIN SET
P. 41

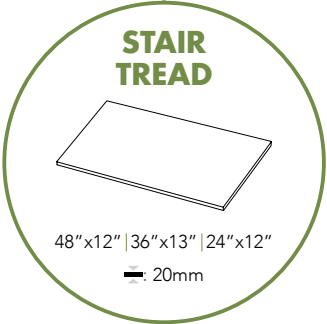
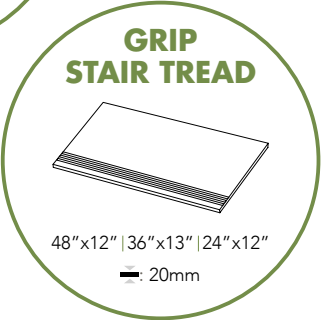
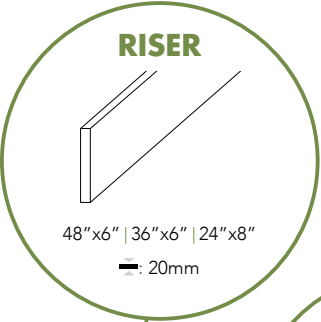
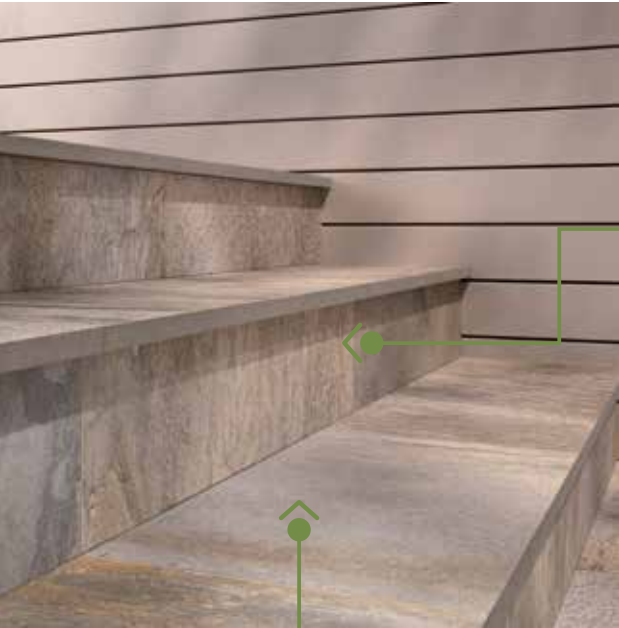
STAIRS WITH AN IN-DEMAND AESTHETIC THAT IS ALSO HIGH PERFORMING.

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.

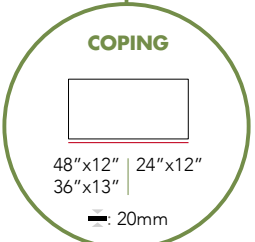
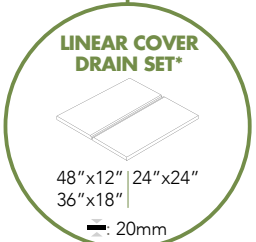
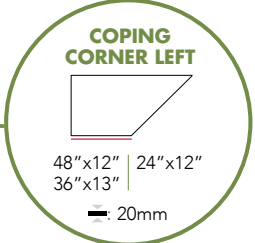
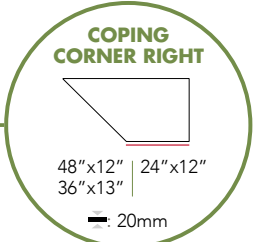
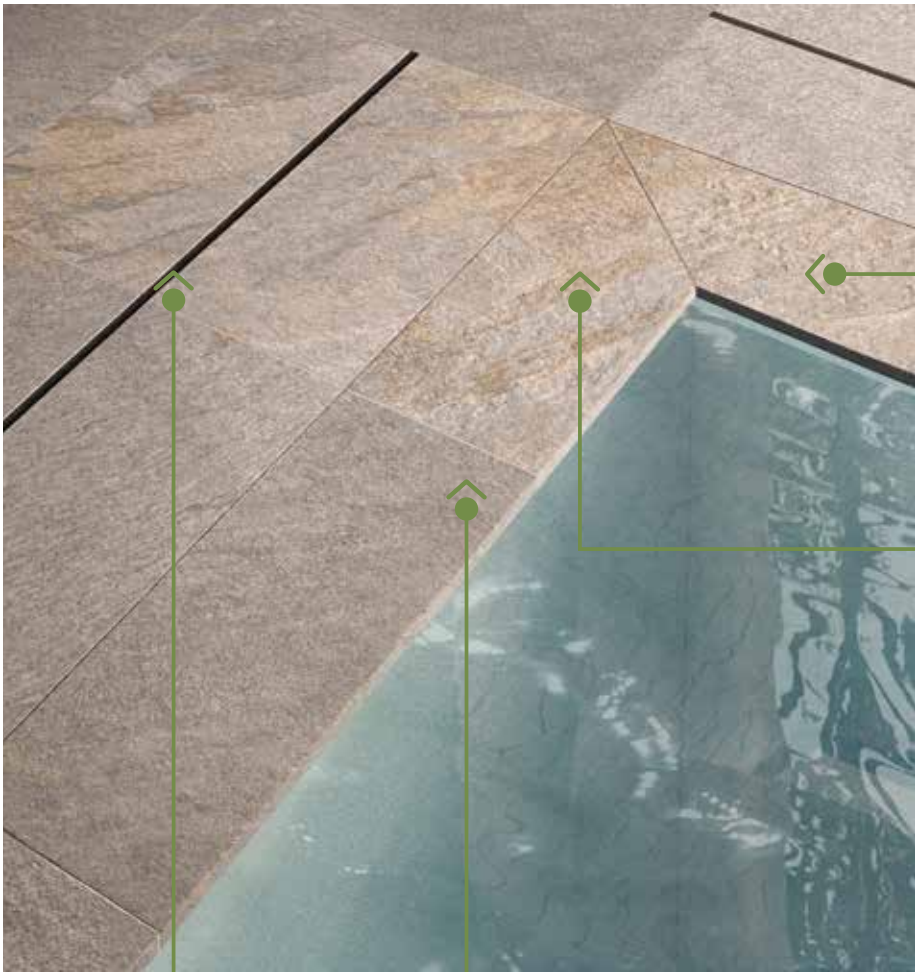
SYSTEM.

- 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 45, 46, 47 for more details.



WALL COVERS: PROTECTION FROM WATER AND VISUAL CONTINUITY.

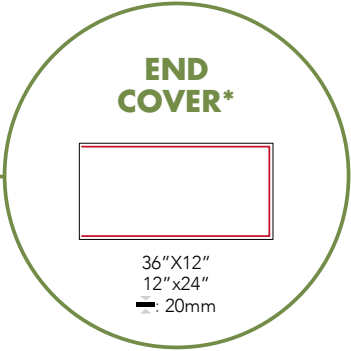
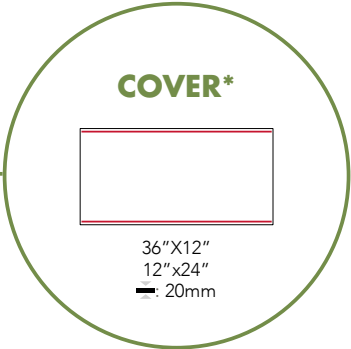
SYSTEM.

- COVER
- END-COVER

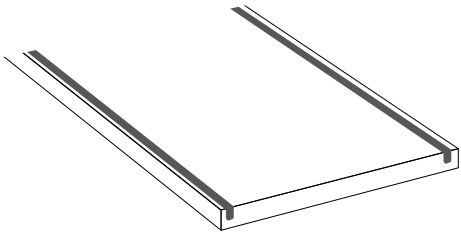
ADVANTAGES.

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

* Both Cover and End-Cover have dripstone and undecorated borders.



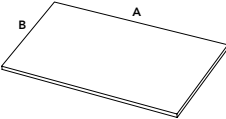
DRIPOSTONE





TRIM TILES RANGE 24"x24"

STAIRS

STAIR TREAD*

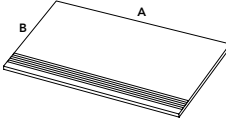


A: 24"
B: 12"





RectifiedBullnose

GRIP STAIR TREAD*

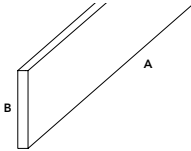


A: 24"
B: 12"




RectifiedBullnose

RISER*



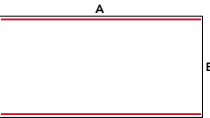
A: 24"
B: 8"



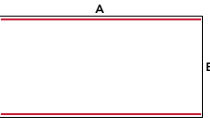
Rectified

WALL COVERS

COVER*

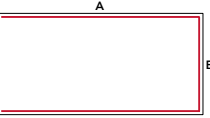


A: 24"
B: 12"



Undecorated border and dripstone

END COVER*

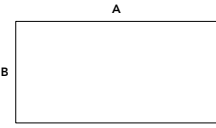


* Available in standard version (with undecorated borders).



TRIM TILES RANGE 24"x24"

POOLS

COPING*

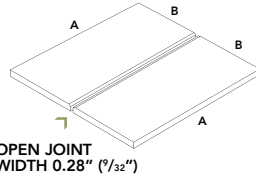


A: 24"
B: 12"




RectifiedBullnose

LINEAR COVER DRAIN SET*

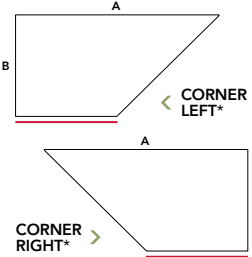


A: 24"
B: 11.63"





Open joint width 0.28" (9/32")

COPING CORNER*



A: 24"
B: 12"



RectifiedBullnose

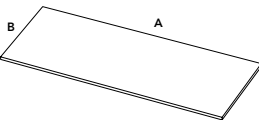


* Available in standard version (with undecorated borders).

TRIM TILES RANGE 18"x36"

STAIRS

STAIR TREAD*



TRIM DIMENSIONS

A: 36"
B: 13"

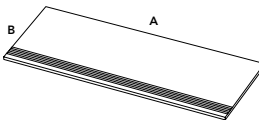


Rectified



Bullnose

GRIP STAIR TREAD*



A: 36"
B: 13"



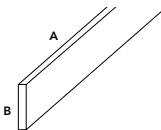
Rectified



Bullnose

STAIRS

RISER*



TRIM DIMENSIONS

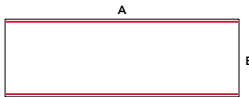
A: 36"
B: 6"



Rectified

WALL COVERS

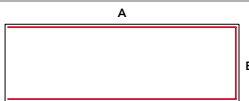
COVER*



A: 36"
B: 12"



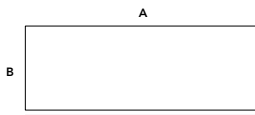
END COVER*



Undecorated border and dripstone

POOLS

COPING*



TRIM DIMENSIONS

A: 36"
B: 13"

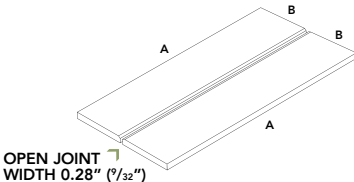


Rectified



Bullnose

LINEAR COVER DRAIN SET*



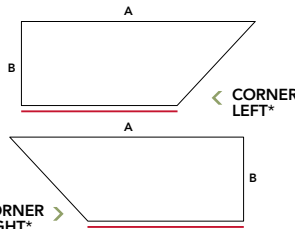
TRIM DIMENSIONS

A: 36"
B: 8.71"



Open joint width 0.28" (7/32")

COPING CORNER*



TRIM DIMENSIONS

A: 36"
B: 13"



Rectified



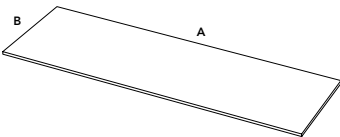
Bullnose

* Available just in standard version (with undecorated borders).

TRIM TILES RANGE 12"x48"

STAIRS

STAIR TREAD*



A: 48"
B: 12"

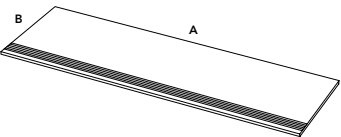


Rectified



Bullnose

GRIP STAIR TREAD*



A: 48"
B: 12"

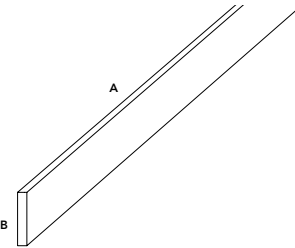


Rectified



Bullnose

RISER*



TRIM DIMENSIONS

A: 48"
B: 6"

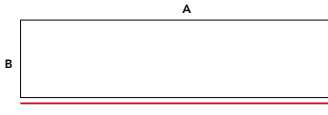


Rectified



POOLS

COPING*



TRIM DIMENSIONS

A: 48"
B: 12"

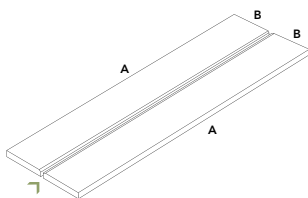


Rectified



Bullnose

LINEAR COVER DRAIN SET*



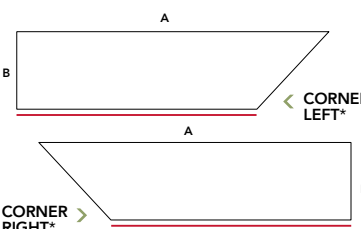
TRIM DIMENSIONS

A: 48"
B: 5.76"



Open joint width 0.28" (7/32")

COPING CORNER*



TRIM DIMENSIONS

A: 48"
B: 12"



Rectified



Bullnose

* Available just in standard version (with undecorated borders).

A COMPLETE PROJECT FOR EVERY NEED.

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.

ADVANTAGES.

- 01 **WIDE LOOKS RANGE**
- 02 **A WIDE RANGE OF SIZES**
- 03 **AMERICAN STONES**
- 04 **LANDMARK DESIGN PROJECT**

PROJECT

FLOOR DESIGN

Frontier20 Travertine Cross Cut Silver - 24"x24"

WALL DESIGN


Frontier20 Travertine Cross Cut Silver - 24"x24"

COUNTER


Frontier20 Travertine Cross Cut Silver - 24"x24"


01 WIDE LOOKS RANGE.

BLUESTONE DESIGN PROJECT





TUMBLLED BLUESTONE

V3 AMERICANSTONE 




TUMBLLED BLUESTONE COBBLESTONE CUBE

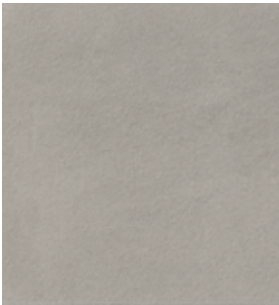
V3 AMERICANSTONE 




TUMBLLED BLUESTONE COBBLESTONE MULTISIZE


V3 AMERICANSTONE 

BLUESTONE DESIGN PROJECT





THERMAL BLUESTONE BLUE SELECT

V2 AMERICANSTONE 





BLUESTONE BLUE SELECT

V2 AMERICANSTONE 




BLUE SELECT BLUESTONE COBBLESTONE CUBE


V2 AMERICANSTONE 




BLUE SELECT BLUESTONE COBBLESTONE MULTISIZE


V2 AMERICANSTONE 

BLUESTONE DESIGN PROJECT





THERMAL BLUESTONE FULL COLOR

V3 AMERICANSTONE 





BLUESTONE FULL COLOR

V4 AMERICANSTONE 




FULL COLOR BLUESTONE COBBLESTONE CUBE


V3 AMERICANSTONE 




FULL COLOR BLUESTONE COBBLESTONE MULTISIZE


V3 AMERICANSTONE 

TRAVERTINE CROSS CUT DESIGN PROJECT





TRAVERTINE CROSS CUT WHITE

V2 AMERICANSTONE 




TRAVERTINE CROSS CUT SILVER

V2 AMERICANSTONE 




TRAVERTINE CROSS CUT CREAM

V2 AMERICANSTONE 




TRAVERTINE CROSS CUT NOCE


V2 AMERICANSTONE 




SOURCE BEIGE


V2 

QUARTZITE DESIGN PROJECT





ARCTIC WHITE

V2 





AFRICAN BEIGE

V2 





STAR GREY

V2 




BARGE GOLD

V3 




SILVER QUARTZ


V3 




QUARTZ LOOK




PIETRA DI BARGE

V2 

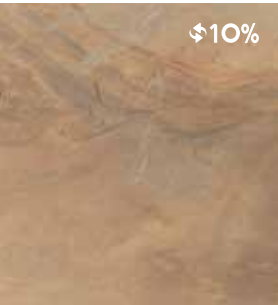


POINT SILVER

V2 

01 WIDE LOOKS RANGE.

FLAGSTONE LOOK



FLAGSTONE PINK-TAN

FLAGSTONE BROWN



V4 AMERICANSTONE



V3 AMERICANSTONE



SLATE LOOK



MULTICOLOR GOLD

MULTICOLOR DARK

VINTAGE SLAB

LIMESTONE



V3 AMERICANSTONE



V3 AMERICANSTONE



V2 AMERICANSTONE



V2 AMERICANSTONE



LIMESTONE LOOK

CONCRETE LOOK



FREEDOM WHITE

PASSION SILVER

SIMPLY GREY

WARM SAND



V2



V2



V1



V1



MARBLE LOOK



MICHELANGELO EXTRA WHITE



V2



STONE LOOK



SKY



V2



DESERT



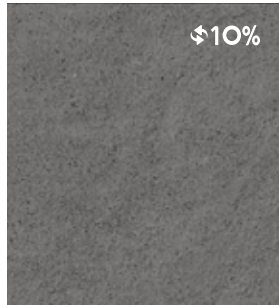
V2



ABSOLUTE



V2



COSMOS



V2



STONE LOOK



NATURAL IVORY



V2



MODERN GREY



V2



PIETRA DI BAGNOLO



V2



SOUL WALNUT



V2



SOUL GREY



V2



WOOD LOOK



ESSENCE GREY



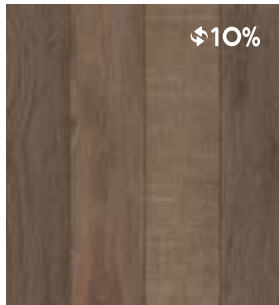
V2



ESSENCE BROWN



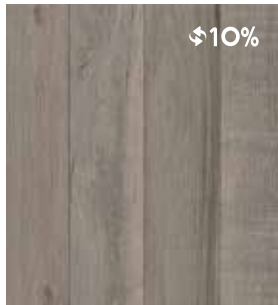
V2



WALNUT



V3



PEPPER



V3



20 ^{MM} THICKNESS
PORCELAIN PAVERS

02

A WIDE RANGE OF DIFFERENT SIZES. DIFFERENT SIZES, GREATER FREEDOM.

