OUTDOOR SOLUTIONS
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# Atlas Concorde LASTRA

## 24” x 24”

<table>
<thead>
<tr>
<th>Axi White Pine</th>
<th>Block Bianco</th>
<th>Brave Gypsum</th>
<th>Axi Gray Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brave Pearl</td>
<td>Trust Silver</td>
<td>Seastone Gray</td>
<td>Brave Gray</td>
</tr>
<tr>
<td>Sunrock Rapolano Beige</td>
<td>Trust Gold</td>
<td>Axi Brown Chestnut</td>
<td></td>
</tr>
</tbody>
</table>

Noted items are stocked in our Central Service Center.

Lead time is approximately one week, pending factory availability.

QuickSHIP® items are stocked in Mosaic’s Central Service Center.

## 12” x 24”

<table>
<thead>
<tr>
<th>Marvel Stone Clauzetto White</th>
<th>Marvel Stone Desert Beige</th>
</tr>
</thead>
</table>

## 12” x 48”

<table>
<thead>
<tr>
<th>Etic Pro Rovere Venice</th>
<th>Etic Pro Noce Hickory</th>
</tr>
</thead>
</table>

## 12” x 24” - 18” x 36” - 24” x 48”

<table>
<thead>
<tr>
<th>Brave Gypsum</th>
<th>Brave Pearl</th>
<th>Trust Silver</th>
<th>Brave Gray</th>
<th>Trust Gold</th>
</tr>
</thead>
</table>

## 12” x 24” - 18” x 36” - 24” x 24” - 24” x 48”

<table>
<thead>
<tr>
<th>Trust Ivory</th>
<th>Brave Earth</th>
<th>Trust Titanium</th>
<th>Brave Coke</th>
</tr>
</thead>
</table>

## 12” x 24” - 24” x 48”

<table>
<thead>
<tr>
<th>Marvel Stone Cardoso Elegant</th>
<th>Marvel Stone Basaltina Volcano</th>
</tr>
</thead>
</table>

Lead time for items on this page is approximately 8-10 weeks, pending factory availability.
### Technical Features

#### Length and width

<table>
<thead>
<tr>
<th>Criteria</th>
<th>ISO 10545-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>± 0.3%</td>
<td>± 1.0 mm</td>
</tr>
<tr>
<td>± 0.3%</td>
<td>± 0.8 mm</td>
</tr>
<tr>
<td>± 0.3%</td>
<td>± 1.5 mm</td>
</tr>
<tr>
<td>Not applicable to “strong” structures</td>
<td></td>
</tr>
</tbody>
</table>

#### Regularity Characteristics

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straightness of sides</td>
<td>± 0.3% ± 0.8 mm</td>
</tr>
<tr>
<td>Rectangularity</td>
<td>± 0.3% ± 1.5 mm</td>
</tr>
</tbody>
</table>

#### Structural Characteristics

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water absorption</td>
<td>≤ 0.1%</td>
</tr>
<tr>
<td>Breaking strength</td>
<td>≥ 10000 N</td>
</tr>
<tr>
<td>Modulus of rupture</td>
<td>R ≥ 45 N/mm²</td>
</tr>
<tr>
<td>Impact resistance, as coefficient of restitution</td>
<td>≥ 0.55</td>
</tr>
</tbody>
</table>

#### Surface Mechanical Characteristics

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mohs hardness</td>
<td>EN 101</td>
</tr>
<tr>
<td>Resistance to deep abrasion</td>
<td>≤ 150 mm²</td>
</tr>
<tr>
<td>Coefficient of thermal linear expansion</td>
<td>≤ 7 MK-1</td>
</tr>
<tr>
<td>Thermal shock resistance</td>
<td>ISO 10545-9</td>
</tr>
<tr>
<td>Moisture expansion</td>
<td>≤ 0.01%</td>
</tr>
<tr>
<td>Resistance to frost</td>
<td>ISO 10545-12</td>
</tr>
</tbody>
</table>

#### Thermal and Hydro-Metric Characteristics

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coefficient of Dynamic Friction (DCOF)</td>
<td>&gt; 0.42 Wet</td>
</tr>
<tr>
<td>Static Coefficient of Friction (SCOF)</td>
<td>≥ 0.80 Dry</td>
</tr>
<tr>
<td>Shod ramp test</td>
<td>DIN 51130 R11</td>
</tr>
<tr>
<td>Barefoot ramp test</td>
<td>DIN 51097 A+B+C</td>
</tr>
</tbody>
</table>

