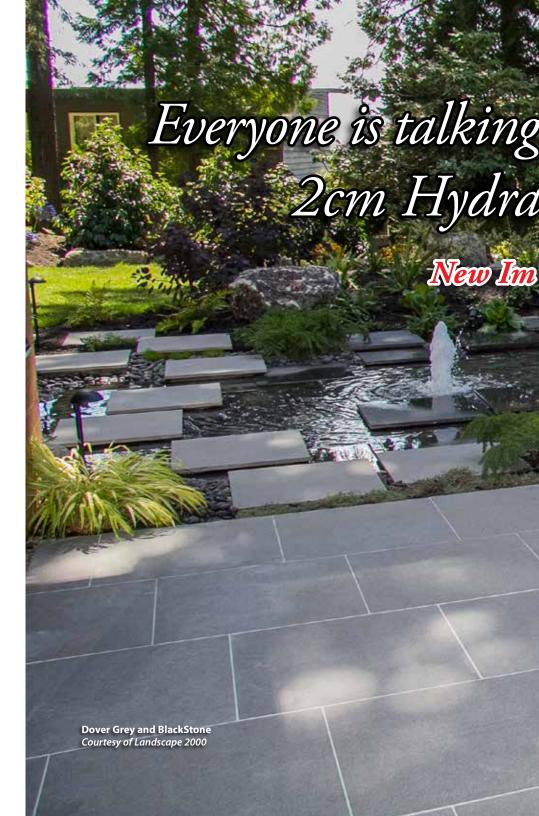




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# about our Aristokrat® Series Pressed Porcelain Slabs

ages on pages 52-65

- Stain and mark resistant high density surface
- No efflorescence
- Use indoors or outdoors
- Precise sizing greatly reducing installation time and cost
- Superior strength to thickness ratio than concrete or natural stone
- Lightweight (only 9lbs/ft2) provides for cost savings in shipping and installation
- Install on Pedestals, Gator Base System, Aggregate set or Mortar set
- Can be used in permeable paving slab applications



#### **Our commitment to the environment:**

"Earth provides enough to satisfy every man's needs, but not every man's greed." – Mahatma Gandhi

Abbotsford Concrete Products is committed to producing our products with environmental stewardship and community responsibility as a first priority.

Our production processes use recycled water, energy efficient methods and low impact ingredients such as ECOCEM®, in the fabrication of our products. **EcoCem®** with its low carbon footprint, is an environmentally friendly alternative to normal Portland Cement. It is sustainable and also meets CSA specifications for Portland Limestone Cements.

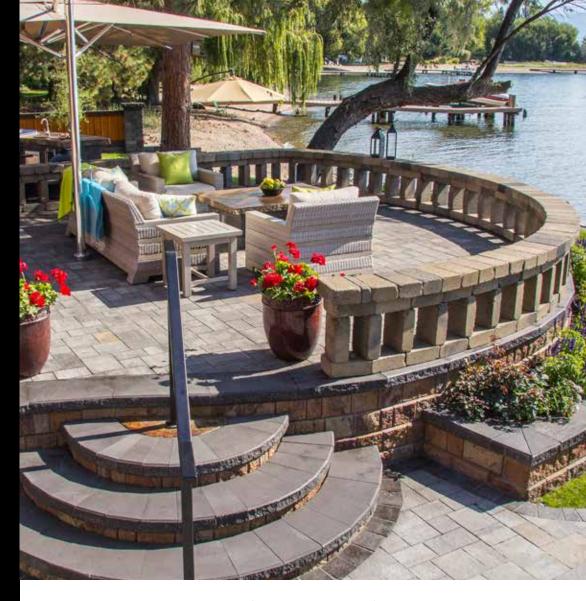
Our environmentally friendly pavers are ideal for driveways, walkways and patios. They are not only attractive, but they are virtually indestructible and low maintenance. The many styles, colors and patterns make for unlimited design possibilities that will enhance any property.

The individual nature of our pavers and retaining walls allow you to alter or add to your design at any time without any major disruption, giving you unparalleled freedom and low impact to the environment as well as your pocket book.

#### **Earn LEED® points with Abbotsford Concrete Products.**

What is LEED®? LEED®, or Leadership in Energy and Environmental Design is an ecology-oriented building certification program run under the auspices of the US and Canada Green Building Council. LEED® is changing the way we think about how buildings and communities are planned, constructed, maintained and operated. LEED® works for all buildings, from homes to corporate headquarters, at all phases of development.

Our products such as **AquaPave®** permeable pavers and the **Aristokrat® Series** Porcelain HydraPressed Slabs, can earn valuable LEED® points for designing sustainable buildings and hardscapes.



Ask your Abbotsford Concrete dealer for more details.

Visit our website
for full Design Details and Photo Gallery at
www.pavingstones.com







### Our assurance to you:

#### **Abbotsford Concrete Products**

has been an innovative industry leader in the manufacturing of Segmental Systems for more than a quarter of a century. Our state of the art manufacturing facilities ensure that you receive the best products, which meet or exceed strict ASTM and CSA Standards.

### Why Insist On PermaFinish?

Our exclusive **PermaFinish**, two layer, unified manufacturing process will ensure that your next residential or commercial project will maintain its texture, a more intense color, and a superior abrasion resistant wearing surface than out-dated manufacturing processes.

In 1992 Abbotsford Concrete was one of the first manufacturers in North America to invest in this technology that was developed in Europe over half a century ago. Our advanced *PermaFinish* technology matrix uses fine graded hard granite sands, high cement content, and an equally high pigment concentration to ensure long lasting aesthetics in your investment. Without *PermaFinish*, coarse aggregates on the surface become worn quickly, within as little as a couple of years, exposing the natural colors of the aggregates below.





An example of pavers without our **PermaFinish** layer.





Pavers with our exclusive **PermaFinish** have a superior abrasion resistant surface and will maintain its color intensity.



Protect your investment with our **PermaFinish** manufacturing technology.

This exposure gives the appearance of a faded worn-out paver. Other brand manufacturers would have you believe that by having color throughout... you'll receive a better paver. Color throughout has absolutely nothing to do with aesthetics or durability. Abbotsford Concrete's **PermaFinish** high performance matrix is concentrated where it counts.

Insisting on **PermaFinish** for your next paver project will help ensure lasting beauty, and protect your investment for many decades to come.

Variation in color or shade is inherent in all concrete products. In this brochure we have attempted to achieve as close a representation to actual product as photography and printing will allow. We recommend that you check with your supplier of Abbotsford Concrete Products for actual samples.

When choosing an installer for your project, it is strongly advised that you choose an ICPI (Interlocking Concrete Pavement Institute) Accredited Installer.

See our list of Accredited Installers at www.pavingstones.com



# ElassiStandard with PermaFinish

The **Standard Series** is the ultimate in adaptive design.

The six sizes and large selection of colors can be used in a wide variety of patterns to reflect your personal style, from understated to dramatic.



#### Standard

Length: 87/8" (225mm) 47/16" (112.5mm) Width: 3.7 stones/ft<sup>2</sup>

40 stones/m<sup>2</sup> Thickness: 23/8" (60mm)





Thickness: 23/8" (60mm) Special Order



#### **Double Standard**

Length: 8%" (225mm) Width: 8%" (225mm) 1.8 stones /ft2 20 stones/m<sup>2</sup>

Thickness: 2%" (60mm)

#### California

Length: 11%" (301mm) Width: 515/16" (151mm) 2 stones /ft2 21.5 stones/m<sup>2</sup>

Thickness: 23/8" (60mm)



#### **Half Standard**

Length: 47/16" (112.5mm) Width: 47/16" (112.5mm) 7.3 stones/ft<sup>2</sup> 80 stones/m<sup>2</sup>

Thickness: 23/8" (60mm)

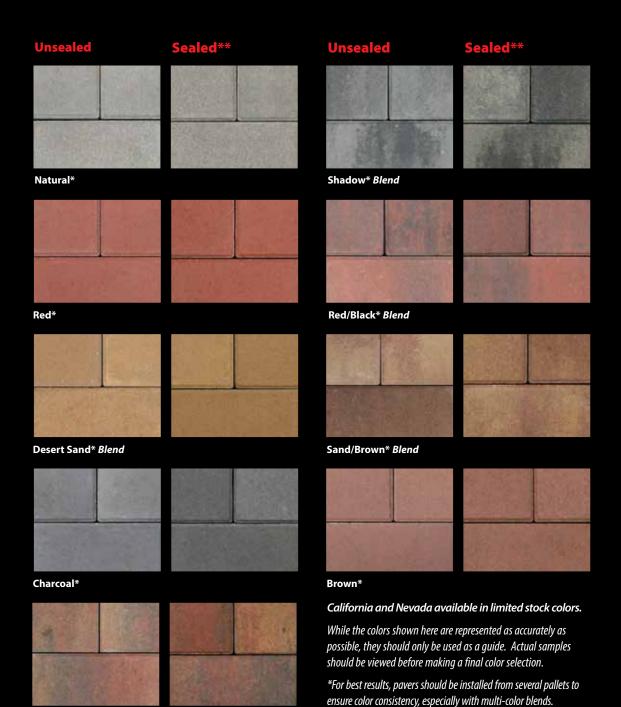
#### Nevada

Length: 11%" (301mm) 11%" (301mm) 1 stones /ft2 11 stones /m<sup>2</sup>

Thickness: 23/8" (60mm)





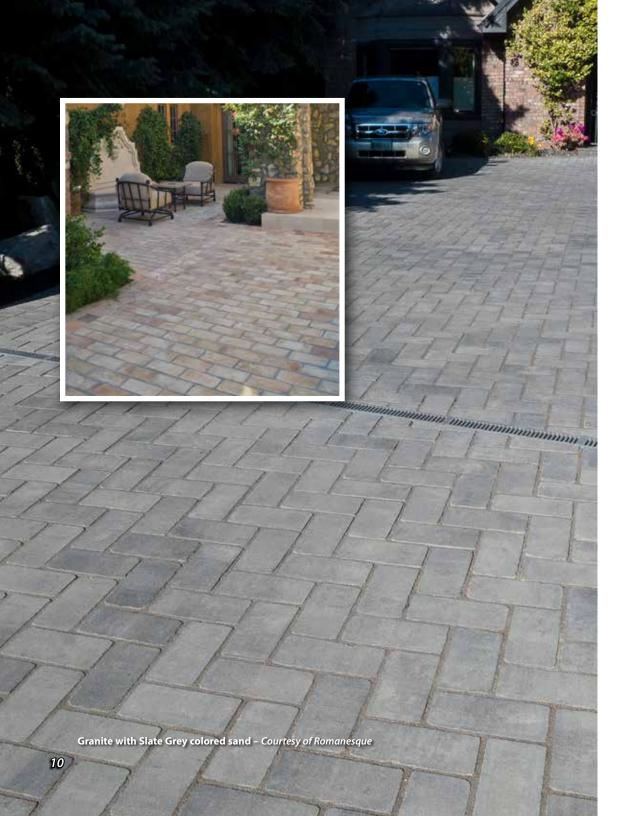






\*\* 'Sealed' pavers in this brochure have received an acrylic sealer, which is recommended to help with maintenance and to protect them against staining. Sealing is done post installation.





# Estate Stone with PermaFinish

Estate Stone with its worn distressed appearance gives that historical ambience reminiscent of Old World Charm. Designed with its wider joint, Estate Stone uses polymeric joint sand to enhance and complete the installation. By simply choosing a different colored sand you can dramatically change your projects overall appearance.



#### Size:

Length: 11%" (301mm)
Width: 51%6" (151mm)
Area: 2 stones/ft²
21.5 stones/m²

Thickness: 23/8" (60mm)

#### **High Performance Polymeric Joint Sand**

Estate Stone is installed in the same way as our other pavers, however requires the application of High Performance Polymeric Joint Sand designed for use with wide joint formats.

(see page 29)

#### Unsealed



**Granite Estate Stone** 



with Slate Grey colored sand



**Charcoal Estate Stone** with Slate Grey colored sand



**Copper Canyon Estate Stone** with Slate Grey colored sand



La Jolla Estate Stone with Slate Grey colored sand



**Granite Estate Stone** with Black Diamond colored sand



**Charcoal Estate Stone** with Black Diamond colored sand



**Copper Canyon Estate Stone** with Beige colored sand



La Jolla Estate Stone with Black Diamond colored sand



With **Estate Stone**, you can use different colors of Polymeric Sand to complement and personalize your project.

\*\* 'Sealed' pavers in this brochure have received an acrylic sealer, which is recommended to help with maintenance and to protect them against staining. Sealing is done post installation.



**Copper Canyon Estate Stone** with Ivory colored sand



La Jolla Estate Stone with Beige colored sand









#### Standard

Length: 8%" (225mm) 47/16" (112.5mm) Width: 3.7 stones/ft<sup>2</sup> 40 stones/m<sup>2</sup> Thickness: 23/8" (60mm)



#### **Double Standard**

Length: 87/8" (225mm) 81/8" (225mm) Width: 1.8 stones /ft2 20 stones/m<sup>2</sup> Thickness: 23/8" (60mm)



#### **Half Standard**

Length: 47/16" (112.5mm) Width: 47/16" (112.5mm) 7.3 stones/ft2 80 stones/m<sup>2</sup> Thickness: 23/8" (60mm)

If your project requires the look of real stone, Pacific Slate is a "Natural"



**Pacific Slate, Teak Courtesy of Romanesque Interlock** 



12

Note: Due to this paver's unique profile, a special mat is required to be placed on the bottom of the compactor. Please contact your dealer for complete details.

Pacific Slate, Granite Courtesy of Express Landscaping

#### **Unsealed**

#### Sealed\*\*





**Granite\*** Blend





Sandalwood\* Blend





Indian Summer\* Blend



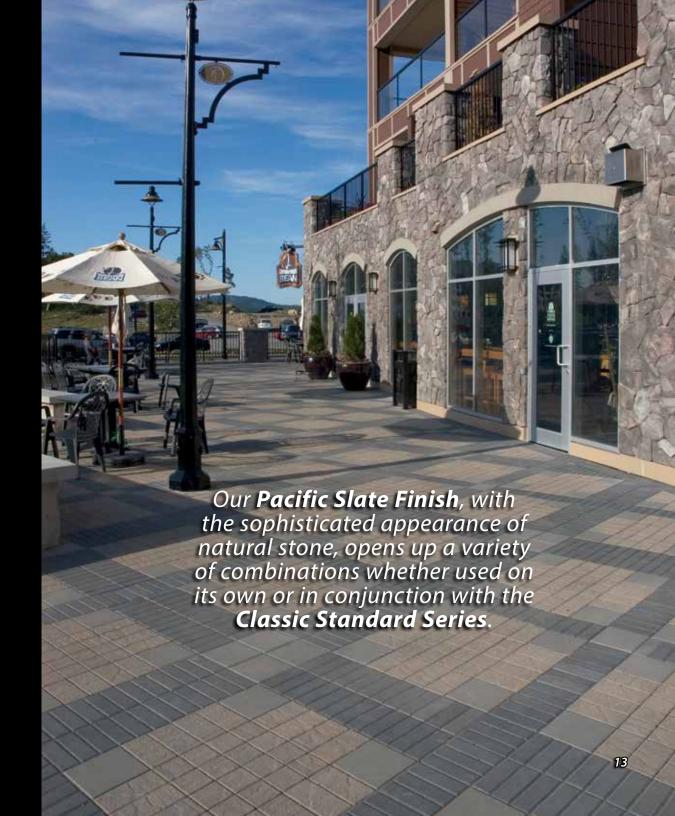


Teak\* Blend

While the colors shown here are represented as accurately as possible, they should only be used as a guide. Actual samples should be viewed before making a final color selection.

