TRIM TILES

FRONTIER20

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

Landmark Ceramics is an American company, based in Tennessee that has set out to research, manufacture and sell top quality porcelain ceramics in North America, taking advantage of the proven experience of the Gruppo Concorde, an international leader in the sector. Technological innovation, market presence, attention to detail, the welfare of people and the environment, efficient service and a thorough product range make Landmark a new benchmark in the North American market for those who are looking for a reliable partner for any building and architecture project using US made top quality porcelain pavers.
Frontier20 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**
COPING & STAIR TREAD MONOLITHIC. A UNIQUE PIECE, A THOUSAND SOLUTIONS.

*Coping & Stair Tread Monolithic* is processed in order to cater to multiple needs in outdoor design. Two different border shapes, bullnose (rounded) border and rectified border, in one single piece: freedom for projects with the excellent technical performance of porcelain stoneware.

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

DESTINATION OF USE.

⇒ STAIRS
⇒ POOLS

A trim piece offering outstanding versatility, both in terms of look and efficiency. Thanks to its two different border shapes, Coping & Stair Tread Monolithic is suitable both for swimming pool copings and for stairs, in two different versions: with or without grip strips.
STAIRS WITH AN IN-DEMAND AESTHETIC THAT IS ALSO HIGH PERFORMING.

SYSTEM.
- STAIR TREAD
- GRIP STAIR TREAD
- RISER

ADVANTAGES.
- RESISTANCE TO SALTS
- RESISTANCE TO CHEMICALS
- TECHNICAL PERFORMANCE
- ANTI-SLIP
- VISUAL CONTINUITY TO THE OUTDOOR FLOOR
COMFORT AND STYLE FOR SWIMMING POOL AREAS.

SYSTEM.
- LINEAR COVER DRAIN SET
- COPING
- COPING CORNER

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

* The Linear Cover Drain Set is made-up of two pieces, each having a further beveled and polished edge. The two pieces are studied to be laid with the beveled and polished edges facing each other in order to create an open joint. See pages 37, 38, 39, 40 for more details.

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<table>
<thead>
<tr>
<th>COPING CORNER LEFT</th>
<th>COPING CORNER RIGHT</th>
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<tbody>
<tr>
<td>48&quot;x16&quot;</td>
<td>48&quot;x16&quot;</td>
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<tr>
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<table>
<thead>
<tr>
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<td>48&quot;x12&quot;</td>
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<td>20 mm</td>
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* 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 37, 38, 39, 40 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.

COVER*
36”x12”
12 x3/4”
20 mm

END COVER*
36”x12”
12 x3/4”
20 mm

DRIPSTONE
## STAIRS

### STAIR TREAD

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Rectified</th>
<th>Bullnose</th>
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</thead>
<tbody>
<tr>
<td>A: 24&quot;</td>
<td>*</td>
<td>Grip on rectified side</td>
</tr>
<tr>
<td>B: 13&quot;</td>
<td>*</td>
<td>Grip on bullnose side</td>
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</table>

### GRIP STAIR TREAD

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>*</td>
<td>Grip on rectified side</td>
</tr>
<tr>
<td>B: 13&quot;</td>
<td>*</td>
<td>Grip on bullnose side</td>
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### RISER

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<tr>
<td>B: 8&quot;</td>
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### COVER

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<td>B: 12&quot;</td>
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### END COVER

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<tr>
<td>B: 12&quot;</td>
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### WALL COVERS

#### COVER

<table>
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<tr>
<td>B: 12&quot;</td>
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### END COVER

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<th>Dimensions</th>
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<tr>
<td>B: 12&quot;</td>
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### TRIM DIMENSIONS

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<tbody>
<tr>
<td>Standard</td>
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<td></td>
</tr>
<tr>
<td>Monolithic</td>
<td>*</td>
<td>*</td>
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</tbody>
</table>

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

## POOLS

### COPING

<table>
<thead>
<tr>
<th>Dimensions</th>
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<tbody>
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<td>Linear</td>
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</tr>
<tr>
<td>Drain Set</td>
<td>*</td>
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</tbody>
</table>

