

LASTRA 20mm



PORCELAIN PAVERS

OUTDOOR DESIGN





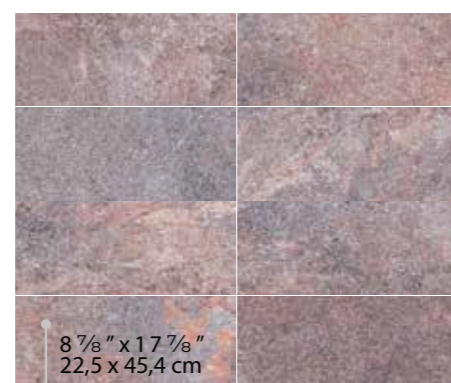
COLOR RANGE

Landscaping, patios, pools and urban design: Atlas Concorde porcelain pavers combine maximum freedom of style and excellent performance to create beautiful, long-lasting environments.



8 7/8" x 17 7/8"
22,5 x 45,4 cm

AIX Beige



8 7/8" x 17 7/8"
22,5 x 45,4 cm

DOLMEN PRO mix



11 3/4" x 47 1/4"
30 x 120 cm

EXCENCE Amber



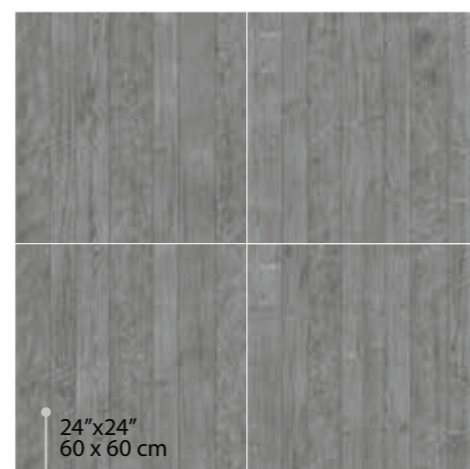
24"x24"
60 x 60 cm

AXI White Pine



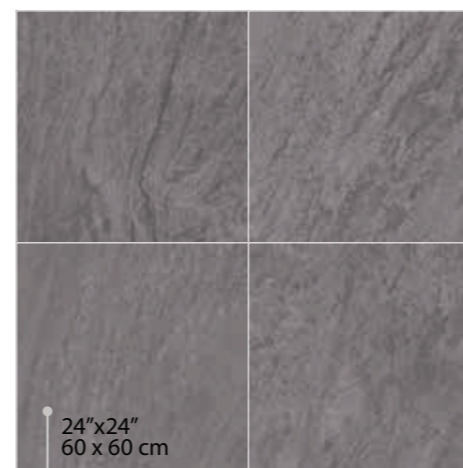
24"x24"
60 x 60 cm

AXI Brown Chestnut



24"x24"
60 x 60 cm

AXI Grey Timber



24"x24"
60 x 60 cm

BRAVE Grey



24"x24"
60 x 60 cm

BRAVE Gypsum



24"x24"
60 x 60 cm

BRAVE Pearl



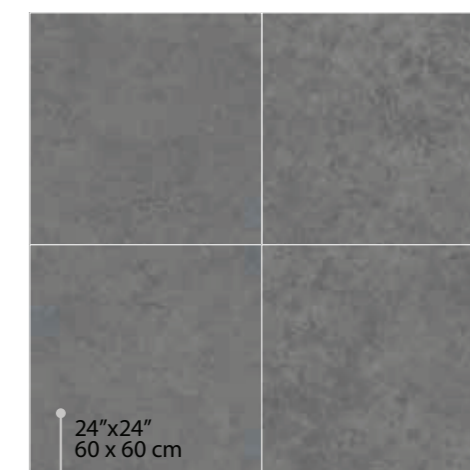
24"x24"
60 x 60 cm

BLOCK Bianco



24"x24"
60 x 60 cm

Mark Chrome



24"x24"
60 x 60 cm

SEASTONE Gray



24"x24"
60 x 60 cm

SUNROCK Rapolano Beige



24"x24"
60 x 60 cm

TRUST Gold



24"x24"
60 x 60 cm

TRUST Silver

PORCELAIN PAVERS

ADVANTAGES OF **LASTRA 20E**



Easy to install



Easy to replace, remove or install elsewhere with no need for masonry work



Easy to clean, safe to pressure wash



Continuous transition from indoor to outdoor spaces



Consistency of appearance compared to natural materials



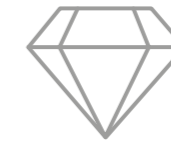
Wide range of trims

PORCELAIN PAVERS

LASTRA 20E TECHNICAL FEATURES



High breakage load
(Over 2,200 lbs for 24"x24" pavers)



Resistant and durable over time,
more than cement or natural stone
slabs



Excellent anti-slip features



Resistant to salts



Resistant to thermal shock



Impervious
(water absorption < 0.1%)