\*For best results, pavers should be installed from several pallets to ensure color consistency, especially with multi-color blends.

\*\* 'Sealed' pavers in this brochure have received an acrylic sealer, which is recommended to help with maintenance and to protect them against staining. Sealing is done post installation.





# Old Country Stone Today's technology can transport European charm of the past right

to your doorstep. **Old Country Stone** is a tumbled product that gives the aesthetics of a hand-hewn stone with the convenience and practicality of a paver.



### Type 1

Length: 8%" (226mm) Width: 71/8" (181mm) 2.3 stones/ft<sup>2</sup> 25 stones/m<sup>2</sup> Thickness: 23/8" (60mm)



515/16" (151mm) 71/8" (181mm) 3.4 stones/ft<sup>2</sup> 37 stones/m<sup>2</sup> Thickness: 23/8" (60mm)



3" (76mm) 71/8" (181mm) Width: 6.8 stones/ft<sup>2</sup> 74 stones/m<sup>2</sup> 2¾" (60mm) Thickness:



Old Country Stone is the perfect choice for reflecting the incredible possibilities when old world charm meets the present.









Make a statement with the soft look of Old Country Stone.



While the colors shown here are represented as accurately as possible, they should only be used as a guide. Actual samples should be viewed before making a final color selection.

\*For best results, pavers should be installed from several pallets to ensure color consistency, especially with multi-color blends.



# Villa Stone with PermaFinish

The **Villa Stone Series** allows you to make bold design statements using sweeping curves, dramatic fans, full and half circles as well as a random cobble pattern. This paver will accent any landscape.



#### Type 1

Length: 97/16" (240mm) Width: 65/16" (160mm) 2.4 stones/ft<sup>2</sup> 26 stones/m<sup>2</sup>

Thickness: 2%" (60mm)



#### Type 2

Length: 65/16" (160mm) 65/16" (160mm) Width: 3.6 stones/ft<sup>2</sup>

39 stones/m<sup>2</sup> Thickness: 2\%" (60mm)



#### Type 3

Length: 65/16" (160mm) 4¾" (120mm) Width: 4.8 stones/ft<sup>2</sup> Area: 52 stones/m<sup>2</sup>

Thickness: 2¾" (60mm)

#### Circle Package



Three Quarter Stone Half Stone 45/8" x 61/4"

118mm x 158mm



3" x 61/4"



211/16" x 71/8" x 61/4"

78mm x 158mm 68mm x 182mm x 158mm 98mm x 132mm x 158mm 78mm x 158mm



### Large Circle Stone

**Center Stone** 31/8" x 53/16" x 61/4" 3" x 61/4"





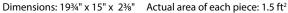




# FlagStone with PermaFinish

**FlagStone** consists of six identically shaped pavers, each with its own unique pattern, in six beautiful color blends that easily fit together to create an authentic look of natural flagstone at a fraction of the cost.







#### **High Performance Polymeric Joint Sand**

FlagStone is installed in the same way as our other pavers, however requires the application of High Performance Polymeric Joint Sand designed for use with wide joint formats.

(see page 29)

Ideal for decks, patios, sidewalks and pool surrounds

Moroccan Sunset Courtesy of Walter's Landscaping Services



#### Not recommended for vehicle applications

Flagstone requires the application of a High Performance Polymeric Joint Sand, which is designed specifically for products with wider joints. It is critical that you follow the manufacturer's application instructions to ensure a successful installation. Please consult your Abbotsford Concrete dealer for full details.

While the colors shown here are represented as accurately as possible, they should only be used as a guide. Actual samples should be viewed before making a final color selection.

\*For best results, pavers should be installed from several pallets to ensure color consistency, especially with multi-color blends.





Note: Due to this paver's unique profile, a special mat is required to be placed on the bottom of the compactor. Please contact your dealer for complete details



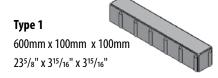


Our Piazza Series is a large format, linear paver designed for the contemporary urban landscape. From a simple patio or walkway to a Plaza, Grand Boulevard, Boardwalk, or Esplanade, an infinite array of patterns will allow you to create a focal point that will complement any landscape.

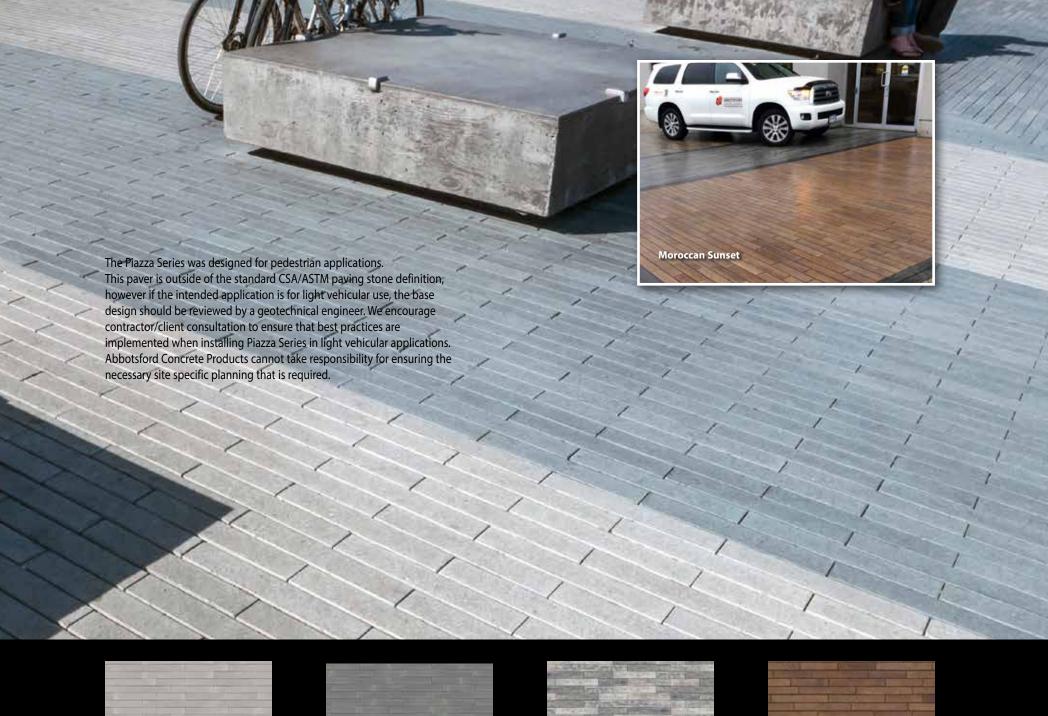


The Piazza Series can also be installed in conjunction with the 10cm Metropolitan Series and 10cm California (special order) to extend your pattern possibilities. Visit our website at www.pavingstones.com for more details.

note: Type 1 and Type 2 Piazza Pavers are combined together in equal quantities on the same pallet.



Type 2 400mm x 100mm x 100mm 15<sup>3</sup>/<sub>4</sub>" x 3<sup>15</sup>/<sub>16</sub>" x 3<sup>15</sup>/<sub>16</sub>"











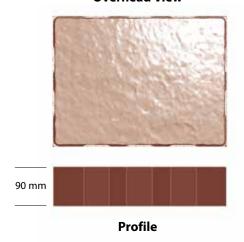
## VENETIAN COBBLE

Series

The Venetian Cobble Series is one of our most innovative accomplishments to date. Venetian Cobble has the aesthetic appearance of natural cut stone, enhancing the Large Format design motif, while softening the lineal appearance by combining five interrelated shapes.

The Venetian Cobble Series can be installed in typical sand set applications. However, due to our next generation unique spacer bar design, it can also be installed as an AquaPave System.

#### **Overhead View**





Can also be used with our AquaPave® Permeable On-Site Stormwater Source Control System

(see page 36-39)





**Type 1** 9" x 12"' x 3%6" 228mm x 304mm x 90mm



**Type 2**6" x 12" x 3%6"
152mm x 304mm x 90mm



**Type 3** 9" x 9" x 3%" 228mm x 228mm x 90mm



**Type 4**6" x 9" x 3%"
152mm x 228mm x 90mm



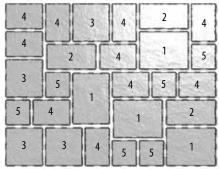
**Type 5**6" x 6" x 3%6"
152mm x 152mm x 90mm

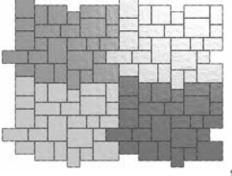


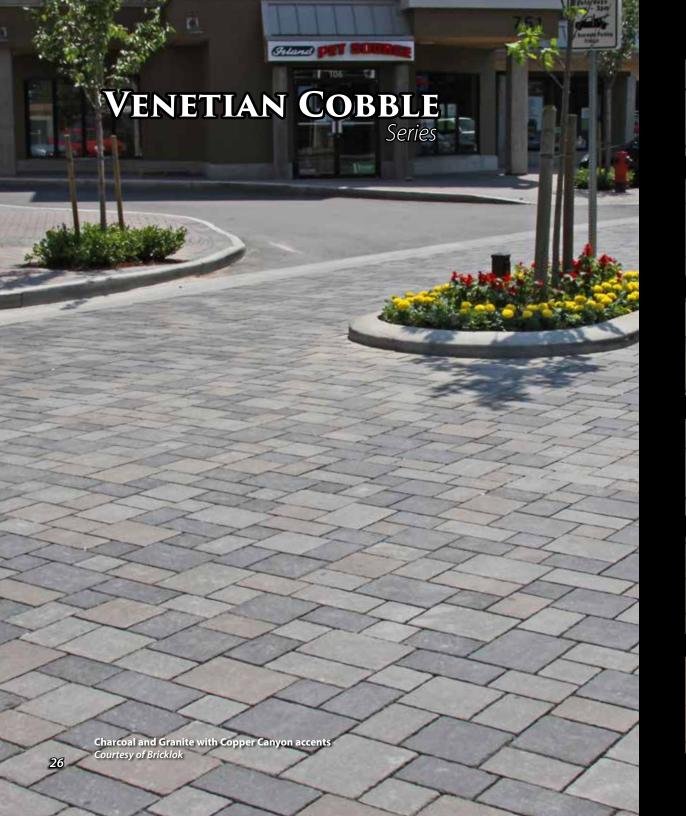
On a pallet each layer of the Venetian Cobble Series comes from the factory in this repeating random pattern, making this series also suitable for machine laying. Machine layable pavers increase efficiency and lower the labor cost.



Note: Due to this paver's unique profile, a special mat is required to be placed on the bottom of the compactor. Please contact your dealer for complete details.









**Moroccan Sunset** 

## Legend with PermaFinish

Landscaping in the new millennium blends informality with urban flair. To match this mood, Abbotsford Concrete designers have created Legend, which is a stylish stone that is quick and easy to install.

#### **Full Stone**



Length: 9" (230mm)
Width: 5½" (140mm)
Area: 3.5 stones/ft2
38 stones/m2

Thickness: 23/8" (60mm)

# W)

#### **Edge Stone**

Length: 9" (230mm)
Width: 4½" (115mm)
Area: 4 stones/ft2
43 stones/m2

Thickness: 2¾" (60mm)

Unsealed Se





Red\*





Red/Black\* Blend





Shadow\* Blend





**Indian Summer\*** Blend





**Desert Sand\*** Blend

While the colors shown here are represented as accurately as possible, they should only be used as a guide. Actual samples should be viewed before making a final color selection.

\*For best results, pavers should be installed from several pallets to ensure color consistency, especially with multi-color blends.

\*\*\* 'Sealed' pavers in this brochure have received an acrylic sealer, which is recommended to help with maintenance and to protect them against staining. Sealing is done post installation.



**Indian Summer** *Courtesy of Futura Stone* 

## Universal with PermaFinish

This eye-pleasing, interlocking paving stone is the ideal choice for high traffic areas. The unique jig-saw shape can be placed in a variety of patterns from an informal herringbone to a classic parquet design.



#### **Full Stone**

Length: 8%" (225mm)
Width: 4%" (112.5mm)
Area: 3.7 stones/ft²
40 stones/m²

Thickness: 23/8" (60mm)



#### **Full Edge**

Length: 8%" (225mm) Width: 4%6" (112.5mm) Area: 3.7 stones/ft²

 $\begin{array}{c} 40 \; stones/m^2 \\ Thickness: \;\; 2 \% '' \, (60 mm) \end{array}$ 



#### **Half Edge**

Length: 47/6" (112.5mm)
Width: 47/6" (112.5mm)
Area: 7.3 stones/ft²
80 stones/m²
Thickness: 23/8" (60mm)





Red unsealed



\* 'Sealed' pavers in this brochure have received an acrylic sealer, which is recommended to help with maintenance and to protect them against staining. Sealing is done post installation.

Red sealed\*



## **Paver Edge Restraints:** EdgePro One®, EdgePro Max® and B.E.A.S.T.™ are specifically designed to meet the requirements for both straight and radius installations.





A paver edge restraint system is a critical component for a successful installation.

Use EdgePro Max® to secure wall system installation

## **Interlocking Joint Sand:**

Joint sand is essential to the success of your paver installation, as joint sand precipitates the interlock component of a segmental paving system.

#### **Abbotsford Concrete's Interlocking Paver Joint Sand**

This dry joint sand is manufactured to the Interlocking Concrete Paver Institute's (ICPI) technical standards to ensure a successful paver or slab installation.

Size: 36 kg - 80 lbs coverage approx 100 ft<sup>2</sup>

**High Performance Polymeric Joint Sands** – *G2 Intelligent Polymeric Sand is the Cleanest, Fastest and Easiest polymeric sand installed in the industry.* 

Intelligent polymeric sand is made with a state of the art manufacturing process. Specifically calibrated sand is mixed with sophisticated intelligent polymers. This new generation of Intelligent Polymers neutralizes haze and dust. The intelligent polymeric sand application is now dust free and haze free. No blower is needed and the intelligent polymeric sand requires only one watering.

A high-performance Polymeric Joint Sand is designed for high-traffic, steeply sloped and continuously wet areas, ie fountain surrounds.

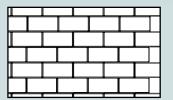
Size: 23 kg - 50 lbs coverage 40 - 90 ft<sup>2</sup> (depending on joint width)



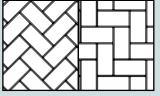


Special care is required when applying Polymeric Joint Sand; please be sure to read the detailed instructions on the bag carefully.

