Porcelain Pavers
Installation Guide
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*Cover image is Ardesie - AD 03 African Stone
PRODUCT OPTIONS
Available Colors

Shore
AD 01 NAT

Island
AD 02 NAT

African Stone
AD 03 NAT

Black Reef
AD 04 NAT

Vulcan
AD 05 NAT

Shapes & Sizes

UNICO

60x60x2 cm
23.54"x23.54"x3/4"
NAT

RIFT

10,5x45 cm
4 7/8"x18"
NAT

60x60x2 cm
23.54"x23.54"x3/4"
NAT

Laying Systems

INSTALLATION
SAND SET OVER
COMPACTED BASE

INSTALLATION
ON PERMEABLE
AGGREGATE BASE

MORTAR BED
ADHESIVE
INSTALLATION

FIXED PEDESTAL
INSTALLATION ON
CONCRETE FLOOR

Innovative Products

RIFT

10,5x45 cm
4 7/8"x18"
NAT

INSTALLATION
ON PERMEABLE
AGGREGATE BASE

MORTAR BED
ADHESIVE
INSTALLATION

FIXED PEDESTAL
INSTALLATION ON
CONCRETE FLOOR

Innovative Products

Uniform appearance
Slight variation
Moderate variation
Substantial variation
SRI (60-80%): Solar Reflectance Index

NAT Natural surface
STA Aged structure
PL Pullata surface
RD Radiale surface
ST Structured surface
**Available Colors**

- **Crema Delicato**
  - **EP 01 ST**
  - **Laying Systems**
    - INSTALLATION SAND SET OVER COMPACTED BASE
    - INSTALLATION ON PERMEABLE AGGREGATE BASE
    - MORTAR BED ADHESIVE INSTALLATION
    - FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR

- **Pietra Piasentina**
  - **EP 02 ST**

- **Lagos Grey**
  - **EP 03 ST**

- **Crema Luna**
  - **EP 04 ST**

**Shapes & Sizes**

- **60x60x2 cm**
  - 23.54"x23.54"x3/4"
  - ST

- **60x120x2 cm**
  - 23.54"x47.17"x3/4"
  - ST

**Gross weight per box**

- **60x60x2 cm**
  - 23.54"x23.54"x3/4"
  - 33.00 kg / 73 lbs
- **60x120x2 cm**
  - 23.54"x47.17"x3/4"
  - 33.40 kg / 74 lbs

**Pieces / Box**

- **60x60x2 cm**
  - 2
- **60x120x2 cm**
  - 1

**Sq ft / box**

- **60x60x2 cm**
  - 7.75
- **60x120x2 cm**
  - 7.75

**Boxes / full pallet**

- **60x60x2 cm**
  - 30
- **60x120x2 cm**
  - 20

**Sq ft / pallet**

- **60x60x2 cm**
  - 232.5
- **60x120x2 cm**
  - 155

**Pallet gross weight**

- **60x60x2 cm**
  - 1034 kg / 2280 lbs
- **60x120x2 cm**
  - 669 kg / 1475 lbs
Available Colors

Lab_mou
LB 04 ST

Lab_fog
LB 07 ST

Shapes & Sizes

60x60x2 cm
23.54"x23.54"x3/4"
ST

Laying Systems

INSTALLATION
SAND SET OVER
COMPACTED BASE

INSTALLATION
ON PERMEABLE
AGGREGATE BASE

MORTAR BED
ADHESIVE
INSTALLATION

FIXED PEDESTAL
INSTALLATION ON
CONCRETE FLOOR

<table>
<thead>
<tr>
<th>Gross weight per box</th>
<th>33.00 kg / 73 lbs</th>
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<td>Boxes / full pallet</td>
<td>30</td>
</tr>
<tr>
<td>Sq ft / pallet</td>
<td>232.5</td>
</tr>
<tr>
<td>Pallet gross weight</td>
<td>1034 kg / 2280 lbs</td>
</tr>
</tbody>
</table>
Mashup - MP 03 Block

Available Colors

Acid
OP 01 ST

Romantic
OP 02 ST

Dark
OP 03 ST

Gothic
OP 04 ST

Shapes & Sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
<th>Gross weight per box</th>
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<td>60x60x2 cm</td>
<td>23.54&quot;x23.54&quot;x3/4&quot;</td>
<td>33.00 kg / 73 lbs</td>
</tr>
<tr>
<td>90x90x2 cm</td>
<td>35.35&quot;x35.35&quot;x3/4&quot;</td>
<td>36 kg / 80 lbs</td>
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</table>

Laying Systems

- INSTALLATION SAND SET OVER COMPACTED BASE
- INSTALLATION ON PERMEABLE AGGREGATE BASE
- MORTAR BED ADHESIVE INSTALLATION
- PEDESTAL INSTALLATION ON CONCRETE FLOOR

For more information, please visit Innovative Products.
Available Colors

- Jura Beige NE 10 ST
- Bourgogne NE 12 ST
- Ocean Grey NE 13 ST
- Swiss Grey NE 20 ST
- Lumnezia NE 21 ST
- Noir Belge NE 30 ST
- Gris Belge NE 31 ST
- Noisette Belge NE 32 ST

Shapes & Sizes

- 60x60x2 cm 23.54”x23.54”x3/4” RD
- 45x90x2 cm 17.64”x35.35”x3/4” ST
- 60x120x2 cm 23.54”x47.17”x3/4” ST
- 30x120x2 cm 11.73”x47.17”x3/4” RD

Gross weight per box:
- 60x120x2 cm 23.54”x47.17”x3/4” RD: 34 kg / 74 lbs
- 60x60x2 cm 23.54”x23.54”x3/4”: 33.00 kg / 73 lbs
- 45x90x2 cm 17.64”x35.35”x3/4”: 37.00 kg / 81 lbs
- 30x120x2 cm 11.73”x47.17”x3/4”: 33.00 kg / 73 lbs

Pieces / Box:
- 60x120x2 cm: 1
- 60x60x2 cm: 2
- 45x90x2 cm: 2
- 30x120x2 cm: 2

Sq ft / box:
- 60x120x2 cm: 7.75
- 60x60x2 cm: 7.75
- 45x90x2 cm: 8.7
- 30x120x2 cm: 7.75