Frost-proof



Resistant to acids and bleach



Fire-proof (class A1 – EN 13501:1)



Resistant to attack from moss, mold
and pesticides

AIX BEIGE

LIMESTONE LOOK

8⁷/₈" x 17⁷/₈"



Vshade
V3
Moderate Variation



DCOF
> 0.42 wet



Not Rectified
225x454 mm



Thickness
20 mm



Stocked in the USA



OUTDOOR
DESIGN



DOLMEN PRO MIX

PORPHYRY STONE LOOK

8⁷/₈" x 17⁷/₈"



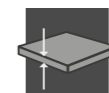
Vshade
V4
Considerable Variation



DCOF
> 0.42 wet



Not Rectified
598x598 mm



Thickness
20 mm



Stocked in the USA

EXCENCE AMBER

WOOD LOOK

11 3/4" x 47 1/4"



Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
296x1195 mm



Thickness
20 mm



OUTDOOR
DESIGN



AXI WHITE PINE

WOOD LOOK

24" x 24"



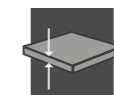
Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN

AXI BROWN CHESTNUT

WOOD LOOK

24" x 24"



Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN



AXI GREY TIMBER

WOOD LOOK

24" x 24"



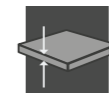
Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN

BRAVE GREY

QUARTZITE LOOK

24" x 24"



Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN



BRAVE GYPSUM

QUARTZITE LOOK

24" x 24"



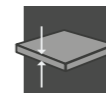
Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



BRAVE PEARL

QUARTZITE LOOK

24" x 24"



Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN



BLOCK BIANCO

QUARTZITE LOOK

24" x 24"



Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN

MARK CHROME

CONCRETE LOOK

24" x 24"



Vshade
V3
Moderate Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN



SEASTONE GRAY

BLUESTONE LOOK

24" x 24"



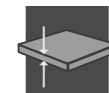
Vshade
V2
Slight Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN

SUNROCK RAPOLANO BEIGE

LIMESTONE LOOK

24" x 24"



Vshade
V3
Moderate Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN



TRUST GOLD

QUARTZITE LOOK

24" x 24"



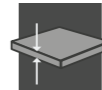
Vshade
V3
Moderate Variation



DCOF
> 0.42 wet



Working Size
598x598 mm



Thickness
20 mm



OUTDOOR
DESIGN

TRUST SILVER

QUARTZITE LOOK

24" x 24"



Vshade
V3
Moderate Variation



DCOF
> 0.42 wet



Working Size
598x598 mm

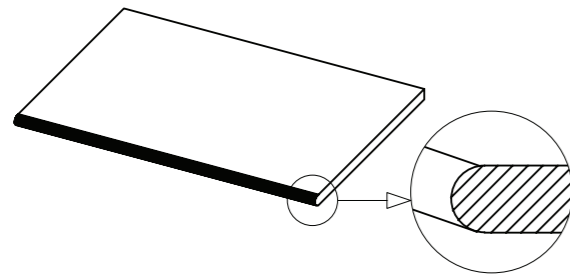


Thickness
20 mm

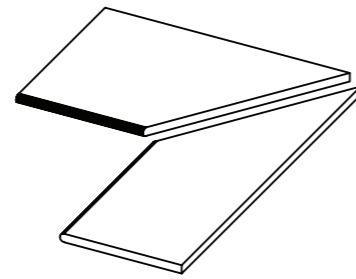


OUTDOOR
DESIGN

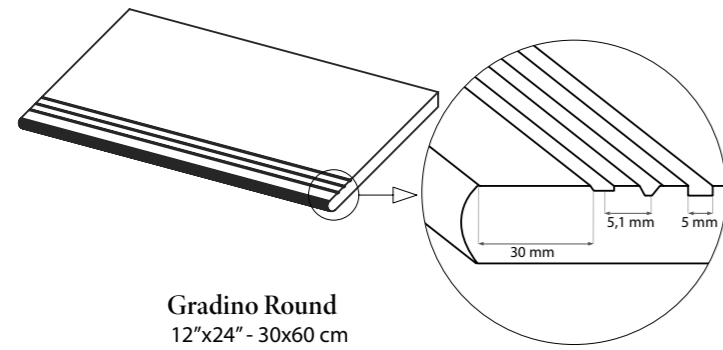
TRIM TILES



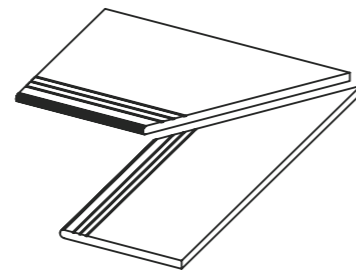
Round
12"x24" - 30x60 cm
Working Size
598x297 mm