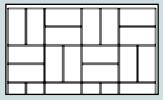
#### **Classic Standard Series / Pacific Slate Finish**



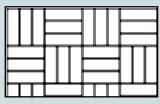
**Offset Runner Pattern** 



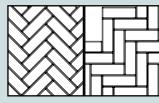
45° & 90° Herringbone



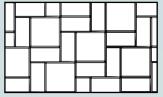
**Parquet** 



Parquet - 3:1

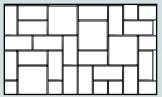


45° & 90° Herringbone - 3:1



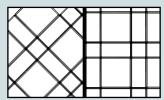
**Double Standard - Standard 1** 

Double Standard = 50% of total area Standard = 50% of total area



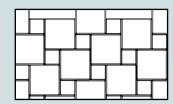
Double Standard - Standard 2

Double Standard = 27% of total area Standard = 73% of total area



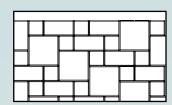
45° & 90° Lattice

Double Standard = 45% of total area Standard = 45% of total area Half Standard = 10% of total area



Pinwhee

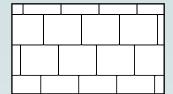
Double Standard = 80% of total area Half Standard = 20% of total area



**Ashlar Pattern** 

Double Standard = 50% of total area Standard = 25% of total area Half Standard = 25% of total area

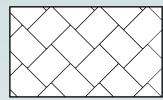
#### **Old Country Stone**



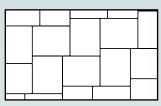
Type 1 - Offset Runner Bond



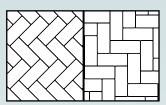
Type 2 - 45° Basket Weave



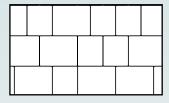
Type 1 - 45° Basket Weave



Type 1 - 90° Basket Weave

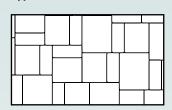


Type 3 - 45° & 90° Herringbone



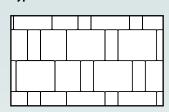
Type 1 & 2 - Offset Runner Bond

Type 1 comprises 60% of total area Type 2 comprises 40% of total area



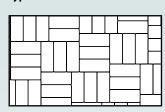
Type 1, 2 & 3 - Random Pattern

Type 1 comprises 50% of total area Type 2 comprises 34% of total area Type 3 comprises 16% of total area



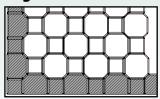
Type 1, 2 & 3 Offset Runner Bond

Type 1 comprises 50% of total area Type 2 comprises 34% of total area Type 3 comprises 16% of total area



Type 3 - Offset Parquet

#### Legend



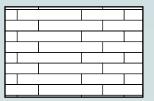
Legend Edge Detail

Full page pattern drawings are available on our website at www.pavingstones.com

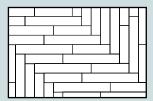
#### **Piazza Series**



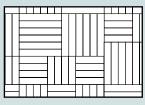
Type 1 & 2 - 45° Herringbone Type 1 comprises 60% of total area Type 2 comprises 40% of total area



**Type 1 & 2 - Offset Runner** Type 1 comprises 60% of total area Type 2 comprises 40% of total area

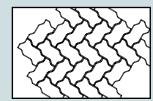


Type 1 & 2 - 90° Herringbone Type 1 comprises 60% of total area Type 2 comprises 40% of total area

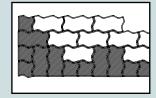


**Type 1 & 2 - Pinwheel Pattern** Type 1 comprises 60% of total area Type 2 comprises 40% of total area

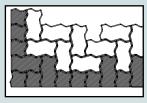
#### Universal



45° Herringbone



**Runner Bond Edge Detail** 

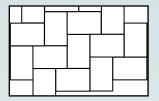


90° Herringbone Edge Detail

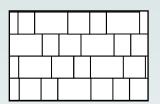


**Parquet Edge Detail** 

#### **Villa Stone**

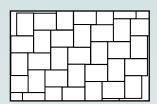


Type 1 - 90° Basket Weave

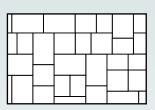


Type 1,2 & 3 - Runner Bond

The Villa Stone Offset Runner Bond and Random Cobble patterns use an equal number of Type 1, Type 2 and Type 3 pieces.



Type 3 - 90° Basket Weave

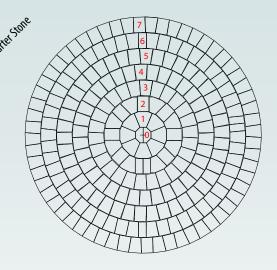


Type 1,2 & 3 - Random Cobble

Type 1 comprises 46% of total area. Type 2 comprises 31% of total area. Type 3 comprises 23% of total area.

#### **Villa Stone Circle Kit**

	Je Rom Circle	diam.cm	Diam.Inch	Stone	Circle State	Circle Stor	ione
Ü	is, Citys	Circle	, Cente	Sugl	, 13108	Haff	Jone Three
7	242	95			30		30
6	210	82			26	4	23
5	178	70			21		21
4	145	57			34		
3	113	45			26		
2	81	32		8		2	7
1	49	19		8			
0	16	6	2				



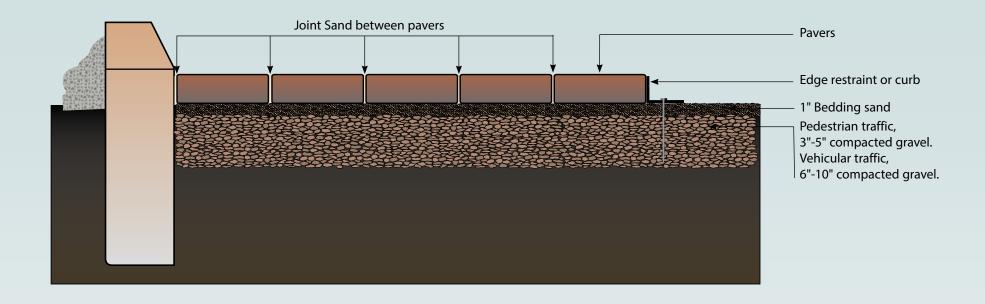
Full page pattern drawings are available on our website at www.pavingstones.com

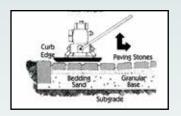
## **Guide to Paving Stone Installation**

#### **Preliminary Planning**

Initial planning and preparation are key factors that will ensure a successful and lasting paving stone installation. Proper planning guarantees fine quality work and makes everyone's task easier.

Sketch a detailed diagram of the area to be paved, including all measurements required to calculate the amount of materials needed. The area being paved must contain some form of edge restraint.





Certain equipment is required to complete this work adequately. You will need a pair of safety glasses, a rake, shovel, tape measure, coarse bristle broom, masonry string line, line level, mechanical plate tamper, and some form of stone cutting equipment. Your Abbotsford Concrete dealer can assist you in obtaining the necessary materials and equipment needed to complete your paving stone installation.

When choosing an installer for your project, it is advised that you choose an ICPI (Interlocking Concrete Pavement Institute) Accredited Installer.

See our list of Accredited Installers at www.pavingstones.com

Before you dig, call the following companies to ensure your safety: **Power, Telephone, Gas and Cable TV.**These organizations will provide you with the location of underground services.

- 1. Remove old pavement and/ or existing soil, then excavate to the proper depth depending on the type of traffic.
- 2. Spread gravel (also referred to as 3/4" minus crushed rock or equivalent), uniformly throughout the excavated area. Using the mechanical tamper, compact the entire area evenly. A sprinkling of water, prior to compaction, will increase the density of the base material and control dust. Do not compact the base material in layers of more than 2 inches.

NOTE: Prior to base preparation, water run-off and grade detail should be considered.

3. The compacted base must be uniform and conform to the contour of the finished job. The elevation of the compacted base should be uniform 3-1/4" to 3-3/4" below the finished paving stone surface.

NOTE: The base should extend 12" beyond the finished edge of the pavers in order to provide a proper base to support and anchor your edge restraint.

4. Following the completed base preparation, edge restraints are installed to prevent lateral movement of interlocking paving stones and to enhance the aesthetic appearance of your installation.

Edge restraints may be set in a manner to sit flush with, or slightly below your completed paving stone surface. Granular material is used as backfill on the outer edge of the restraint which meets sod or softer material.

NOTE: Care should be taken in determining the width of the area being paved in order to minimize the cutting of pavers, and optimize the use of edge pieces.









- Spread 1" of coarse sand evenly over the compacted base to establish a bedding for placement of concrete pavers.
- 6. Screeding must be done to ensure that an even bedding surface is established. A screed board (i.e. 2" x 4") is used to smooth the bedding layer to the shape of the completed surface. For distances greater than 12 feet, use a screed guide to level the bedding layer. Avoid walking on the screeded surface.
- 7. Commence placing pavers on the screeded bed in the pattern you wish to use. It is important that the pavers being installed are taken from several pallets to ensure a proper color dispersion. Start installation of pavers at the edge and in a corner if possible. This will maximize the use of edge stones and minimize the amount of cutting.
- 8. Hand place the stones close together. Spaces between individual units should be consistent with an allowable maximum of 1/8". With the installer standing on the laid paving stones, the next row is placed. The occasional use of masonry string will ensure that your installation pattern will continue to run true throughout the project. To verify accuracy, the string should run along the front row of pavers. A screwdriver is used to move the pavers into proper alignment.
- 9. Any paving stone cutting should be done upon completion of laying your paving stone pattern. Using a stone cutter or masonry saw, stone should be cut to fill the spaces. If cut pavers leave small gaps, these can be filled with jointing sand. When cutting pavers with a wet saw, please take care not to cut on top of other pavers as you will generate a slurry mix. This slurry mix, if allowed to dry, will leave a permanent cement residue on your pavers.









- 10. Once all pavers have been placed, sweep the entire paving stone surface clean in preparation for tamping. Sweeping also aids in the removal of any foreign deposits that are on the pavers.
- 11. Using a mechanical plate tamper, begin tamping from the outside edge, moving inward. Tamp the entire paving surface in both directions until the surface is bedded down uniformly.
- 12. Broadcast jointing sand over entire paving stone surface, sweeping the sand to ensure that all joints are completely filled.
- 13. Leave excess jointing sand on the paving stone surface, tamp the finished area a second time and continue sweeping jointing sand and compacting until all joints are completely filled.
- 14. A paving stone sealer is recommended to enhance, protect and maintain the natural beauty of the paving stones. Sealing can take place immediately after installation or any time in the future, provided that certain quidelines are followed.











For best results use Abbotsford Concrete's Interlocking Paver Joint Sand or High Performance Polymeric Joint Sand, available from your local dealer. (see page 29)



**GrassGrid** provides designers and developers with a grassed alternative to concrete and asphalt surfaces that is practical, aesthetically pleasing and environmentally friendly.

#### What is GrassGrid?

**GrassGrid** is a lightweight plastic structure manufactured from 100% recycled plastics designed to stabilize and support turf, grass or decorative gravel. GrassGrid is used in the landscape, construction and environmental remediation industries. Positioned under the grass surface, GrassGrid distributes loads from pedestrian and vehicular traffic to the base course below, minimizing grass and root compaction. The interconnected cells allow roots to develop with minimal restriction, resulting in a durable and stable grass surface.

GrassGrid provides you with a grassed alternative to concrete and asphalt surfaces that is practical, aesthetically pleasing and environmentally friendly.



### **Applications:**

- Emergency and firelane access
- Vehicle overflow parking lots for commercial developments, homes, sports complexes, festival grounds, churches and more
- Golf cart paths
- Racetrack infield and pit areas
- Drainage channels
- Slope stabilization and erosion control
- Street shoulder parking



#### **Advantages:**

- Doesn't lead to 'Brown Out' due to heat absorption associated with similar products made from concrete
- Reduces erosion and soil migration
- Permeable alternative to asphalt and concrete surfaces
- Reduces Urban Heat Island Effect
- Conforms to undulating surfaces
- Snap-on connectors ensure modules remain in place
- Enhances site appearance through restoration of vegetation
- Rapid installation with minimal installer training
- Stacking ability reduces storage and transport costs
- Made from 100% recycled materials
- Supports Green Building LEED®

### **Sizes and Specifications:**

• Unit Size: 19 5/8"(500mm) x 19 5/8"(500mm) x 19/16"(40mm)

• Weight: 9 lbs/yd<sup>2</sup> (4.7 kg/m<sup>2</sup>)

• Material: Recycled Polypropylene

• Compressive Strength: Core Filled 2,000 t/m<sup>2</sup>

 Biological/Chemical Resistance: Unaffected by molds and algae & good resistance to alkalis and bitumen

• Service Temperature: -22° F to 120° F (-30° C to 48° C)

GrassGrid has been tested in accordance with ASTM D695-08 to withstand compressive strength exceeding 2000 t/m² (2,844 psi) and exceeds typical load requirements of vehicles, namely:

Passenger vehicle up to 28 t/m² (40 psi)

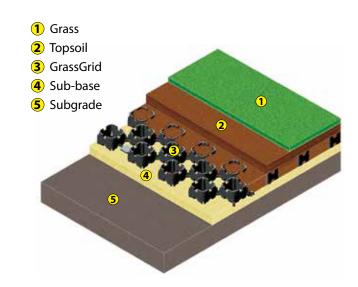
Light duty van up to 42 t/m² (60 psi)

Fire engine / up to  $77 \text{ t/m}^2 (110 \text{ psi})$ 

Container truck

SCDF CP 2002 80 t/m<sup>2</sup> (113 psi)



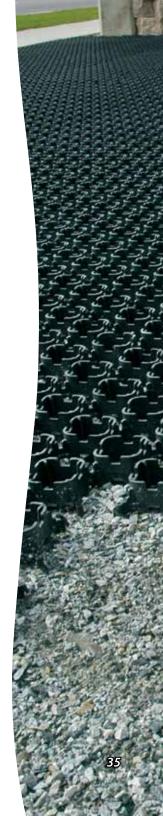


#### **Installation Procedures:**

GrassGrid is easily assembled requiring no special tools. The product conforms to odd shapes or profiles, and excess cells may be trimmed with pruning shears.

- Prior to installation, calculate the area where GrassGrid is to be installed
- · Excavate and/or level the area
- Install drainage systems, irrigation systems, and utility lines in the subgrade, as needed
- Lay and compact a road base or washed paving sand to provide support for projected weight-bearing loads
- Position GrassGrid cells on the compacted base
- Cover the GrassGrid cells with a recommended sand soil mix for turf establishment
- Apply recommended moisture, water retention agents and fertilizers
- Place seed, turf or hydro-seed onto the filled GrassGrid cells
- Implement regular maintenance schedules

Note: Installation may vary with different geographical locations. GrassGrid effectively stabilizes decorative gravel.

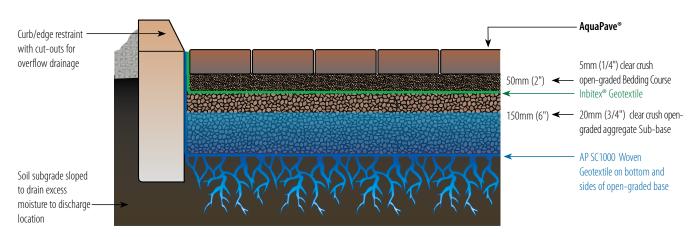




The AquaPave® Permeable On-Site Stormwater Source Control System is an important first effort to reduce excess stormwater runoff quantities and improve water quality.

The AquaPave® system allows commonly recurring rainstorms to infiltrate through a permeable concrete pavingstone surface into a clear crushed open-graded aggregate base before being released into storm sewers or watercourses. Known as permeable interlocking concrete pavement, the system acts as an infiltration facility for the storage, treatment, and improvement of released water.

If the soil subgrade and underlying geology are suitable, some or all of the water can infiltrate directly into the subgrade, thereby substantially reducing outflow rates. Alternately, the surface water can be temporarily stored in the sub-base before being slowly released into the receiving water system. The AquaPave® system helps to clean and improve the quality of runoff water by filtration through the base and microbial action. In many instances, with the use of a tanked system, the outflow can be harvested and re-used for irrigation of domestic and commercial landscapes.



# **Typical Residential Driveway/Sidewalk Construction**

- Lower Construction & Lifecycle Costs
- Eliminates Surface Runoff
- Recharging the Groundwater Table
- Filtering and Treatment of Pollutants
- Pedestrian and Disability Friendly
- LEED® Green Building Rating System
- Roof Water Management
- Slip and Skid Resistance
- Geothermal Systems

The **AquaPave**® Permeable On-Site Stormwater Source Control System must be installed by an **AquaPave**® Approved installer in order to ensure the efficacy of the system.