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<tr>
<td>B: 11,63&quot;</td>
<td></td>
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### TRIM TILES RANGE 24”x24”

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

### OPEN JOINT WIDTH 0,28" (9/32”)

- Open joint width 0,28" (9/32”)

#### CORNER LEFT

<table>
<thead>
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### LINEAR COVER

<table>
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<td>B: 11,63&quot;</td>
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<th>B: 13&quot;</th>
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<tbody>
<tr>
<td>Linear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain Set</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

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** Monolithic trim pieces (with decorated borders), available in the following colors: Barge Gold, Multicolor Gold, Silver Quartz, Vintage Slab.
**STAIRS**

**STAIR TREAD**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 13"

**Gripper Stair Tread**

- **TRIM DIMENSIONS**
  - A: 48"
  - B: 12"

**Riser**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 6"

**Wall Covers**

**Cover**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 12"

**End Cover**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 12"

**Coping**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 13"

**Coping Corner**

- **TRIM DIMENSIONS**
  - A: 36"
  - B: 13"

**Pools**

**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"

* Available just in standard version (with undecorated borders)
### TRIM TILES RANGE 16”x48”

#### STAIRS

**STAIR TREAD**

**TRIM DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Rectified</th>
<th>Bullnose</th>
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<tbody>
<tr>
<td>48”</td>
<td>16”</td>
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**GRIP STAIR TREAD**

**TRIM DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Rectified</th>
<th>Bullnose</th>
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<tbody>
<tr>
<td>48”</td>
<td>16”</td>
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</table>

**RISER**

**TRIM DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Rectified</th>
</tr>
</thead>
<tbody>
<tr>
<td>48”</td>
<td>8”</td>
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#### POOLS

**COPING**

**TRIM DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Rectified</th>
<th>Bullnose</th>
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<tbody>
<tr>
<td>48”</td>
<td>16”</td>
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**COPING CORNER**

**TRIM DIMENSIONS**

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<th>A</th>
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<tbody>
<tr>
<td>48”</td>
<td>16”</td>
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**LINEAR COVER DRAIN SET**

**TRIM DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Open joint width 0,28” (7/32”)</th>
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</thead>
<tbody>
<tr>
<td>48”</td>
<td>7,73”</td>
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</tbody>
</table>

* Available just in standard version (with undecorated borders)*
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 V1/V2/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.

Available size

TRIM TILES 0.8”

COLOR SHADING

V1

V2

V3

V4

UNIFORM APPEARANCE
SLIGHT VARIATION
MODERATE VARIATION
SUBSTANTIAL VARIATION

TRAVERTINE CROSS CUT WHITE

TRAVERTINE CROSS CUT SILVER

TRIM TILES 0.8”

COLOR SHADING

V1

V2

V3

V4

UNIFORM APPEARANCE
SLIGHT VARIATION
MODERATE VARIATION
SUBSTANTIAL VARIATION

TRAVERTINE LOOK

TRAVERTINE LOOK

TRAVERTINE

TRAVERTINE

COLOR SHADING

V1

V2

V3

V4

UNIFORM APPEARANCE
SLIGHT VARIATION
MODERATE VARIATION
SUBSTANTIAL VARIATION

COLOR SHADING

V1

V2

V3

V4

UNIFORM APPEARANCE
SLIGHT VARIATION
MODERATE VARIATION
SUBSTANTIAL VARIATION

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

AMERICANSTONE ★

AMERICANSTONE ★

V20 20 TTHICKNESS

V20 20 TTHICKNESS

AMERICANSTONE ★

AMERICANSTONE ★

19

19
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**Available size**

<table>
<thead>
<tr>
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<th>0.8&quot;</th>
<th>24&quot;x24&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAVERTINE CROSS CUT CREAM</td>
<td>AMERICANSTONE</td>
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Color shading

- V1
- V2
- V3
- V4

**Available size**

<table>
<thead>
<tr>
<th>TRIM TILES</th>
<th>0.8&quot;</th>
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<tbody>
<tr>
<td>TRAVERTINE CROSS CUT NOCE</td>
<td>AMERICANSTONE</td>
<td></td>
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</table>