Boxes / full pallet:
- 60x120x2 cm: 30
- 60x60x2 cm: 27
- 45x90x2 cm: 27
- 30x120x2 cm: 20

Sq ft / pallet:
- 60x120x2 cm: 155
- 60x60x2 cm: 232.5
- 45x90x2 cm: 234.9
- 30x120x2 cm: 155

Pallet gross weight:
- 60x120x2 cm: 669 kg / 1475 lbs
- 60x60x2 cm: 1034 kg / 2280 lbs
- 45x90x2 cm: 997 kg / 2198 lbs
- 30x120x2 cm: 662 kg / 1460 lbs

Installation:

- Sand Set Over Compacted Base
- Installation on Permeable Aggregate Base
- Mortar Bed Adhesive Installation
- Fixed Pedestal Installation on Concrete Floor
**Available Colors**

- **Fado**
  - NA 01 RD
- **Indie**
  - NA 02 RD
- **Zen**
  - NA 04 RD

**Shapes & Sizes**

<table>
<thead>
<tr>
<th>Shape</th>
<th>Dimensions</th>
<th>Gross weight per box</th>
<th>Pieces / Box</th>
<th>Sq ft / box</th>
<th>Boxes / full pallet</th>
<th>Sq ft / pallet</th>
<th>Pallet gross weight</th>
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<td>23.54”x23.54”x3/4”</td>
<td>33.00 kg / 73 lbs</td>
<td>2</td>
<td>7.75</td>
<td>30</td>
<td>232.5</td>
<td>1034 kg / 2280 lbs</td>
</tr>
<tr>
<td>30x120x2 cm</td>
<td>11.73”x47/17”x1/4”</td>
<td>33.00 kg / 73 lbs</td>
<td>2</td>
<td>7.75</td>
<td>20</td>
<td>155</td>
<td>662 kg / 1460 lbs</td>
</tr>
<tr>
<td>20x120x2 cm</td>
<td>7.80”x47.17”x3/4”</td>
<td>21 kg / 46 lbs</td>
<td>2</td>
<td>5.1</td>
<td>30</td>
<td>151.8</td>
<td>626 kg / 1380 lbs</td>
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</tbody>
</table>

**Laying Systems**

- **INSTALLATION SAND SET OVER COMPACTED BASE**
- **INSTALLATION ON PERMEABLE AGGREGATE BASE**
- **MORTAR BED ADHESIVE INSTALLATION**
- **FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR**
Available Colors

Vit
RR 01 ST / STA

Grå
RR 02 ST / STA

Svart
RR 03 ST / STA

Shapes & Sizes

60x60x2 cm
23.54"x23.54"x3/4"
ST

90x90x2 cm
35.35"x35.35"x3/4"
ST

UNICO

33x60x2 cm
12.99"x23.54"x3/4"
ST

Laying Systems

INSTALLATION SAND SET OVER COMPACTED BASE

INSTALLATION ON PERMEABLE AGGREGATE BASE

MORTAR BED ADHESIVE INSTALLATION

PEDESTAL INSTALLATION ON CONCRETE FLOOR

<table>
<thead>
<tr>
<th>Gross weight per box</th>
<th>Pieces / Box</th>
<th>Sq ft / box</th>
<th>Boxes / full pallet</th>
<th>Sq ft / pallet</th>
<th>Pallet gross weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>60x60x2 cm 23.54&quot;x23.54&quot;x3/4&quot;</td>
<td>33.00 kg / 73 lbs</td>
<td>2</td>
<td>7.75</td>
<td>30</td>
<td>1034 kg / 2280 lbs</td>
</tr>
<tr>
<td>90x90x2 cm 35.35&quot;x35.35&quot;x3/4&quot;</td>
<td>36 kg / 80 lbs</td>
<td>1</td>
<td>8.7</td>
<td>18</td>
<td>656 kg / 1446 lbs</td>
</tr>
<tr>
<td>UNICO</td>
<td>27.00 kg / 60 lbs</td>
<td>3</td>
<td>–</td>
<td>–</td>
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</table>
Acid
OF 01 ST

Romantic
OF 02 ST

Dark
OF 03 ST

Gothic
OF 04 ST

Available Colors

Shapes & Sizes

60x60x2 cm
23.54”x23.54”x3/4”

ST

Gross weight per box
32.90 kg / 73 lbs

Pieces / Box
2

Sq ft / box
7.75

Boxes / full pallet
30

Sq ft / pallet
232.5

Pallet gross weight
987 kg / 2176 lbs

Laying Systems

INSTALLATION
SAND SET OVER
COMPACTED BASE

INSTALLATION
ON PERMEABLE
AGGREGATE BASE

MORTAR BED
ADHESIVE
INSTALLATION

PEDESTAL
INSTALLATION ON
CONCRETE FLOOR

Unusual features
Uniform variation
Slight variation
Moderate variation
Substantial variation
SRI (60-80%): Solar Reflectance Index

NAT
Natural surface

STA
Aged structure

PL
Pullata surface

RD
Radiale surface

ST
Structured surface
**Quarziti 2.0**

- **Quarziti 2.0 - QR 03 / QR 04 Waterfall**
- **Quarziti 2.0 - QR 02 Mountains**

---

### Installation

- **Sand set over compacted base**
- **Installation on permeable aggregate base**
- **Mortar bed adhesive installation**
- **Fixed pedestal installation on concrete floor**

### Laying Systems

- **INSTALLATION**
- **SAND SET OVER COMPACTED BASE**
- **ON PERMEABLE AGGREGATE BASE**
- **MORTAR BED ADHESIVE INSTALLATION**
- **FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR**

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### Shapes & Sizes

- **60x60x2 cm 23.54”x23.54”x3/4”**
- **45x90x2 cm 17.64”x35.35”x3/4”**
- **60x120x2 cm 23.54”x47.17”x3/4”**

### Available Colors

- **Waterfall QR 03 NAT**
- **Mountains QR 02 NAT**
- **River QR 04 NAT**
- **Glacier QR 01 NAT**
- **Mantle QR 05 NAT**