_Frontier20 is characterized by a wide range of sizes from the small **9"x9"**, **9"x18"**, **12"x12"** and **12"x24"** up to the bigger **18"x36"**, **24"x36"** and **24"x48"**, from the classic **24"x24"** to the refined **12"x48"** plank size. Frontier20 ensures freedom in every design project.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Limestone - 24"x48"

Frontier20 Limestone - 12"x48"

Frontier20 Limestone - 12"x12"

Frontier20 Limestone Grip Stair Tread - 12"x48"

Frontier20 Limestone Riser - 6"x48"

WALL DESIGN

Veneer World Pro Ledgestone Alpine Alaska - 6"x24"

Frontier20 Limestone Wall Cover - 12"x24"

FLOWER BEDS DESIGN

Veneer World Pro Ledgestone Ridge Black - 6"x24"



24"x48"



12"x48"



24"x24"



12"x24"



12"x12"



24"x36"



18"x36"



9"x18"



9"x9"

≡20≡THICKNESS
PORCELAIN PAVERS

03 AMERICANSTONE★

THE AMERICAN
SOUL OF THE REAL
AMERICAN STONES.



PROJECT

FLOOR DESIGN
Frontier20 Bluestone Blue Select - 24"x24"
Frontier20 Bluestone Blue Select Linear Cover Drain Set - 24"x24"

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.

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.**

PROJECT

FLOOR DESIGN
Frontier20 Multicolor Dark - 24"x24"



PROJECT

OUTDOOR FLOOR DESIGN
Frontier20 Full Color Bluestone Cobblestone Cube - 24"x24"
Frontier20 Simply Grey - 18"x36"
OUTDOOR WALL DESIGN
Frontier20 Bluestone Blue Select - 12"x24"
CAFETERIA COUNTER
Emotion Soft Dark - 8"x40"
BENCHES
Frontier20 Simply Grey - 18"x36"

04 DESIGN PROJECT.

Landmark Design Project is the newest, unique and most distinctive concept developed by Landmark. Every Design Project takes root from the study of a prestigious and popular natural stone, widely used in North America for both indoor and outdoor applications. The ultimate goal is to provide a deep and complete interpretation of that stone using porcelain technology. The reference stone is studied in depth in terms of colors, textures, finishes and sizes, with the ambitious goal to blend them into a complete and unique porcelain design project, able to match and exceed the design and application options offered by the natural stone. At the same time, BDP combines all its beauty with superior technical performances of the best porcelain. Every design project is an integrated solution perfectly balanced to design outdoor floors and walls with a stunning and elegant total stone-effect look inspired by American premium natural stones. All the items belonging to a Design Projects can be blended, allowing designers to adopt the same concept everywhere, boundlessly playing with different sizes, colors, finishes and creative patterns, as well as unique and eye-catching walls proposal and In&Out solutions.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Thermal Bluestone Full Color - 24"x24"

Frontier20 Thermal Bluestone Full Color Coping - 24"x12"

Frontier20 Thermal Bluestone Full Color Coping Corner - 24"x12"

Frontier20 Full Color Bluestone Cobblestone Multisize - 24"x24"

04.1 BLUESTONE DESIGN PROJECT.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Thermal Bluestone Full Color - 12"x24"

Frontier20 Thermal Bluestone Full Color - 24"x24"

04.1 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, veneers, trim pieces and finishes, designed to meet the demands of Total Look outdoor project.

PROJECT
FLOOR DESIGN
Frontier20 Thermal Bluestone Full Color - 24"x48"
Frontier20 Full Color Bluestone Cobblestone Multisize - 24"x24"



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"

04.1 **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.

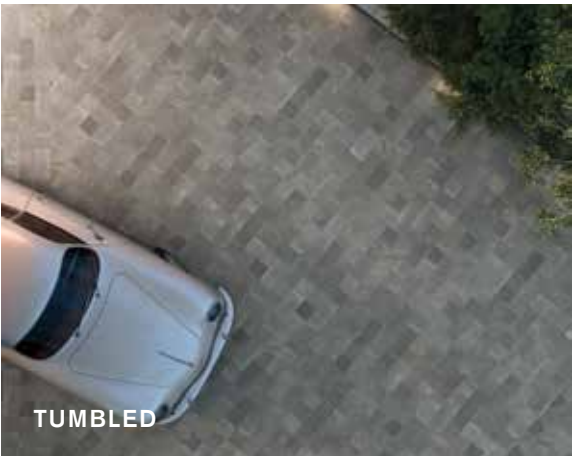
04.1 BLUESTONE DESIGN PROJECT.

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 polychromies 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.

As far as Porcelain Pavers, 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", 12"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.



TUMBLLED BLUESTONE



TUMBLLED BLUESTONE
COBBLESTONE CUBE



TUMBLLED BLUESTONE
COBBLESTONE MULTISIZE



THERMAL BLUESTONE
BLUE SELECT



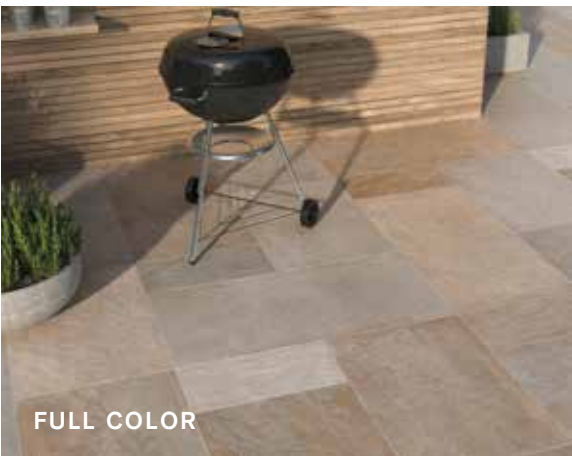
BLUESTONE BLUE SELECT



BLUE SELECT BLUESTONE
COBBLESTONE CUBE



BLUE SELECT BLUESTONE
COBBLESTONE MULTISIZE



THERMAL BLUESTONE
FULL COLOR



BLUESTONE FULL COLOR



FULL COLOR BLUESTONE
COBBLESTONE CUBE



FULL COLOR BLUESTONE
COBBLESTONE MULTISIZE

04.1 **BLUESTONE DESIGN PROJECT.** **FLOOR AND WALL.**

Bluestone Design Project presents an ample choice of boundless combinations not only for floor but also for wall application, thanks to the prestigious and decorative Porcelain Veneer range, available in two different versions: a refined and modern **Pro Ledgestone** and a more traditional **Quarry Ledgestone**.

A remarkable project with infinite combinations for your Bluestone Total Look Project.



04.2 QUARTZITE DESIGN PROJECT.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Arctic White - 24"x48"

Frontier20 Arctic White - 12"x48"

Frontier20 Arctic White - 24"x24"

Frontier20 Arctic White - 12"x24"

Frontier20 Arctic White - 12"x12"

Frontier20 Arctic White Grip Stair Tread Rectified - 12"x24"

Frontier20 Arctic White Riser Rectified - 8"x24"

OUTDOOR POOL DESIGN

Frontier20 Arctic White Linear Cover Drain Set - 24"x11.63"

Frontier20 Arctic White Coping Rectified - 12"x24"

WALL DESIGN

Veneer World Pro LedgeStone Ridge Black - 6"x24"

Veneer World Pro LedgeStone Bluestone Tumbled - 6"x24"

Vision Concrete - 24"x48"

Vision Concrete - 24"x24"

Vision Concrete - 12"x24"

FLOWER BED WALL DESIGN

Veneer World Pro LedgeStone Tumbled - 6"x24"

04.2 **QUARTZITE DESIGN PROJECT.**

A TRIBUTE TO ONE OF THE MOST AUTHENTIC AND ICONIC STONES.

QDP, Quartzite Design Project, represents our tribute to the Quartzite natural stone. A stone deeply and widely used in architecture and now reinterpreted and proposed in porcelain, for 360° application whether in residential or commercial areas, for both indoor and outdoor, and for floors and walls.

With its contemporary interpretation of the granular texture of the quartzite stone, Quartzite Design Project is ideal for outdoor spaces thanks to the Porcelain Pavers, Porcelain Veneers and Porcelain Grip Tiles offering. But exterior is not the only possible application. In fact, **QDP is perfect for indoor or In&Out transitional applications too**, thanks to the Porcelain Tiles offering, belonging to our Explore collection and available in 9mm thickness.

Quartzite Design Project is a stone effect with a strong character and chromatic richness that celebrates all the beauty of this superior natural looking architectural stone.



PROJECT

FLOOR DESIGN

- Frontier20 African Beige - 24"x48"
- Frontier20 African Beige - 12"x48"
- Frontier20 African Beige - 24"x24"
- Frontier20 African Beige - 12"x24"
- Frontier20 African Beige Stair Tread - 12"x24"
- Frontier20 Soul Walnut - 12"x48"

04.2 QUARTZITE DESIGN PROJECT.

THE QUARTZITE
WORLD IN
YOUR HAND.

ARCTIC WHITE
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

AFRICAN BEIGE
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

STAR GREY
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

The Quartzite Design Project offers endless possibilities to every project, thanks to its broad selection of surfaces, sizes and thicknesses. The project is composed and designed to fit every surface with unquestionable appeal, and embraces 4 different product categories: Porcelain Pavers, Porcelain Veneers, Porcelain Grip Tiles and Porcelain Tiles.

PORCELAIN
PAVERS

3 colors, available in 20mm thickness within Frontier20 range, ideal for 360° outdoor applications with outstanding technical performances and a wide size offering, from 12"x12" to 24"x48".

PROJECT

FLOOR DESIGN

Frontier20 Star Grey - 24"x48"
Frontier20 Star Grey - 12"x48"
Frontier20 Star Grey - 24"x24"
Frontier20 Star Grey - 12"x24"
Frontier20 Star Grey - 12"x12"

FIRE PIT DESIGN

Frontier20 Star Grey - 12"x48"



04.2 QUARTZITE DESIGN PROJECT.

URBAN LEDGESTONE

PORCELAIN VENEERS

4 color proposal to decorate every wall both indoor or outdoor with the same authentic and rich look of the best natural quartzite stones, by blending the tradition of the veneers, a modern Urban Ledgestone shape and the remarkable performance of porcelain.

Urban is the Porcelain Veneer proposal for whoever is looking for a clean, neat and modern design.

Made of listels regular and uniform in height, characterized by a smooth and refined surface finish, Urban is intended for wall compositions to fit any contemporary architectural environments where the tradition of stone veneers meets the elegance of a clean look.

Each veneer is composed by the assembling of same size pieces with a 3D relief to create vibrant and new decorative wall surfaces.

URBAN LEDGESTONE
 ARCTIC WHITE

URBAN LEDGESTONE
 AFRICAN BEIGE

URBAN LEDGESTONE
 STAR GREY

URBAN LEDGESTONE
 VOLCANIC BLACK

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Michelangelo Extra White - 24"x48"

Frontier20 Michelangelo Extra White Riser - 6"x48"

WALL DESIGN

Veneer World Urban Ledgestone Explore Volcanic Black - 6"x24"

04.2 QUARTZITE DESIGN PROJECT.

GRIP TILES


COLORED BODY PORCELAIN GRIP TILES

PORCELAIN GRIP TILES - 9mm thickness

Rectified Monocaliber


4 colors offered in 9mm thickness that fit every outdoor installation over concrete or indoor application, wherever an outstanding slip resistance is needed.

EXPLORE ARCTIC WHITE GRIP




NEW 2021 COLOR

Available size



12"x24"




V2

± 0.35"


± 9mm

EXPLORE AFRICAN BEIGE GRIP




NEW 2021 COLOR

Available size



12"x24"




V2

± 0.35"


± 9mm

EXPLORE STAR GREY GRIP




NEW 2021 COLOR

Available size



12"x24"




V2

± 0.35"


± 9mm

EXPLORE EVEREST DARK GRIP




NEW 2021 COLOR

Available size



12"x24"



V2

± 0.35"

± 9mm

04.2 QUARTZITE DESIGN PROJECT.




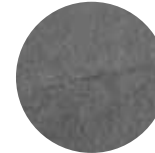
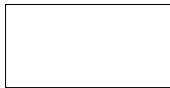




COORDINATED PORCELAIN TILES

FOR IN&OUT APPLICATIONS AND OUTDOOR WALLS

PORCELAIN TILES - 9mm thickness

Rectified Monocaliber

5 colors in 9mm colored body porcelain, all rectified and monocaliber, ranging from 12"x24" to 24"x48" size, to complete your project by transitioning the same quartzite look either on outdoor walls and facades or in indoor application, residential as well as commercial, for both floors and walls.

					
	Arctic White	African Beige	Star Grey	Everest Dark	Volcanic Black
 24"x48" MATT ± 0.35" / 9 mm	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 24"x24" MATT ± 0.35"	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 12"x24" MATT ± 0.35"	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 12"x12" MOSAIC A ± 0.35"	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 12"x10" MOSAIC D ± 0.35"	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 3"x24" BULLNOSE	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
 6"x12" COVE BASE	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>

04.3 TRAVERTINE CROSS CUT DESIGN PROJECT.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Travertine Cross Cut Cream - 24"x48"
Frontier20 Travertine Cross Cut Cream - 12"x48"
Frontier20 Travertine Cross Cut Cream - 24"x24"
Frontier20 Travertine Cross Cut Cream - 12"x24"
Frontier20 Travertine Cross Cut Cream - 12"x12"
Frontier20 Travertine Cross Cut Cream Stair Tread - 12"x48"
Frontier20 Travertine Cross Cut Cream Riser - 6"x48"

WALL DESIGN

Frontier20 Travertine Cross Cut Cream - 12"x48"
Vision Dove - 24"x48"

04.3 TRAVERTINE CROSS CUT DESIGN PROJECT.

MEET THE AMERICAN LOOK.

Travertine Cross Cut Design Project is Landmark’s tribute to this iconic stone. The project proposes the modern porcelain pavers-based reinterpretation of Cross Cut Travertine, a natural travertine framed by a lengthy sedimentation process, characterized by typical directional veins running all across the stone blocks, that, according to the name of the stone, is “cross cut” (cut against the veins).

Available in a broad range of sizes and 4 different colorations to be inspired from, Travertine Cross Cut Design Project combines the elegant cross-cut look of the referenced natural stone, simple and always different from piece to piece with all superior performance of the best porcelain stoneware, in terms of the strength, resistance, easy maintenance and durability.