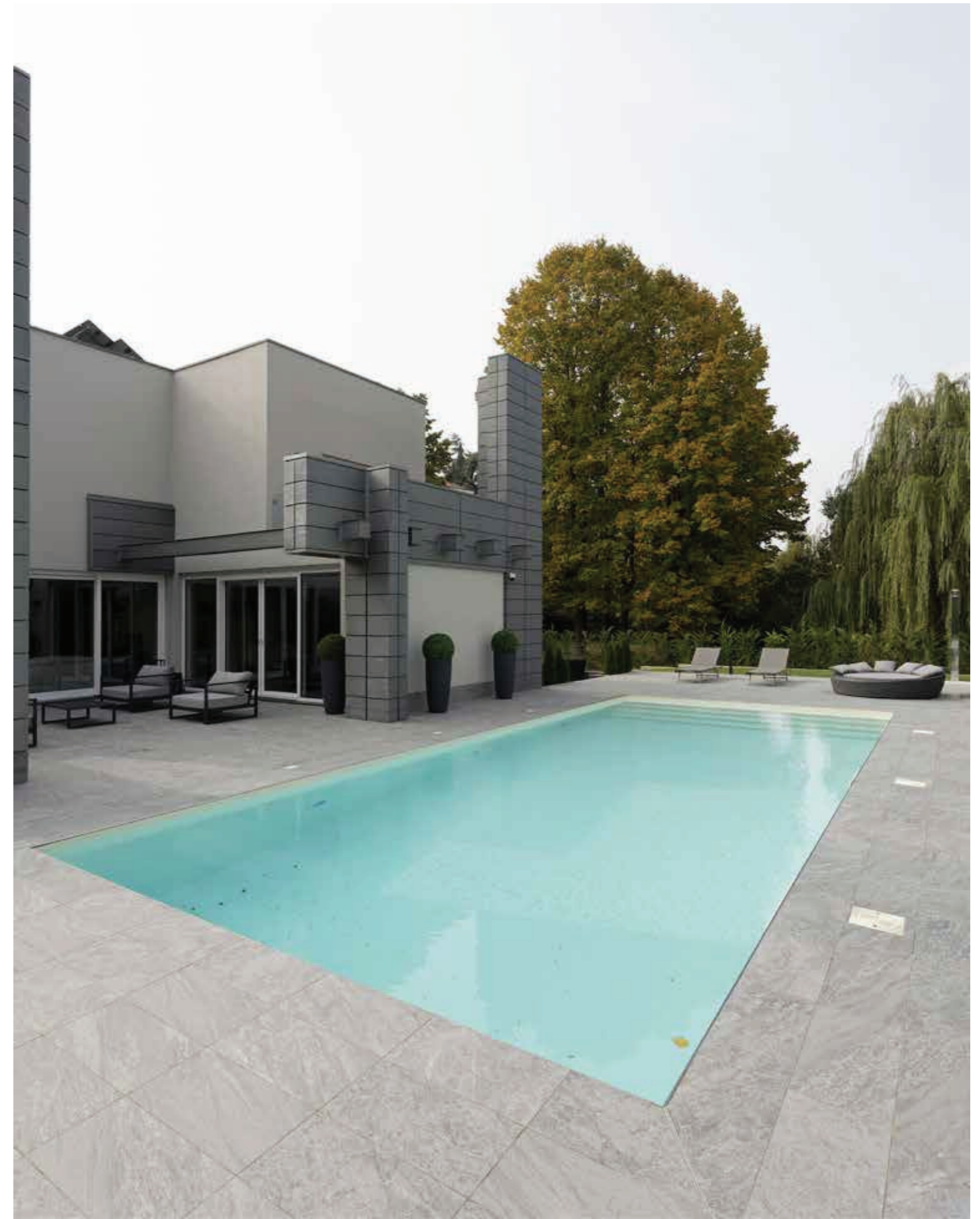
Round Angle Left/Right
12"x24" - 30x60 cm
Working Size
598x297 mm



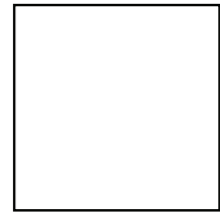
Gradino Round
12"x24" - 30x60 cm
Working Size
598x297 mm