---

### Gross Weight per Box

<table>
<thead>
<tr>
<th>Size</th>
<th>60x60x2 cm 23.54”x23.54”x3/4”</th>
<th>45x90x2 cm 17.64”x35.35”x3/4”</th>
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<th>UNICO</th>
<th>MODULAR</th>
<th>RIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>33.00</td>
<td>37.00</td>
<td>33.40</td>
<td>33.00</td>
<td>33.40</td>
<td>33.40</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>73</td>
<td>81</td>
<td>74</td>
<td>73</td>
<td>74</td>
<td>74</td>
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### Pieces / Box

<table>
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<tr>
<td>Pieces / pallet</td>
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<td>27</td>
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<tr>
<td>Sq ft / box</td>
<td>7.75</td>
<td>8.7</td>
<td>7.75</td>
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<tr>
<td>Sq ft / pallet</td>
<td>232.5</td>
<td>234.9</td>
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### Pallet weight

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<tr>
<td>Weight (lbs)</td>
<td>1034</td>
<td>999</td>
<td>669</td>
<td>1475</td>
<td>1473</td>
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<tr>
<td>Weight (kg)</td>
<td>2280</td>
<td>2198</td>
<td>1475</td>
<td>1473</td>
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---

### Available Colors

- **Waterfall QR 03 NAT**
- **Mountains QR 02 NAT**
- **River QR 04 NAT**
- **Glacier QR 01 NAT**
- **Mantle QR 05 NAT**

---

### Shapes & Sizes

- **60x60x2 cm 23.54”x23.54”x3/4”**
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### Available Colors

- **Waterfall QR 03 NAT**
- **Mountains QR 02 NAT**
- **River QR 04 NAT**
- **Glacier QR 01 NAT**
- **Mantle QR 05 NAT**

---

### Shapes & Sizes

- **60x60x2 cm 23.54”x23.54”x3/4”**
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<td>2198</td>
<td>1475</td>
<td>1473</td>
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</tr>
</tbody>
</table>
Available Colors

Artico
SI 01 RD

Havana
SI 04 RD

Dakota
SI 05 RD

Shapes & Sizes

30x120x2 cm
11.73"x47.17"x3/4" RD

Laying Systems

INSTALLATION
SAND SET OVER
COMPACTED BASE

INSTALLATION
ON PERMEABLE
AGGREGATE BASE

MORTAR BED
ADHESIVE
INSTALLATION

FIXED PEDESTAL
INSTALLATION ON
CONCRETE FLOOR

<table>
<thead>
<tr>
<th>Gross weight per box</th>
<th>33.00 kg / 73 lbs</th>
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<tr>
<td>Pieces / Box</td>
<td>2</td>
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<tr>
<td>Sq ft / box</td>
<td>7.75</td>
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<tr>
<td>Boxes / full pallet</td>
<td>20</td>
</tr>
<tr>
<td>Sq ft / pallet</td>
<td>155</td>
</tr>
<tr>
<td>Pallet gross weight</td>
<td>662 kg / 1460 lbs</td>
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Available Colors

Stones 2.0 - SO 05 Chambrod
Stones 2.0 - SO 10 Pierre Bleue
Stones 2.0 - SO 11 Pierre Bleue Sablée

Shapes & Sizes

<table>
<thead>
<tr>
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<th>Size</th>
<th>Dimensions</th>
<th>ST</th>
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<tr>
<td>Chambrod</td>
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<tr>
<td>Pierre Bleue</td>
<td>90x90x2 cm</td>
<td>35.5&quot;x35.5&quot;x3/4&quot;</td>
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</tr>
<tr>
<td>Pierre Bleue Sablée</td>
<td>60x120x2 cm</td>
<td>23.54&quot;x47.17&quot;x3/4&quot;</td>
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</tr>
</tbody>
</table>

UNICO

- 33x60x2 cm
- 12.99"x23.54"x3/4" ST

RIFT

- 10,5x45 cm
- 4 1/2"x18" NAT

Laying Systems

- INSTALLATION: SAND SET OVER COMPACTED BASE
- INSTALLATION: ON PERMEABLE AGGREGATE BASE
- MORTAR BED ADHESIVE INSTALLATION
- FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR

<table>
<thead>
<tr>
<th>Gross weight per box</th>
<th>Pieces / Box</th>
<th>Sq ft / box</th>
<th>Boxes / full pallet</th>
<th>Sq ft / pallet</th>
<th>Pallet gross weight</th>
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<td>1</td>
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<td>1</td>
<td>669 kg / 1475 lbs</td>
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<td>14.70 kg / 33 lbs</td>
<td>14</td>
<td>2</td>
<td>3</td>
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Sundeck

Available Colors

Origin
SD 01 RD

Classic
SD 02 RD

Spirit
SD 03 RD

Shapes & Sizes

60x60x2 cm
23.54"x23.54"x3/4"

30x120x2 cm
11.73"x47.17"x3/4"

Laying Systems

INSTALLATION SAND SET OVER COMPACTED BASE

INSTALLATION ON PERMEABLE AGGREGATE BASE

MORTAR BED ADHESIVE INSTALLATION

FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR

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<td>33.00 kg / 73 lbs</td>
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<tr>
<td>Pieces / Box</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Sq ft / box</td>
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<tr>
<td>Boxes / full pallet</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Sq ft / pallet</td>
<td>232.5</td>
<td>155</td>
</tr>
<tr>
<td>Pallet gross weight</td>
<td>1034 kg / 2280 lbs</td>
<td>662 kg / 1460 lbs</td>
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</tbody>
</table>

Uniform appearance v1
Slight variation v2
Moderate variation v3
Substantial variation v4

SRI (60-80%): Solar Reflectance Index

NAT Natural surface
STA Aged structure
PL Pullata surface
RD Radiale surface
ST Structured surface
Available Colors

Watts
TB 01 NAT

Harrison
TB 02 NAT

Hudson
TB 03 NAT

Greenwich
TB 04 NAT

Broadway
TB 05 NAT

Shapes & Sizes

<table>
<thead>
<tr>
<th>Shape</th>
<th>Size</th>
<th>Dimensions</th>
<th>Color</th>
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<td>Harrison</td>
<td>45x90x2 cm</td>
<td>17.64&quot;x35.35&quot;x1/4&quot;</td>
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<tr>
<td>Hudson</td>
<td>60x60x2 cm</td>
<td>23.54&quot;x23.54&quot;x3/4&quot;</td>
<td>RIFT</td>
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<tr>
<td>Greenwich</td>
<td>10,5x45 cm</td>
<td>41/5&quot;x18&quot;</td>
<td>NAT</td>
</tr>
</tbody>
</table>