- PROJECT**
- OUTDOOR FLOOR DESIGN
- Frontier20 Travertine Cross Cut Silver - 24"x48"
 - Frontier20 Travertine Cross Cut Silver - 12"x48"
 - Frontier20 Travertine Cross Cut Silver - 24"x24"
 - Frontier20 Travertine Cross Cut Silver - 12"x24"
 - Frontier20 Travertine Cross Cut Silver Stair Tread - 12"x48"
 - Frontier20 Travertine Cross Cut Silver Riser - 6"x48"
- WALL DESIGN
- Brick World Soho Black - 3"x12"
 - Frontier20 Travertine Cross Cut Silver - 24"x48"
- INDOOR FLOOR DESIGN
- Spirit Old Maple - 8"x40"



04.3 TRAVERTINE CROSS CUT DESIGN PROJECT.

A WIDE RANGE OF SIZES
FOR MULTIPLE PATTERNS.



TRAVERTINE CROSS CUT WHITE
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

TRAVERTINE CROSS CUT SILVER
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

TRAVERTINE CROSS CUT CREAM
24"x48" - 12"x48" - 24"x36" - 24"x24" - 12"x24" - 12"x12"

TRAVERTINE CROSS CUT NOCE
24"x24"

Thanks to its new broad selection of sizes, ranging from traditional 12"x12" to the large size 24"x48", Travertine Cross Cut Design Project allows a variety of single and multi-size laying patterns to meet every design need.

Plus, the performance of the Porcelain Pavers guarantees the highest standards of safety, resistance and durability.



PROJECT

OUTDOOR FLOOR DESIGN

- Frontier20 Travertine Cross Cut White - 24"x48"
- Frontier20 Travertine Cross Cut White - 24"x24"
- Frontier20 Travertine Cross Cut White - 12"x24"
- Frontier20 Travertine Cross Cut White - 12"x12"
- Frontier20 Travertine Cross Cut White Grip Stair Tread - 12"x24"
- Frontier20 Travertine Cross Cut White Riser - 8"x24"

FLOWER BEDS

- Frontier20 Travertine Cross Cut White - 24"x48"

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 6 formats (24"x48", 12"x48", 24"x36", 24"x24", 12"x24", 12"x12").
- **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

OUTDOOR FLOOR DESIGN

Frontier20 Star Grey - 24"x48"

Frontier20 Star Grey - 12"x48"

Frontier20 Star Grey - 24"x24"

Frontier20 Star Grey - 12"x24"

Frontier20 Star Grey - 12"x12"

Frontier20 Arctic White - 12"x48"

M.P.D. BIG ONE*



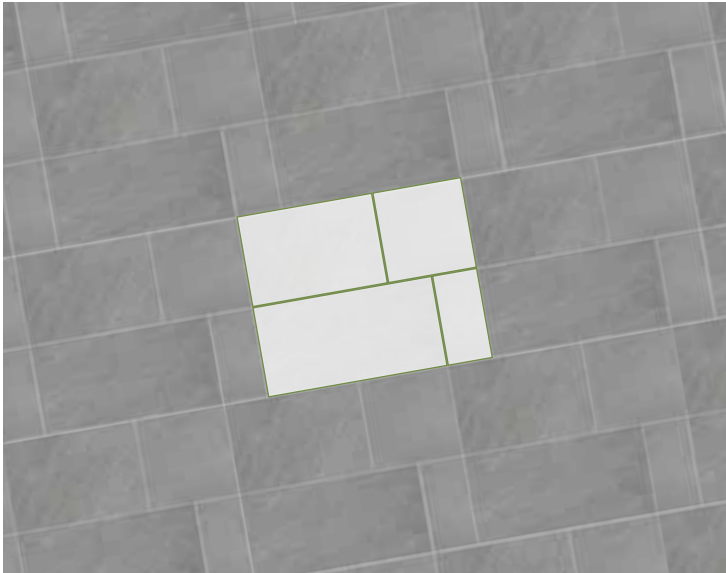
Module percentage

24"x48" = 40%
24"x24" = 20%
24"x36" + 12"x24" (MIX) = 40% **



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



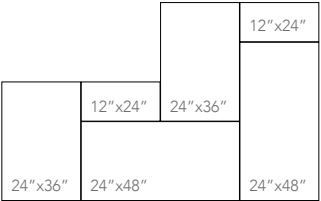
* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

M.P.D. BIG TWO*



Module percentage

24"x48" = 50%
24"x36" + 12"x24" (MIX) = 50% **



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



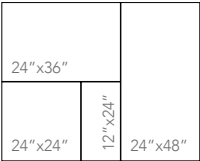
* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

M.P.D. BIG THREE*



Module percentage

24"x48" = 40%
24"x24" = 20%
24"x36" + 12"x24" (MIX) = 40% **



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



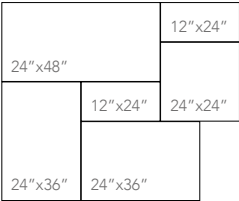
* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

M.P.D. BIG FOUR*



Module percentage

24"x48" = 28.6%
24"x24" = 14.3%
24"x36" + 12"x24" (MIX) = 57.1% **



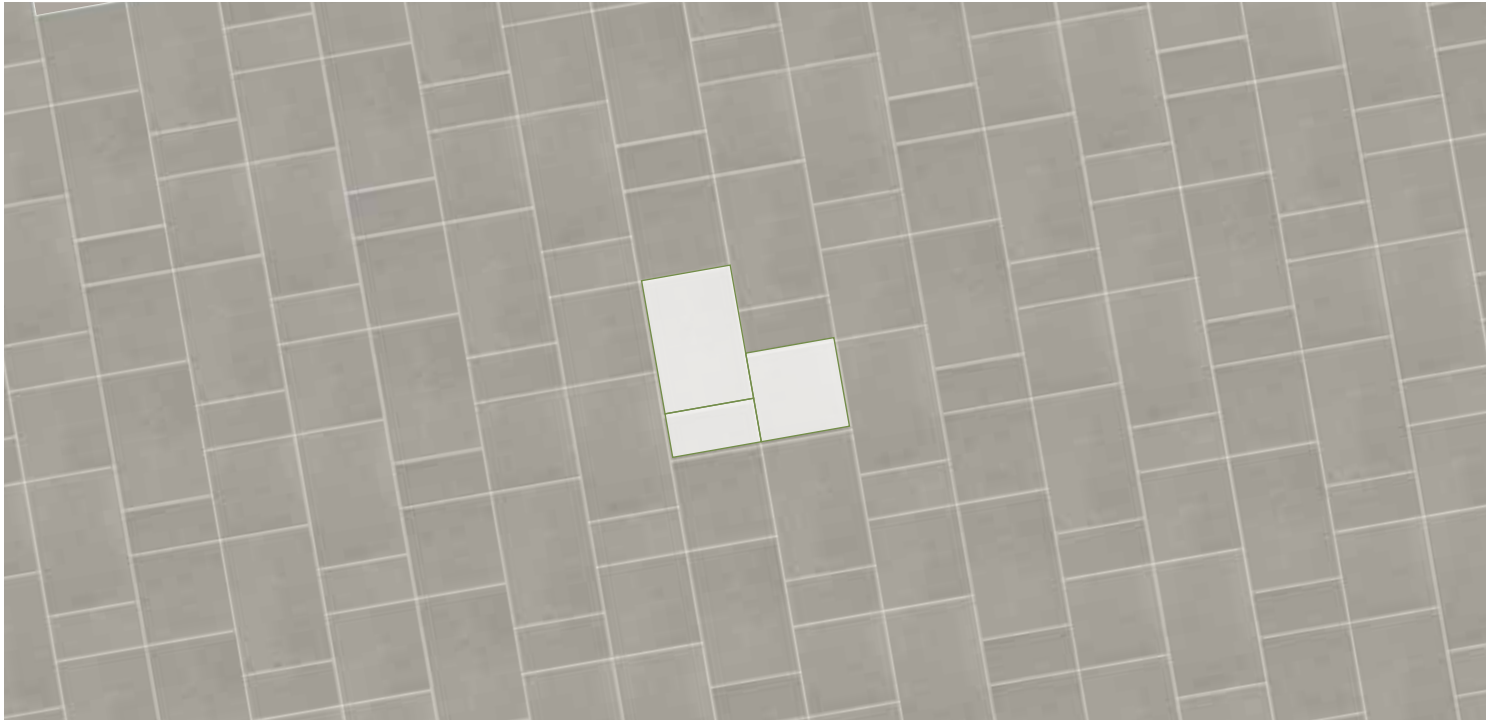
Available colors

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

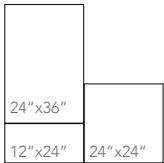
M.P.D. BIG FIVE*



Module percentage

% HP1
24"x24" = 33%
24"x36" + 12"x24" (MIX) = 67% **

% HP2
24"x36" = 50%
24"x24" = 33%
12"x24" = 17%



Available colors HP1

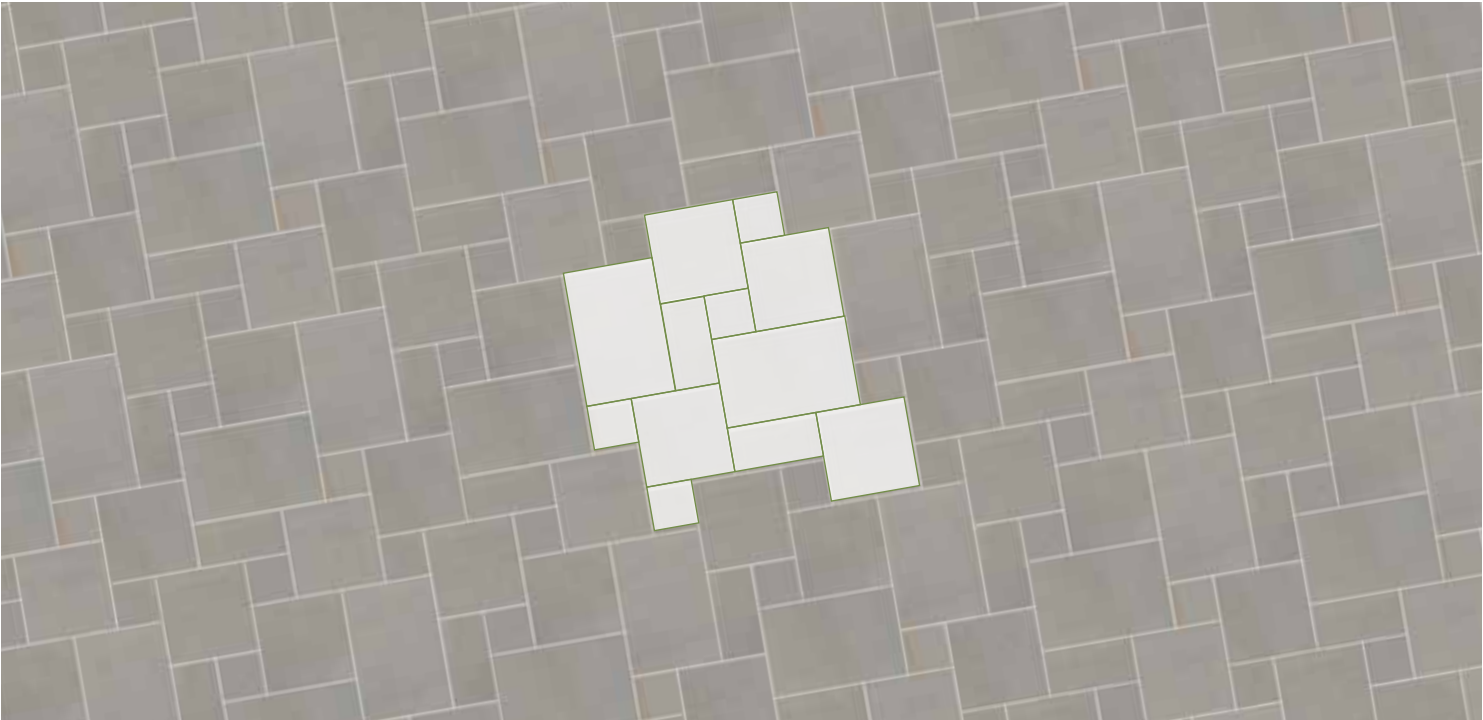
- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

Available colors HP2

- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color

* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

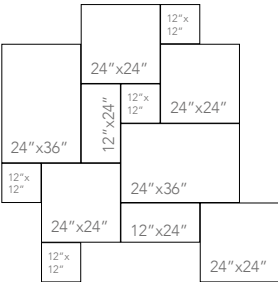
M.P.D. BIG SIX*



Module percentage

% HP1
24"x24" = 45%
12"x12" = 11%
24"x36" + 12"x24" (MIX) = 44% **

% HP2
24"x36" = 33%
24"x24" = 45%
12"x24" = 11%
12"x12" = 11%



Available colors HP1

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

Available colors HP2

- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color

* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

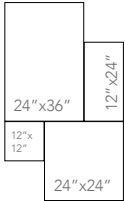
M.P.D. BIG SEVEN*



Module percentage

% HP1
24"x24" = 31%
12"x12" = 8%
24"x36" + 12"x24" (MIX) = 61% **

% HP2
24"x36" = 46%
24"x24" = 31%
12"x24" = 15%
12"x12" = 8%



Available colors HP1

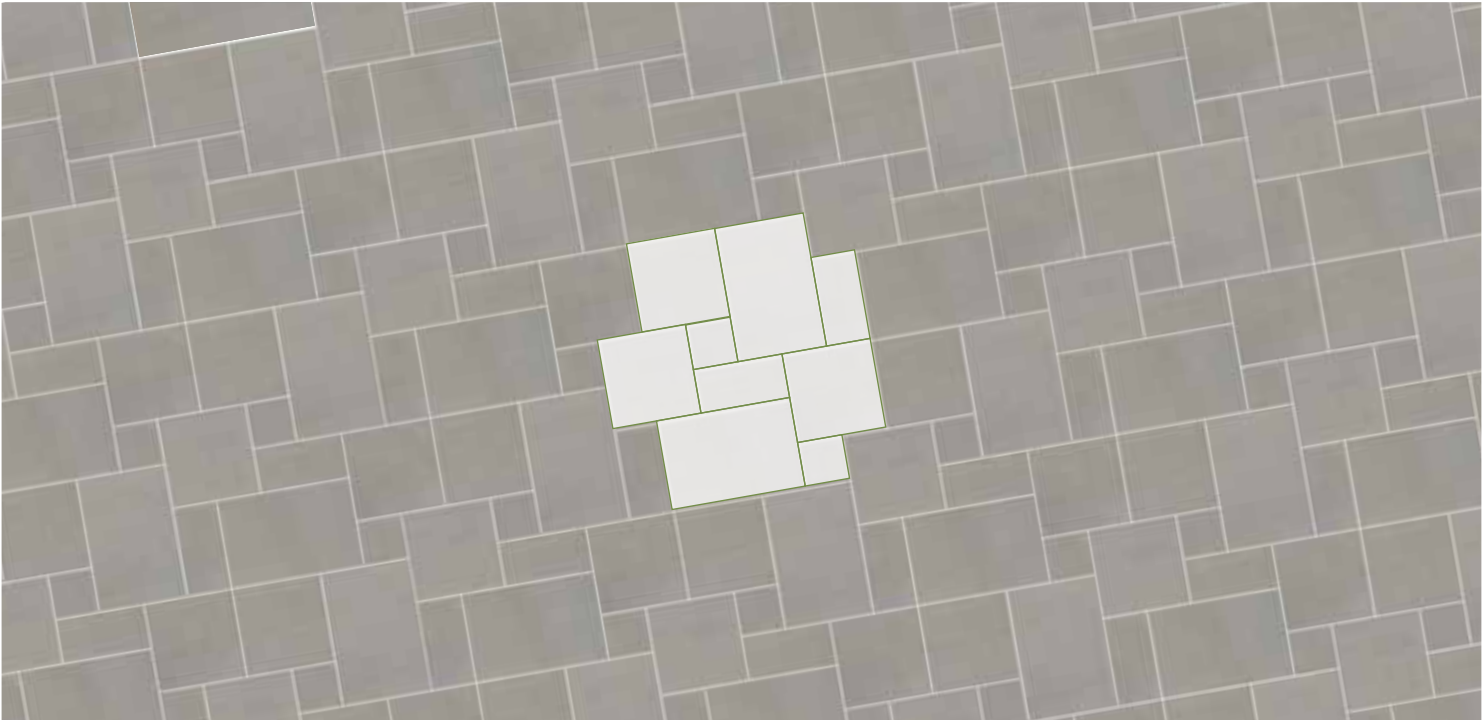
- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

Available colors HP2

- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color

* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

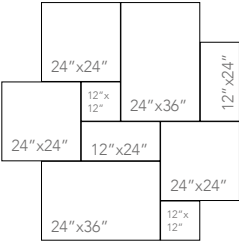
M.P.D. BIG EIGHT*



Module percentage

% HP1
24"x24" = 40%
12"x12" = 7%
24"x36" + 12"x24" (MIX) = 53% **

% HP2
24"x36" = 40%
24"x24" = 40%
12"x24" = 13%
12"x12" = 7%



Available colors HP1

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

Available colors HP2

- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color

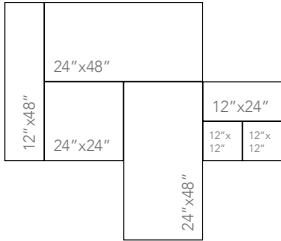
* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