#### Safety Characteristics

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance to household chemicals and swimming pool salts</td>
<td>ISO 10545-13</td>
</tr>
<tr>
<td>Resistance to low concentrations of acids and alkalis</td>
<td>ULA</td>
</tr>
<tr>
<td>Resistance to high concentrations of acids and alkalis</td>
<td>UHA</td>
</tr>
<tr>
<td>Resistance to staining</td>
<td>ISO 10545-14</td>
</tr>
</tbody>
</table>

### Physical-Mechanical Features

<table>
<thead>
<tr>
<th>Criteria</th>
<th>EN 1339 Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water absorption</td>
<td>Annex E</td>
</tr>
<tr>
<td>≤ 0.1%</td>
<td></td>
</tr>
<tr>
<td>Breakage load / Breaking strength</td>
<td>Annex F</td>
</tr>
<tr>
<td>Marking ≥ U7 (12x24)</td>
<td></td>
</tr>
<tr>
<td>Marking ≥ T11 (24x24)</td>
<td></td>
</tr>
<tr>
<td>Marking ≥ U4 (18x36)</td>
<td></td>
</tr>
<tr>
<td>Marking ≥ U3 (12x48)</td>
<td></td>
</tr>
<tr>
<td>Marking ≥ U4 (24x48)</td>
<td></td>
</tr>
<tr>
<td>Frost resistant in presence of defrosting salts</td>
<td>Annex D</td>
</tr>
<tr>
<td>Resistant</td>
<td></td>
</tr>
</tbody>
</table>

#### Lead time for items on this page

Lead time for items on this page is approximately 8-10 weeks, pending factory availability.
### Del Conca DUE 2

**16” x 32”**
- Arbor Bianco HAO 10
- La Scala Gray HLS 5
- La Scala Noce HLS 9
- Arbor Gray HAO 5
- La Scala Beige HLS 1
- Arbor Natural HAO 3

### STOCKED IN THE USA

**16” x 48”**
- Dolomiti Gray HDL 205
- Dolomiti Beige HDL 201
- Dolomiti Naturale HDL 203
- Dolomiti Noce HDL 209

### 24” x 24”
- Chamonix Bianco HDX 210
- Chamonix Beige HDX 201
- Chamonix Gray HDX 205
- Chamonix Dark Gray HDX 2108

### Lead time is approximately one week, pending factory availability.

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### Outdoor Collection

**24” x 24”**
- West 57th Bianco HWS 10
- West 57th Gray HWS 5
- Gotham Gray HGO 205
- Gotham Nero HGO 208
- Travstone Beige HTS 201
- West 57th Beige HWS 1
- Travstone Noce HTS 209
- Gotham Beige HGO 201

**Lead time is approximately one week, pending factory availability.**
Lead time for items on this page is approximately 8-10 weeks, pending factory availability.
Installation of 20mm Tiles

Installation on Grass

Installation on grass can be performed in two ways:
1. Direct – Set the tile on grass leaving 1-1/2" to 2" wide joints to allow the grass to grow. Results will be long lasting but stability will be subject to soil movements.
2. Gravel Base – Remove the grass from the area underneath (2" deep in warm and dry climate, or deeper in cold or wet climates. Compact the soil. Fill the excavated area with gravel (size 1/6" to 1/3") or sand and compact it. Dry set the tile.

Installation on Gravel

Installation on gravel is recommended for larger areas and for installation with thin joints or joints without grass.
Excavate the soil at least 4" deep in warm and dry climate, or deeper in color or wet climate. Compact the soil at the bottom and ensure it is sloped (≥ 2%) to avoid stagnation of water. (Optional: Place a layer of geotextile to keep the gravel from sinking into the soil.) Place and compact a layer of crushed stone or gravel of 1/6" to 1/3" size. (Optional: Place a layer of geotextile to separate aggregates.) Place and compact a layer of fine gravel or sand (1/12" to 1/5") to ease the leveling of the surface. Ensure the surface is level using a straight edge. A slight slope (≥ 1%) is recommended to ensure proper drainage of the floor. Dry set the tile leaving joints at least 1/8" wide. Tile spacers can be used to facilitate installation. Ensure the floor is level with a straight edge and use a rubber hammer to correct small differences in height. Fill the joints with very fine sand (up to 1/8") or polymeric sand.

Installation on Concrete Slab

Installation with thin set on concrete slab is recommended for areas open to vehicular traffic or subject to very high stress. Be sure to leave joints at least 1/8 inch and respect expansion joints.
To install on concrete slab on ground, start by digging and compacting the soil. Place a layer of crushed stone or gravel. Place the slab (including optional steel mesh). Install the tiles with exterior-rated elastic adhesive.

Installation on Sand

Installation on sand can be done directly. Level and compact the sand. Dry set the tiles.