Color shading

- V1
- V2
- V3
- V4

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Available sizes:
- 24”x48”
- 24”x24”
- 24”x12”
- 24”x36”
- 12”x12”

TRIM TILES
- 0.8”

STAIRS
- 24”x13” (undecorated border)
- 24”x13” (Grip)

WALL COVERS
- 24”x12”
- 24”x12” (undecorated border)

STAIR TREAD
- 24”x13” (undecorated border)

Grip STAIR TREAD
- 24”x13” (undecorated border)

RISER
- 24”x8” (undecorated border)

COVER
- 24”x12” (undecorated border)

END COVER
- 24”x12” (undecorated border)

POOLS
- COPING
  - 24”x13” - 24”x12”
  - Corner Left (undecorated border)
  - Corner Right (undecorated border)
  - Linear Cover Drain Set (undecorated border)
- Open joint width 0.28” (9/32”)

Rectified Bullnose

Color shading

V1

V2

V3

V4
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This porcelain paver product is manufactured with a V1/V2/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.

Available sizes:

- **24"x48"**
- **24"x24"**
- **24"x12"**
- **24"x36"**
- **12"x12"**

**STAIRS**
- STAIR TREAD (undecorated border) 24"x13"
- GRIP STAIR TREAD (undecorated border) 24"x13"
- RISER (undecorated border) 24"x8"
- COVER (undecorated border) 24"x12"
- END COVER (undecorated border) 24"x12"

**WALL COVERS**
- STAIR TREAD
- TRIM TILES
- POOLS COPING
- POOLS COPING CORNER LEFT
- POOLS COPING CORNER RIGHT
- LINEAR COVER DRAIN SET

**FLAGSTONE LOOK**

**FLAGSTONE PINK-TAN**

**FLAGSTONE BROWN**

**TRIM TILES 0.8"**

**PACK**
- Laid in control border (Laid in control border) 24"x13" 24"x12"
- Undecorated border (Undecorated border) 24"x13" 24"x12"
- Rectified Bullnose (Rectified Bullnose) 24"x13" 24"x12"
- Rectified Bullnose (Rectified Bullnose) 24"x13" 24"x12"

**VAP**
- Open joint with 0.28" (9/32")

**COLOR SHADING**
- V4
- V3
- V2
- V1

**THICKNESS**
- 0.8"
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Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.

**SLATE LOOK**

**MULTICOLOR GOLD**

Available sizes

- 24"x24" - 0.8"

**Color shading**

V3

**MULTICOLOR DARK**

Available sizes

- 24"x24" - 0.8"

**Color shading**

V3

**TRIM TILES 0.8"**

- Plain
- Rectified Bullnose

**SLATE LOOK**

**MULTICOLOR GOLD**

Available sizes

- 24"x24" - 0.8"

**Color shading**

V3

**MULTICOLOR DARK**

Available sizes

- 24"x24" - 0.8"

**Color shading**

V3

**TRIM TILES 0.8"**

- Plain
- Rectified Bullnose

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**SLATE LOOK**

**VINTAGE SLAB**

Available sizes:

- 24" x 24"
- 12" x 24"
- 12" x 12"
- 6" x 6"

Color shading:

- V1
- V2
- V3
- V4

**TRIM TILES 0.8”**

- Coping - Monolithic (undecorated border) 24" x 13"
- Coping Corner - Monolithic (undecorated border) 24" x 13"
- Coping Corner Left - Monolithic (undecorated border) 24" x 13"
- Coping Corner Right - Monolithic (undecorated border) 24" x 13"
- Coping Corner Left - Monolithic (decorated border) 24" x 13"
- Coping Corner Right - Monolithic (decorated border) 24" x 13"
- Linear Cover Drain Set - Monolithic (undecorated border) 24" x 11.63" - 24" x 12"
- Linear Cover Drain Set - Monolithic (decorated border) 24" x 11.63" - 24" x 12"