Gradino Round Angle Left/Right
12"x24" - 30x60 cm
Working Size
598x297 mm



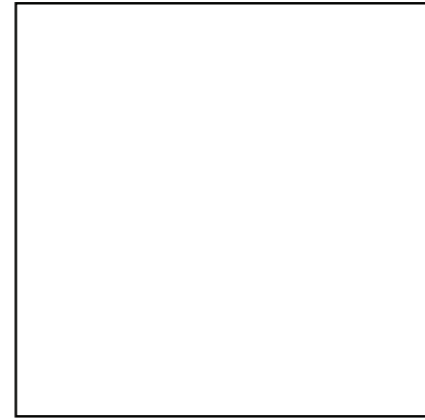
PATTERNS



12"x12" - 30x30 cm



12"x24" - 30x60 cm

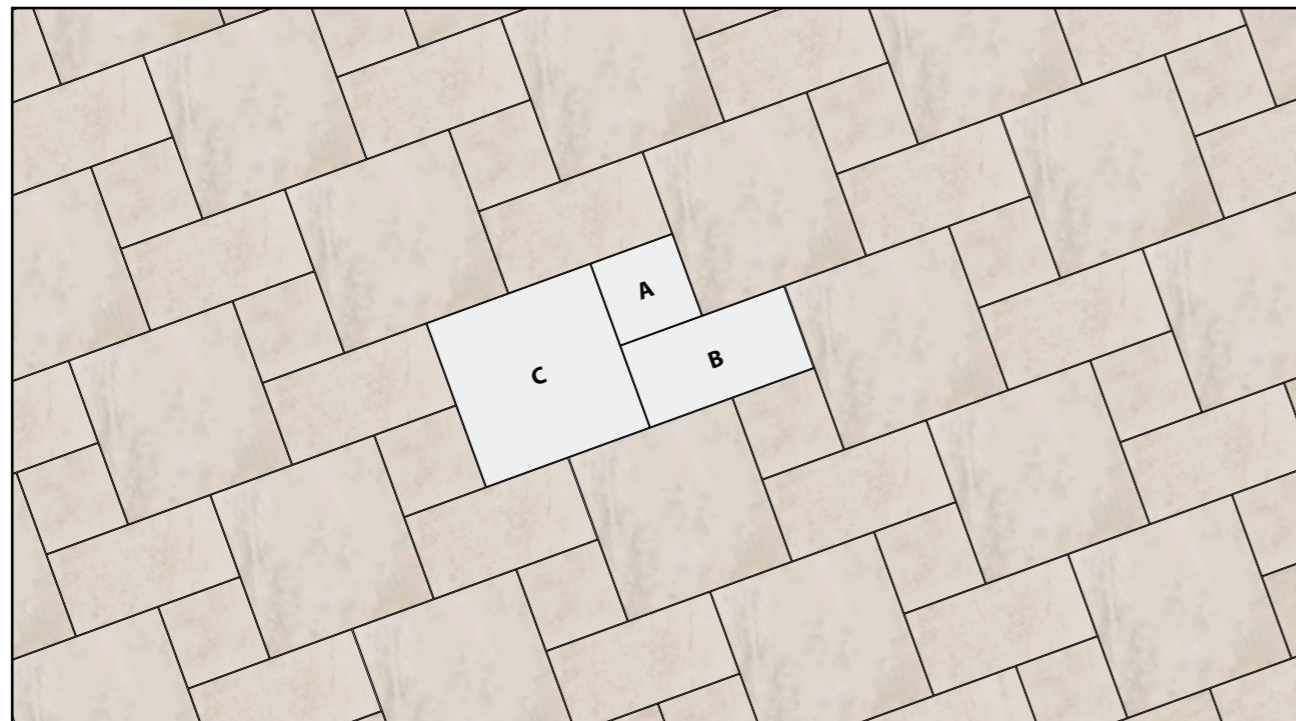


24"x24" - 60x60 cm

Pattern solutions are available in every color. Sizes are mixed in the correct ratio on the same pallet.