Laying Systems

- INSTALLATION SAND SET OVER COMPACTED BASE
- INSTALLATION ON PERMEABLE AGGREGATE BASE
- MORTAR BED ADHESIVE INSTALLATION
- FIXED PEDESTAL INSTALLATION ON CONCRETE FLOOR
INTRODUCTION
Porcelain Pavers Installation Guide:
Introduction

Porcelain Pavers Contractor Installation Information

**PRELUDE:**
This installation manual is designed to be used by professional hardscape contractors and assumes they are already familiar with the proper construction techniques; design considerations and have the required skills for the installation of interlocking paving stones. It further assumes that the contractor has access to the required tools for such construction.

**INTRODUCTION:**
Belgard Porcelain Pavers are formed by pressing, followed by vitrification: this process involves the total fusion into a single material made from natural raw materials (sand, quartz, feldspars, kaolin, clays and inorganic pigments) which, fired at temperatures above 1226.67º C (2240º F), are transformed into a product with exceptional hardness, ultra-low absorption rate and unmatchable mechanical characteristics. Belgard porcelain pavers are eco-compatible and ecolabel-certified. Each unit is 20mm (0.7874”) standard thickness or ¾” nominal thickness and is durable enough to withstand use in exterior applications.

**Porcelain Pavers ADVANTAGES:**
- Freeze thaw resistant—they are 100% frost-free and their properties remain unaltered at temperatures ranging from -51.1º to + 60º C (-60° F to +140°F).
- Colour durability—colour is fused by vitrification, becomes an integral part of the porcelain surface and is not affected by elements.
- Easy installation—perfect fit and for fast installs
- Low absorption rate—spills, salt and other materials will not seep into pours
- Easy to clean—household cleaners can be used to wipe down spills and dirt; can even be pressure washed with a low pressure washing device* (see pressure washing warning below).*
- Stylish—matches what homeowners are currently doing inside the home
- Durable—high breakage loads of up to 997.9 kg (2,200 lbs) allows for breakage reduction
- Resistant—High compressive strength and ultra-low absorption rate creates a dense surface that resists mold, moss, dirt and other staining.
- Skid-resistant—structured paver top textures create non-slip surfaces for safety; perfect for around pools/spas or in wet climates
- Modular Design—Superior accuracy in dimensional sizing and linear sides, the slabs allow for perfectly executed installations with tight and accurate lines
- Light weight—16.8 kg (37 lbs) for the 24”x24” paver permit for easy installation, removal and serviceability and even reusability (Excluding adhered installations)
- Available in colors that have an SRI that qualifies for a LEED certification. The SRI on some units ranges between 60-80%. To receive LEED credit, the SRI must be at least 29%.
- Impermeable—deicing salt and other deicing materials can be used without concern of damage.

* It is important that all pressure washing of your porcelain pavers be done with a low pressure washer with a maximum of 1600 psi and nothing more powerful. When pressure washing your installation, care should be taken to prevent damage to the grout (adhesive and grout installations) and some re-sanding will be necessary when power washing an installation with sand or polymeric sand joints.

**SPECIALTY TOOLS FOR PORCELAIN PAVER CONSTRUCTION:**
- Wet cut tile saw equipped with a diamond blade manufactured for wet cutting porcelain. The saw should be designed to safely cut a 24 inch length porcelain paver.
- A paver clamp for easy handling, which can be used to both install and remove pavers.
- The use of gloves is highly recommended while handling and installing porcelain slabs.
- Appropriate notched trowels and grout float tools for cementitious adhesive and grout installation. The appropriate tool selection would be based on the adhesive and grout manufacturer’s recommendations.

**HANDLING:**
- Pallets of porcelain pavers are manufactured and shipped with a Heavy Duty plastic protective pallet cover and the individual porcelain pavers are packaged in protective card board boxes. To prevent damage to your pavers, do not remove the protective card board boxes until you are ready to install them.

**CAUTION:** Removing pavers from their protective packaging and handling multiple loose stones together creates the possibility for chipping.
• Once the Heavy Duty plastic pallet covers have been removed from the pallet, the un-used boxed pavers should be protected from the elements to insure the integrity of the protective cardboard boxes.

**INSTALLATION INFORMATION:**
Each of the following option details will include specific information relative to the selected installation. Base thicknesses vary between different geographical and climatic locations and the contractor will be installing typical base thicknesses for paving installations in their location.

**IMPORTANT:** Installing porcelain pavers **requires the bedding course sand to be pre-compacted and then struck off with a screed** to the required thickness as shown in the detail drawings. The porcelain pavers are not compacted and therefore the sand layer beneath them requires pre-compaction. **Do not compact dry sand,** but insure the sand has a 5 to 6% moisture content so that it will compact cohesively and allow for a smooth strike off finish.

**INSTALLATION INFORMATION THAT MUST BE FOLLOWED:**
• NEVER compact porcelain pavers with a plate compactor.
• ALWAYS pre-compact and strike off your sand leveling course before installing your porcelain pavers in sand set installations.
• Porcelain pavers should only be wet cut with a tile saw equipped with a wet cut porcelain blade.
• NEVER install porcelain pavers without the required 4mm spacing between them. The porcelain pavers should never be installed with a porcelain to porcelain contact. Plastic 4mm spacers (Spacer G shown in photos below) should be used on Sand Set and Permeable installations. The photo on the left illustrates the spacer installed in a perspective to support and space 4 paver corners and the photo on the right illustrates the installed spacer snapped apart (as designed) to form Space T that supports 2 paver corners. This versatility will permit your porcelain pavers to be installed in a stack bond pattern, a running bond patterns as well as a flush installation against another structure.
• For a 100 sf. project, approximately 34 spacers are needed; this allows for overages if needed.
Porcelain Pavers Installation Guide:
Introduction