**STAIRS**

- Stair Tread - Monolithic (undecorated border) 24" x 13"
- Stair Tread - Monolithic (decorated border) 24" x 13"
- Stair Tread Grip - Monolithic (undecorated border) 24" x 13" - 13.5" x 12"
- Stair Tread Grip - Monolithic (decorated border) 24" x 13" - 13.5" x 12"
- Stair Riser - Monolithic (undecorated border) 24" x 8" - 13" x 8"
- Stair Cover - Monolithic (undecorated border) 24" x 12"
- End Cover - Monolithic (undecorated border) 24" x 12"

**WALL COVERS**

- Stair Tread Monolithic (decorated border) 24" x 8" - 24" x 13"
- Stair Tread Grip Monolithic (decorated border) 24" x 8" - 24" x 13"
- Stair Tread Grip Monolithic (undecorated border) 24" x 8" - 24" x 13"
- Stair Riser Monolithic (undecorated border) 24" x 8" - 13" x 8"
- Stair Cover Monolithic (undecorated border) 24" x 12"
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- Linear Cover Drain Set - Monolithic (undecorated border) 24" x 11.63" - 24" x 12"
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**POOLS COPING**

- Coping - Monolithic (decorated border) 24" x 13"
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- Coping Corner Right - Monolithic (decorated border) 24" x 13" - 24" x 12"
- Linear Cover Drain Set - Monolithic (decorated border) 24" x 11.63" - 24" x 12"

**LINEAR COVER DRAIN SET**

- Linear Cover Drain Set - Monolithic (undecorated border) 24" x 11.63" - 24" x 12"
- Linear Cover Drain Set - Monolithic (decorated border) 24" x 11.63" - 24" x 12"

**AMERICANSTONE★**

**SLATE LOOK**

**VINTAGE SLAB**

Available sizes:

- 24" x 24"
- 12" x 24"
- 12" x 12"
- 6" x 6"

Color shading:

- V1
- V2
- V3
- V4

**TRIM TILES 0.8”**

- Coping - Monolithic (undecorated border) 24" x 13"
- Coping Corner - Monolithic (undecorated border) 24" x 13"
- Coping Corner Left - Monolithic (undecorated border) 24" x 13"
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**LINEAR COVER DRAIN SET**

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- Linear Cover Drain Set - Monolithic (decorated border) 24" x 11.63" - 24" x 12"
COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

MICHELANGELO EXTRA WHITE

Available size
- 24"x13" - 24"x12"

Color shading
- V2

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TOOL TILES < 0.8"
STONE LOOK

SKY

Available size

24” x 24”

Color shading

V2

DESERT

Available size

24” x 24”

Color shading

V2

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CONCRETE LOOK

ATTITUDE WARM SAND

Available size
24”x24”

Color shading
V1

ATTITUDE SIMPLY GREY

Available size
24”x24”

Color shading
V1

Color shading

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COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

WOOD LOOK

NATURAL DESIGN WALNUT

Available size

24"x24" 0.8"

Color shading

$10%$  v3

LIMESTONE LOOK

NATURAL DESIGN PEPPER

Available size

24"x24" 0.8"

Color shading

$10%$  v3

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STAIRS

WALL COVERS

STAIR TREAD (undecorated border)

24"x13"

GRIP STAIR TREAD (undecorated border)

24"x13"

RISER (undecorated border)

24"x8"

COVER (undecorated border)

24"x12"

END COVER (undecorated border)

24"x12"

LINEAR CORE (undecorated border)

24"x11.63"

POOLS

COPING (undecorated border)

24"x13" - 24"x12"

CORNER LEFT (undecorated border)

24"x13" - 24"x12"

CORNER RIGHT (undecorated border)

24"x13" - 24"x12"

LINEAR CORE DRAIN SET (undecorated border)

24"x11.63"
<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SIZE/EXAMPLES</th>
<th>APPLICATIONS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGHT ANTHRACITE</td>
<td>18”x36” 0.8”</td>
<td>STAIRS, WALL COVERS, STAIR TREAD (undecorated border), 36”x13”</td>
<td>Available sizes include 18”x36” 0.8”, V2 color shading is present.</td>
</tr>
<tr>
<td>SIGHT GREY</td>
<td>18”x36” 0.8”</td>
<td>STAIRS, WALL COVERS, STAIR TREAD (undecorated border), 36”x13”</td>
<td>Available sizes include 18”x36” 0.8”, V2 color shading is present.</td>
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**Color Shading**
- **V2**