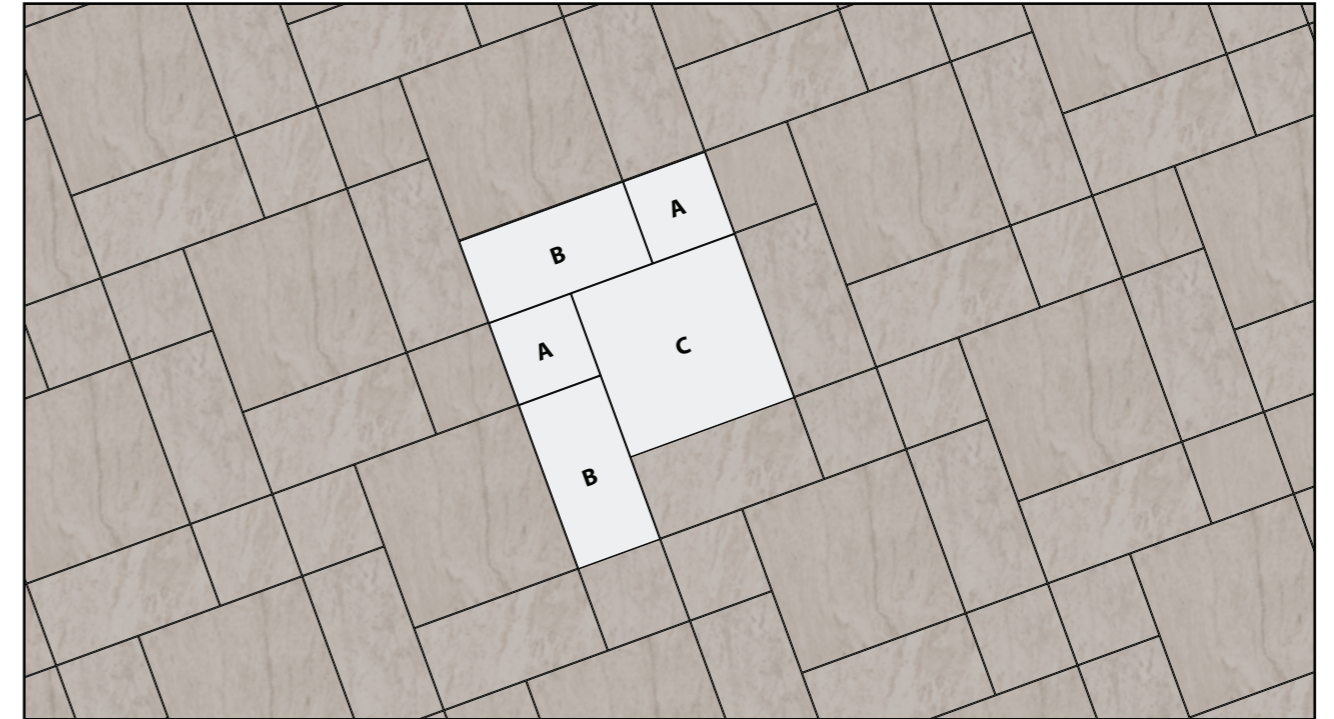
PATTERN 1

A | 12"x12" - 30x30 cm **14%** **B | 12"x24"** - 30x60 cm **29%** **C | 24"x24"** - 60x60 cm **57%**



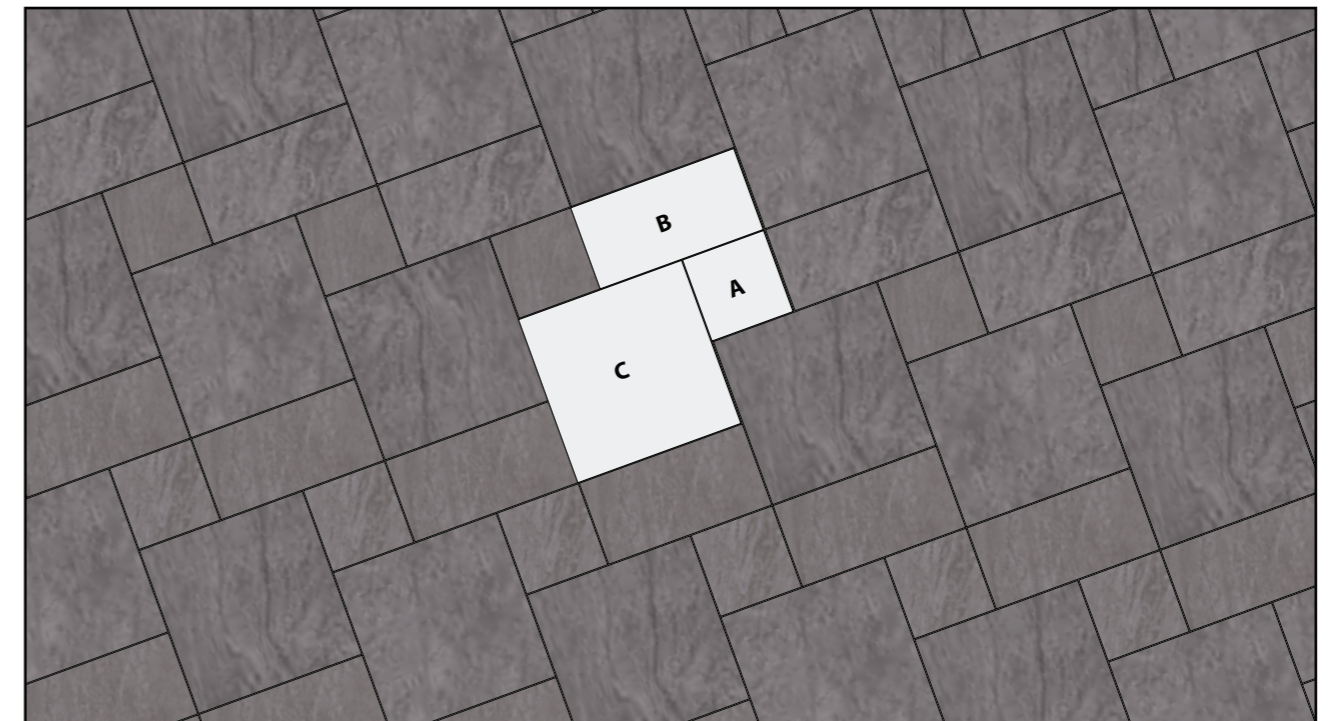
PATTERN 2

A | 12"x12" - 30x30 cm **20%** **B | 12"x24"** - 30x60 cm **40%** **C | 24"x24"** - 60x60 cm **40%**