Visit www.pavingstones.com/aquapave for more information about AquaPave® and a complete list of approved installers.







Brown \*





Taupe \* *Blend* 







\*For best results, pavers should be installed from several pallets to ensure color consistency, especially with multi-color blends.





# Choose the best Elephant Armor™ formulation for your project:

- Ultra High Performance Mortar
- DOT Industrial Grade Mortar
- Ultra High Performance Asphalt Patch

Designed for easy and permanent patches and overlays. Elephant Armor™ is so revolutionary it makes all other cement-based mortars obsolete.



**Easy to Use, Just Add Water** 

# The World's Most Amazing Cementitious Patch and Overlay Product!

Ideal for patch and repair use on concrete or asphalt walkways and driveways, curbs, ramps, slabs, spalls, cracks, bridges, parking structures, tunnels, dams, industrial plants, anywhere a high strength concrete repair mortar is called for.

Repair your concrete sidewalk and stairs with an Elephant Armor™ overlay without deconstruction







Apply Elephant Armor<sup> $\dagger$ </sup> overlay as thin as 1/4" over existing concrete.



Elephant Armor™ can be stamped or textured with texture roller.



Finished job stained and sealed.

# Concrete curb repair



Damaged curb.



Repaired without deconstruction or forming.



Unpresidented performance after months of continuous traffic abuse.

# Elephant Armor™ can be colored and textured









*Create counter tops or table tops for outdoor living areas.* 



A low slump high fiber based mortar that can be rolled, troweled, shaped or molded to as thin as a 1/4".

# **Easy to Use, Just Add Water**



# Specially engineered as a patch or overlay product that offers tremendous flexural and tensile performance as thin as 1/4".

**Elephant Armor™** is a single component, cementitious, high fiber based, medium to fast setting patch and overlay repair mortar that can be placed with a trowel or textured roller. This ultra-high performance mortar can be used for repair work, maintenance, or new construction.

It offers high early strength and superior bond strength. It is shrinkage compensated, so only very minimal shrinkage may occur. This repair mortar is able to maintain a strong resistance to de-icing salts, freezing and thawing, and abrasion.



Concrete surface was spalling.



The area was resurfaced with Elephant Armor™ without deconstructing the failed surface.





Elephant Armor™ being line-pumped into roadway micro-trench for fiber optic cable installation, using a volumetric mixer.



# **Features:**

- High fiber based: Superior flexural and tensile strength as thin as 1/4"
- High ductility, allowing the overlay or patch to 'FLEX' without failure
- Superior tensile strain capacity of other cement-based products
- 10 times the bond strength of other fibers for superior crack resistance
- Prevents the propagation of existing cracks through the surface
- Resists de-icing salts, freeze/thaw
- High abrasion resistance
- Highly impermeable

Fiber reinforced for high ductility and shear strength, **Elephant Armor™**'FLEXES' without failure, making repairs permanent!

# A Wine Cave with Elephant Armor™



*Elephant Armor™ was sprayed, trowelled and rolled to the desired finish.* 



A single step installation process that provides a structural and architectural finish, greatly reducing construction costs.

# **City of San Fransisco Sidewalk Repair**



Failed concrete on city sidewalk.



Surface was primed and Elephant Armor™ was rolled on for a permanent repair without deconstruction.

# **Full Depth Asphalt Patch**



A typical full depth asphalt failure.



The aggregate base must be compacted and a fixed bidirectional geogrid properly installed.



The Elephant Armor™ Asphalt Patch can be either hand trowelled, light or heavy broomed or finished with a texture/pattern roller .

# Sea Wall Repair for National Park Service, San Francisco, CA



Unsound concrete removed and corrosion inhibitor applied to exposed rebar.



Elephant Armor™ Primer applied to damaged surface.



Ready for Elephant Armor™ placement.



Elephant Armor™ was quickly and permanently applied without forming.

# **Highway Repair**



Pot hole in concrete highway.



 $\textit{Mixing/laying equipment can be used to lay Elephant Armor}^{\text{TM}}.$ 



Place and finish Elephant Armor™ like any concrete.

**Marine Infrastructure Repair** 



Repair should last a lifetime.

# **CalTrans Bridge Repair**



Ideal product for vertical and overhead patching.



Repaired quickly without the need of costly forming.



Damaged concrete surface on dock.



Repaired without costly deconstruction or forming.



For Best
Results Use
Elephant
Armor™
Tools and
Accessories

Ask your dealer for information



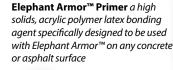
9" (230mm) and 18" (450mm) Smooth Roller



9" (230mm), 9.5" (240mm) and 18" (450mm) Textured Roller



Elephant Armor™ Cure provides an effective curing membrane that will dry to a clear (nonyellowing) membrane.







Expandable Aluminum Roller Frame (rollers not included)



Showing Expandable Roller Frame at 9" to 18" with 1/4" and 1/2" depth gauges (sold separately)



Elephant Armor®
Overlay Primer is a ready to use,
rewettable polyvinyl acetate bonding
agent, which bonds Elephant Armor®
mortars to properly prepared concrete,
and between Elephant Armor lifts. It
can also be used to bond to wood and
EPS foam.



Elephant Armor™ Delay to increase working time. (comes with measuring scoop)



Aluminum Roller with 1/4", 1/2" and 3/4" Depth Gauges (sold separately)



1/4" and 1/2" Roller Depth Gauges for 9", 9.5" and 18" rollers



GST 2 Gallon
Pump-up Sprayer
for application of
Elephant Armor™ Cure and
Primer



**GST Sprayer Tips** for GST 2 gallon pump-up sprayer

# THE TRUTH ABOUT SEALING CONCRETE PAVERS/WALLS

**SHOULD I SEAL MY PAVERS AND RETAINING WALLS?** – Absolutely! All concrete is absorbent, and although Abbotsford Concrete Pavers are manufactured to be less than 5% absorbent, they are still subject to staining from biologicals (leaves etc.), car oil and other petroleum products, food, and beverages. You've made a considerable investment in your hardscape project, why would you not protect this investment like other parts of your home?

**WHEN SHOULD I SEAL MY PAVERS AND WALLS?** – Immediately! Abbotsford Concrete Pavers and Walls can be sealed with good quality sealers in as little as 28 days after manufacturing. If you are informed otherwise, please ask them to contact us immediately for clarification. When you or your contractor receive our products, they are usually well past this date, but just to confirm, there is a Product Specification Label on every pallet produced and the date of manufacturing is stamped on it.

**SHOULD I USE AN EFFLORESCENCE CLEANER?** – Only if efflorescence is present. Efflorescence is inherent in all concrete products, however, cleaning and sealing immediately after installation, will help prevent further efflorescence from occuring.

Before you seal you should clean your project to remove any construction or post construction dirt and grime. Any good quality concrete sealer manufacturer will have a cleaner specifically designed for this purpose. Please consult your Abbotsford Concrete Dealer Representative where you purchased your product for assistance.

**WILL SEALING CHANGE THE APPEARANCE OF MY PAVERS AND WALLS?** – Yes and no, there are sealers that are made to enhance and deepen colors as well as protect, however there are also sealers that are designed to be invisible and still provide the desired protection.

Good quality sealer manufacturers will have a wide selection of finishes and sheens to meet any preference. Your Abbotsford Concrete Dealer Representative will be able to assist you with selecting the right sealer for your project.









# **HydraPressed Slabs**

Abbotsford Concrete Products' HydraPressed Slabs are ideal for applications that require durability and strength with the look of elegance.

HydraPressed Slabs come in three finishes: Texada, Saturna and Sandstone.

#### **Standard Sizes:**

610mm x 610mm x 50mm (24" x 24" x 2") 457mm x 457mm x 40mm (18" x 18" x 15/8") 610mm x 305mm x 50mm (24" x 12" x 2")

#### **Cut-To-Size:**

457mm x 229mm x 40mm (18" x 9" x 15/8") 305mm x 305mm x 50mm (12" x 12" x 2") 229mm x 229mm x 40mm (9" x 9" x 15/8")



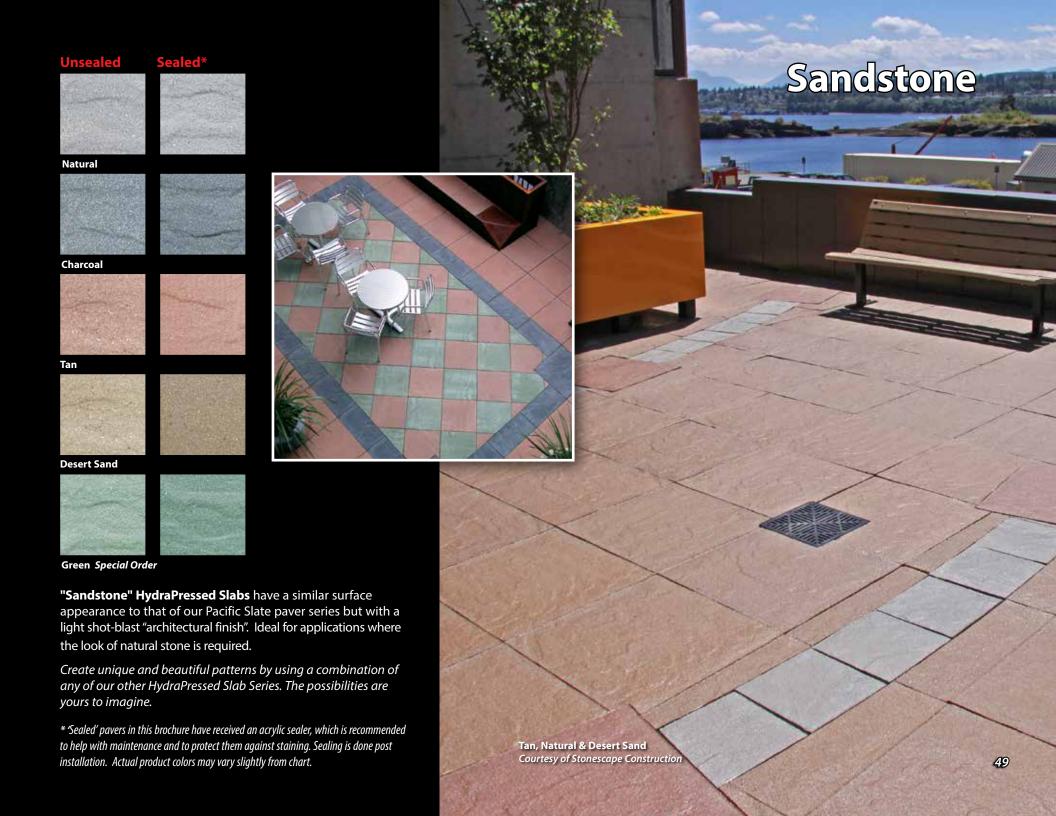
Abbotsford Concrete's HydraPressed Slabs are made to precision sizes with true edges that fit together tightly. Top edges are chamfered for a neat appearance.

HydraPressed Slabs are hydraulically pressed using an advanced method of producing concrete paving that requires 400 tons of hydraulic pressure, resulting in a cured slab with incredible strength and durability.











# The Cortez Series HydraPressed Slabs with our exclusive *PermaFinish*, two layer, unified manufacturing process now allows us to offer a beautiful choice of color blends.

Unleash your creativity on your next project using a variety of colors, shapes and sizes to define your unique style.

#### **Standard Sizes:**

610mm x 610mm x 50mm (24" x 24" x 2") 457mm x 610mm x 50mm (18" x 24" x 2") 305mm x 610mm x 50mm (12" x 24" x 2") 457mm x 457mm x 50mm (18" x 18" x 2") 305mm x 457mm x 50mm (12" x 18" x 2")



Natural



Granite



Charcoal



Sandalwood



Moroccan Sunset

The Cortez Series
HydraPressed Slabs can be
installed with our New York
Stone to provide an even
greater range of design
possibilities.

The New York Stone Series
HydraPressed Slabs with our
exclusive PermaFinish, two layer,
unified manufacturing process is
a reinvention of our popular York
Stone series.

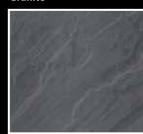
This series with its natural stonelike appearance offers unlimited possibilities with a choice of beautiful color blends in a variety of shapes and sizes.



610mm x 610mm x 50mm (24" x 24" x 2") 457mm x 610mm x 50mm (18" x 24" x 2") 305mm x 610mm x 50mm (12" x 24" x 2") 457mm x 457mm x 50mm (18" x 18" x 2") 305mm x 457mm x 50mm (12" x 18" x 2")



Granite



Charcoal



Sandalwood



**Moroccan Sunset** 

Mix the New York Stone Series HydraPressed Slabs with our Cortez Series for an even greater range of design possibilities.



# Aristokrat® Series

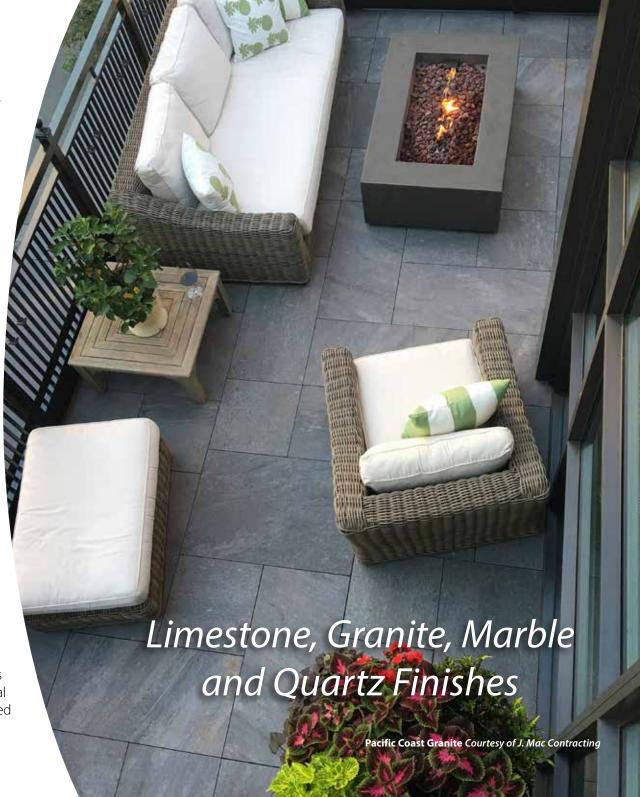
# **2cm HydraPressed Porcelain Slabs**

The Aristokrat® Series 2cm HydraPressed Porcelain Slab is manufactured with our patent pending integral mix design, ensuring you the finest quality 2cm HydraPressed Porcelain Slabs on the market.

Traditionally porcelain has been used for extensive indoor applications but now with our advanced manufacturing technology, porcelain slabs can be used for a wide variety of outdoor hardscape applications.



The Aristokrat® Series Porcelain Slabs are perfect for terraces, roof decks, patios, court yards, swimming pools, water features or any traditional hardscape areas. Porcelain slabs deliver performance, style, versatility and are resistant to staining, fading, marking, chemicals and extreme weather. It is the ideal choice for residential or commercial outdoor applications but can also be used indoors for aesthetic continuity.









This unique product, with next generation technology, can be used for exterior architectural cladding as an alternative to conventional masonry products, providing a low maintenance high quality elegant finish.