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**Rectified Bullnose**
- Open joint width 0.28” (9/32”)

**TRIM TILES**

**POOLS**
- COPING (undecorated border), 36”x13”
- COPING CORNER LEFT (undecorated border), 36”x13”
- COPING CORNER RIGHT (undecorated border), 36”x13”
- LINEAR COVER DRAIN SET (undecorated border), 36”x8.71”

**COLOR VARIATIONS**
- **V1**
- **V2**
- **V3**
- **V4**

**THICKNESS**
- PORCELAIN PAVERS

- **UNIFORM APPEARANCE**
- **SLIGHT VARIATION**
- **MODERATE VARIATION**
- **SUBSTANTIAL VARIATION**

**Rectified Bullnose**
- Open joint width 0.28” (9/32”)

**TRIM TILES**

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- COPING (undecorated border), 36”x13”
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- **V1**
- **V2**
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- **V4**

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- PORCELAIN PAVERS

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<table>
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<tr>
<th>STONE LOOK</th>
<th>TRAVERTINE LOOK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PIETRA DI BAGNOLO</strong></td>
<td><strong>SOURCE BEIGE</strong></td>
</tr>
<tr>
<td><strong>Available size</strong></td>
<td><strong>Available size</strong></td>
</tr>
<tr>
<td>18&quot;x36&quot;</td>
<td>18&quot;x36&quot;</td>
</tr>
<tr>
<td>0.8&quot;</td>
<td>0.8&quot;</td>
</tr>
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**Color shading**: V2

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<tr>
<th>Color Shading</th>
<th>Available size</th>
<th>PIETRA DI BARGE</th>
<th>POINT SILVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2</td>
<td>18&quot;x36&quot;</td>
<td>18&quot;x36&quot;</td>
<td>18&quot;x36&quot;</td>
</tr>
<tr>
<td></td>
<td>0.8&quot;</td>
<td>0.8&quot;</td>
<td>0.8&quot;</td>
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</tbody>
</table>

**PIETRA DI BARGE**

<table>
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<tr>
<th>Size</th>
<th>Color Shading</th>
<th>Description</th>
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<tr>
<td>18&quot;x36&quot;</td>
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<td>Rectified Monocaliber</td>
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**POINT SILVER**

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COLORED BODY PORCELAIN PAVERS - Rectified Monocaliber

WOOD LOOK

SOUL WALNUT

Available size

12" x 48"

Color shading

V2

SOUL GREY

Available size

12" x 48"

Color shading

V2

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TRIM TILE - 0.8" (undecorated border) 48" x 12"

COPING

COPING

COPING

LINEAR COVER DRAIN SET

Rectified Bullnose

Rectified Bullnose

Rectified Bullnose


Open joint width 0.28" (9/32")
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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 ensure a smooth strike off finish.

**Compacting dry sand will not give the desired results.**

- Only use a paver saw with a wet cut porcelain blade to wet cut porcelain pavers.
- Before installing your porcelain pavers in sand set installations, pre-compact and strike off your sand leveling course.
- Plastic 3/16" (4 mm) spacers must always be used to install pavers on sand set and permeable installations.
- The photo on the right illustrates the use of the 3/16" spacer to support and space the 4 paver corners.
- Never install pavers with porcelain to porcelain contact.

**JOINT FILLING**

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

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

- **Polymeric sand**
  Polymeric sand is a blend of polymers which harden when subjected to moisture. Sweep the sand into the open joints until completely filled. All excess sand and dust must be swept from the surface. Use a blower for the final dust removal to make certain all excess sand is removed. Any residual sand or dust can result in staining of the surface.
  Once the filling of the joints and the cleaning of the surface is complete, mist the pavement with water which activates the polymer and cures the mixture.

**HANDLING AND SPECIALTY TOOLS.**

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

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 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 3/16" of joint spacers.
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 glazed, polished and especially Anti-Slip products similar to Frontier20. The use of a floor-washing machine combined with the use of a diluted acid detergent helps reach the spaces between adjacent tiles and clean them properly. If such a cleaning procedure is not carried out, or if such cleaning is carried out too late, the grout residue creates an absorbent film, which holds dirt, making the surface difficult to clean: in this case, Landmark Ceramics will not be liable for any damage caused to the surface.