PATTERN 3

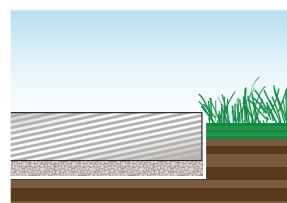
A | 12"x12" - 30x30 cm **14%** **B | 12"x24"** - 30x60 cm **29%** **C | 24"x24"** - 60x60 cm **57%**



INSTALLATION METHODS

DRY INSTALLATION

ON TO GRASS



For proper installation of LASTRA 20mm on grass or soil for walkways, it is always recommended for the walking surface to be at the same level as the turf. Please follow the instructions below:

1. Preparation of the substrate
Dig out 2" of soil and lay a layer of geotextile. Then fill with a bed of paver sand.

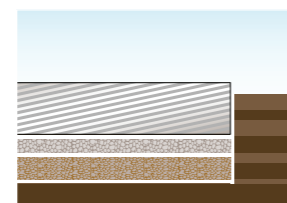
2. Positioning:

Position the pieces according to the pattern chosen, carefully using a rubber hammer on the surfaces to properly set them in place on the support medium.

3. Joints:

It is recommended to lay the pieces with at least 1" of space between them.

ON TO GRAVEL



For proper installation of LASTRA 20mm on gravel, please follow the instructions below:

1. Preparing the substrate
Dig the soil to a depth of 6"-8" based on the ground's drainage capability. Compact the bottom, applying a minimum slope of 2%. Install a layer of geotextile so that the drainage is well dispersed and roots don't become a problem.

2. Drainage layer

Prepare a drainage layer with 3/4" road base. Level and compact, maintaining the bottom's slope. Lay geotextile on top of the layer of stone chips to keep it from mixing with the substrate.

3. Lateral containment

Install lateral containment suitable for the depth of the substrate and the thickness of the tiles.

4. Setting bed

Make a 1" setting bed with a layer of paver sand. Level the substrate, maintaining a minimum slope of 2%.

5. Installation

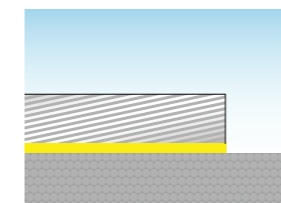
Lay the pavers according to the desired pattern, leaving a minimum joint of 3/16" using the appropriate spacers. To improve the stability of the pavers on the substrate, carefully hammer the surface with a rubber hammer.

6. Joints

The joints can be left empty, filled with washed non-clay sand or with grout made of draining polymer sand.

TRADITIONAL INSTALLATION

WITH ADHESIVE



For the correct adhesive installation of LASTRA 20mm, it is recommended to follow the instructions below:

1. Preparation of the substrate
Prepare a layer of 10cm made up gravel and pebbles with 16-35mm granulometry. Carry out a concrete layer with minimum thickness of 15-20cm and minimum inclination of 2%;

2. Setting bed

Spread a reinforcement screed of at least 5cm with electro-welded net at 2/3 of the thickness if necessary;

3. Installation of slabs

Install the slabs with the double spreading method and using deformable cement-based premium adhesives (class C252 in compliance with EN 12004);

4. Joints

It is recommended to place the slabs leaving a joint of at least 5mm between each other using cement-based premium mortars (in compliance with TCA F101 and F102);

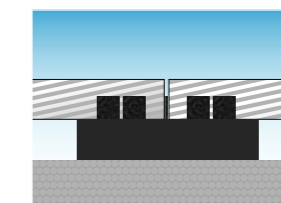
5. Expansion joints

Every 9-16 m² and depending on the size and shape of the floor, introduce expansion joints of 5mm minimum width.

It is possible to lay LASTRA 20mm on draining mixtures composed of gravel and cement, being sure to follow the cement manufacturer's instructions and the project specifications. Outdoor flooring made with LASTRA 20mm on gravel and cement mixtures can be used for walking on.

RAISED INSTALLATION

ON PEDESTALS



For proper installation of LASTRA 20mm on raised floors, in the case of even and compact surfaces follow the instructions below:

1. Base and substrate preparation
Prepare a screed with a slope of 2%, followed by a layer of waterproofing. Spread a membrane for draining off the rainwater making sure that it is suitable to withstand the loads and stresses it will be subjected to.

