In structural applications, the primary function of retaining walls is to provide structure and strength to steep slopes or cuts. Some common structural uses for PisaLite® retaining walls are high walls, some in excess of 4.0m (12’); walls required to support parking, roads, or highways; and erosion protection along streams or lakes. In all of these cases, geosynthetic reinforcement is used. The PisaLite® system is supported by Abbotsford Concrete Products and Risi Stone Systems. Abbotsford Concrete Products will make every attempt to answer your general questions and they will gladly provide customers with answers for site-specific applications. The Vespa.RS design software also helps to provide solutions for specific site designs. Unique applications often necessitate the assistance of a professional engineer. Risi Stone Systems can provide these solutions through its Engineering Design Assistance program.
Features & Advantages

The PisaLite® system has a number of features that make the system unique. Each of these features has been developed to give a PisaLite® retaining wall the advantages of increased beauty, simplified installation, and greater strength. These features benefit the owner by lowering the entire cost of the retaining wall, both during installation and well into the future.

**Modular Retaining Wall System**
Wall is flexible, yet retains its structural characteristics.
- The wall can absorb minor movements due to frost or settlement.
- Requires minimal embedment below grade.
A compacted granular base is all that is required.
- Reduces the cost by not requiring an expensive structural footing.
Core does not require filling and compaction
- Ensures maximum resistance to overturning forces.
- Saves time and money.

**Manufactured From 35 MPA (5000 PSI) Concrete**
- Provides wall with greater durability.
- Less susceptible to freeze-thaw deterioration.
- Less likely to be broken by handling or in transit.

**Tongue and Groove Interlock**
Interlocking mechanism moulded into the units so there are no separate pins or clips.
- Increases installation rates.
- Ensures maximum shear connection between units.
Units are dry-stacked.
- Lower costs because no mortar is used in the construction.
- Minimal training is required to achieve excellent installation results.
Units are self-aligning and self-battering.
- 3/4” setback per course or 7° batter
- Once the first course is laid flat and levelled, there is no need for continual measuring and adjusting.
Creates a continuous interlock throughout the wall face.
- Makes a stronger, more damage-resistant wall.

**Chamfered Face**
The face of the PisaLite® stone is produced with a chamfer on all four sides.

**Size and Weight**
Units are well-balanced, easy to handle, and have a moulded finger hold.
- Units can be held by a single person for quicker installation.
Manufacturing method ensures a uniform height for each unit.
- Courses remain at fixed elevations and should not require shimming.

**PisaLite® with Geogrid Reinforcement**
Ability to construct higher walls.
- Can utilize site soil to infill the geogrids, consequently lowering disposal and extra material charges.
- Can use the same facia throughout a site on lower conventional SRWs and higher geogrid reinforced SRWs.

**90° Corner Units**
Manufactured to speed construction.
- Offers a finished appearance to the wall.
- Initiates the correct running bond pattern.
- Increases the strength of corners.
- Saves time during installation.

**RisiLights**
Provide illumination for stairs or landscape accents; blend into the wall during daylight.

**RisiSounds**
Provide an audio speaker system that blends into the wall.

**Complementing Accessories**
All the standard features for retaining walls can be supplied by Abbotsford Concrete Products dealer representatives.
- Saves time during installation.
- Creates a uniform, finished look for the wall.

**Technical Support and Engineering Design Assistance**
Technical expertise developed over forty years through experience and testing is available to customers.
- Ensures that retaining walls are correctly designed and constructed.
- Advanced software is available to help designers generate stable retaining wall structures.
## Block Details

<table>
<thead>
<tr>
<th>PisaLite® System Units</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm / inches</td>
<td>mm / inches</td>
<td>mm / inches</td>
<td>Kg / Lbs</td>
</tr>
<tr>
<td><strong>Standard</strong></td>
<td>200 / 7 ¾”</td>
<td>150 / 5 ¾”</td>
<td>300 / 11 ¾”</td>
<td>14.0 / 31</td>
</tr>
<tr>
<td><strong>Tapered</strong></td>
<td>200 / 7 ¾”</td>
<td>150 / 5 ¾”</td>
<td>300 / 11 ¾”</td>
<td>13.2 / 29</td>
</tr>
<tr>
<td><strong>Jumbo</strong> (functions horizontally or vertically)</td>
<td>300 / 11 ¾”</td>
<td>150 / 5 ¾”</td>
<td>300 / 11 ¾”</td>
<td>20.0 / 44</td>
</tr>
<tr>
<td><strong>Half</strong></td>
<td>100 / 3 ¾”</td>
<td>150 / 5 ¾”</td>
<td>300 / 11 ¾”</td>
<td>6.8 / 15</td>
</tr>
<tr>
<td><strong>Corner</strong></td>
<td>200 / 7 ¾”</td>
<td>150 / 5 ¾”</td>
<td>300 / 11 ¾”</td>
<td>18.2 / 40</td>
</tr>
<tr>
<td><strong>Cap</strong></td>
<td>610 / 24”</td>
<td>80 / 3 ¼”</td>
<td>330 / 13”</td>
<td>33.1 / 73</td>
</tr>
</tbody>
</table>

True dimensions are in Metric, Imperial dimensions are soft conversions.

### Colors

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.

- **Granite**
- **Charcoal**
- **Natural**
- **Moroccan Sunset**
- **Sandalwood**
- **La Jolla**
Patterns

Offset Runner Bond

100% Standard

Pattern One

50% Standard | 38% Jumbo | 12% Half

Pattern Two

46% Standard | 46% Jumbo | 8% Half
Pattern Three

54% Standard | 28% Jumbo | 18% Half

Pattern Four

54% Standard | 28% Jumbo | 18% Half

Pattern Five

53% Standard | 40% Jumbo | 7% Half

Pattern Six

41% Standard | 47% Jumbo | 12% Half
Where Function & Style Meet

Abbotsford Concrete Products Ltd. has been an innovative industry leader in the manufacturing of Segmental Systems for more than two decades. Our state of the art manufacturing facility ensures that you receive the best products, which meet or exceed strict ASTM or CSA Standards.

www.pavingstones.com    |   Toll Free: 1.800.663.4091

www.risistone.com    |   Toll Free: 1.800.626.WALL