The exceptional technical features of Aristokrat® Series HydraPressed Slabs are not affected by the passing of time and can be installed by using one of the four following methods: Adjustable BlackJack® Pedestals, Gator Base System, Aggregate Set or Traditional Mortar set.

Aristokrat® Series Porcelain Slabs are fully rectified for squareness and are dimensionally consistent reducing installation time and cost.

The Aristokrat® Series is extremely versatile: it is thinner and lighter (only 9lbs/ft²) than concrete and natural stone slabs, while providing superior flexural and load-bearing capacity.

Aristokrat® Series Porcelain Slabs are very low maintenance, durable and stain resistant. All slabs come with our proven 'Anti-Slip' surface and are available in over 20 rich color blends with subtle variations and textures that emulate natural Limestone, Granite, Travertine, Marble and Quartz. There are six modular sizes allowing a wide variety of layout combinations for complete design freedom.





# **Standard Sizes:**

23 5/8" x 47 1/4" x 3/4" (60cm x 120cm x 2cm) 23 5/8" x 35 1/2" x 3/4" (60cm x 90cm x 2cm) 23 5/8" x 23 5/8" x 3/4" (60cm x 60cm x 2cm) 17 3/4" x 35 1/2" x 3/4" (45cm x 90cm x 2cm) 17 3/4" x 17 3/4" x 3/4" (45cm x 45cm x 2cm)

# **Wood Plank Size:**

 $8^{3/4}$ " x  $35^{1/2}$ " x 3/4" (22.5cm x 90cm x 2cm)

All sizes are nominal.



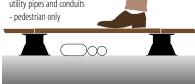
Bull-nosed Coping and Bull-nosed Stair Treads are available in all colors. 11 3/4" x 23 5/8" x 3/4"

(30cm x 60cm x 2cm)

## **Installation Methods**

## **Set on Pedestals**

over sloped surfaces and utility pipes and conduits



#### **Mortar Set**

concrete base with thin-set mortar or construction adhesive - pedestrian and vehicular traffic



# **Gator Base System**

on aggregate base

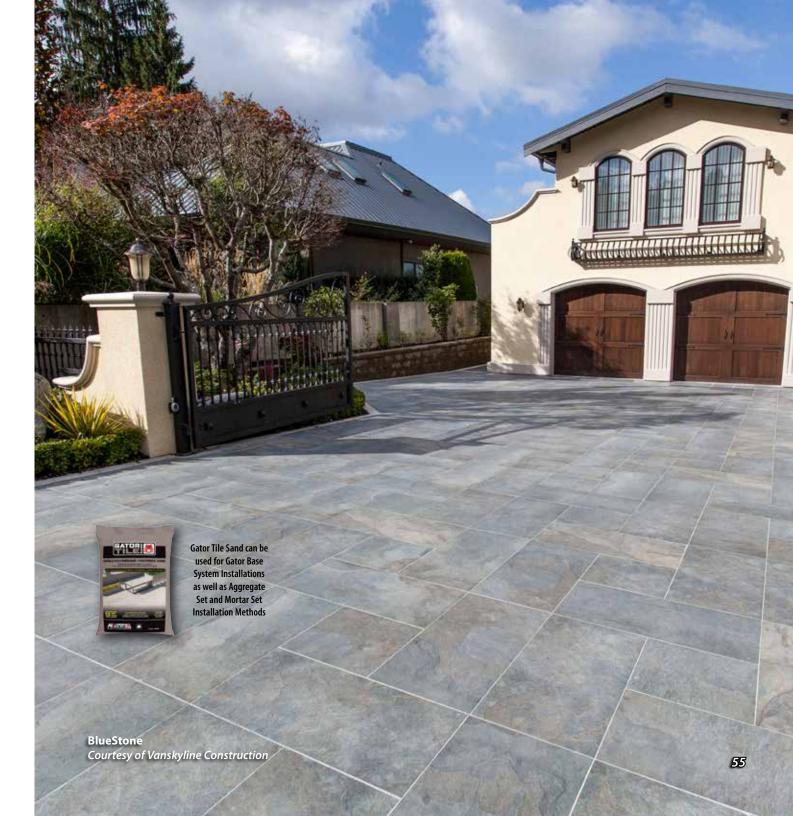
- pedestrian only
- for residential projects





When choosing an installer for your project, it is advised that you choose an ICPI (Interlocking Concrete Pavement Institute) Accredited Installer.

See our list of Accredited Installers at www.pavingstones.com



# Pedestal Set with BlackJack® Pedestal System

Aristokrat® Series Porcelain Slabs should be installed using the BlackJack® Pedestal System.

The BlackJack® Pedestal System is available in heights ranging from 4 mm (3/16) to 1016 mm (40"), although we recommend a maximum height of 150 mm (6") be used with the Aristokrat® Series Porcelain Slabs to provide maximum stability and safety.

The OneStep Pedestal is the easiest pedestal to install and it adjusts in 1 mm increments, can be split into halves and quarters and is made from 100% recycled plastic. It has a height range of between 24 mm and 45 mm (15/16" and 13/4") that may be increased using BJ 20E and/or BJ 40E extenders.

The BlackJack® Pedestals can be used with any pattern, as the spacer tabs are simple to remove.

The BlackJack® Pedestals must be installed over a firm base such as concrete, reinforced wood deck or minimum 60 PSI rigid insulation with protection board to spread the load.

The Aristokrat® Series Porcelain Slabs **MUST** be installed tight to the pedestals and edge restraints, allowing for no movement. When installing square or large rectangle slabs, the maximum distance between pedestals shall be 600 mm (24") in any direction. Aristokrat® Series Porcelain Plank Slabs should not exceed more than a 457 mm (18") spacing.

WITH 20MM EXTENDER

**ONESTEP PEDESTAL** 

If heavier static or dynamic loads are expected, then additional pedestals can be used (typically in the middle).

Spacers or pedestals must be used on all sides to prevent chipping and allow for proper drainage.

The Aristokrat® Series Porcelain Slabs may be shimmed in the corners to compensate for uneven laying surfaces; the shims used must not be compressible material such as rubber or roofing shingles but should be firm plastic shims.

The final Aristokrat® Series Porcelain Slab elevation can be perfectly flat, as it allows any surface water to travel through the 3 mm (1/8") pedestal joints to the drains below.

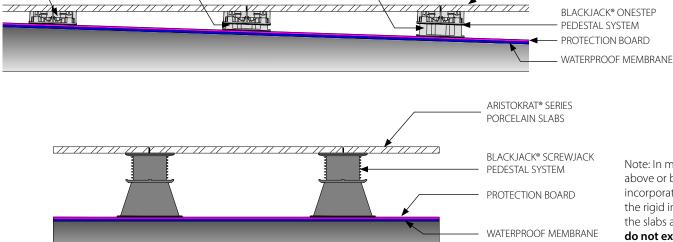
It should be noted that due to the nature of porcelain, a small amount of water will remain on the surface of the slab. This is caused by the surface tension of the slab, just as you would experience with a glass table top. This water will evaporate over time or can be swept into the 3 mm (1/8") gap between the Aristokrat® Series Porcelain Slabs.

This installation method is suitable for pedestrian use only; no vehicles of any kind should be allowed to be used over a pedestal installation.

# See page 66 for more information about the BlackJack® Pedestal System

ARISTOKRAT® SERIES

PORCELAIN SLABS



WITH 40MM EXTENDER

Note: In most built up roof details, rigid insulation is used above or below the protection board. Any application that incorporates rigid insulation in a pedestal support system, the rigid insulation must be a minimum of 60 psi to support the slabs and usage payload. We recommend that you do not exceed a height of 6 inches without the use of additional pedestal support in the centers of the Aristokrat® Series Porcelain Slabs.

# **Mortar Set – For Garage and Driveway Applications**

Aristokrat® Series Porcelain Slabs can be laid with a thinset mortar set over concrete or for interior applications, over wood suitable for tile laying.

The concrete base must be reinforced so as to not crack or settle over time. The concrete surface must contain a minimum 2 degree slope away from the building and toward drains.

The anti-fracture membrane prevents any movement in the concrete base to be transferred directly to the Aristokrat® Series Porcelain Slabs.

All Aristokrat® Series Porcelain Slabs have an embossed backing texture to maximize adhesion to the thinset mortar. Some heavier applications require applying thinset to back of slab.

Install using a thinset mortar and grout that is designed for exterior applications. Typically this will be a synthetic or polymer modified exterior tile setting adhesive. Follow the manufacturer's recommendations for installation and proper application.

The finished surface must be sloped to provide water flow to the drains.

The Aristokrat® Series Porcelain Slabs must be cut and jointed over concrete control joints to avoid cracks propagating through the surface of the Aristokrat® Series Porcelain Slabs.

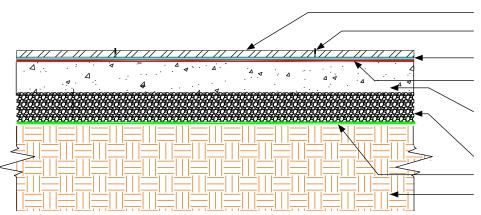
Mortar set Aristokrat® Series Porcelain Slabs are suitable for light passenger vehicles use only, heavy vehicles may crack the structural concrete slab leading to a damaged finished surface.

For interior applications install cement board on a solid and sound sub-floor.

# Typical detail:

- 1. Plywood subfloor ½"- ¾"
- 2. Latex/modified thinset primer
- 3. ½ " cement board
- 4. Fiberglass tape joints
- 5. Exterior synthetic polymer modified tile adhesive
- 6. Aristokrat® Series Porcelain Slabs
- 7. Grout (exterior grade)
- 8. Seal grouted joints

3MM TILE SPACER



\*NOTE: Anti-fracture / waterproofing membrane will be installed over control joints and areas subject to stress. This will mitigate propagation of cracks going to the surface of the Aristokrat® Series Porcelain Slabs.

ARISTOKRAT® SERIES PORCELAIN SLABS

EXTERIOR SYNTHETIC POLYMER MODIFIED TILE ADHESIVE

ANTI-FRACTURE MEMBRANE AS REQUIRED\* (see note)

4" CONCRETE WITH WIRE MESH REINFORCEMENT OR REBAR CONSTRUCTED TO ACI & PCA STANDARDS

4" (typical) of No. 57 STONE

WOVEN GEOTEXTILE (flowable)

COMPACTED SUBGRADE





# **Gator Base System – Ideal for Residential and Commercial Projects**

The Gator Base System by Alliance was developed to solve several site challenges at once.

The system involves a compacted subbase, laying a geo-fabric, a layer of free draining 1/4"- 3/8" aggregate (No. 8 stone) for leveling, a layer of Gator Base, BlackJack® BJ-4mm spacers, the Aristokrat® Series Porcelain Slabs and Gator Base Edge to contain the installation.

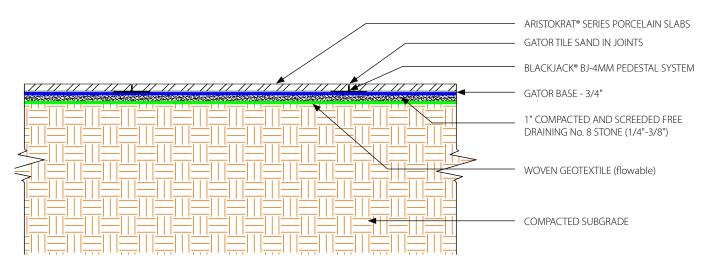
# The advantages of the Gator Base System:

- reduced excavation,
- · better drainage,
- better freeze/thaw protection,
- better load transfer,
- solid edge retention

The Gator Base System is very helpful in laying Aristokrat® Series Porcelain Plank Slabs due to its pre-leveled design.

Full installation videos are available at: **www.AllianceGator.com.** This system is suitable for foot traffic only.





NOTE: If the compacted subgrade has a high clay content, 3/4" minus road base may be required.

# **Aggregate Set – For Permeable and Impermeable Applications**

## There are two types of aggregate lay installation:

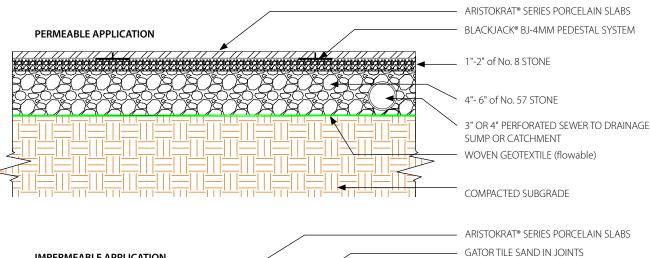
**Permeable**, where the water drains between the Aristokrat® Series Porcelain Slabs to a permeable layer below. The best material to be used for a bedding layer is 1"-2" of No. 8 (¼" - 3/8") clear crush fractured aggregate. The base material will consist of 4"- 6" No. 57 (¾") clear crush fractured aggregate. This allows all water to infiltrate to the subbase preventing frost heaves or water problems.

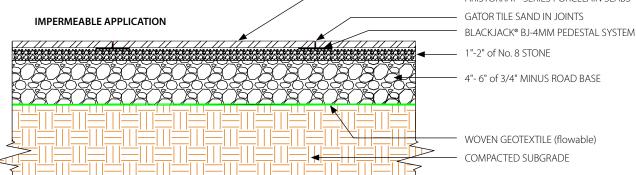
Both the subbase and bedding layers should be compacted providing a very solid free draining system. To minimize future migration of the No. 8 stone into the No. 57 stone, a light compaction is necessary to eliminate settlement. The use of geotextiles will enhance base performance based on pre-existing poor soil conditions.

**Impermeable**, where the installation uses grout or Gator Polymeric Tile Sand to seal the joints and surface water flows to drains. This polymeric sand is swept into the joints, moistened and dries to a firm grouted joint. This sand has been developed to bond to the sides of Aristokrat® Series Porcelain Slabs and provide years of solid performance.

Over the bedding layer, the BlackJack® BJ-4mm Pedestal System is used at the corners of the Aristokrat® Series Porcelain Slabs to provide spacing and stability. The spacing of the pedestals should never exceed 18 to 24 inches in any direction depending on the dimension of the Aristokrat® Series Porcelain Slab. The Aristokrat® Series Porcelain Slab in the plank configuration should have a pedestal every 12 to 18 inches, depending on the installation method chosen.

The installation must be retained on all sides with an edge restraint such as concrete, plastic or metal.