M.P.D. BIG NINE*



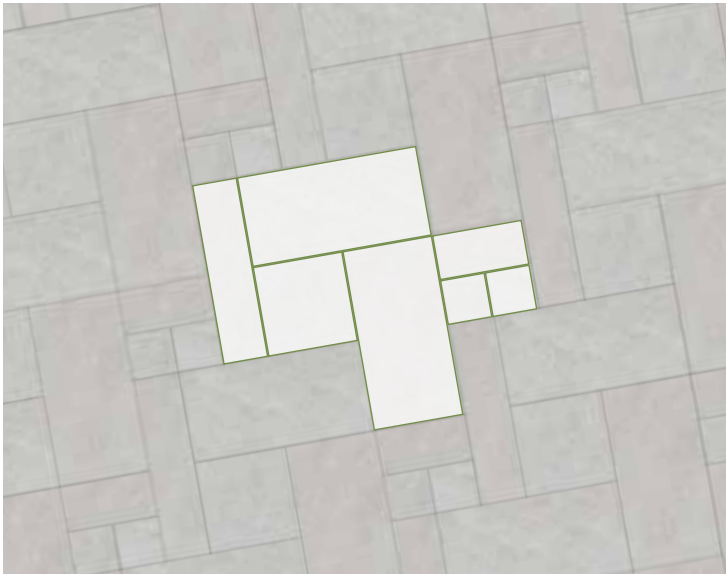
Module percentage

24"x48" = 58%
12"x48" = 14%
24"x24" = 14%
12"x24" = 7%
12"x12" = 7%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



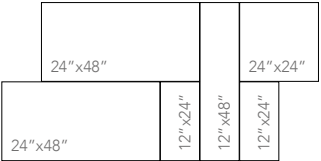
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG TEN*



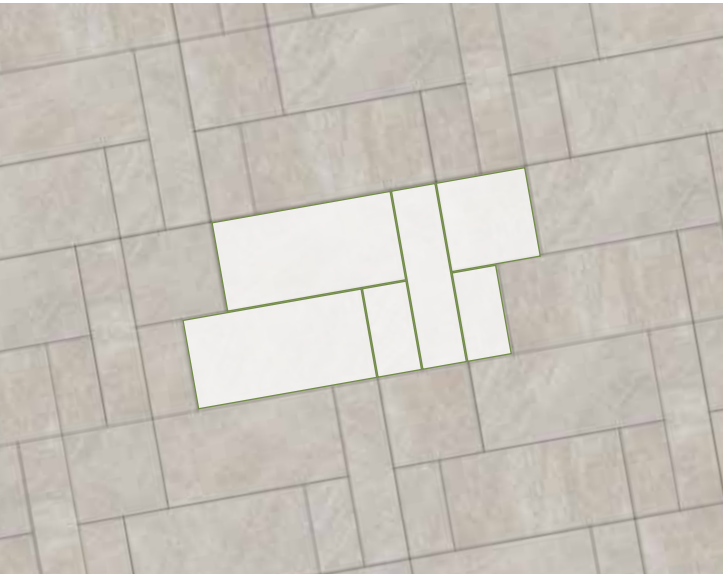
Module percentage

24"x48" = 58%
12"x48" = 14%
24"x24" = 14%
12"x24" = 14%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



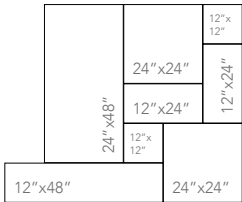
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG ELEVEN*



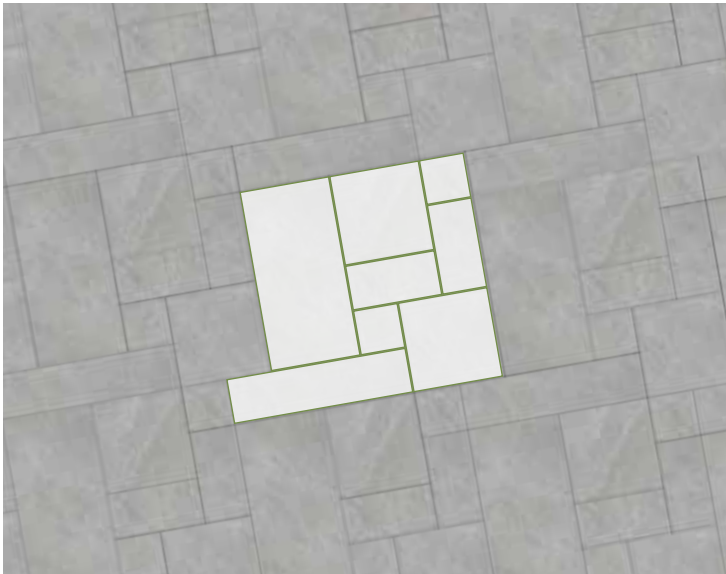
Module percentage

24"x48" = 31%
12"x48" = 15%
24"x24" = 31%
12"x24" = 15%
12"x12" = 8%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



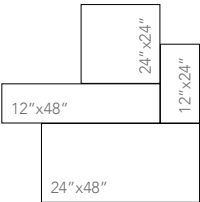
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG TWELVE*



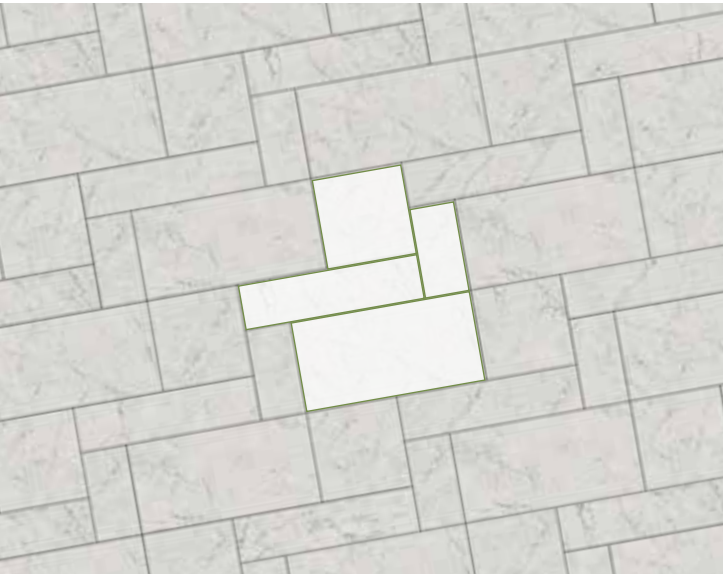
Module percentage

24"x48" = 22%
12"x48" = 45%
24"x24" = 22%
12"x24" = 11%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



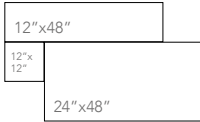
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG THIRTEEN*



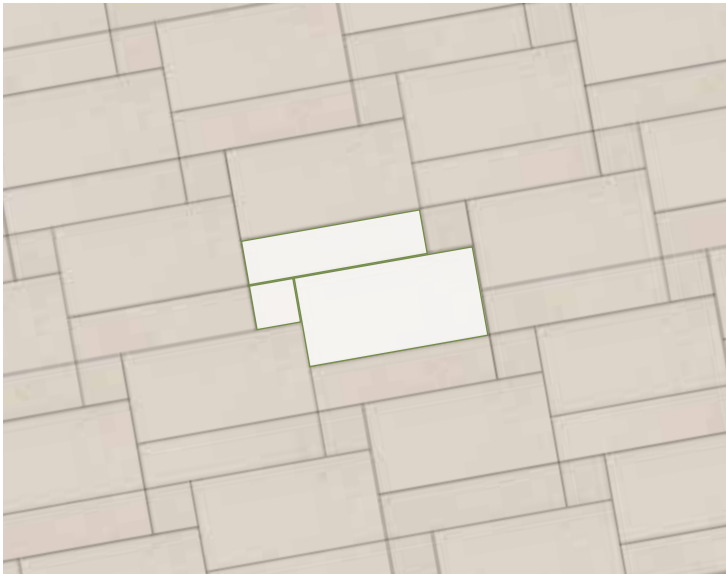
Module percentage

24"x48" = 62%
12"x48" = 30%
12"x12" = 8%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



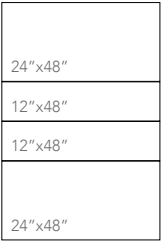
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG FOURTEEN*



Module percentage

24"x48" = 67%
12"x48" = 33%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



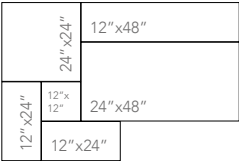
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG FIFTEEN*



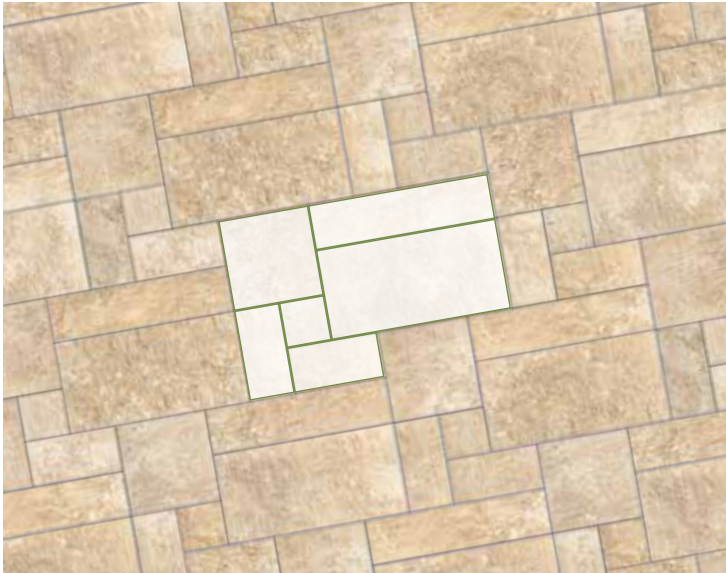
Module percentage

24"x48" = 38%
12"x48" = 19%
24"x24" = 19%
12"x24" = 19%
12"x12" = 5%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



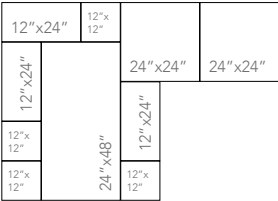
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG SIXTEEN*



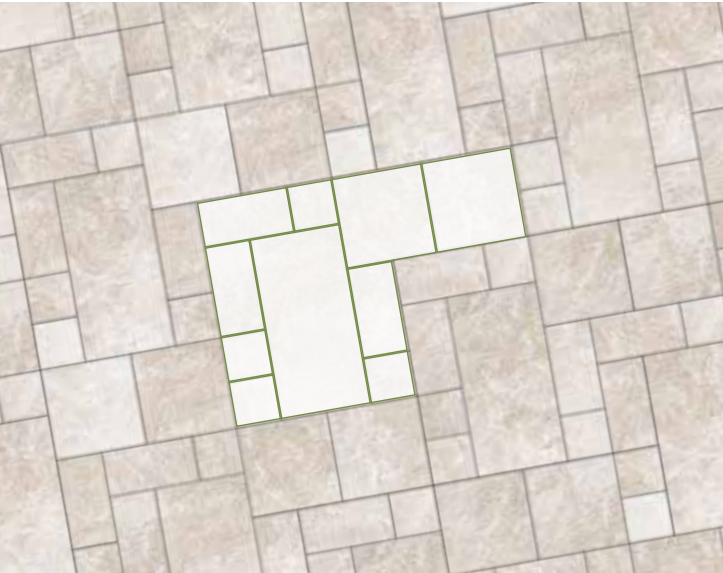
Module percentage

24"x48" = 31%
24"x24" = 31%
12"x24" = 23%
12"x12" = 15%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG SEVENTEEN*



Module percentage

24"x48" = 33,5%
12"x48" = 33,5%
24"x24" = 17%
12"x24" = 8%
12"x12" = 8%

12"x48"	12"x 12"	12"x 12"
24"x48"	12"x24"	
12"x48"	24"x24"	

Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG EIGHTEEN*



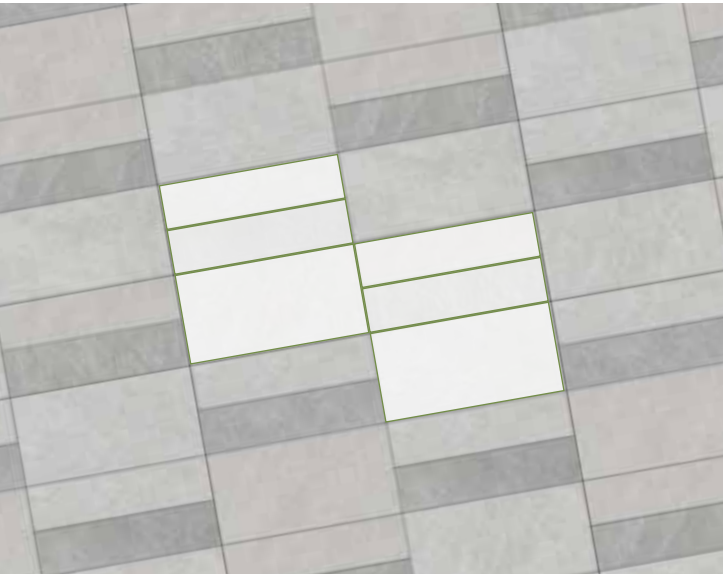
Module percentage

24"x48" = 50%
12"x48" = 50%

12"x48"	
12"x48"	
24"x48"	12"x48"
	12"x48"
	24"x48"

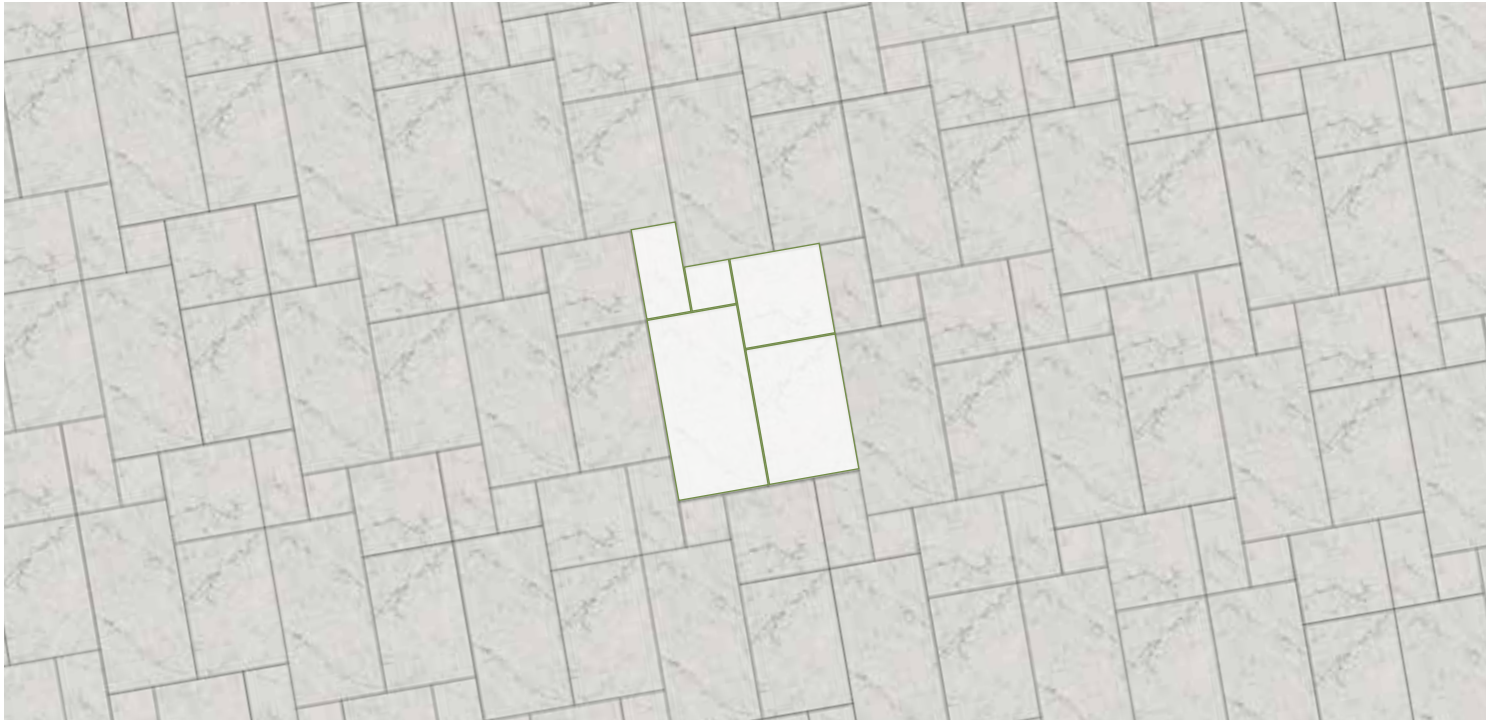
Available colors

- Bluestone Blue Select
- Bluestone Full color
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey



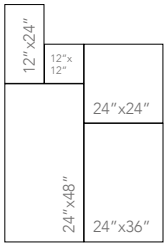
* Modular products with 6 mm joint (approx 1/4").