CLEANING PRODUCTS:

<table>
<thead>
<tr>
<th>Types of Detergents Where sales are permitted</th>
<th>SOLVENTS (bleaching solution, oil of turpentine, acetone, trichloroethylene, nitrate based thinner)</th>
<th>ACIDS (muriatic acid, hydrochloric acid, phosphoric acid)</th>
<th>ALKALI (alkaline based detergents)</th>
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<tbody>
<tr>
<td>Beer</td>
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<tr>
<td>Lime</td>
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<td>Tar</td>
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<td>Cement</td>
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<td>Candle Wax</td>
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<td>Glue</td>
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<td>Chewing Gum</td>
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<td>Rubber Tire, Shoes</td>
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<td>Grease, Oil</td>
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<td>Ink</td>
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<td>Nicotine</td>
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<td>Resins</td>
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<td>Rust</td>
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<td>Nail Polish</td>
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<td>Cigarette</td>
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<tr>
<td>Wall Paint</td>
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</table>

TYPES OF STAIN

Beer
Lime
Tar
Cement
Candle Wax
Glue
Chewing Gum
Rubber Tire, Shoes
Grease, Oil
Ink
Nicotine
Felt-tip pen
Resins
Rust
Nail Polish
Cigarette
Wall Paint

LEED COMPLIANT PRODUCTS:

All the slabs in this catalog can help obtain 10 LEED credits, depending on the material and how it is used.

Points that can be obtained by using Mirage® materials:

SUSTAINABLE SITES: Mirage® products help reduce the “heat island” effect (the difference in the thermal gradient within and outside urban areas), in order to minimize the effects of the microclimate on the habitat. This is achieved by the low Solar Reflection Index (SRI) of Mirage® products, which makes them especially suitable for outdoor use.

SS_C_7.1 Heat Island Effect – Roofing Excluded (1 Point)
SS_C_7.2 Heat Island Effect – Roof (1 Point) Up to 75% of open space may be paved with recreation and pedestrian friendly surfaces.
SS_C_5.2 Site Development-Maximize Open Space (1 Point) By not filling the joints and using an open graded aggregate base, Mirage® pavers can be installed as a permeable option.
SS_C_6.1 Stormwater Design-Quantity Control (1 Point)
SS_C_6.2 Stormwater Design-Quality Control (1 Point)

WATER EFFICIENCY: Installed as a permeable option, rainwater can be harvested and reused for non-potable irrigation.
WE_C_1 Water Efficient Landscaping (2-4 Points)

MATERIALS & RESOURCES: Numerous Mirage® products can help improve a building’s LEED rating in terms of “Materials & Resources”; in particular, the collections Stones 2.0, Lab_21, Tribeca, and Norr allow LEED points to be obtained due to containing a proportion of “pre-consumer” recycled material.
MR_C_4.1 Recycled Material Content (1 Point) (20% pre-consumer)
MR_C_4.2 Recycled Material Content (1 Point) (40% pre-consumer – in addition to the point above)

ENERGY AND ATMOSPHERE: Mirage® products help to define the minimum energy efficiency level of the building.
EA_C_1 Optimization of Energy Performance (1 Point)

INNOVATION IN DESIGN: Mirage® material is produced in compliance with the criteria set down for Ecolabel certification, the most important environmental standard in the world for the certification of ceramic tiles.
ID_1.1 Innovation In Design (1-4 Points)

INDOOR ENVIRONMENTAL QUALITY: Mirage® material guarantees a very low amount of air pollutants.

Claims made refer to LEED 2009. For more information visit Belgard.com/porcelain.
# Porcelain Pavers Installation Guide: Introduction

## LEED credits:

<table>
<thead>
<tr>
<th>Collection</th>
<th>Products</th>
<th>Sustainable Sites</th>
<th>Materials &amp; Resources</th>
<th>Energy &amp; Atmosphere</th>
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### Legal Disclaimer
The nominal measurements include 4mm 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.

### STANDARD CALIBER - (M)

#### 8” x 48” Nominal sizing
Calibrated unit cut sizing without spacing = 194x1198mm or 7.64” x 47.17”
With 4mm spacing added to two planes = 198mm x 1202mm or 7.80” x 47.32”

![8 x 48 Nominal Sizing](image)

#### 24” x 48” Nominal sizing
Calibrated unit cut sizing without spacing = 598x1198mm or 23.54” x 47.17”
With 4mm spacing added to two planes = 602mm x 1202mm or 23.70” x 47.32”

![24 x 48 Nominal Sizing](image)

#### 24” x 24” Nominal sizing
Calibrated unit cut sizing without spacing = 598x598mm or 23.54” x 23.54”
With 4mm spacing added to two planes = 602mm x 602mm or 23.70” x 23.70”

![24 x 24 Nominal Sizing](image)

#### 18” x 36” Nominal sizing
Calibrated unit cut sizing without spacing = 448x898mm or 17.64” x 35.35”
With 4mm spacing added to two planes = 452mm x 902mm or 17.80” x 35.51”

![18 x 36 Nominal Sizing](image)

#### UNICO 13½” x 24” Nominal sizing
Calibrated unit cut sizing without spacing = 330x598mm or 12.99” x 23.54”
With 4mm spacing added to two planes = 330x602mm or 13.20” x 23.70”

![UNICO 13 x 24 Nominal Sizing](image)**
JOINT INFILLING INFORMATION:
When porcelain pavers are installed as sand set installations, you may fill the 4mm paver joints with:

TRADITIONAL SAND
Dry traditional sand is swept into the open joints until they are completely filled. Excess sand should be swept off of the pavement. Keep in mind that sand joint may in time have to be re-sanded as wind and rain can cause some erosion.

CEMENT BLENDED SAND
Dry cement blended sand (typical 3 parts sand to 1 part cement) is swept into the open joints until they are completely filled. Excess cement blended sand is swept off of the pavement. It is extremely important that all of the excess sand and dust be swept from the surface (blowers can be used for final dust removal), as any residual dust or sand can stain the surface. After joints are full and the surface is clean the pavement is misted with water to activate the cement and the curing of the mixture.