2. Joints

The joint between the pavers, defined by the thickness of the spacers on top of the support, is equal to about 4 mm.

For the raised installation of 23^{5/8}"x23^{5/8}" - 60x60 slabs in 3/4" - 20mm thickness, a maximum raise of the foot plan of 3/4" - 2 cm is recommended.

SIZE	UP TO 3/4" (2CM)	ABOVE 3/4" (2CM)
24"x24" 60x60cm (Nominal) 4 supports per slab	4 SUPPORTS (0,32 pcs/sq ft)	Contact Atlas Concorde USA

WARNING

- 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.
- A CERAMIC SLAB INSTALLED ON A RAISED PEDESTAL SYSTEM MAY FRACTURE ON IMPACT IF A HEAVY OBJECT IS DROPPED ONTO IT FROM A HEIGHT, WITH A RISK OF INJURY TO ANYONE STANDING OR WALKING ON SUCH SLAB. 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 THE LASTRA 20MM SECTION ON THE ATLAS CONCORDE WEBSITE OR TO THE LASTRA 20MM CATALOGUE.

TECHNICAL INFORMATION

CUTTING LASTRA 20mm

To cut LASTRA 20mm pavers, it is recommended to use a wet saw with at least 1.5 HP power with 8"-10" diamond blade.

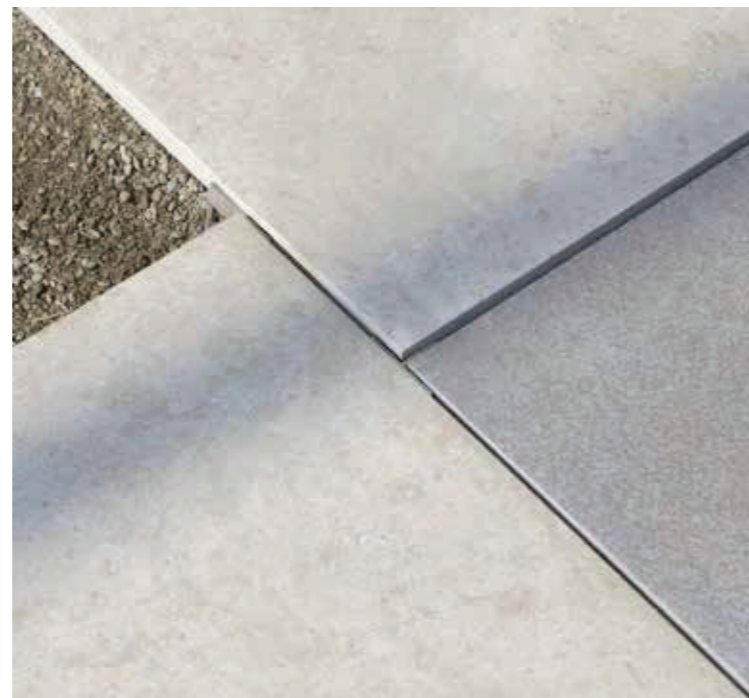


GROUT LINES

In case of dry installation onto gravel, Atlas Concorde recommends leaving a grout line of at least 3/16" between adjacent tiles, using spacers. It is recommended to use spacers in order to maintain a correct joint over time.

Grout lines can be also filled with colored polymeric sand matching the tile.

Please follow manufacturer's instructions.



CLEANING AND MAINTENANCE

Cleaning and maintenance procedures can be carried out using a common neutral detergent and a pressure washer: the draining power of inclined surfaces and the presence of open joints between slabs encourages the collection of dirt near the discharge points. For large surfaces, the use of a washer-dryer and single-brush machines with soft nylon brushes is recommended.

Please note that a water patina, due to the surface tension feature of liquids, will tend to form on any outdoor surface even when inclined properly.

To remove this patina and obtain the complete drying of the floor, push the water towards joints using a scrubbing-brush or use a wet and dry vacuum cleaner.



SUSTAINABILITY



The LEED BD&C v 4 standard (LEED Building Design & Construction), effective since 31 October 2016, is a rating system dedicated to the development of "green" buildings. Developed by the US Green Building Council and internationally recognized, it outlines the necessary requirements to build eco-compatible projects, capable of functioning in a sustainable and autonomous way from an energy point of view, as well as having a low environmental impact throughout their entire life cycle. This system is based on the allocation of credits for each single requirement: the total amount of credits defines the certification level obtained. Ceramic tiles can also contribute to the achievement of LEED points.



HEAT ISLAND EFFECT. Outdoor products that mitigate the "heat island" phenomenon, thereby reducing effects on the microclimate, the human habitat and wildlife can contribute to earning a LEED credit.



VOC CONTENT. Low-emitting materials with zero emission of volatile organic compounds (VOC). It can contribute to the awarding of 1 LEED credit.