M.P.D. BIG NINETEEN*



Module percentage

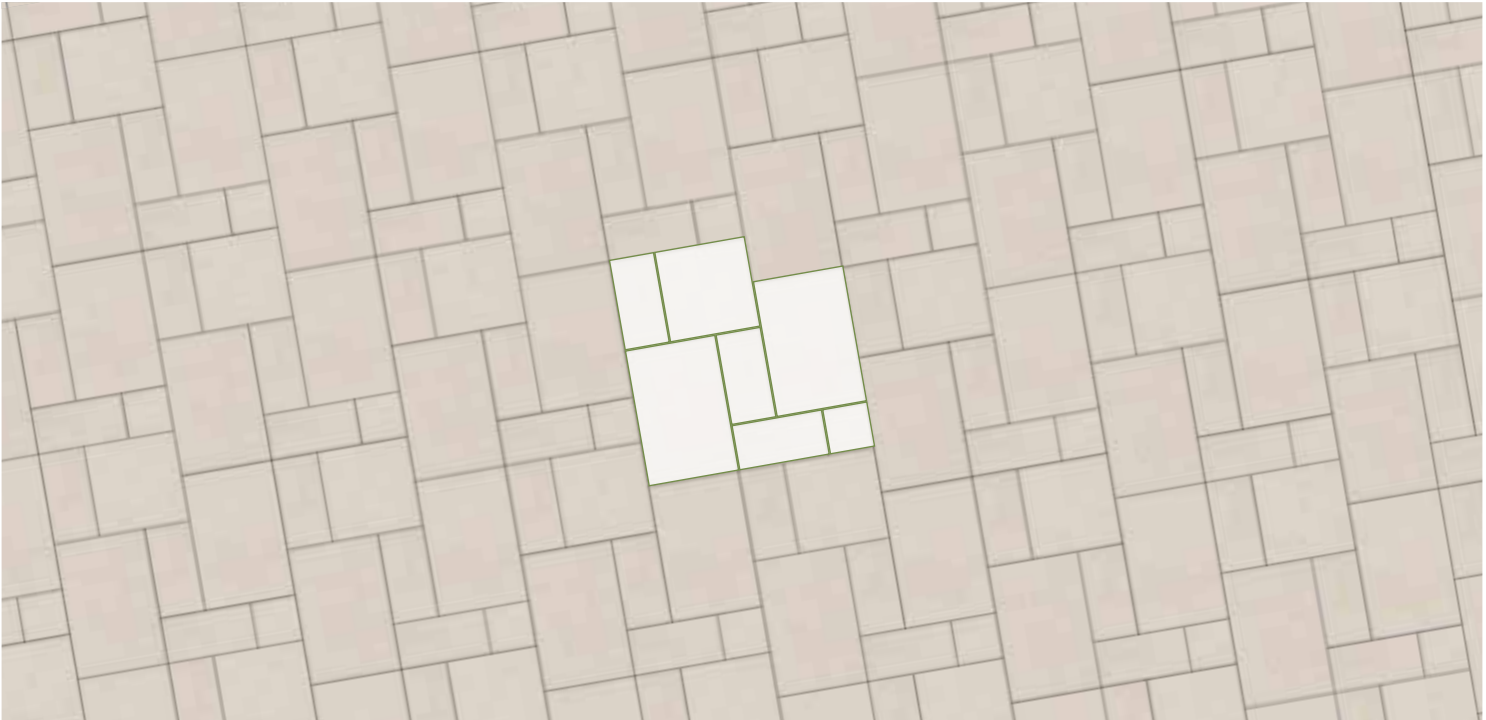
24"x48" = 38%
24"x24" = 19%
12"x12" = 5%
24"x36" + 12"x24" (MIX) = 38% **



Available colors

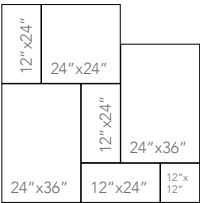
- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. BIG TWENTY*



Module percentage

% HP1
24"x24" = 18%
12"x12" = 4%
24"x36" + 12"x24" (MIX) = 78% **



% HP2
24"x36" = 52%
24"x24" = 18%
12"x24" = 26%
12"x12" = 4%

Available colors HP1

- Bluestone Blue Select
- Bluestone Full color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

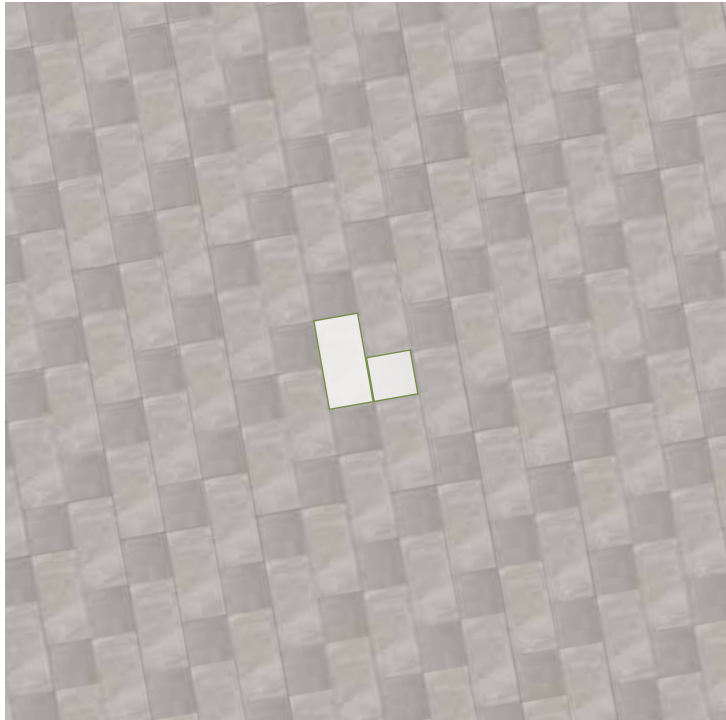
Available colors HP2

- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color

* Modular products with 6 mm joint (approx 1/4").
** NOTE: The 24"x36" and 12"x24" sizes (MIX) are palletized together on the same single pallet containing the correct percentages of each size.

* Modular products with 6 mm joint (approx 1/4").
** 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. SMALL ONE*



Module percentage

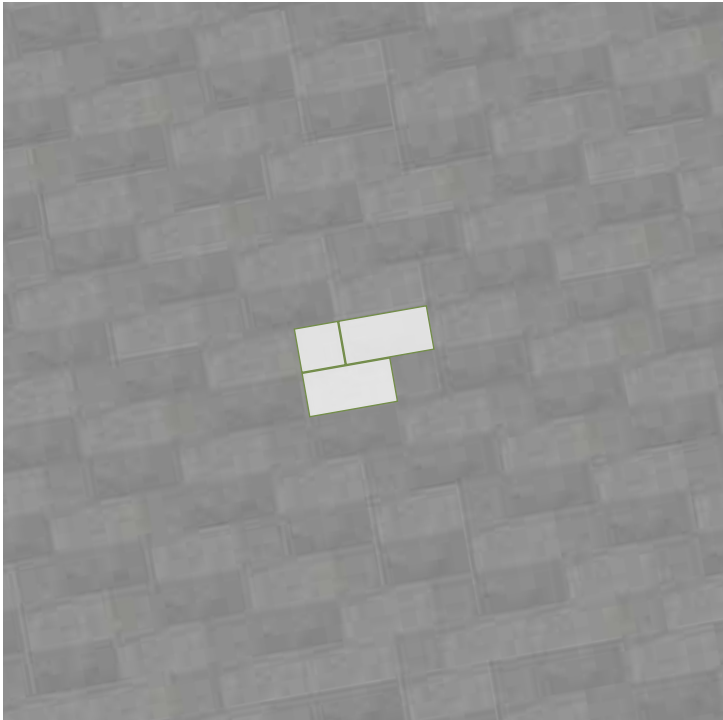
12"x24" = 67%
12"x12" = 33%



Available colors

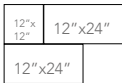
- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL TWO*



Module percentage

12"x24" = 80%
12"x12" = 20%



Available colors

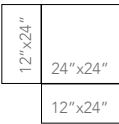
- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL THREE*



Module percentage

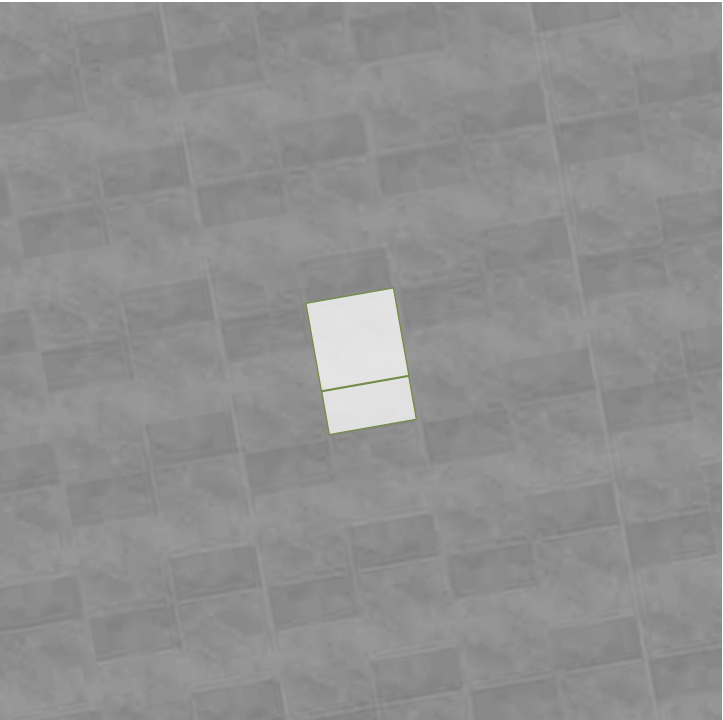
24"x24" = 50%
12"x24" = 50%



Available colors

- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey
- Vintage Slab
- Barge Gold
- Silver Quartz

M.P.D. SMALL FOUR*



Module percentage

24"x24" = 67%
12"x24" = 33%



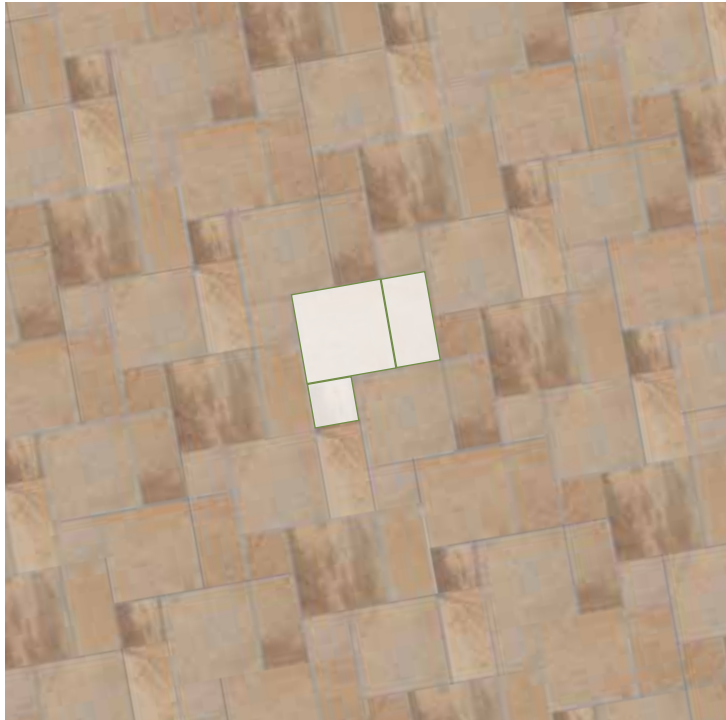
Available colors

- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey
- Vintage Slab
- Barge Gold
- Silver Quartz

* Modular products with 6 mm joint (approx 1/4").

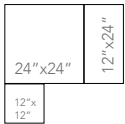
* Modular products with 6 mm joint (approx 1/4").

M.P.D. SMALL FIVE*



Module percentage

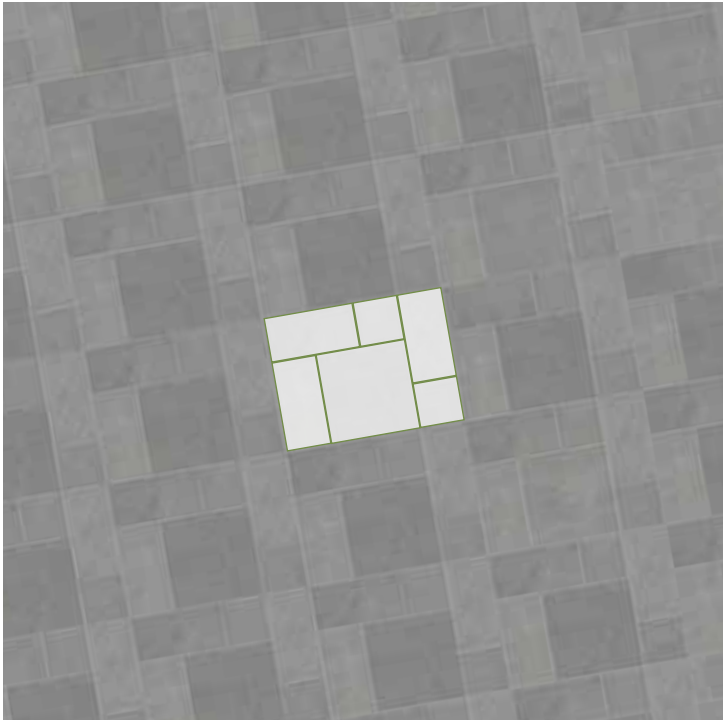
24"x24" = 57%
12"x24" = 29%
12"x12" = 14%



Available colors

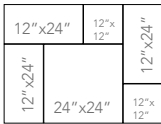
- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL SIX*



Module percentage

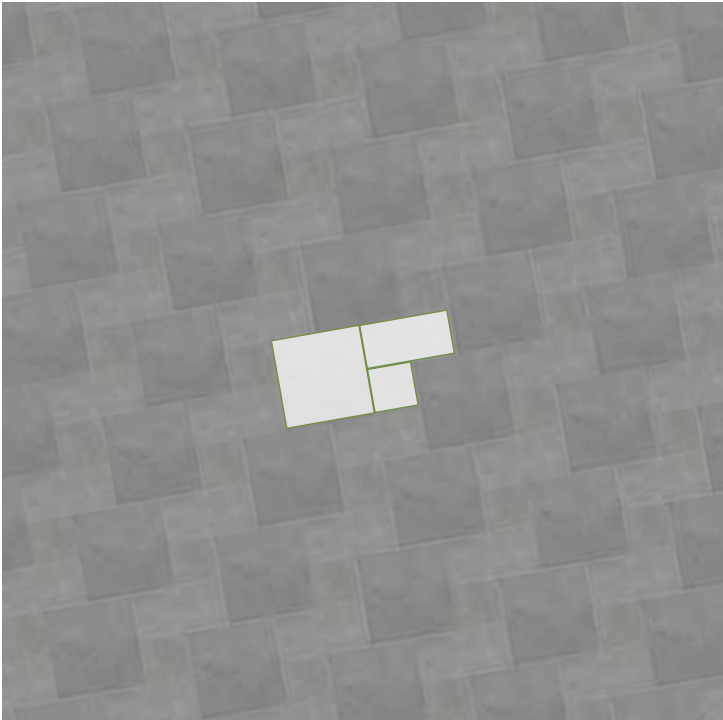
24"x24" = 33%
12"x24" = 50%
12"x12" = 17%



Available colors

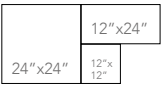
- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL SEVEN*