POLYMERIC SAND
Polymeric sand is a manufactured sand that is blended with polymers which hardens when subjected to moisture. The sand is swept into the open joints until they are completely filled. Like cement blended sand, it is extremely important that all excess sand and dust be swept from the surface (blowers can be used for final dust removal), as any residual dust or sand can stain the surface. After joints are full and the surface is clean, the pavement is misted with water to activate the polymer and curing of the mixture.
MODULAR PROJECT:
Available to order for the QUARZITI_2.0 collection (recommended for laying on gravel or sand and footing with glue)

MODULAR #1

Module percentages:
• modular (1 pc. 60x90 + 1 pc. 30x60) - 50%
• 60x120 - 50%

QUARZITI 2.0
QR 01 NAT
Glacier

QUARZITI 2.0
QR 02 NAT
Mountain

QUARZITI 2.0
QR 03 NAT
Waterfall

QUARZITI 2.0
QR 04 NAT
River

QUARZITI 2.0
QR 05 NAT
Mantle
Porcelain Pavers Installation Guide: Introduction

MODULAR #2
Module percentages:
• modular (1 pc. 60x90 + 1 pc. 30x60) - 40%
• 60x120 - 40% • 60x60 - 20%

MODULAR #3
Module percentages:
• modular (1 pc. 60x90 + 1 pc. 30x60) - 50%
• 60x120 - 50%

MODULAR #4
Module percentages:
• modular (1 pc. 60x90 + 1 pc. 30x60) - 40%
• 60x120 - 40% • 60x60 - 20%

MODULAR #5
Module percentages:
• modular (1 pc. 60x90 + 1 pc. 30x60) - 57.1%
• 60x120 - 28.6% • 60x60 - 14.3%

For more information visit Belgard.com/porcelain
SNOW REMOVAL:
The surface of the Belgard porcelain paver is very hard and very resistant to scratching; normal shoveling is not a problem. Use a plastic or plastic edged shovel to insure that an edge of the paver is not accidentally caught; like on any pavement, use of metal shovels can cause chips to corners or surface. If using a snow blower, insure the impeller is adjusted to at least ¼ inch above the surface to prevent damage (1/4 inch height is recommended with snow blower use on any pavement).

Belgard approved deicing materials can be used on the porcelain pavers without concern of any damage. Approved deicing chemicals are sodium chloride (NaCl) and to the extent temperature falls below -10º C (14º F), Calcium Chloride (CaCl2).

IMPORTANT NOTES:
i. When selecting sand for a traditional sand or cement blended sand infill, insure the gradation of the sand is fine enough to pass through and fill the 4 mm joints.

ii. When using Polymeric Sand it is important to follow the manufacturer’s instructions to insure there is no surface staining.

iii. Cement blended sand and polymeric sand can both contribute to a reduction in joint plant growth and insect infiltration within the joint infill material.

INSTALLATION OPTIONS:
1. Sand Set over Compacted Road Base Installation...........................................................................................................(Pedestrian Foot Traffic)
2. Sand Set over Concrete Overlay Installation.................................................................................................................(Pedestrian Foot Traffic)
3. Cementitious Adhesive Overlay, Concrete Base Installation.......................................................................................(Light Vehicle Traffic)
4. Permeable Over Open Graded Aggregate Installation.................................................................................................(Pedestrian Foot Traffic)
5. Stepping Stone Sand Set on Compacted Road Base Installation.......................................................................................(Pedestrian Foot Traffic)
6. ¾” Fixed Pedestal Installation on Concrete Floor..............................................................................................................(Pedestrian Foot Traffic)
7. Installation with EZ Base Panels .......................................................................................................................................(Pedestrian Foot Traffic)
8. e_deck: Pedestal System for Decking Installation, on Concrete Floor...........................................................................(Pedestrian Foot Traffic)

Roof Top and Commercial Raised Pedestal Installations require engineered design. For Engineered support in these applications, please contact your local Belgard representative.

For additional technical information on the installation of porcelain pavers, please contact Len Browning at Len.Browning@oldcastle.com.
INSTALLATION OPTIONS
1. Sand Set over Compacted Road Base Installation – (Pedestrian Foot Traffic)

INSTALLATION NOTES:
- Follow the detail drawing below.
- Base material is to be over based 6 to 8 inches beyond the edge of the pavement.
- The required edge restraint system is a low profile edge restraint with a vertical height of 1 ½ inches as shown in the drawing.
- Insure that pavement is constructed with a 1 ½ to 2 degree slope that it is pitched away from any building.
- Insure the plastic 4mm spacers are installed at all corners of the installed pavers.

Important: For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.

For more information visit Belgard.com/porcelain
2. Sand Set over Concrete Overlay Installation (Pedestrian Foot Traffic)

INSTALLATION NOTES:
- Follow the detail drawing below.
- The required edge restraint system is a low profile edge restraint with a vertical height of 1 ½ inches as shown in the drawing.
- Mechanically anchor edge restraint into the concrete base.
- Insure geotextile is installed directly on top of the concrete to contain the bedding sand.
- Insure that pavement is constructed with a 1 ½ to 2 degree slope and that it is pitched away from any building.
- Insure the plastic 4mm spacers are installed at all corners of the installed pavers.

Important: For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.

Belgard Porcelain Pavers Detail

Pedestrian Traffic - Sand Set Concrete Overlay Installation

Note: Pre-compact the sand bedding course and screed to a 1 inch thickness with smooth surface.

Sand Bedding Course
(1 inch Pre-compacted thickness)

Geotextile Fabric
Installed on top of concrete and folded up the front of the Edging. This is required to prevent the unwanted migration of the sand bedding course material.

Caution: Never compact Belgard Porcelain Pavers with a plate compactor.

Never install Belgard Porcelain Pavers without the required 4mm spacers between all units.

This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Belgard accepts no liability for the improper use of this detail.

For more information visit Belgard.com/porcelain
3. Cementitious Adhesive Overlay, Concrete Base Installation (Light Vehicle Traffic)

INSTALLATION NOTES:

• Follow the detail drawing below.
• Insure that pavement is constructed with a 2 degree pitch and that it is pitched away from any building.

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 4mm (1/8” to 3/16”) grout joint is acceptable, but for larger concrete foundation slabs that do require contraction / control joints, the joint width should be a 3/8”. 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.