Installation on Raised Pedestals

Raised installation allows for:
- Quick installation, removal, and reuse of the system without the need for expert installers
- Total drainage of rainwater
- Safe and secure housing of pipes and cables within the underfloor void
- Easy inspection of underlying elements

Refer to the following pages for Raised Pedestal products
**Pedestals for Raised Installation**

**NM Adjustable Pedestals**

A wide range of features such as the noise-reducing rubber head, the Adjustment Key, a wide range of adjustable heights and the pre-cut base for wall corner cuts, make the NM pedestal perfect for any kind of raised flooring applications. Featuring an above average loading capacity and a reliability that can only be offered by experts in the field of raised flooring supports, the NM pedestal is regularly selected and widely appreciated Internationally within the building industry. When installed on a slopping surface, shims or the slope compensator can be placed on the pedestal head to ensure a level support surface. The slope compensator can add up to 1% of slope.

**Features:**
- Bi-material head offers anti-noise and anti-slip
- Made from 100% recycled material
- Removable spacer tabs
- Smooth base with pre-cut lines
- Resistant to weathering, acids, UV rays, and wear and tear
- Resistant to temperatures ranging from -40°F to 248°F

**Specs:**
- Base Diameter: 8”
- Head Diameter: 6”
- Tab Height: 1/2”
- Tab Width: 5/32”
- Load Capacity: 3,300 lbs

<table>
<thead>
<tr>
<th>NM-1</th>
<th>NM-2</th>
<th>NM-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1” - 1.57” (25-40 mm)</td>
<td>1.57” - 2.75” (40-70 mm)</td>
<td>2.36” - 3.93” (60-100 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NM-4</th>
<th>NM-5</th>
<th>NM Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.54” - 6.30” (90-160 mm)</td>
<td>5.90” - 10.63” (150-270 mm)</td>
<td>The NM Extension is utilized when heights surpass the maximum height of the NM-5 pedestal (10.63”). Each extension will add up to 5.7” to the overall height of the pedestal being installed.</td>
</tr>
</tbody>
</table>

For more technical information, visit www.mrpsupports.com

**Versadjust**

Features:
- Integral base leveling to correct for 0-4% sloped substrates
- Each pedestal supports 1,250 lbs (5.56kN)
- Quick-clip extenders to reach heights fast, up to 36”
- Adjustable system height range is 2-1/4” to 36”
- Accessories available for heights from 1/8” to 2-1/4”
- Pedestal bracing system for additional stability and heights over 24”
- Industrial grade

**Level.It**

Features:
- Simple, extended height range pedestal
- Each pedestal supports 750 lbs (3.34kN)
- Adjustable system height range is 2” to 12”
- Accessories available for heights from 1/8” to 2”
- Patented design features exclusive internal coupler
- Long lasting solution with no maintenance over time
- Residential grade; Durable commercial quality

**Screwjack**

Features:
- The original pedestal with proven performance since 1994
- Each pedestal supports 1,000 lbs (4.45kN)
- Adjustable system height range is 1-1/4” to 36”
- Accessories available for heights from 1/8” to 1-1/4”
- Pedestal bracing system for additional stability and heights over 24”
- Commercial grade

For more technical information, visit www.bisonip.com

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**Outdoor Collection**

Pedestals for Raised Installation

Adjustable Pedestals

Bison pedestal deck supports are manufactured in the USA of high density copolymer polypropylene with 20% post-industrial recycled materials. The unique patented design of screw-to-adjust pedestals ensure perfectly level decks which are impervious to water, mold, and freeze/thaw cycles. The fast and easy installation promotes labor savings.

**Versadjust**

Features:
- Integral base leveling to correct for 0-4% sloped substrates
- Each pedestal supports 1,250 lbs (5.56kN)
- Quick-clip extenders to reach heights fast, up to 36”
- Adjustable system height range is 2-1/4” to 36”
- Accessories available for heights from 1/8” to 2-1/4”
- Pedestal bracing system for additional stability and heights over 24”
- Industrial grade

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- Simple, extended height range pedestal
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- Patented design features exclusive internal coupler
- Long lasting solution with no maintenance over time
- Residential grade; Durable commercial quality

**Screwjack**

Features:
- The original pedestal with proven performance since 1994
- Each pedestal supports 1,000 lbs (4.45kN)
- Adjustable system height range is 1-1/4” to 36”
- Accessories available for heights from 1/8” to 1-1/4”
- Pedestal bracing system for additional stability and heights over 24”
- Commercial grade

For more technical information, visit www.bisonip.com

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Lead time is approximately one week, pending factory availability.
For samples, fax request to 866-480-TILE (8453)
or email samples@mosaictileco.com