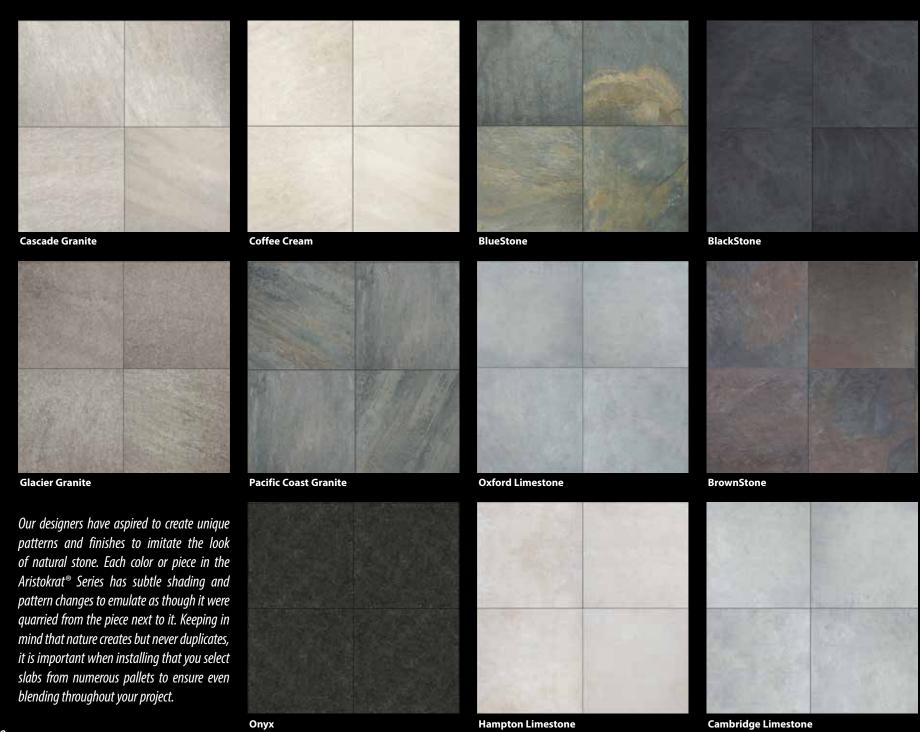


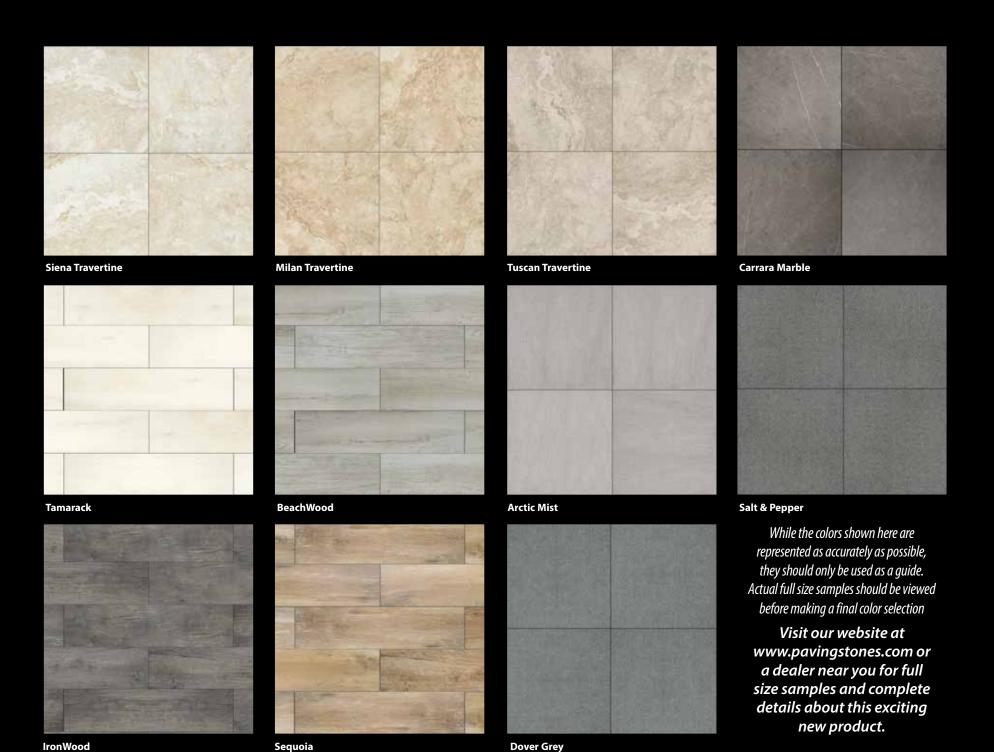


Base cross section detail using Aristokrat® Series Carrara Marble over BlackJack® BJ-4mm Pedestals

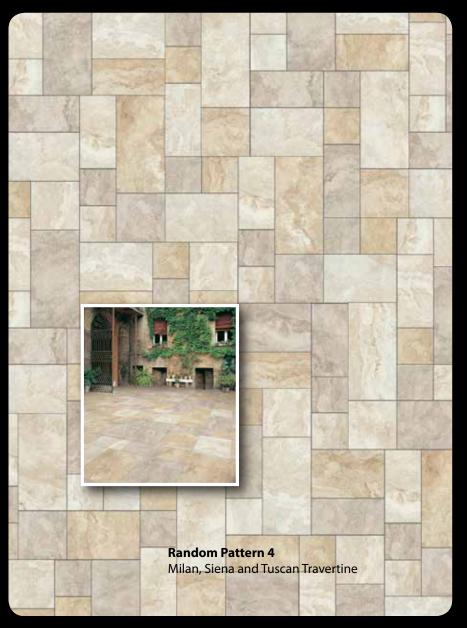


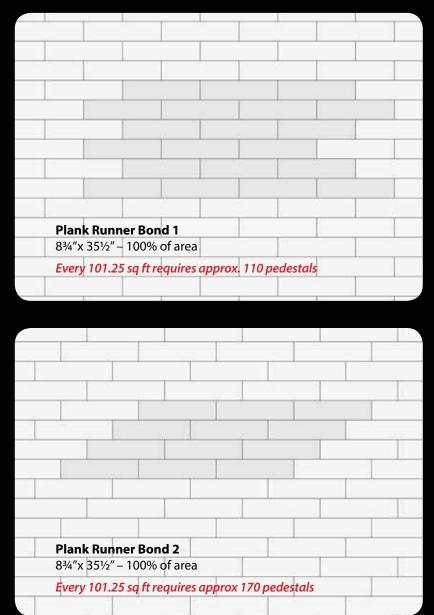
Aristokrat® Series Porcelain Slabs in Carrara Marble courtesy of Landscape 2000

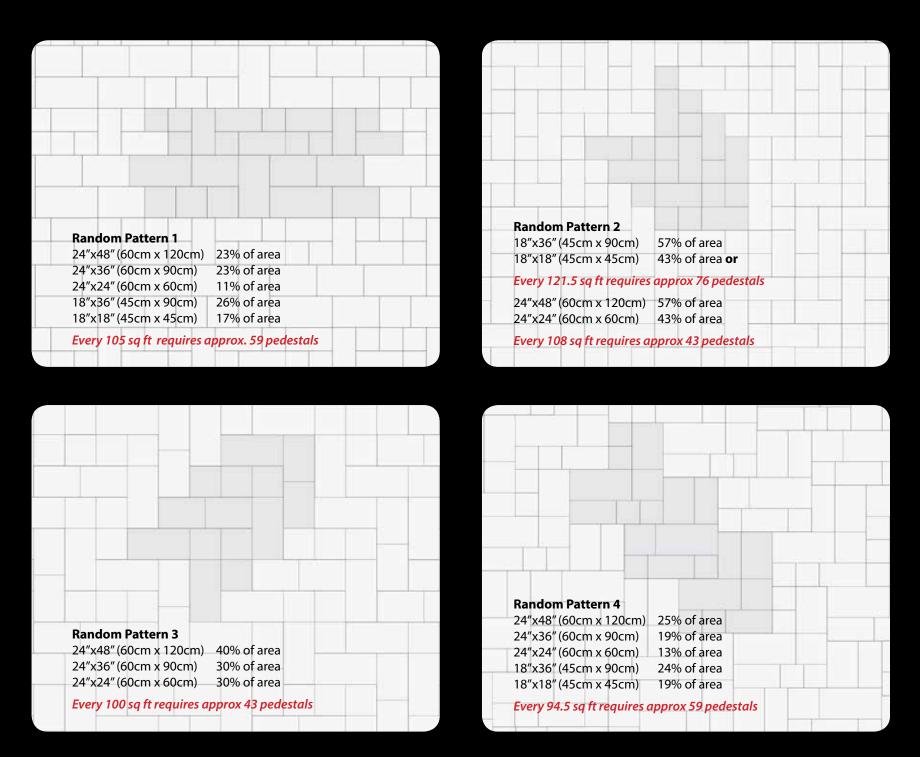


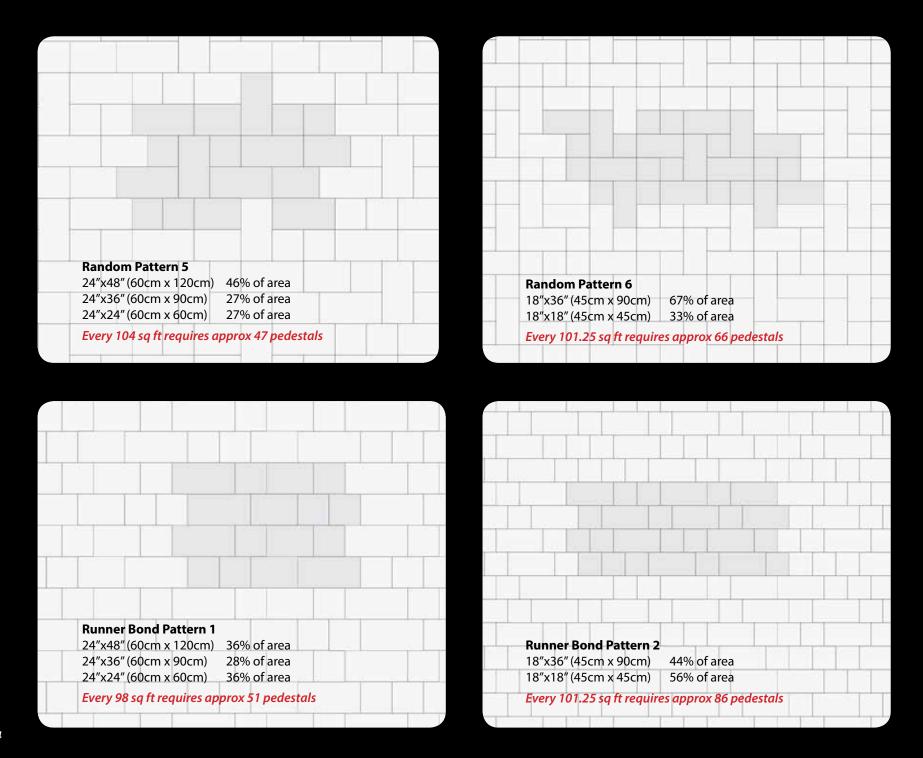


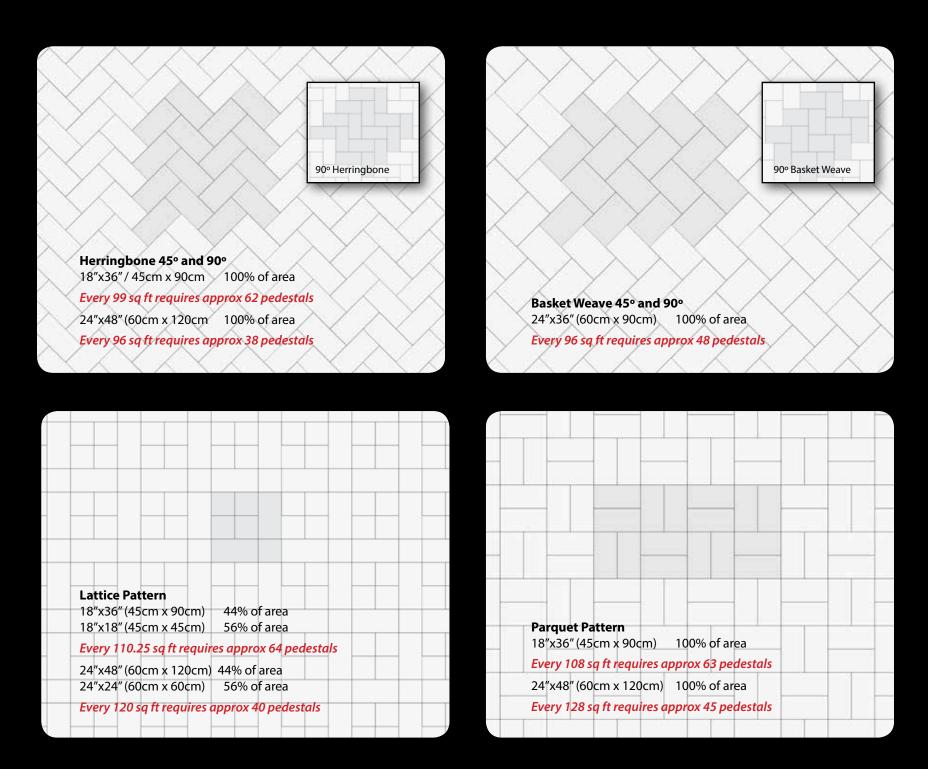
# Aristokrat® Series Pattern Guide to help you order and layout your project















# BlackJack® 'Screw Jack Pedestals' and BlackJack® 'OneStep' System

# Two adjustable support systems for HydraPressed slabs

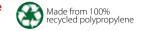
**BlackJack®** Screw Jack Pedestals are a height and slope adjustable pedestal for slab and decking support, engineered to reduce material, construction and lifecycle costs. It caters to a wide range of height requirements, from 2 <sup>7</sup>/<sub>8</sub> - 40" (74mm - 1016mm), using only three main components (Top, Coupler and Base).

Accessories include top slope-correctors, spacer tabs, couplers and joist holders.

## **High Compressive Strength**

**BlackJack** has high ultimate compressive strength for various height combinations.

## Supports Green Building, LEED® points available



**BlackJack** is manufactured from recycled polypropylene, LEED® points available. **Construction Benefits** 

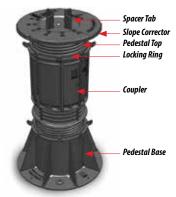
**BlackJack** provides a quick to install alternative to on-site fabricated concrete or metal piers.

It allows convenient progressive height adjustments and correction for fall. Desired height is secured with integrated Locking Rings.

The large flat base and rounded edges do not penetrate and compromise waterproofing membranes. The base flange design prevents water ponding and breeding of pests.





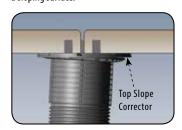


#### Create a wide range of pedestal heights by combining these components



#### **Top Slope Corrector**

Top Slope Correctors provide for slope compensation up to 5%, keeping pavers level on a sloping surface.



#### **Locking Ring**

Locking Rings ensure pedestals are secured at desired heights and are easily removed when not required.



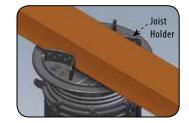
#### Spacer Tab

Spacer Tab height 5/8" (15mm) with a thickness of 1/8" (3mm) between slabs.



#### **Joist Holder** (special order)

Joist Holders accomodate joist width from  $1^3/8''$  to  $3^1/8''$  (35mm - 80mm) to keep joists firmly in place on pedestals.



Visit our website at www.pavingstones.com to download a complete BlackJack® Product Guide.

**OneStep** is a pedestal for slab support engineered to reduce material, construction and life-cycle costs. It has a height range of between .95" and 1.77" (24mm and 45mm) that may be increased using BJ 20E and/or BJ 40E extenders.

Individual chocks can be adjusted independently in 1mm increments to compensate for uneven installation surfaces.

OneStep can be separated into halves or quarters enabling flush placement along wall edges as well as inside and outside corners.

**The BJ - 4mm Pedestal** is an ultra-low fixed-height pedestal designed to support concrete, stone, tile and timber pavers. It also creates a drainage layer which reduces efflorescence and algae growth.