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**Important:** For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.
4. Permeable Over Open Graded Aggregate
Installation (Pedestrian Foot Traffic)

INSTALLATION NOTES:
• Follow the detail drawing below.
• The required edge restraint system for this installation has a vertical height of 2 ½ inches as shown in the drawing. Follow the edge restraint manufacturer’s recommendations for the use of their product in permeable applications regarding geogrid usage and placement to maintain the performance of their edging.
• Insure that pavement is constructed with a 2 degree pitch and that it is pitched away from any building.
• Insure the 4mm spacers are installed between all pavers.

Important: For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.

For more information visit Belgard.com/porcelain
5. Stepping Stone Sand Set on Compacted Road Base Installation (Pedestrian Foot Traffic)

Grass cutout areas provide peripheral paver containment

Belgard Porcelain 20mm (3/4 inch nominal) Pavers

Compacted Road Base, 3/4 minus road base material. Base thickness is determined by soil and climatic conditions.

Note: Pre-compact the sand bedding course and screed to a 1 inch thickness with smooth surface.

Sand Bedding Course (1 inch Pre-compacted thickness)

Caution: Never compact Belgard Porcelain Pavers with a plate compactor.

Never install Belgard Porcelain Pavers without the required 4mm spacers between all units.

Important: For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.

This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Belgard accepts no liability for the improper use of this detail.
6. ¾” Fixed Pedestal Installation on Concrete Floor (Pedestrian Foot Traffic)

INSTALLATION NOTES:
• Follow the detail drawing below.
• Insure that concrete slab is smooth, even across the surface and is constructed with a 2 degree pitch and that it is pitched away from any building.
• Insure the plastic ¾” pedestal support are installed at all corners of the installed pavers.

NOTE: Pedestal installations can be done with Westile and e-Deck pedestals. Use Westile pedestals for 24x24, 36x36 and 18x36. For plank and modular unit installations, use e-Deck pedestals.

**Important:** For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.
7. Installation with EZ Base Panels
(Pedestrian Foot Traffic)

INSTALLATION NOTES:

Step 1: Excavation of Patio or Walkway Area
Remove all grass or plant material from the area of excavation. Excavate approximately 3 to 3 ½ inches below the finished grade and over excavate the installation area 6 inches beyond the edge of the Mirage Porcelain pavement. The excavated depth will accommodate the Geo-fabric, the pre-compacted 1/2” sand leveling layer, the Belgard EZ Base and your Porcelain slabs.
* EZ Base installations are intended for foot traffic only.
** prior to excavation, check with local utility services to ensure digging will not damage any below grade utilities.

Step 2: Leveling and Compacting the Excavated Area
Carefully excavate the area to create a level soil sub-grade that slightly slopes away from structures (i.e. a house). Using a hand tamper compact the sub-grade and insure the excavated area is as smooth as possible, making sure that the sub-grade is within +/- 1/4” of the excavation depth. Use a string level to establish the desired slope for your area.

Step 3: Geotextile and Pre-Compacted Bedding Sand Installation.
Install the geotextile barrier fabric (weed barrier) on top of the compacted sub-base. Spread a slightly hydrated layer of sand to a depth of 3/4” over the geotextile and compact the sand leveling layer. Screed and strike off the compacted sand leveling layer to a final thickness of 1/2” using a straight edge to screed which will create a smooth final sand leveling surface.

Step 4: Installation of EZ Base
Install Belgard EZ Base on the finished sand leveling layer so that it is fully covers the excavation area including the 6 inch over excavation. Start laying the EZ Base units according to a staggered pattern while ensuring locking of the tongue and groove system. Trim any visible curves or protruding angles that are beyond excavated area using a utility knife.

Step 5: Installation of Edge Restraint and Porcelain Slabs
Lay porcelain slabs directly on the Belgard EZ Base panels. Ensure your EZ Base panels extend the 6” beyond the edge of the porcelain pavers. To properly space the porcelain slabs, insure that Spacer G pieces are installed throughout the entire installation. Install a low profile edge restraint on the EZ Base, making sure it rests firmly against the pavers. The edge restraint can be secured to the EZ Base panels with either HWDA Anchors (as shown in our detail drawing) or spikes.

Step 6: Install, Sweep and Hydrate Polymeric Sand
Pour, spread and sweep the polymeric sand into all slab joints, insuring all joints are filled. Sweep the surface clean with a fine bristle broom or carefully utilize a blower to remove any excess sand or remaining dust. Gently mist the surface of the installation according to the polymeric sand’s manufacturer directions which will hydrate the polymeric sand joint and initiate the curing of the joint.
*always follow the instructions from the polymeric sand manufacturer

A Couple of Things To Consider.
- We never compact our porcelain slabs.
- Saturating the surface with a hose will cause the polymer binder to wash out of the sand mixture and flow below the slabs as well as wash the sand out of the joints. Misting keeps the polymer suspended in the mixture so that it can bind everything together and it also keeps the sand from being washed out of the joints during the hydrating process.

Important: For a professional and chip free cut, Belgard / Mirage Porcelain Slabs should only be cut with a tile saw equipped with a wet cut porcelain blade.

Belgard Mirage Porcelain Slab Detail

**Pedestrian Traffic - EZ Base Panel Base System over sand leveling material**

Note: Pre-compact the sand leveling material spread to a 1/2 inch thickness and smooth surface.

Caution: Never compact Belgard Mirage Porcelain Slabs with a plate compactor. Never install Belgard Mirage Porcelain slabs without the required 4mm spacers between all units.

For more information visit Belgard.com/porcelain
8. e_deck: Pedestal System for Decking Installation, on Concrete Floor (Pedestrian Foot Traffic)

**INSTALLATION NOTES:**
- Follow the detail drawing below.
- Insure that concrete slab is smooth, even across the surface and is constructed with a 2 degree pitch and that it is pitched away from any building.
- Insure the plastic pedestal support are installed at all corners and perimeter, to obtain the right stability of the floor.
- 8" is the Maximum height of the Pedestal Installation.
- All slabs must have a galvanized steel sheet on the back.
- The distance between joists has to be 16" for plank and 12" for other sizes.
- The flooring surface must slope in order to achieve a optimum water run-off: for slopes of the concrete base of a maximum of 3%, the e_deck structure can level itself without needing any slope correctors.