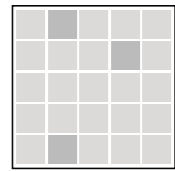
BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION

SOURCING OF RAW MATERIALS (MR) - "RECYCLED CONTENT". For several porcelain stoneware items and all white-body wall tiles, has a certificate issued by a third party that certifies the percentage of recycle "pre-consumer" material and that can therefore help earn a LEED credit.

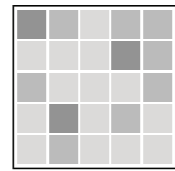
TECHNICAL INFORMATION

V-SHADE, COLOUR-SHADING

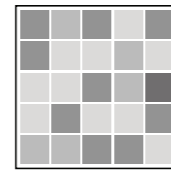
The V-Shade classification indicates the colour shading level of a product, that is to say the chromatic and/or surface variation among pavers the same collection. Strong color variation is typical of stone and marble looks.



V1
Uniform appearance



V2
Slight variation

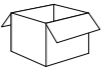
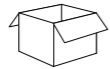
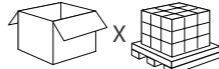
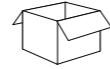



V3
Moderate variation









V4
Substantial variation

PACKAGING

	pcs/box 	sqft/box 	box/pallet 	lb/box 	sqft/pallet 
LASTRA 20mm					
24" x 24"	2	7.75	30	72.75	232.5
11 3/4" x 47 1/4"	2	7.75	16	72.75	124
8 7/8" x 17 7/8"	2	5.5	40	45	219.5
TRIM TILES					
Round	2	3.88	32	35.2	124.2
Round Angle Left/Right	2	2.91	32	30.8	93
Gradino Round	2	3.88	32	35.2	124.2
Gradino Round Angle Left/Right	2	2.91	32	30.8	93
Griglia	2	1.94	54	18.6	104.8
Griglia Left/Right	2	1.45	54	18.6	104.8

PERFORMANCE & FEATURES

	PROPERTY	ASTM TEST METHOD	Porcelain Paver specification	
			Minimum	Maximum
REGULARITY CHARACTERISTICS	Nominal Size	ASTM C499	-3.00%	2.00%
	Caliber Range (Variation from average facial dimension of sample)		-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)
	Thickness ⁽¹⁾		N/A	Range: 0.40 in (1.02 mm)
	Wedging	ASTM C502	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)
	Warpage Edge	ASTM C485	-0.40% or -0.05 in (-1.3 mm) (*)	0.40% or 0.05 in (1.3 mm) (*)
	Warpage Diagonal		-0.40% or -0.07 in (-1.8 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)
STRUCTURAL CHARACTERISTICS	 Water Absorption	ASTM C373	≤ 0.5%	≤ 0.5%
BULK MECHANICAL CHARACTERISTICS	 Breaking Strength	ASTM C648	Average ≥ 250 lbf. (1.11 kN) Individual ≥ 225 lbf. (1.00 kN)	≥ 2200 lbf. avg
THERMAL AND IGROMETRIC CHARACTERISTICS	 Resistance to Freeze/Thaw Cycling	ASTM C1026	As Reported	Resistant
CHEMICAL CHARACTERISTICS	 Chemical Resistance	ASTM C650	As Reported	Unaffected
	 Stain Resistance	ASTM C1378	As Reported	Unaffected
SAFETY CHARACTERISTICS	 Dynamic coefficient of friction	DCOF	Requires a minimum value of 0.42 for commercial areas that are likely to be wet	> 0.42 Wet

(*) Whichever is less

(1) May not apply to textured surfaces or tiles with uneven back patterns.



Acme Brick Tile & Stone traces its ancestry back to 1964 when its predecessor company was founded.

Over the next three decades, this operation expanded from a single Fort Worth warehouse to serve Dallas, Austin, San Antonio, and Houston. It became part of Acme Brick Company in 1995 and today forms the core of Acme Brick Tile & Stone.

Today our organization has grown beyond Texas to encompass 50 sales locations in 13 states – supported by regional distribution in Texas, Arkansas, Alabama, and Florida. Yet we continue to build on the principles that established us: offering distinctive products of superior quality, sourced from around the world and delivered with impeccable service – and at many locations, in-house design assistance.

Our customers include builders, architects, designers, contractors, and DIY homeowners.

Ready to turn your dreams into reality? Visit our showrooms for the best in

- Tile Flooring
- Hardwood Flooring
- Luxury Vinyl Flooring
- Installation tools and materials
- The latest fashions for floors and walls

Acme Brick Tile & Stone is a superior source for building products that look beautiful, last for decades, and are eco-friendly. Ask your Acme Brick Tile & Stone representative for tips and more information on how tile and stone can satisfy your green-building priorities – now and well into the future.



WWW.ACMEBRICKTILEANDSTONE.COM

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