LAESTRA 20 mm

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.
**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**

**Advantages of Lastra 20°**

**Porcelain Pavers**

**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
8 7/8" x 17 3/4"

V3
Moderate Variation

DCOF
> 0.42 wet

Not Rectified
225x454 mm

Stocked in the USA
DOLMEN PRO MIX

PORPHYRY STONE LOOK

8¾” x 17¾”

Volcano
V4
Considerable Variation

DCOF
> 0.42 wet

Not Rectified
598x598 mm

Thickness
20 mm

Made in Italy

Stocked in the USA
**EXCENCE AMBER**

**WOOD LOOK**

11 ⅜” x 47 ¼”

- **V-shade:** V2
- **Slight Variation**
- **DCOF:** > 0.42 wet
- **Working Size:** 296x1195 mm
- **Thickness:** 20 mm

Stocked in the USA
AXI WHITE PINE
WOOD LOOK
24"x24"

VShade
V2
Slight Variation
DCOF
> 0.42 wet
Working Size
598x598 mm
Thickness
20 mm
AXI BROWN CHESTNUT

WOOD LOOK
24” x 24”

Vshade
V2
Slight Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
AXI GREY TIMBER

WOOD LOOK

24” x 24”

Vshade
V2
Slight Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
BRAVE GREY

QUARTZITE LOOK

24” x 24”

Vshade
V2
Slight Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
BRAVE GYPSUM
QUARTZITE LOOK
24” x 24”

V2
Slight Variation
DCOF
> 0.42 wet
Working Size
598x598 mm
Thickness
20 mm
BRAVE PEARL
QUARTZITE LOOK
24” x 24”

V shaded
V2
Slight Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
Vshade V2 Slight Variation
DCOF > 0.42 wet
Working Size 598x598 mm
Thickness 20 mm
MARK CHROME

CONCRETE LOOK

24" x 24"

V-shade
V3
Moderate Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
SEASTONE GRAY
BLUESTONE LOOK
24”x24”

V2 shade
Slight Variation
DCOF > 0.42 wet
Working Size 598x598 mm
Thickness 20 mm
SUNROCK
RAPOLANO BEIGE

LIMESTONE LOOK
24" x 24"

V-shade
V3
Moderate Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm

OUTDOOR
DESIGN
TRUST GOLD
QUARTZITE LOOK
24”x24”

- V3
- Moderate Variation
- DCOF > 0.42 wet
- Working Size 598x598 mm
- Thickness 20 mm

Vshade

OUTDOOR DESIGN
TRUST SILVER
QUARTZITE LOOK
24” x 24”

Vshade
V3
Moderate Variation

DCOF
> 0.42 wet

Working Size
598x598 mm

Thickness
20 mm
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
Pattern solutions are available in every color. Sizes are mixed in the correct ratio on the same pallet.
It is recommended to lay the pieces with at least 1" of space between them.

Prepare a drainage layer with 3/4" road base. Level and compact, maintaining the bottom's slope.

Lay the pavers according to the desired pattern, leaving a minimum joint of 3/16" minimum slope of 2%.

The joints can be left empty, filled with washed non-clay sand or with grout dispersed and roots don't become a problem.

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

Install the slabs with the double spreading method and using deformable cement-based premium adhesives (class C2S2 in compliance with EN 12004);

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

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 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.

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.

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

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.

BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION

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.
**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

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**PACKAGING**

<table>
<thead>
<tr>
<th></th>
<th>pcs/box</th>
<th>soft/box</th>
<th>box/pallet</th>
<th>lb/box</th>
<th>soft/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>LASTRA 20mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24&quot;x24&quot;</td>
<td>2</td>
<td>7.75</td>
<td>30</td>
<td>72.75</td>
<td>232.5</td>
</tr>
<tr>
<td>11⅞&quot;x 47⅝&quot;</td>
<td>2</td>
<td>7.75</td>
<td>16</td>
<td>72.75</td>
<td>124</td>
</tr>
<tr>
<td>4 ¾&quot; x 17 ⅝&quot;</td>
<td>2</td>
<td>5.5</td>
<td>40</td>
<td>45</td>
<td>219.5</td>
</tr>
</tbody>
</table>

**TRIM TILES**

- **Round**
  - 2 pcs
  - 3.88 soft
  - 132.4 lb

- **Round Angle Left/Right**
  - 2 pcs
  - 3.88 soft
  - 132.4 lb

- **Gradino Round**
  - 2 pcs
  - 3.88 soft
  - 132.4 lb

- **Gradino Round Angle Left/Right**
  - 2 pcs
  - 3.88 soft
  - 132.4 lb

- **Griglia**
  - 2 pcs
  - 1.94 soft
  - 18.6 lb

- **Griglia Left/Right**
  - 2 pcs
  - 1.45 soft
  - 18.6 lb

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**PERFORMANCE & FEATURES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>ASTM TEST METHOD</th>
<th>Porcelain Paver specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REGULARITY CHARACTERISTICS</strong></td>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>Caliper Range</td>
<td>ASTM C499</td>
<td>0.25% or 0.03 in (0.6 mm)</td>
</tr>
<tr>
<td>Thickness(*)</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Wedging</td>
<td>ASTM C502</td>
<td>0.25% or 0.03 in (0.6 mm)</td>
</tr>
<tr>
<td>Warpage Edge</td>
<td>ASTM C485</td>
<td>0.40% or 0.05 in (1.3 mm)</td>
</tr>
<tr>
<td>Warpage Diagonal</td>
<td></td>
<td>0.40% or 0.07 in (1.3 mm)</td>
</tr>
<tr>
<td><strong>STRUCTURAL CHARACTERISTICS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C373</td>
<td>≤ 0.5%</td>
</tr>
<tr>
<td><strong>BULK MECHANICAL CHARACTERISTICS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breaking Strength</td>
<td>ASTM C648</td>
<td>Average ≥ 250 kbf (1.11 kN)</td>
</tr>
<tr>
<td><strong>THERMAL AND GEOMETRIC CHARACTERISTICS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistance to Freeze/Thaw Cycling</td>
<td>ASTM C1026</td>
<td>As Reported</td>
</tr>
<tr>
<td><strong>CHEMICAL CHARACTERISTICS</strong></td>
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</tr>
<tr>
<td>Chemical Resistance</td>
<td>ASTM C650</td>
<td>As Reported</td>
</tr>
<tr>
<td>Stain Resistance</td>
<td>ASTM C1378</td>
<td>As Reported</td>
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<td><strong>SAFETY CHARACTERISTICS</strong></td>
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<td></td>
</tr>
<tr>
<td>Dynamic Coefficient of Friction</td>
<td>DCOF</td>
<td>Requires a minimum value of 0.42 for commercial areas that are likely to be wet</td>
</tr>
</tbody>
</table>

(*) Whenever is less

(0) 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.