**Support**
- Aluminium Joists
- Belgard Porcelain 20mm (⅜ inch nominal) Pavers
- Concrete Base, thickness and reinforcement requirements are based on traffic loading and are to be designed and constructed according to the ACI (American Concrete Institute) and PCA (Portland Cement Association) standards.

**Caution:** Never compact Belgard Porcelain Pavers with a plate compactor.

Never install Belgard Porcelain Pavers without the required 4mm spacers between all units.

Important: For a professional and chip free cut, Belgard Porcelain Pavers should only be cut with a tile saw equipped with a wet cut porcelain blade.

Belgard Porcelain Pavers Detail

**e_deck Pedestal Installation**
On Concrete Floor

This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Belgard accepts no liability for the improper use of this detail.
1. **EVO_2/E™ porcelain stoneware with galvanized steel sheet**

For further details and the technical specifications for galvanized steel sheet, please contact your Belgard dealer. Belgard recommends the use of plus galvanized steel sheet on all the slabs of the raised flooring surface. Belgard is only responsible if it supplies a complete system, therefore including the slabs with galvanized steel sheet attached.

2. **Mirage™ e_deck kit**

**A. ALUMINIUM JOISTS**

THREE CAVITY JOISTS IN STRENGTHENED ALUMINIUM WITH TEETH AND CAVITY, ON THE UPPER SURFACE. SPECIFICALLY SIZED FOR THE STRUCTURE COMPONENTS.

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**B. SEALS**

SEALS IN BLACK EPDM WITH AN ASYMMETRICAL “H” SECTION IN 3-METRE LENGTHS AND A SMOOTH SURFACE.

The seals are supplied already fitted into the specific cavities on the aluminium joists of the E_DECK KIT.

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</tr>
</tbody>
</table>

**C. SPACERS**

SPECIALY DESIGNED POLYPROPYLENE SPACERS TO GUARANTEE A 4MM GAP BETWEEN EVO_2E™ SLABS.

The spacers are supplied packed in bags in the E_DECK KIT.

<table>
<thead>
<tr>
<th>SPACERS</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 mm</td>
<td>5 mm</td>
</tr>
</tbody>
</table>

**KIT CONTENTS**

<table>
<thead>
<tr>
<th>KIT PACKING DATA</th>
<th>SURFACE / KIT</th>
<th>WEIGHT / KIT</th>
<th>KIT / PALLET</th>
<th>sqm / PALLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA - SI - SD</td>
<td>4,5 sqm/KIT</td>
<td>19 kg</td>
<td>54 KIT</td>
<td>243 sqm/PALLET</td>
</tr>
</tbody>
</table>

**E_Deck Kit Dimension:** 130x70x3200 mm - 5/8” x 2 3/8” x 128”
Supports

Adjustable-height supports for raised flooring, complete with a head in bi-material and a rubber finish to prevent noise and slipping.

<table>
<thead>
<tr>
<th>SUPPORTS</th>
<th>BASE DIAMETER</th>
<th>HEAD DIAMETER</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>205 mm (8 1/4&quot;)</td>
<td>70 mm (2 3/4&quot;)</td>
<td>MAX 300 mm (MAX 8&quot;)</td>
</tr>
</tbody>
</table>

Accessories

A. Mute

Mat for supports providing acoustic insulation and protection for the moisture barrier, made in high-density modified closed-cell insulation foam.

<table>
<thead>
<tr>
<th>MUTE</th>
<th>BASE DIAMETER</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>205 mm (8 1/4&quot;)</td>
<td>3 mm (1/8&quot;)</td>
</tr>
</tbody>
</table>

B. Lateral Restraint

Restraint for the slabs to use around the perimeter.

<table>
<thead>
<tr>
<th>LATERAL RESTRAINT</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32 mm (1 1/4&quot;)</td>
<td>15 mm (5/8&quot;)</td>
</tr>
</tbody>
</table>

C. Lateral Closure with EVO_2/E™ Slab

D. Slope Correctors

To correct the slope of the substrate. For a better water downflow, Mirage recommends a slope of the floor of 1-2%.

<table>
<thead>
<tr>
<th>SLOPE CORRECTORS</th>
<th>SLOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1% - 2% - 3% slope. Also usable combined.</td>
</tr>
</tbody>
</table>
Installation of **perimetral supports** and **aluminium joists**

The arrow indicates the side where the flooring surface should slope in order to achieve optimum water run-off. For slopes of the concrete base of a maximum of 3%, the e_deck structure can level itself without needing any slope correctors.

**e_deck: structure tab**

<table>
<thead>
<tr>
<th>Size</th>
<th>From 3&quot; to 12&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>20x120 cm - 8&quot;x48&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
<tr>
<td>30x120 cm - 12&quot;x48&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
<tr>
<td>60x60 cm - 24&quot;x24&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
<tr>
<td>45x90 cm - 18&quot;x36&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
<tr>
<td>60x120 cm - 24&quot;x48&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
<tr>
<td>90x90 cm - 36&quot;x36&quot; (rated)</td>
<td>e_deck structure + slab with galvanized steel sheet</td>
</tr>
</tbody>
</table>
1. Put the mute mats and the supports into position on the floor. (perimetral support must be cutted).
2. Put the joists into position (12” in -between) and secure them by pressing them down gently.
3. Start laying down tiles from the corner.
4. Use the spacers from the kit, in order to lay down the tiles properly.
5. Fix the lateral closure by using the special lateral restraint.
6. Cut on the edge the slabs, in order to fit perfectly into the lateral restraint.
7. Enjoy your new decking area!
To create lasting memories you have to start with a product that lasts, and that is exactly what you get with Belgard Hardscapes. You can rest assured in our uncompromising level of quality and craftsmanship all backed by our transferable lifetime limited warranty.

Belgard is also the only hardscapes company backed by the Good Housekeeping Seal. The limited warranty reflected by the Good Housekeeping Seal means that if a product bearing the Seal is defective within the first two years of purchase, Good Housekeeping will replace the product or refund the purchase price.

For more information, please visit us at Belgard.com/porcelain.