BJ-4mm pedestal

OneStep pedestal



Spacer Tab

Lockina Pins

Chock



BJ 20E, 3/4" (20mm) Extender

BJ 40E, 11/2" (40mm) Extender

34 BJ-4mm around corner



**Applications:** 

BlackJack OneStep System is used to support a wide range of concrete, natural stone and marble slabs on:

- Roofs
- Plaza decks
- Balconies
- Swimming pool surrounds
- Verandas
- Patios

## **System Advantages:**

- Minimum height of .16" (4mm)
- Easy to install and lightweight
- OneStep provides progressive 1mm adjustment
- Lock height adjustment in place with locking pins
- Made from recycled polypropylene
- Accommodates slabs of inconsistent thickness
- Reduces construction time
- $\bullet$  Reusable, suitable for temporary paving or retrofitting

#### **Construction Benefits**

Height extensions and height adjustments are easy and convenient. Independent chock adjustments can be made to compensate for differences in slab thickness.

Locking Pin installed

Eliminates need for bedding sand or cement screed, reducing the load burden on building structures. It also reduces installation time and costs.

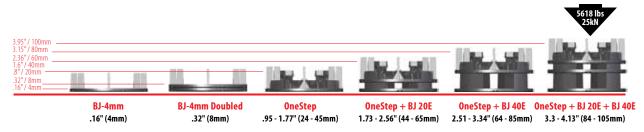
Joint sealant and grouts are unnecessary between slabs. The slab gaps provide surface drainage and allow for expansion and contraction.

# **High Compressive Strength**

BlackJack OneStep with Extenders up to 4.13" (105mm) has ultimate compressive strength of  $\geq$  5618 lb (25 kN).

#### **LEED® Points Available**

BlackJack OneStep System is manufactured from recycled polypropylene.





# STONEHENDE

An exciting new series of building blocks

The **StoneHenge Series** consists of three tumbled blocks in four beautiful color blends that can be used in an infinite variety of ways to build your dream outdoor living space.



Standard Unit 8" x 12" x 4"



Tapered Unit 7" or 8" x 8" x 4"



Tapered Unit 5" or 4" x 8"x 4"

Whether you're a professional or a doit-yourselfer, the StoneHenge Series is the ultimate building block to create those unique one of a kind pieces for the ultimate in outdoor living spaces. Imagination will be the only limit of your distinctive creations.









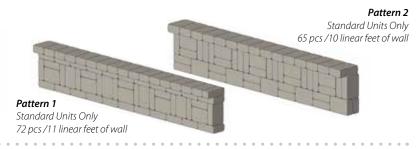




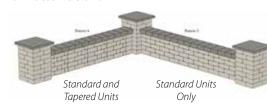
Choose from four beautiful color blends to enhance your hardscape

#### Wall Patterns 1 and 2





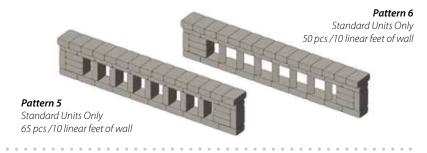
#### Wall Patterns 3 and 4





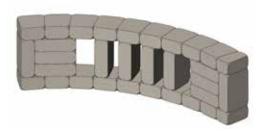
## Wall Patterns 5 and 6





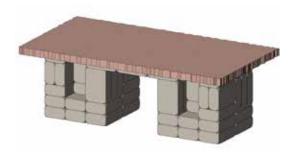
## Use tapered and standard units to create curved walls or benches.





Imagine enjoying the atmosphere of your favorite get-away right in your own yard. Abbotsford Concrete's StoneHenge allows you to create these breathtaking outdoor surrounds at a fraction of the cost, while greatly enhancing the value of your home.

# **Table Designs**









Standard Units Only 28" x 28" base – 40" high 48 pcs. required

# **Pillar Designs**



Standard Units Only 20" x 20" – 4" high rows 4 pcs./row





Standard Units Only 32" x 32" – 4" high rows 8 pcs. / row

Standard and Tapered Units 1:1:1 ratio 32" x 32" – 4" high rows 12 pcs./row



Standard and Tapered Units 1:1:1 ratio 20" x 20" – 4" high rows 6 pcs./row

Standard and Tapered Units 1:1:1 ratio 32" x 32" – 4" high rows 12 pcs./row



**StoneHenge units** install quickly and easily by simply adhering to each other using a premium grade concrete construction adhesive, available at any of your Abbotsford Concrete Dealer Representatives.



# PisaLite® Wall System

The PisaLite® retaining wall system offers the ultimate in flexibility of design from taming that steep slope, to creating a beautiful focal point in your landscape design. With its lightweight composition it is easy to install and requires little maintenance. PisaLite® with its multi-piece system allows you to create sweeping curves and unique patterns to reflect your individual taste. PisaLite® enables you to manage and optimize grade changes on your project to create incredible raised patios, terraces, planters and parking areas.



#### Standard Unit

200mm (w) x 150mm (h) x 300mm (d) 8"(w) x 6"(h) x 12"(d) 31 lbs



#### **Tapered Unit**

200mm (w) x 150mm (h) x 300mm (d) 8"(w) x 6"(h) x 12"(d) 29 lbs



#### **Jumbo Unit**

300mm (w) x 150mm (h) x 300mm (d)  $12''(w) \times 6''(h) \times 12''(d)$  44 lbs (Functions Horizontally or Vertically



#### **Half Unit**

100mm (w) x 150mm (h) x 300mm (d) 4"(w) x 6"(h) x 12" (d) 15 lbs



#### **Corner Units**

200mm (w) x 150mm (h) x 300mm (d) 8"(w) x 6"(h) x 12" (d) 40 lbs

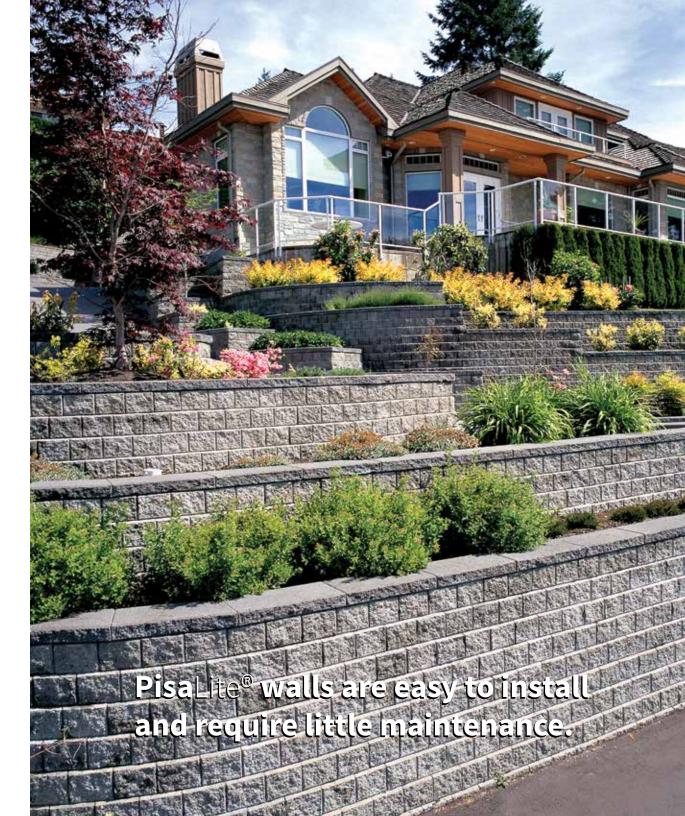


#### Cap

610mm (w) x 330mm (d) x 80mm (h) 24"(w) x 13"(d) x 31/8"(h) 73 lbs

To complement and provide extra character to your PisaLite® project, exact replica sized units have been created with lights or speakers in them. For more details, please contact your Abbotsford Concrete dealer representative.

To download our complete design and installation manual, visit www.pavingstones.com





Natura



Granite



Charcoal



Sandalwood



**Moroccan Sunset** 



Abbotsford Concrete Products manufactures PisaLite® in six attractive color blends that can be used individually or can be combined with each other to create a unique palette to complement any project.



Laying Pattern



Integration



Cutting Required

### Offset Runner Bond



100% Standard or 100% Jumbo





\_\_ 50% Standard | 38% Jumbo | 12% Half

Pattern Two



Pattern Three

46% Standard | 46% Jumbo | 8% Half



Pattern Four

54% Standard | 28% Jumbo | 18% Half



Pattern Five

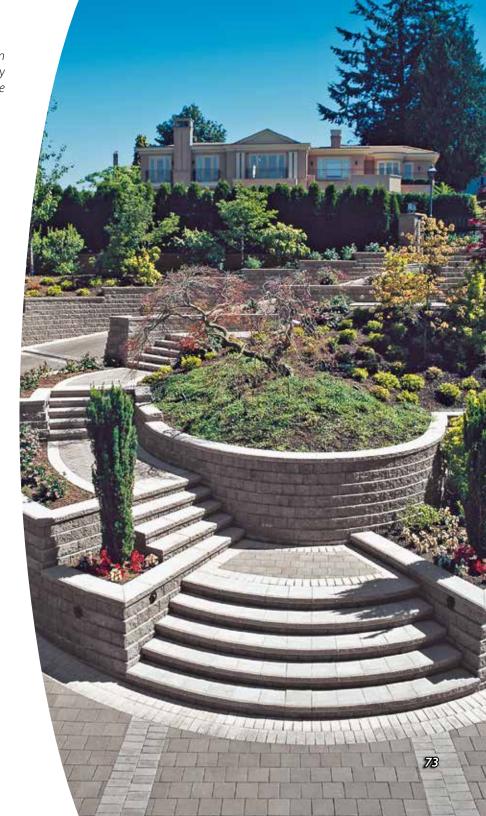


Pattern Six



41% Standard | 47% Jumbo | 12% Half

53% Standard | 40% Jumbo | 7% Half



### **Pisa** OneStone™ Wall System

The Pisa OneStone™ is a large format engineered segmental retaining wall system that can be used for a variety of architectural styles and designs from residential to commercial.



#### Standard Unit

18"(w) x 8"(h) x 12"(d) 457mm (w) x 203mm (h) x 305mm (d) 80 lbs



#### **Combo Unit**

(Left and Right) 18"(w) x 8"(h) x 12"(d) 457mm (w) x 203mm (h) x 305mm (d) 80 lbs



#### **Corner Units**

18"(w) x 8"(h) x 9"(d) 457mm (w) x 203mm (h) x 229mm (d) 77 lbs

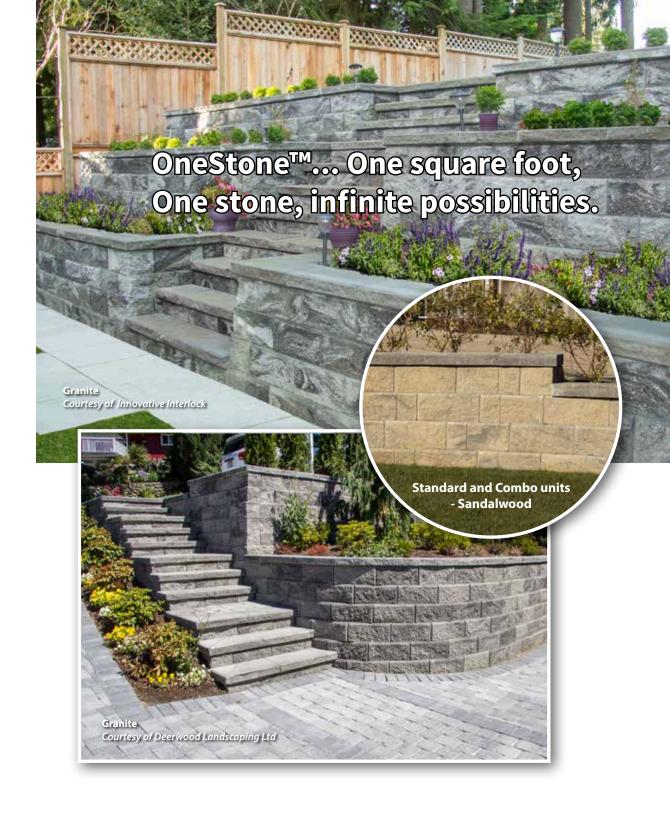


### **Cap Unit**

24"(w) x 13"(d) x 3%"(h) 610mm (w) x 330mm (h) x 80mm (d) 73 lbs

Pisa OneStone™ comes in one size with three different faces, allowing you to create different patterns without having to use a multi-stone system.

To download our complete design and installation manual, visit www.pavingstones.com







Granite



Charcoal



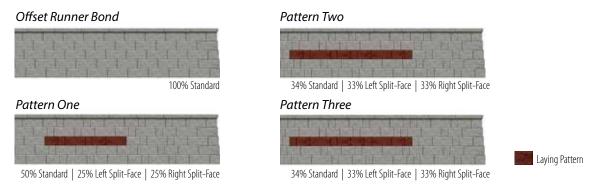


**Moroccan Sunset** 

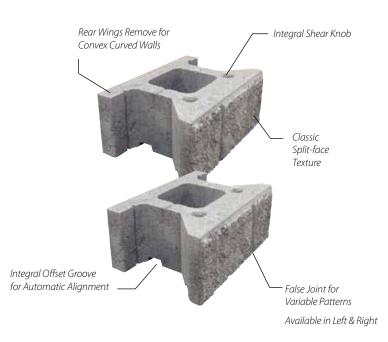


La Jolla

### Abbotsford Concrete Products manufactures Pisa OneStone™ in six attractive color blends that can be used individually or can be combined with each other to create a unique palette to complement any project.



note: Standard units are shipped on an individual pallet and Combo units are shipped on a separate pallet in equal numbers of left and right units.





The unparalleled flexibility of Pisa OneStone™ creates an impressive array of harmonious design possibilities for your next project.





Finally... a mortarless garden wall system that's easy to handle!



#### Classic Face

12"(w) x 6"(h) x 7½"(d)



### **Corner Unit**

14"(w) x 6"(h) x 8"(d) 57 lbs



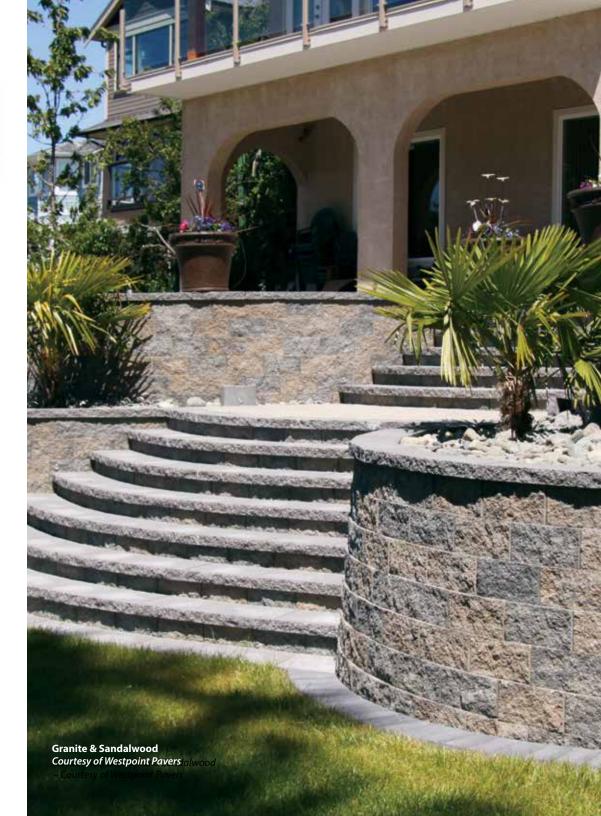
**Cap** 18"(w) x 9"(d) x 2%"(h) 29 lbs



### **Tumbled Cap**

7%"(w) x 9"(d) x 2%"(h) 12 lbs

With Abbotsford Concrete's **Garden** WallScapes, you can create beautiful retaining walls, stairs and raised garden beds that will enhance any landscape for many years to come.