Module percentage

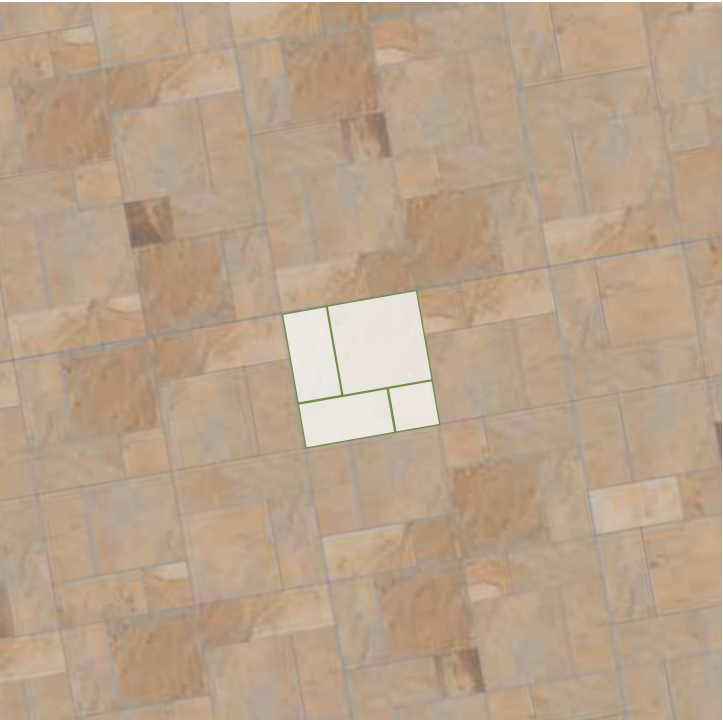
24"x24" = 57%
12"x24" = 29%
12"x12" = 14%



Available colors

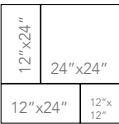
- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL EIGHT*



Module percentage

24"x24" = 44%
12"x24" = 45%
12"x12" = 11%



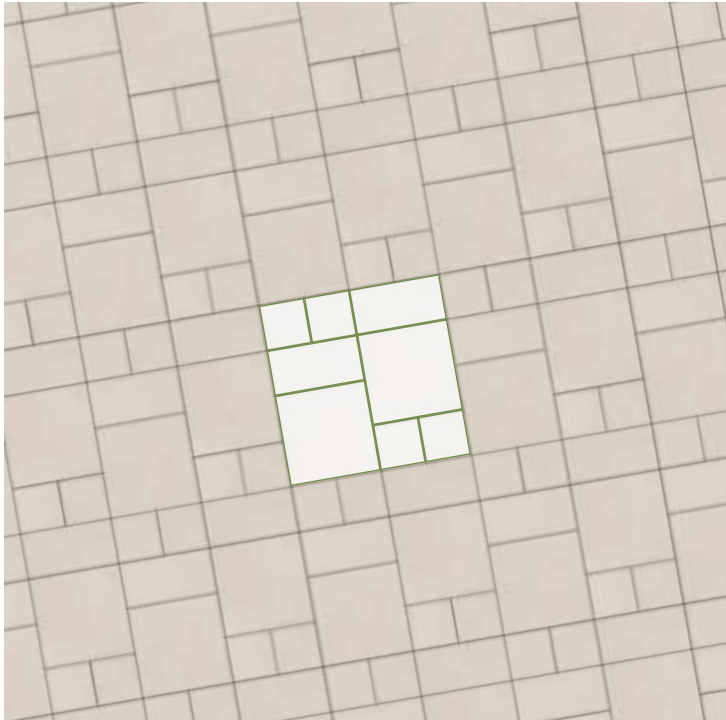
Available colors

- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

* Modular products with 6 mm joint (approx 1/4").

* Modular products with 6 mm joint (approx 1/4").

M.P.D. SMALL NINE*



Module percentage

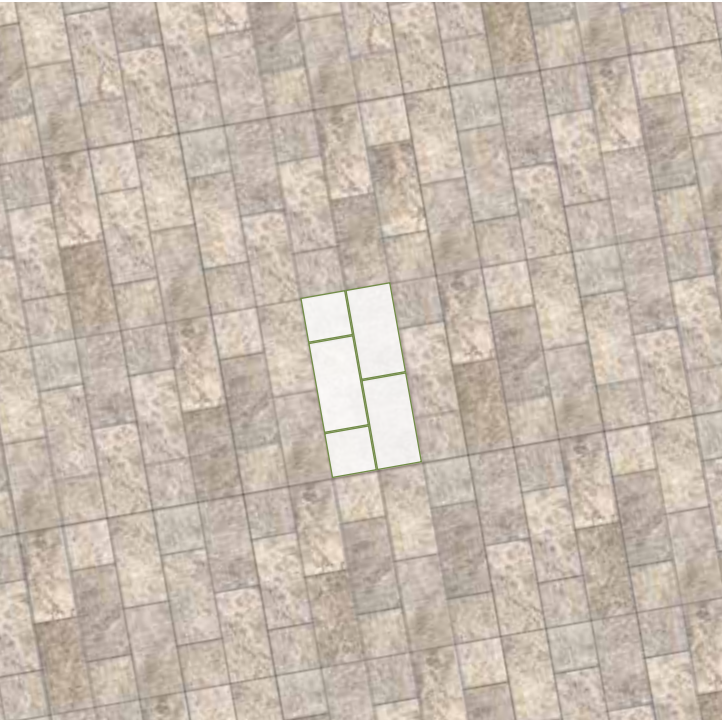
24"x24" = 50%
12"x24" = 25%
12"x12" = 25%

12"x 12"	12"x 12"	12"x24"
12"x24"		
24"x24"		12"x 12"

Available colors

- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

M.P.D. SMALL TEN*



Module percentage

12"x24" = 75%
12"x12" = 25%

12"x 12"	12"x24"
12"x24"	12"x 12"

Available colors

- Bluestone Blue Select
- Bluestone Full color
- Thermal Bluestone Blue Select
- Thermal Bluestone Full Color
- Flagstone Pink-Tan
- Travertine Cross Cut White
- Travertine Cross Cut Cream
- Travertine Cross Cut Silver
- Limestone
- Michelangelo Extra White
- Arctic White
- African Beige
- Star Grey

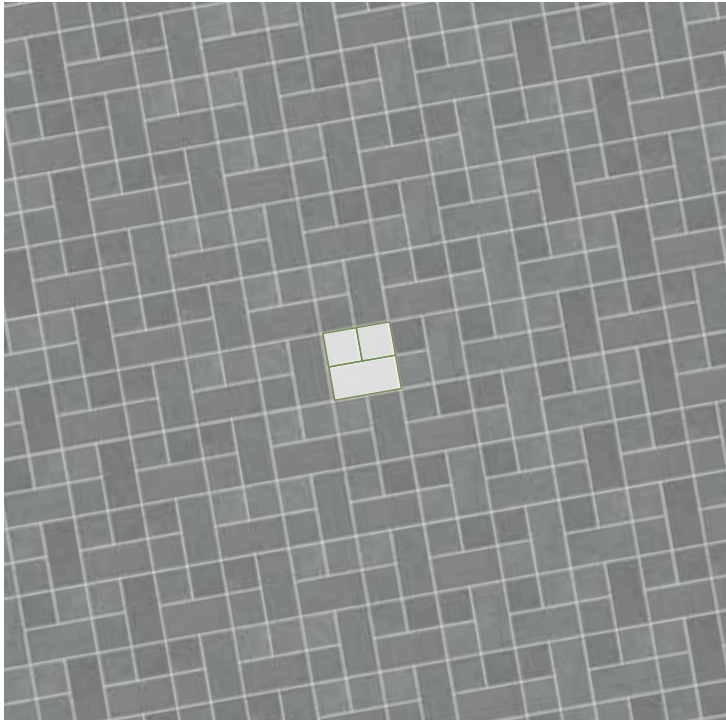


PROJECT

OUTDOOR FLOOR DESIGN
Frontier20 Travertine Cross Cut Silver - 24"x24"
Frontier20 Travertine Cross Cut Silver - 12"x24"
WALL DESIGN
Brick World Soho Black - 3"x12"

* Modular products with 6 mm joint (approx 1/4").

M.P.D. MINI ONE*



Module percentage

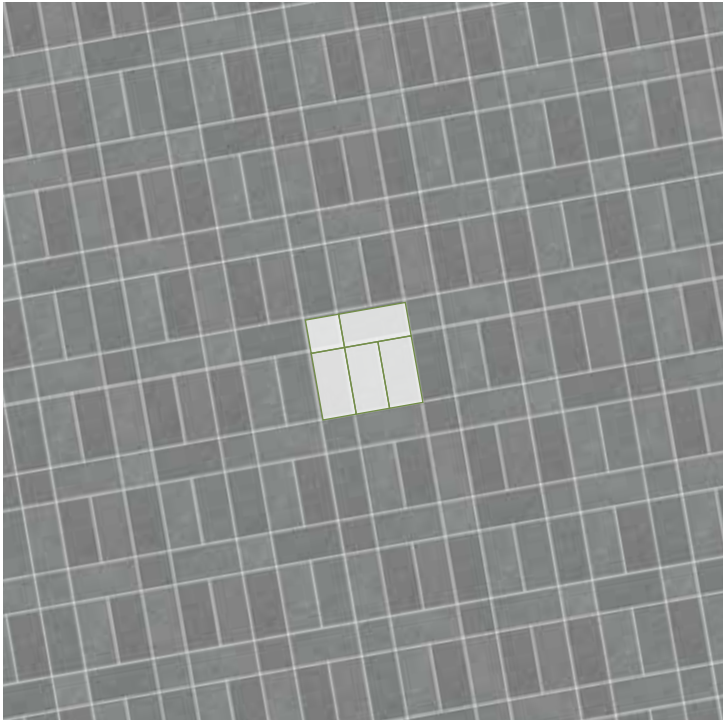
9"x18" = 50%
9"x9" = 50%



Available color

● Tumbled Bluestone

M.P.D. MINI TWO*



Module percentage

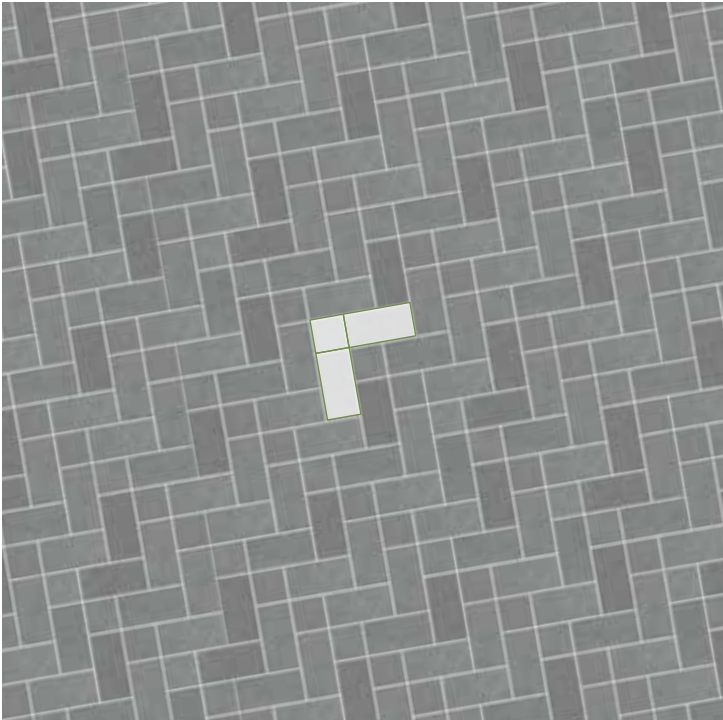
9"x18" = 89%
9"x9" = 11%



Available color

● Tumbled Bluestone

M.P.D. MINI THREE*



Module percentage

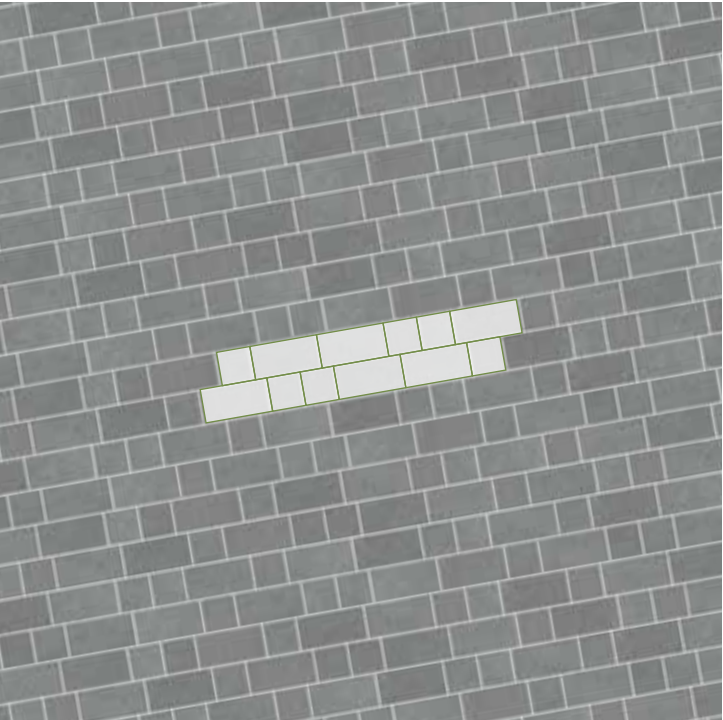
9"x18" = 80%
9"x9" = 20%



Available color

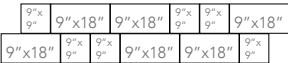
● Tumbled Bluestone

M.P.D. MINI FOUR*



Module percentage

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



Available color

● Tumbled Bluestone

* Modular products with 6 mm joint (approx 1/4").

* Modular products with 6 mm joint (approx 1/4").

PRODUCT RANGE.

PROJECT

FLOOR DESIGN

Frontier20 Essence Brown - 12"x48"

Frontier20 Essence Brown Stair Tread - 12"x48"

Frontier20 Essence Brown Coping Corner - 12"x48"

Frontier20 Essence Brown Riser - 6"x48"

BLUESTONE DESIGN PROJECT

THERMAL BLUESTONE
BLUE SELECT

AMERICANSTONE ★



Available sizes



24"x36"
± 0.8"



24"x24"
± 0.8"



12"x24"
± 0.8"



12"x12"
± 0.8"

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 BLUE SELECT


AMERICANSTONE ★




Available sizes




24"x48"
± 0.8"




12"x48"
± 0.8"



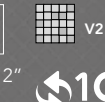
24"x36" ♦
± 0.8"



24"x24"
± 0.8"



12"x24"
± 0.8"



12"x12"
± 0.8"

Color shading



V2

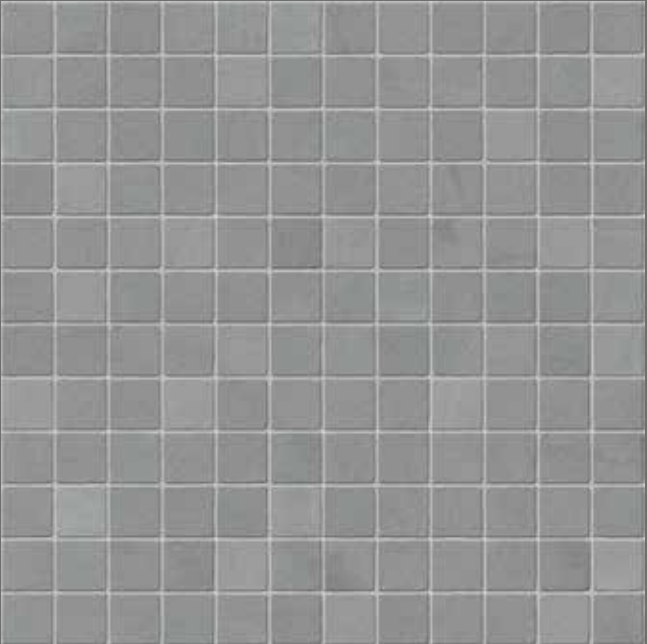


10%
WITH 100% POST-CONSUMER
RECYCLED MATERIAL

BLUESTONE DESIGN PROJECT

BLUE SELECT BLUESTONE
COBBLESTONE CUBE

AMERICANSTONE ★



Available size



24"x24"
± 0.8"

Color shading



Color Shading



V1
UNIFORM APPEARANCE



V2
SLIGHT VARIATION



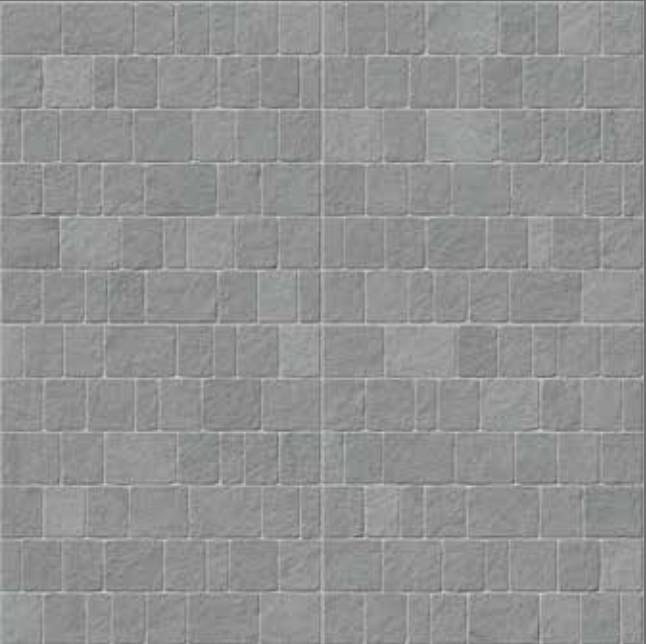
V3
MODERATE VARIATION



V4
SUBSTANTIAL VARIATION

BLUE SELECT BLUESTONE
COBBLESTONE MULTISIZE

AMERICANSTONE ★



Available size



24"x24"
± 0.8"