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

OTHER RECOMMENDATIONS
Bright colored products, in particular white and extra-white tiles, are very delicate and, although for all intent and purpose are hygienically clean, However, they can get dirty more easily than darker tiles. It is therefore necessary to remember that those particular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our Frontier20 Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery. Also because Porcelain has such a low absorption the particular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our Frontier20 Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery.

CLEANING INFORMATION FOR PORCELAIN PAVERS INSTALLED OVER CONCRETE
For Porcelain pavers installed over concrete, sealer will unlikely stick and most likely the sealer will flake off over time.

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 particular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our Frontier20 Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery.

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ORGANIC STAINS
LIMITED FOAM TYPE PRODUCT

RESIDUAL RINGS of organic nature

ORGANIC STAINS
LIMITED FOAM TYPE PRODUCT

RESIDUAL RINGS of organic nature

ORGANIC STAINS
LIMITED FOAM TYPE PRODUCT

RESIDUAL RINGS of organic nature

INORGANIC STAINS

DETERGENTS WITH AN ACID BASIS

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 or floor installation, for the desalinated and the regular maintenance.
** Limited foam type product: a limited foam type product degreasing and general cleaning, suitable for all types of dirt but especially for remove of vegetable and animal fats.

CLEANING AGENTS

<table>
<thead>
<tr>
<th>TYPE OF STAIN</th>
<th>SOLUTION</th>
<th>DETERGENTS</th>
<th>MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic</td>
<td>INORGANIC STAINS</td>
<td>DETERDIO or similar</td>
<td>UNITED STATES &gt; Fila Chemicals USA, Corp. 10800 N.W. 21st St #170 Miami, FL 33172 USA Tel: +1-305-613-0708 email: <a href="mailto:flausa@filasolutions.com">flausa@filasolutions.com</a></td>
</tr>
<tr>
<td>Carbon</td>
<td></td>
<td>KERANET (liquid) or similar</td>
<td>MAPEI Americas Headquarters 1144 E. Napeset Center Drive Deerfield Beach, Florida 33442</td>
</tr>
<tr>
<td>Calcium Efflorescence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chalk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metallic residues</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plaster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement-based grout</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colored grout</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall paint</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement</td>
<td>ORGANIC STAINS</td>
<td>PS47 or similar</td>
<td>UNITED STATES &gt; Fila Chemicals USA, Corp. 10800 N.W. 21st St #170 Miami, FL 33172 USA Tel: +1-305-613-0708 email: <a href="mailto:flausa@filasolutions.com">flausa@filasolutions.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FILACLEANER or similar</td>
<td>UNITED STATES &gt; Fila Chemicals USA, Corp. 10800 N.W. 21st St #170 Miami, FL 33172 USA Tel: +1-305-613-0708 email: <a href="mailto:flausa@filasolutions.com">flausa@filasolutions.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ordinary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ordinary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORGANIC STAINS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FILASOLV or similar</td>
<td>UNITED STATES &gt; Fila Chemicals USA, Corp. 10800 N.W. 21st St #170 Miami, FL 33172 USA Tel: +1-305-613-0708 email: <a href="mailto:flausa@filasolutions.com">flausa@filasolutions.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aceton</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NITRO - THINNER</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TURPENTINE</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TRICHLOROETHYLENE</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CIF AMMONIAL</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HAND CLEANER</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Silicone and chewing-gum</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ice-scraper</td>
<td>Universal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
PAVER PERFORMANCE DATA