**Classic Face - Granite** 



Classic Face - Sandalwood

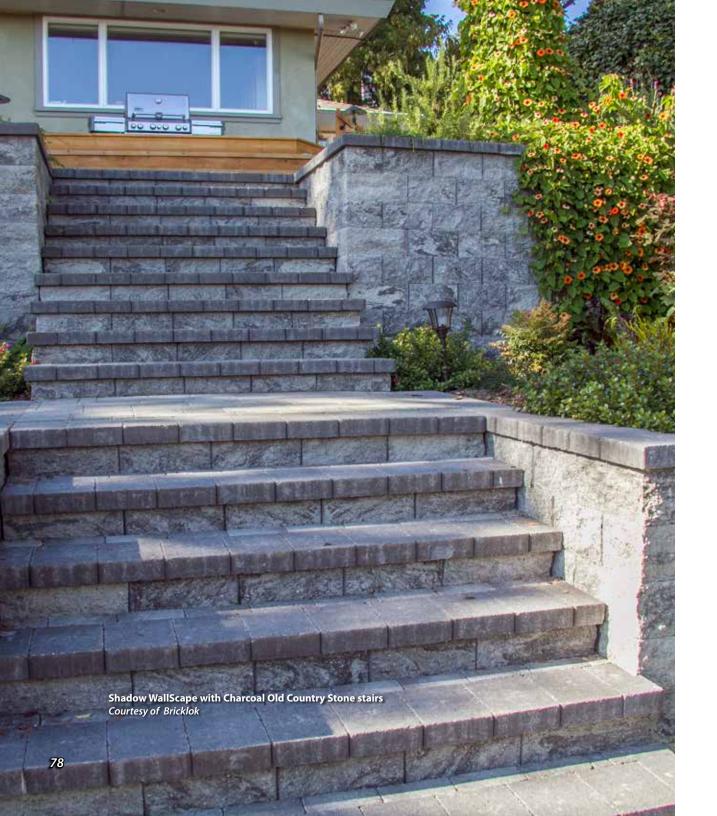


Classic Face - Teak



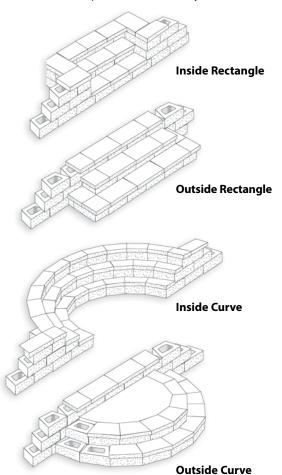
Classic Face - Moroccan Sunset





### **Stair Details**

Stairs are easy to build with Garden WallScapes and Old Country Stone.



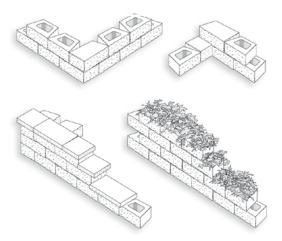
Position alignment lugs on the bottom of blocks into the cavity of the course below.



**Interlocking Concrete Connector Detail** 

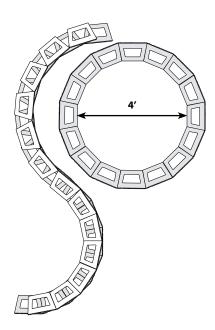
### **Corner & Capping Details**

Incorporate planters with the design of your stairs to create a softer, more natural look.



Step Down Capping Detail

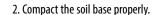
**Step Down With Planting** 

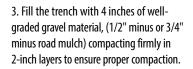


Minimum Outside Diameter 5'(approx)

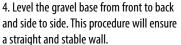
## **Garden WallScapes Installation Guide**







Note: Hand tamping tools may be used, but vibrating compaction equipment is recommended.





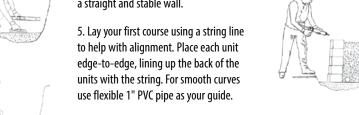
6. As you lay each unit of the first row, check the level of the block from side to side and front to back. Careful preparation of this base row is the key to having a successful and attractive finished project.



- 7. Start stacking the remaining rows making sure the alignment lugs are face down. Be sure to sweep the top of each course of units to clear debris. Half stagger the next row so each unit is centered on two units below. Pull each unit forward to lock connecting lugs in place. Corners must be secured using an approved concrete adhesive.
- 8. Fill the hollow core of the units and the trench behind the wall with free-draining crushed gravel, making sure to carefully compact this material to help lock the units in place. Repeat this procedure for each row.
- 9. Place filter fabric on top of the backfill and drainage materials. This will ensure that the "drainage chimney" remains clear. Cover with topsoil.



10. Sweep off the top course of units. Secure caps to the top of the wall using an approved concrete adhesive. Use a level piece of string to properly align the capping.



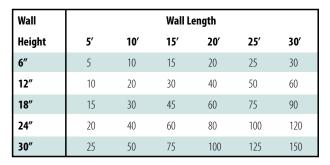
A perforated drainage pipe must be placed at the base of the wall and must be sloped toward a catch basin or drainage area.

### **Easy Calculation Chart**

Match the number of rows with the length of your wall to find the number of blocks you will need. Garden WallScapes should not exceed 5 rows in height without consulting a professional engineer. One corner unit is required for every corner in a row as well as each step-down.

Notes: 1. Each course of Garden WallScapes has a 3° batter or setback which is approx 3/8" per course.

2. When terracing, you must step back twice the distance of the height of the lower wall.









# Stack Stack Installation Guide



- 1. Dig a base trench 16 inches wide and 6 inches deep. Remove all vegetation and unsuitable organic soils. (Do not use these for structural backfill)
- 2. Compact the soil base properly.



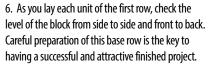
3. Fill the trench with 4 inches of well-graded gravel material, (1/2" minus or 3/4" minus road mulch) compacting firmly in 2-inch layers to ensure proper compaction. Note: Hand tamping tools may be used, but vibrating compaction equipment is recommended.



4. Level the gravel base from front to back and side to side. This procedure will ensure a straight and stable wall.



5. Lay your first course using a string line to help with alignment. Place each unit edge-to-edge, lining up the units with the string. For smooth curves use flexible 1" PVC pipe as your quide.





7. Start stacking the remaining rows; make sure to sweep the top of each course of units to clear debris. Half stagger the next row so each unit is centered on two units below. Corners must be secured using an approved concrete adhesive.



- 8. Fill the trench behind the wall with freedraining crushed gravel. Repeat this procedure for each row.
- 9. Sweep off the top course of units. Secure caps to the top of the wall using an approved concrete adhesive.

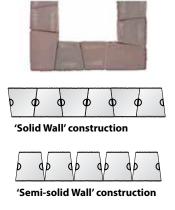
#### Corners

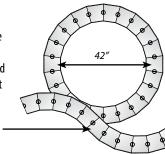
Corners are a snap with the StackWall corner unit. Alternate the direction of the corner units for each course as shown here.



To construct a solid wall that requires the aesthetics of the split face finish on both sides, alternate the units as shown here.

If the wall is viewed on one side only, you can install the units by aligning the larger faces as shown here. This type of layout is necessary for curved walls.







Inverted corner units must be attached using an approved concrete adhesive.

---- Next course

### Curves

The minimum diameter for a curve is 42" for inside curves, and 58" for outside curves. For inside curves, either the larger or smaller face can be used to create the curve you desire. The larger face must be used on all outside curves.

Where a wall changes direction, start the change by simply reversing the units.

### **Easy Calculation Chart**

Match the number of rows with the length of your wall to find the number of blocks you will need. StackWall should not exceed 6 rows in height including coping, without consulting a professional engineer. One corner block is required for every corner in a row as well as each step-down.

Note: When terracing, you must step back twice the distance of the height of the lower wall.

Wall		Solid Wall Length					
Height	3′	7′	10'	14′	17′		
4"(coping	g) 5	12	17	24	29		
8"	11	25	35	49	59		
12"	16	37	52	73	88		
16"	21	49	69	97	117		
20"	26	61	86	121	146		
24"	31	73	103	145	175		

Wall	Semi-Solid Wall Length					
Height	2′	4′	6′	8′	10′	
4"(coping)	3	6	9	12	15	
8″	4	7	10	13	16	
12"	7	13	19	25	31	
16"	10	19	28	37	46	
20"	13	25	37	49	61	
24"	16	31	46	61	76	

### **Frequently Asked Questions**

What are Interlocking Concrete Paving Stones (ICPS)?

Pavers are individual precast concrete units. They are produced on specially designed paving stone machines. This specialized manufacturing process ensures an exacting quality controlled environment that produces pavers of higher strength and durability than normal concrete. Pavers are a minimum of 8000 psi, compared to about 2500 psi for poured in place concrete.

How Long Have Paving Stones Been in Use? The original paving stone solution was put in place by the Roman armies of early A.D. They built roads using an aggregate base with the placement of stones on top. These roads are still in place today and wind their way through the European countryside.

Following World War 2 there was a dire need for reconstruction. To facilitate the construction of roads, the Dutch needed to use a product that was in plentiful supply, the clay brick. These bricks had to be mortar set. This methodology progressed to a point that reached the technology and experience that led to the use of sand set paving stones today.

In the early 70's the popularity of paving stones reached the shores of North America and have gained prominence ever since.

How Does the Interlocking System Work?

Pavers are placed on one inch of bedding sand over a compacted aggregate base. The thickness of the base will vary depending on its application. Paving stones are retained using edge restraints. Commonly used edge restraints include concrete curbing, plastic edge restraints, aluminum edge restraints, and concrete slurry mixes.

Once the pavers are placed and restrained the compaction process may begin. The pavers are compacted while fine masonry sand is swept into the joints. The compaction process may take 3 or 4 passes before full interlock is achieved.

Upon completion of this compaction process, the area is ready for immediate use. Unlike asphalt and concrete, no curing or setting time is required for interlocking concrete paving stones.

What Types of Areas are Appropriate for Interlocking Pavers?

Interlocking concrete paving stones are used at airports, container facilities, railway container facilities, municipal streets, plazas, parks, driveways, walkways and patios. Pavers are the perfect solution for almost any application because of their high quality, aesthetic value, and lower life cycle cost in comparison to asphalt or concrete.

How Does The Weather Affect ICPS?

Pavers are your all weather solution. In intense heat they will not soften as asphalt does. Upon experiencing freeze/thaw cycles pavers will not crack or spall as normal cast in place concrete does, because the joints between the pavers allows for flexibility. During periods of rain the joints will help slow the run off of water easing erosion. Concrete pavers shed about 95% of the water that lands on them. As the proper movement of water is imperative, a consistent grade must be established. The grade is established by the aggregate base.

Are Paving Stones Slippery?

No. Interlocking Concrete Paving Stones actually surpass the standards for slip resistance established by the American Disabilities Act.

Can I Drive on the HydraPressed Slab?

No, you cannot. The slabs are strictly designed for pedestrian areas such as plazas, patios and walkways. Any pavers larger than  $12 \times 12 \times 2$ –3/8 inches thick is deemed to be unsuitable for vehicular traffic due to flexural issues by CSA, and ASTM specifications.

What is the White Stuff on My Pavers?

Should I Seal My Pavers? The whitish deposit is called efflorescence. Efflorescence is a natural by-product from the cement hydration process.

Calcium oxide inside the paver reacts with water in the capillaries and forms calcium hydroxide. This seeps to the surface, and reacts with the carbon dioxide in the air to form calcium carbonate, a whitish residue. When moisture on the surface evaporates, the white efflorescence becomes visible. If efflorescence is present, it will wash or wear off over the course of time. If you wish to become more aggressive in the removal of efflorescence, there are cleaners available that are designed to remove efflorescence.

Absolutely, you've made a considerable investment in your hardscape project, why would you not protect it like other parts of your home. Using a high solids content, gas and oil resistant sealer will achieve 5 goals:

- (1) The pavers will be protected from gas, oil, grease, food and leaf stains.
- (2) The sealer will help maintain and protect the original colors.
- (3) Limits vegetation growth.
- (4) Prevents efflorescence from recurring.
- (5) Helps with general overall maintenance.

The sealing process can take place immediately upon completion of installation or at anytime in the future provided you have 4–5 days of warm dry weather. (If you've used Polymeric Joint Sand, instead of Abbotsford Concrete's Interlocking Paver Joint Sand, you must refer to the polymeric joint sand and/or sealer manufacturer's recommended application instructions.) The area to be sealed should be cleaned with an approved paving stone cleaner and allowed to dry 4–5 days before the application of the sealer can take place. (Please be sure to shut off automated sprinkler systems). Although pavers may appear dry on the surface, it is very important to wait the prescribed drying time before the application of the sealer. This will allow adequate evaporation from the capillaries beneath the paver surface to ensure sufficient sealer penetration.

NOTE: Caution should be used when cleaners are applied near vegetation. Do not use muriatic acid, as it will damage the color of the pavers. Consult with your Abbotsford Concrete dealer for more information.

Will Vegetation Grow From Underneath?

Can We Overlay ICPS on Pre-existing Asphalt or Concrete?

Where can I find an ICPI Accredited Installer?

No, vegetation requires an appropriate amount of sunlight. Growth of vegetation occurs when airborne spores infiltrate the sand joints. If the pavers have been properly sealed there is minimal opportunity for the spores to infiltrate the sand joints. However, if the pavers aren't sealed, a good stiff brush, power washer or approved herbicide will eliminate vegetation. Any joint sand removed in the cleaning process must be replaced.

Yes, you can. Follow the same guidelines as with the aggregate base installation model (pages 32–33). Establish the grade and fill in any voids/potholes with an aggregate base material. Compact the aggregate base. Install edge restraint and screed into place one inch of sand. Once base preparation is complete, place and compact the pavers while sweeping sand into the joints.

When choosing an installer for your project, it is strongly advised that you choose an ICPI (Interlocking Concrete Pavement Institute) Accredited Installer. ICPI ensures that installers have passed an exam on installation knowledge and does not certify or guarantee the quality of installation. Job references should be carefully reviewed and verified to assist in identifying competent contractors. See our list of Accredited Installers at www.pavingstones.com



Your Abbotsford Concrete Products Dealer

#### NOTE

Efflorescence is a whitish powder like deposit of calcium carbonate that may appear on the product. It is a natural by-product of the cement hydration process and is inherent in all concrete products. It will usually wash or wear off in the course of time. If you do not wish to wait for this natural process to occur, cleaners designed specifically for removal are available. Contact your local dealer. DO NOT USE MURIATIC ACID directly as it will damage the color. Efflorescence in no way affects the integrity of the product, and is not a cause for rejection.

Cleaning and sealing can take place immediately after installation, weather permitting. If you've used Polymeric Joint Sand, instead of Abbotsford Concrete's Interlocking Paver Joint Sand, you must refer to the polymeric joint sand and/or sealer manufacturer's recommended application instructions.

### **Specifications:**

### **ABBOTSFORD CONCRETE PRODUCTS**

Pavers are manufactured to ASTM C 936-15 and CSA A231.2-14 specifications.

HydraPressed Slabs to CSA A231.1-14 ASTM C1782/C1782M-16 specifications.

**Compressive strength:** 8000 PSI (55 MPA) **Absorption:** shall not exceed 5%

**Weight:** 1-5/, " (40mm): approx. 20lbs/ft² (98kg/m²)

2" (50mm): approx. 25lbs/ft² (122kg/m²) 2-³/<sub>8</sub>" (60mm): approx. 28lbs/ft² (140kg/m²) 3-¹/<sub>8</sub>" (80mm): approx. 37lbs/ft² (188kg/m²)

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