Color shading



♦ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

BLUESTONE DESIGN PROJECT

THERMAL BLUESTONE
FULL COLOR

AMERICANSTONE ★



Available sizes



Color shading



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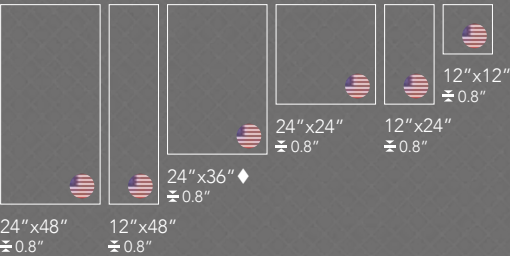
This porcelain paver product is manufactured with a V3/V4 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any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

BLUESTONE FULL COLOR

AMERICANSTONE ★



Available sizes



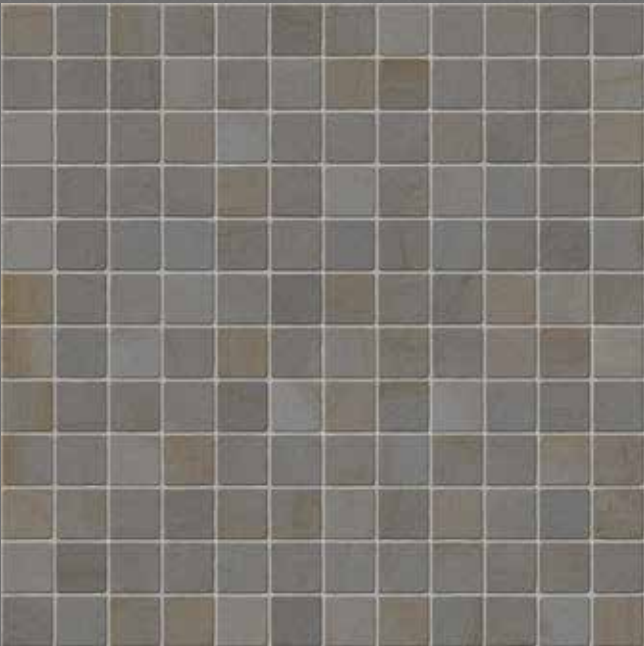
Color shading



BLUESTONE DESIGN PROJECT

FULL COLOR BLUESTONE
COBBLESTONE CUBE

AMERICANSTONE ★



Available size



Color shading



FULL COLOR BLUESTONE
COBBLESTONE MULTISIZE

AMERICANSTONE ★



Available size



Color shading



Color Shading



◆ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

BLUESTONE DESIGN PROJECT

TUMBLLED BLUESTONE AMERICANSTONE ★



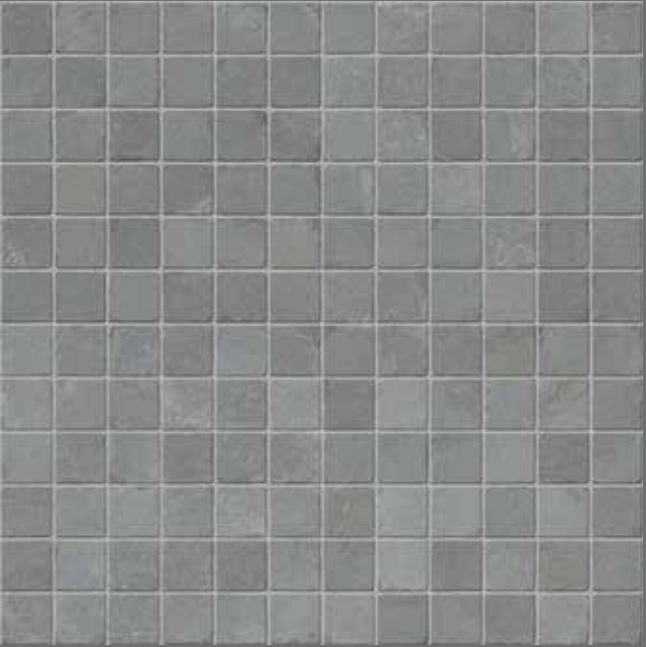
Available sizes



Color shading



TUMBLLED BLUESTONE COBBLESTONE CUBE AMERICANSTONE ★



Available size



Color shading

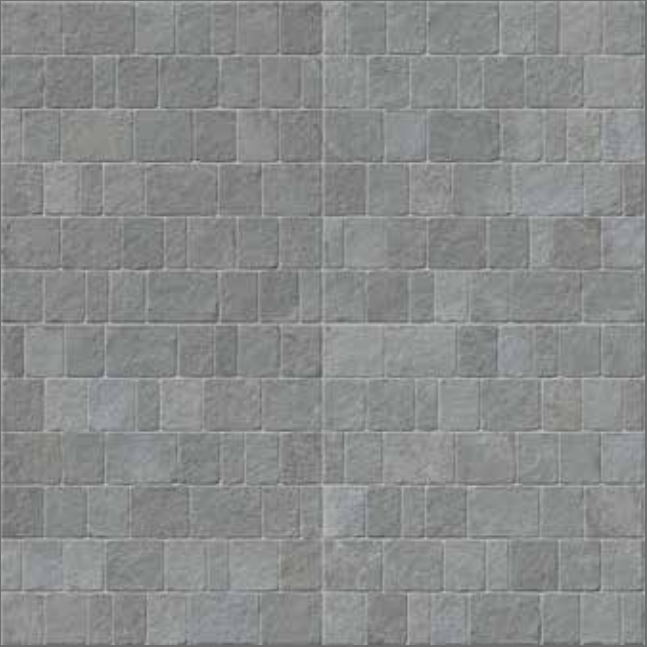


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This porcelain paver product is manufactured with a V3 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes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

BLUESTONE DESIGN PROJECT

TUMBLLED BLUESTONE COBBLESTONE MULTISIZE AMERICANSTONE ★



Available size



Color shading



Color Shading



FRONTIER20

AMERICANSTONE★

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

FLAGSTONE LOOK

FLAGSTONE PINK-TAN

AMERICANSTONE★



Available sizes



Color shading



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FLAGSTONE BROWN

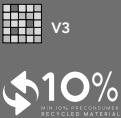
AMERICANSTONE★



Available size



Color shading



PROJECT

OUTDOOR FLOOR DESIGN
Frontier20 Flagstone Pink-Tan - 24"x24"

◆ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

SLATE LOOK

MULTICOLOR GOLD

AMERICANSTONE ★



Available size



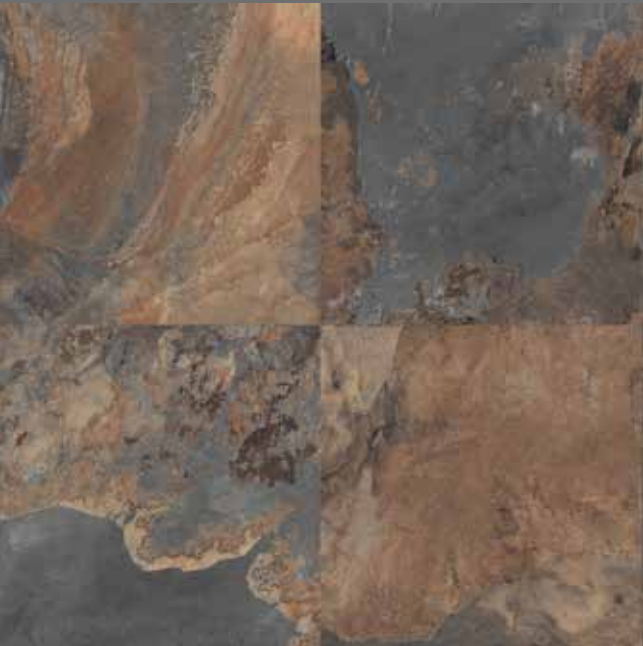
24" x 24"
± 0.8"

Color shading



MULTICOLOR DARK

AMERICANSTONE ★



Available size



24" x 24"
± 0.8"

Color shading



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SLATE LOOK

VINTAGE SLAB

AMERICANSTONE ★



Available sizes







24" x 24"
± 0.8" 12" x 24"
± 0.8"

Color shading



Color Shading

 V1 UNIFORM APPEARANCE	 V2 SLIGHT VARIATION	 V3 MODERATE VARIATION	 V4 SUBSTANTIAL VARIATION
---	---	---	--

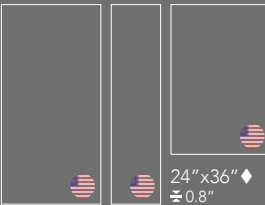
LIMESTONE LOOK

LIMESTONE

AMERICANSTONE ★



Available sizes



24" x 48"
± 0.8" 12" x 48"
± 0.8" 24" x 36" ♦
± 0.8" 24" x 24"
± 0.8" 12" x 24"
± 0.8"

Color shading

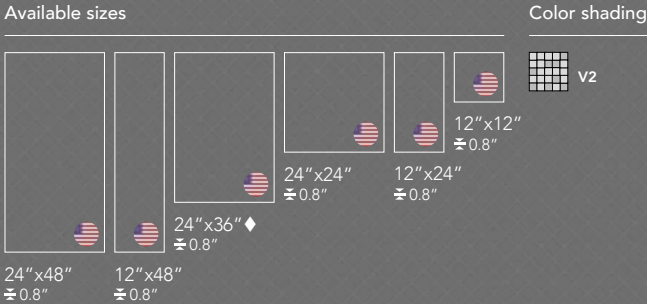


♦ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

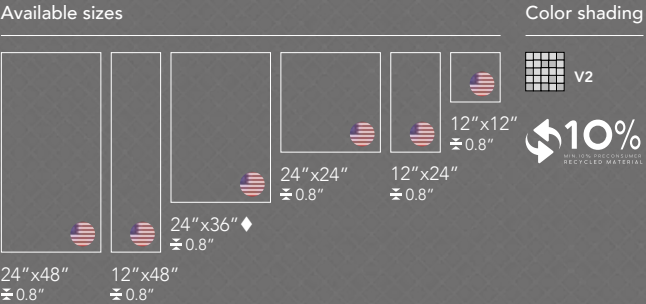
COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

TRAVERTINE CROSS CUT DESIGN PROJECT

TRAVERTINE CROSS CUT WHITE AMERICANSTONE★

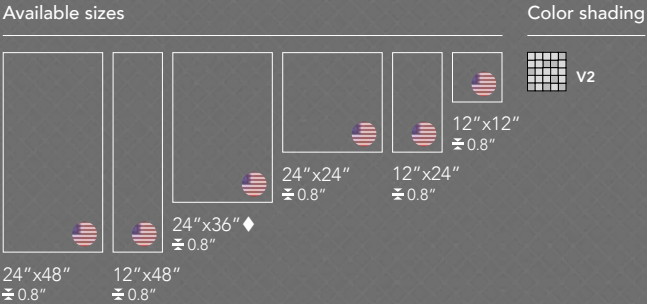


TRAVERTINE CROSS CUT SILVER AMERICANSTONE★

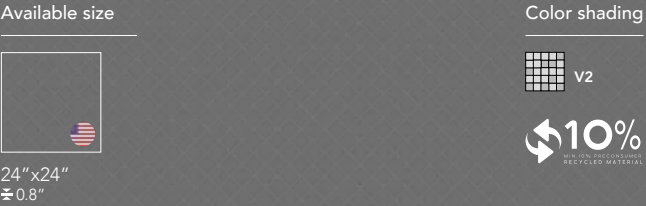


TRAVERTINE CROSS CUT DESIGN PROJECT

TRAVERTINE CROSS CUT CREAM AMERICANSTONE★



TRAVERTINE CROSS CUT NOCE AMERICANSTONE★



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QUARTZITE DESIGN PROJECT

ARCTIC WHITE



Available sizes

24"x48"

±0.8"

12"x48"

±0.8"

24"x36" ♦

±0.8"

24"x24"

±0.8"

12"x24"

±0.8"

12"x12"

±0.8"

Color shading

Grid icon

V2

AFRICAN BEIGE



Available sizes

24"x48"

±0.8"

12"x48"

±0.8"

24"x36" ♦

±0.8"

24"x24"

±0.8"

12"x24"

±0.8"

12"x12"

±0.8"

Color shading

Grid icon

V2

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QUARTZITE DESIGN PROJECT

STAR GREY



Available sizes

24"x48"

±0.8"

12"x48"

±0.8"

24"x36" ♦

±0.8"

24"x24"

±0.8"

12"x24"

±0.8"

12"x12"

±0.8"

Color shading

Grid icon

V2

Color Shading

Grid icon

V1

UNIFORM APPEARANCE

Grid icon

V2

SLIGHT VARIATION

Grid icon

V3

MODERATE VARIATION

Grid icon

V4

SUBSTANTIAL VARIATION



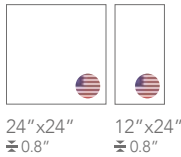
♦ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

QUARTZ LOOK

BARGE GOLD



Available sizes



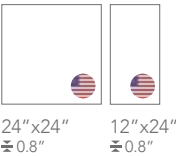
Color shading



SILVER QUARTZ



Available sizes

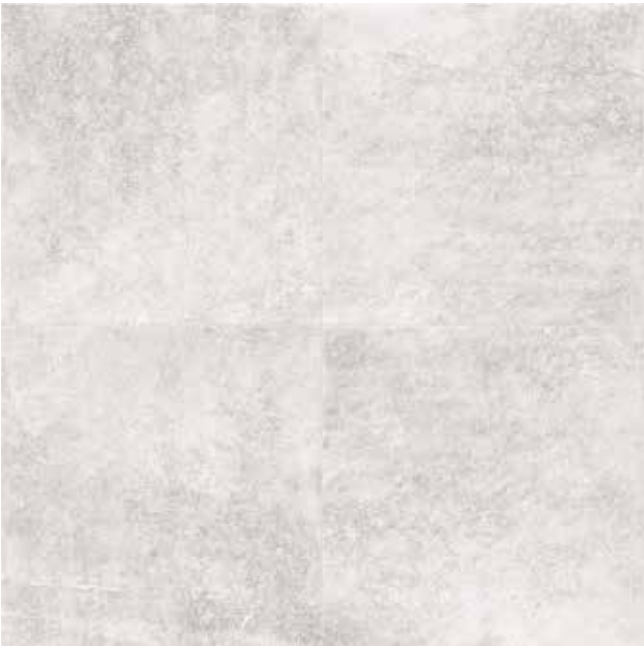


Color shading



STONE LOOK

NATURAL IVORY



Available size



Color shading



MODERN GREY



Available size



Color shading



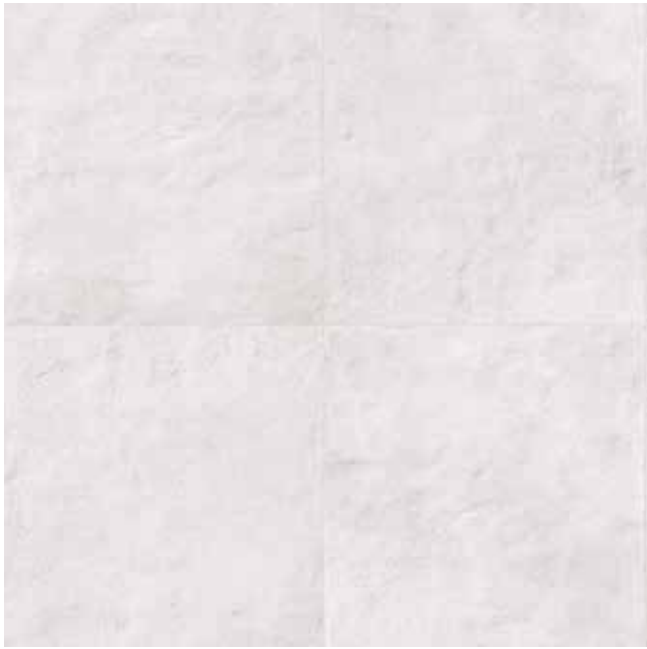
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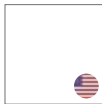


CONCRETE LOOK

FREEDOM WHITE



Available size



24" x 24"
± 0.8"

Color shading

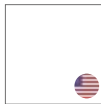


V2

PASSION SILVER



Available size



24" x 24"
± 0.8"

Color shading



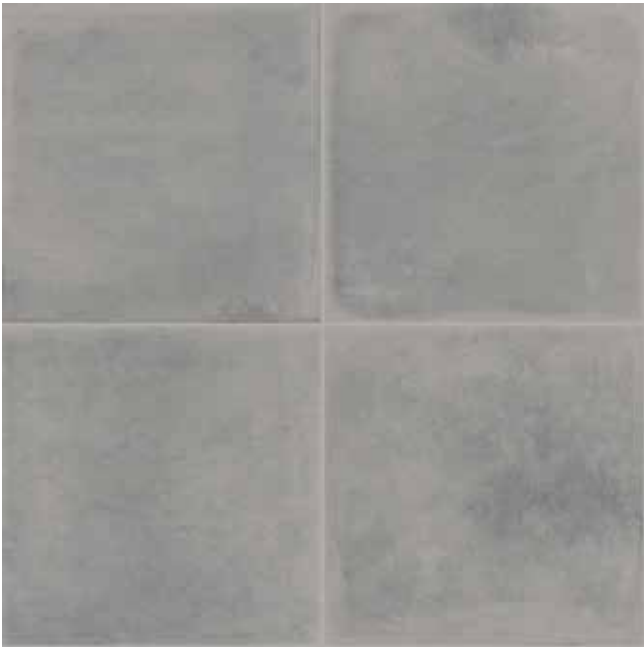
V2

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This porcelain paver product is manufactured with a V1/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.