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Test ASTM</th>
<th>North American Standard A137.1</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water absorption</td>
<td>C373</td>
<td>≤ 0.5%</td>
<td>COMPLY WITH ANSI A137.1</td>
</tr>
<tr>
<td>DCOF Average dynamic coefficient of friction -</td>
<td>BOT 3000 test</td>
<td>≥ 0.42</td>
<td>≥ 0.42</td>
</tr>
<tr>
<td>Slid Resistance</td>
<td>DIN 51097 -</td>
<td>-</td>
<td>A1+B+C</td>
</tr>
<tr>
<td></td>
<td>DIN 51130 R11</td>
<td></td>
<td>R11</td>
</tr>
<tr>
<td>Resistance to freeze/thaw cycling</td>
<td>C1026</td>
<td>As reported</td>
<td>RESISTANT</td>
</tr>
<tr>
<td>Resistance to thermal shock</td>
<td>C484</td>
<td>As reported</td>
<td>RESISTANT</td>
</tr>
<tr>
<td>Warpage (edge)</td>
<td>C485</td>
<td>Warpage ≥ 0.4% or ≥ 0.05 in</td>
<td>COMPLY WITH ANSI A137.1</td>
</tr>
<tr>
<td>Warpage (diagonal)</td>
<td>C485</td>
<td>Warpage ≥ 0.4% or ≥ 0.07 in</td>
<td>COMPLY WITH ANSI A137.1</td>
</tr>
<tr>
<td>Wedging</td>
<td>C502</td>
<td>± 0.25% or ≤ 0.03 in</td>
<td>COMPLY WITH ANSI A137.1</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>C580</td>
<td>As reported</td>
<td>UNAFFECTED</td>
</tr>
<tr>
<td>Resistance to stain</td>
<td>C1378</td>
<td>As reported</td>
<td>UNAFFECTED</td>
</tr>
<tr>
<td>Breaking strength</td>
<td>C458</td>
<td>250 lbf or greater</td>
<td>≥200 lbf</td>
</tr>
<tr>
<td>Thickness</td>
<td>C499</td>
<td>Range: 0.04 in</td>
<td>COMPLY WITH ANSI A137.1</td>
</tr>
</tbody>
</table>

### 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. Failure to do so could result in serious injury or property damage.
- For further information and recommendations concerning the installation systems please refer to https://hardscape.landmarkceramics.com website.

### FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Landmark Frontier20 Porcelain Pavers</th>
<th>Wood Pavers</th>
<th>Clay Brick</th>
<th>CIP (CAST IN PLACE) Concrete</th>
<th>Concrete Pavers</th>
<th>Natural Stone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainable</td>
<td>No</td>
<td>Yes (Highly)</td>
<td>Yes</td>
<td>Yes (Highly)</td>
<td>Yes (Highly)</td>
<td></td>
</tr>
<tr>
<td>Freeze Thaw Proof</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Salt Resistant</td>
<td>Yes</td>
<td>No</td>
<td>Soft Will</td>
<td>Degree</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Acid Resistant</td>
<td>Yes</td>
<td>No</td>
<td>Acid Will</td>
<td>Burn</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Scratch Resistant</td>
<td>Highly</td>
<td>No</td>
<td>Somewhat</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Moisture Absorption</td>
<td>&lt; 0.5%</td>
<td>Highly Varied</td>
<td>5%</td>
<td>5%</td>
<td>5-10%</td>
<td>&gt; 5%</td>
</tr>
<tr>
<td>Easy To Repair</td>
<td>Yes</td>
<td>No</td>
<td>Can Not</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>UV Resistant</td>
<td>Unaffected</td>
<td>Yes</td>
<td>If Sealed</td>
<td>Yes/No</td>
<td>Unaffected</td>
<td></td>
</tr>
<tr>
<td>Needs Sealed</td>
<td>Never</td>
<td>Yes</td>
<td>Recommended</td>
<td>Recommended</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>Pressure Washer Safe</td>
<td>&gt; 1500 PSI</td>
<td>No</td>
<td>Not Recommended</td>
<td>&gt; 1500 PSI</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Environmentally Friendly</td>
<td>Facility 98% Green</td>
<td>Many Exotic</td>
<td>Rainforest Species</td>
<td>No</td>
<td>Large Carbon</td>
<td>First Print</td>
</tr>
<tr>
<td>Recycled Content</td>
<td>20% In Each Paver</td>
<td>No</td>
<td>Not Possible</td>
<td>Not Possible</td>
<td>If Possible Less Than 5%</td>
<td>Not Possible</td>
</tr>
</tbody>
</table>