CONCRETE LOOK

SIMPLY GREY



Available sizes



24" x 24"
± 0.8"



18" x 36"
± 0.8"

Color shading



V1

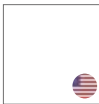


10%
RECYCLED MATERIALS

WARM SAND



Available size



24" x 24"
± 0.8"

Color shading



V1

Color Shading



V1
UNIFORM APPEARANCE



V2
SLIGHT VARIATION



V3
MODERATE VARIATION



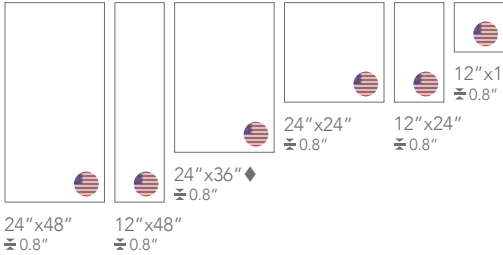
V4
SUBSTANTIAL VARIATION

MARBLE LOOK

MICHELANGELO EXTRA WHITE



Available sizes



Color shading



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PROJECT

FLOOR DESIGN

- Frontier20 Michelangelo Extra White - 12"x48"
- Frontier20 Michelangelo Extra White - 24"x48"
- Frontier20 Michelangelo Extra White - 12"x24"
- Frontier20 Michelangelo Extra White Stair Tread - 12"x24"
- Frontier20 Michelangelo Extra White Riser - 24"x8"

◆ NOTE: 24"x36" is sold as mix (24"x36" + 12"x24") along with 12"x24". The two sizes are palletized on the same pallet and sold together.

STONE LOOK

SKY



Available size



24" x 24"
± 0.8"

Color shading



V2

DESERT



Available size



24" x 24"
± 0.8"

Color shading



V2

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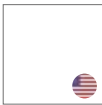
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STONE LOOK

ABSOLUTE



Available size



24" x 24"
± 0.8"

Color shading



V2



COSMOS



Available size



24" x 24"
± 0.8"

Color shading



V2



Color Shading

V1	V2	V3	V4
UNIFORM APPEARANCE	SLIGHT VARIATION	MODERATE VARIATION	SUBSTANTIAL VARIATION

QUARTZ LOOK

PIETRA DI BARGE



Available size



18"x36"
±0.8"

Color shading



V2

POINT SILVER



Available size



18"x36"
±0.8"

Color shading



V2

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STONE LOOK

PIETRA DI BAGNOLO



Available size



18"x36"
±0.8"

Color shading



V2

TRAVERTINE LOOK

SOURCE BEIGE



Available size



18"x36"
±0.8"

Color shading



V2

WOOD LOOK

SOUL WALNUT



Available size



12" x 48"
± 0.8"

Color shading



V2

SOUL GREY



Available size



12" x 48"
± 0.8"

Color shading



V2

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WOOD LOOK

ESSENCE GREY



Available size



12" x 48"
± 0.8"

Color shading



V2

ESSENCE BROWN



Available size



12" x 48"
± 0.8"

Color shading



V2

Color Shading

 V1 UNIFORM APPEARANCE	 V2 SLIGHT VARIATION	 V3 MODERATE VARIATION	 V4 SUBSTANTIAL VARIATION
---	---	---	--

WOOD LOOK

WALNUT



Available size



24" x 24"
± 0.8"

Color shading



V3



PEPPER



Available size



24" x 24"
± 0.8"

Color shading



V3



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PROJECT

OUTDOOR FLOOR DESIGN
Frontier20 Essence Grey - 12"x48"

TECHNICAL INFORMATION.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Blue Select Bluestone - 24"x24"

Frontier20 Blue Select Bluestone Coping - 12"x24"

Frontier20 Blue Select Bluestone Coping Corner - 12"x24"

WALL DESIGN

Veneer World Pro LedgeStone Bluestone Blue Select - 6"x24"

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 $\frac{3}{16}$ " (4 mm) spacers ($\frac{1}{4}$ " - 6mm for MPD installation) must always be used to install pavers on sand set and permeable installations. The photo on the right illustrates the use of the $\frac{3}{16}$ " 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

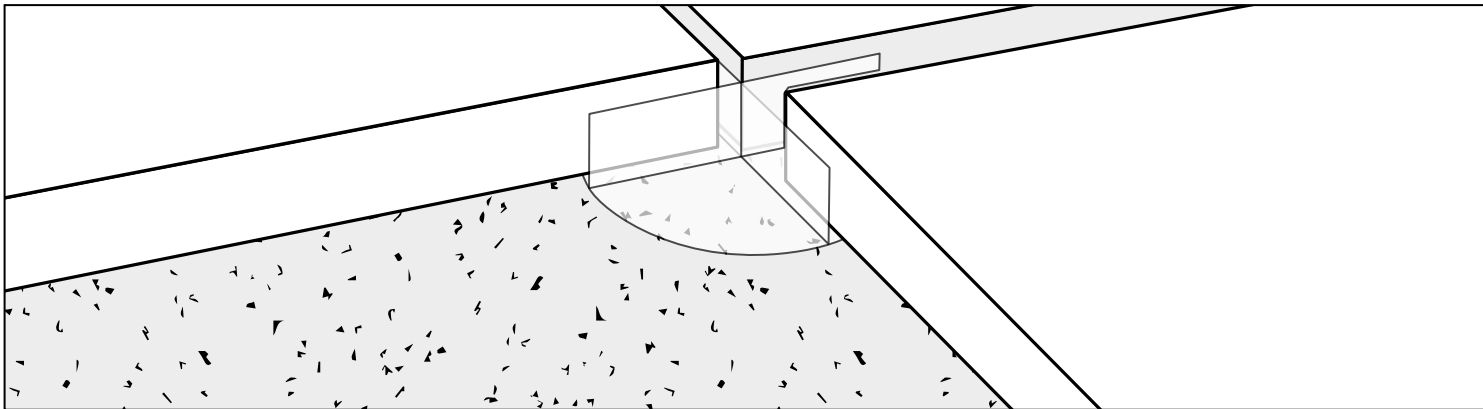
When installing porcelain paver on sand set base, fill the paver joints with these options:

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

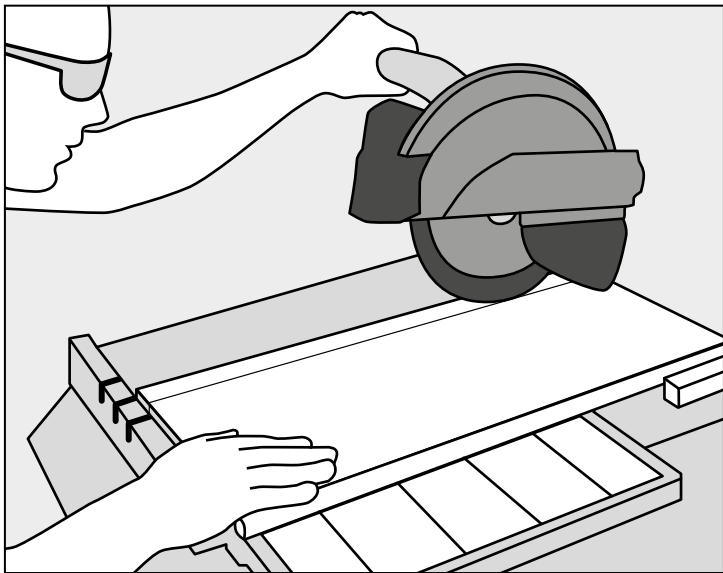
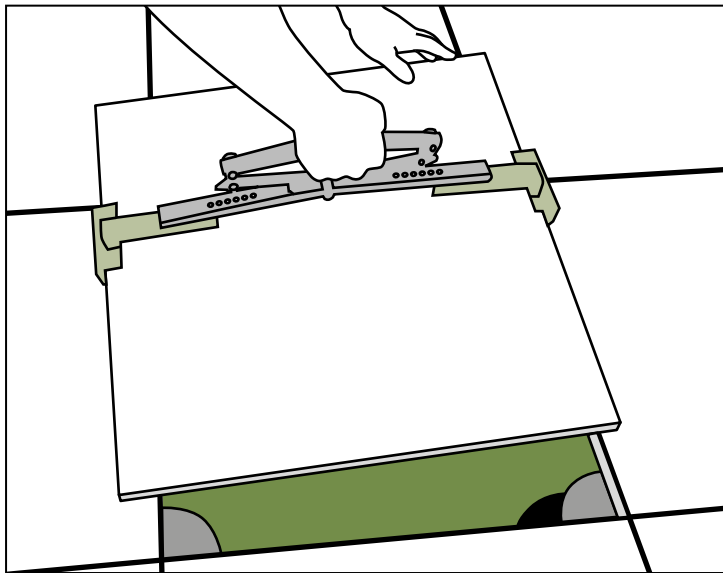
Polymeric sand is a blend of polymers which harden when subjected to moisture. Sweep the sand into the open joints until completely filled. All excess sand and dust must be swept from the surface. Use a blower for the final dust removal to make certain all excess sand is removed. Any residual sand or 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 $\frac{3}{16}$ ") 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.

IMPORTANT NOTES:
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.
3. Whether using traditional sand or a cemented blended sand, ensure the gradation of the sand is fine enough to pass through and fill the 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 it is 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.**

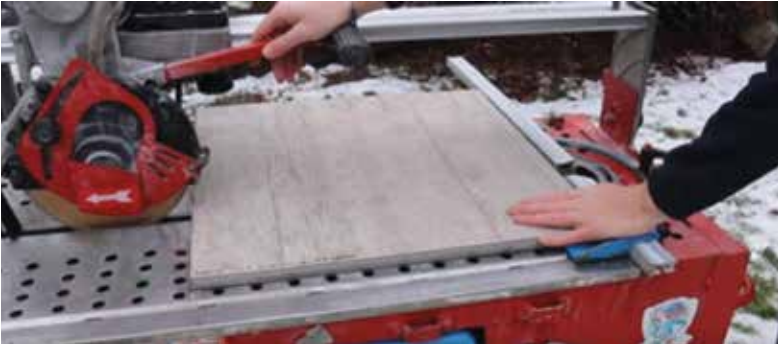


FIGURE 1



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>

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 pArcticular 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 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.

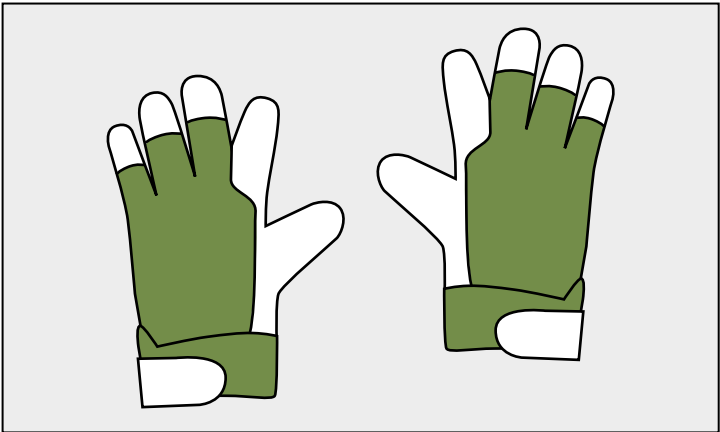
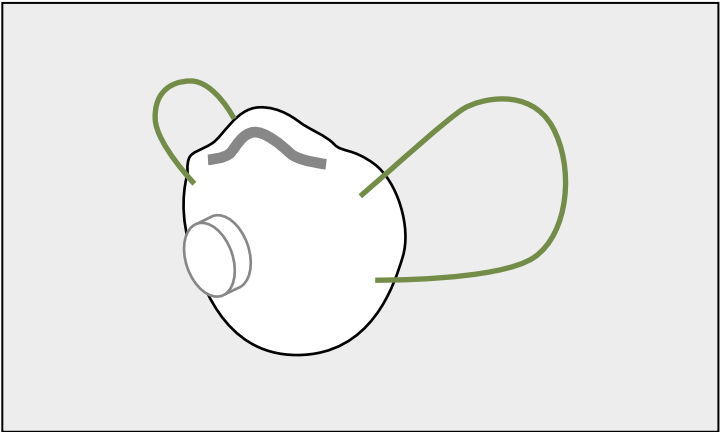
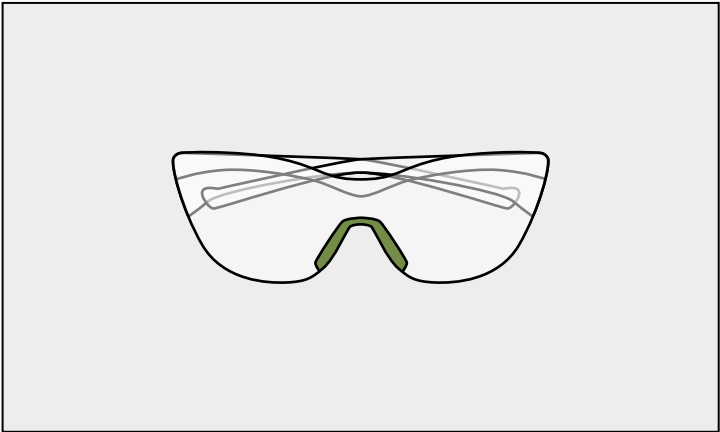
Once the core bit is in place and already moving, gently (and without pushing too much) make a continual and constant oscillatory movement until the hole from top to bottom thorough the paver is complete (figure 5). Landmark Ceramics recommendation is to use a high quality core bit specific for porcelain. 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=SVwzk894qdl>

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 pArcticular white and extra-white tiles, are very delicate and, although for all intent and purpose are hygienically clean, However, they can get dirty more easily than darker tiles. It is therefore necessary to remember that these pArcticular 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 after 12/48 h from installation.



PIC 5. Removal of excess grout residues with hard brush.













CLEANING AGENTS

TYPE OF STAIN	SOLUTION	DETERGENTS	MANUFACTURER
INORGANIC STAINS			
Cement Carbon Calcium Efflorescence Chalk Metallic residues Rust Cement-based grout Colored grout Wall paint	Acid	DETERGENT WITH AN ACID BASIS *	
		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			
Coca Cola Ice Cream Coffee Wine Beer Animal fats Vegetable fats Mustard Mayonnaise Ketchup Jam Linseed oil Lipstick Wax	Alkaline and neutral	LIMITED FOAM TYPE PRODUCT **	
		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 Coal and natural rubber Encres et feutres		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
		Aceton	Universal
		NITRO - THINNER	Universal
		TURPENTINE	Universal
		TRICHLORETHYLENE	Universal
		CIF AMMONIACAL	Universal
Tire	HAND CLEANSER	Universal	
Silicone and chewin-gum	Ice+scraper		

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

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	≥ 0.6	≥ 0.6
	Skid Resistance	DIN 51097	-	A+B+C
		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	COMPLY WITH ANSI A137.1

* 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 **outdoor.landmarkceramics.com** for the latest, most accurate and up-to-date information.

WARNINGS.

- 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 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. 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 **outdoor.landmarkceramics.com** website.





FRONTIER²⁰

**PORCELAIN PAVERS
LIKE NO OTHERS.**







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LEARN MORE ABOUT

