AB Ashlar Blend Patterned Walls

AB Classic
6 degree setback
Approx. 1 lb/ft² (11 lb/ft²)
8 in. H x 17 in. D x 18 in. L
(200 mm H x 350 mm D x 460 mm L)
75 lbs (35 kg)

AB Jumbo Jr.
6 degree setback
Approx. 0.5 lb/ft² (2.2 lb/ft²)
8 in. H x 5.5 in. D x 9 in. L
(200 mm H x 140 mm D x 230 mm L)
55 lbs (16 kg)

AB Lite Stone
6 degree setback
Approx. 0.5 lb/ft² (2.2 lb/ft²)
6 in. H x 12 in. D x 16 in. L
(150 mm H x 300 mm D x 400 mm L)
55 lbs (16 kg)

AB Jr. Lite
6 degree setback
Approx. 0.25 lb/ft² (1.1 lb/ft²)
4 in. H x 12 in. D x 9 in. L
(100 mm H x 300 mm D x 230 mm L)
18 lbs (8 kg)

Combine 4 AB Block shapes to create patterned walls.
Compact backfill soil and wall rock after each course of block is installed.

Install soil reinforcement on top of filled block and compacted soil at the 1st course and then every 2nd course according to chart at the right.

Level and compact a 6 in. (150 mm) layer of base rock in a 12 in. (300 mm) deep trench.

Compact backfill pipe and vent to daylight.

**For taller walls see our AB Commercial Retaining Wall Manual for walls over 6 ft. (1.8 m) high or visit our website for complete details at allanblock.com.**

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**Soil Reinforcement Chart for Residential Wall Applications**

<table>
<thead>
<tr>
<th>CONDITION ABOVE WALL</th>
<th>WALL HEIGHT</th>
<th>CLAY SOIL</th>
<th>SANDY SOIL</th>
<th>CLAY SOIL</th>
<th>SANDY SOIL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No. of Layers</td>
<td>Width (W)</td>
<td>No. of Layers</td>
<td>Width (W)</td>
</tr>
<tr>
<td><strong>Level</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 ft (0.9 m)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4 ft (1.2 m)</td>
<td>2</td>
<td>3 ft</td>
<td>0</td>
<td>2</td>
<td>3 ft</td>
</tr>
<tr>
<td>5 ft (1.5 m)</td>
<td>3</td>
<td>3 ft</td>
<td>0</td>
<td>3</td>
<td>4 ft</td>
</tr>
<tr>
<td>6 ft (1.8 m)</td>
<td>4</td>
<td>4 ft</td>
<td>4 ft</td>
<td>4</td>
<td>4 ft</td>
</tr>
<tr>
<td><strong>Surcharge</strong> 100 psi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 ft (0.6 m)</td>
<td>1</td>
<td>3 ft</td>
<td>0</td>
<td>1</td>
<td>3 ft</td>
</tr>
<tr>
<td>3 ft (0.9 m)</td>
<td>2</td>
<td>3 ft</td>
<td>0</td>
<td>2</td>
<td>3 ft</td>
</tr>
<tr>
<td>4 ft (1.2 m)</td>
<td>2</td>
<td>3 ft</td>
<td>0</td>
<td>2</td>
<td>3 ft</td>
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<tr>
<td>5 ft (1.5 m)</td>
<td>3</td>
<td>3 ft</td>
<td>3 ft</td>
<td>3</td>
<td>4 ft</td>
</tr>
<tr>
<td>6 ft (1.8 m)</td>
<td>4</td>
<td>4 ft</td>
<td>4 ft</td>
<td>4</td>
<td>4 ft</td>
</tr>
<tr>
<td><strong>Slope 3:1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 ft (0.9 m)</td>
<td>2</td>
<td>3 ft</td>
<td>0</td>
<td>2</td>
<td>3 ft</td>
</tr>
<tr>
<td>4 ft (1.2 m)</td>
<td>2</td>
<td>3 ft</td>
<td>0</td>
<td>2</td>
<td>3 ft</td>
</tr>
<tr>
<td>5 ft (1.5 m)</td>
<td>3</td>
<td>4 ft</td>
<td>0</td>
<td>3</td>
<td>4 ft</td>
</tr>
<tr>
<td>6 ft (1.8 m)</td>
<td>4</td>
<td>4 ft</td>
<td>4 ft</td>
<td>4</td>
<td>4 ft</td>
</tr>
</tbody>
</table>

The Soil Reinforcement Chart is based on clay soil having an internal friction angle of 27° (Ref) or better and a sandy soil having an internal friction angle of 32° (Ref) or better. Soil reinforcement increases the strength of the wall by creating a reinforced mass of soil behind the blocks. The weight of the reinforced soil mass combines with the blocks for a heavier, stronger wall. This chart is for estimating geogrid quantities only. For walls in the surcharge loading category above, on the last (top) layer of geogrid, it is typical to lengthen the grid by an additional 2 ft (600mm). To achieve these longer grid lengths, the Allan Block reinforcing grid must be installed perpendicular to the wall (rolled out from the front of the block to the back of the excavated area). **Walls heights are for reference only.**

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**Maximum Wall Heights - AB Gravity Walls Residential Applications**

<table>
<thead>
<tr>
<th>Condition above retaining wall</th>
<th>Soil Type</th>
<th>AB Stones only of AB Collection</th>
<th>AB, AB Aztec &amp; AB Europa Collections (LAU)</th>
<th>AB Fieldstone Short Anchoring Unit (LAU)</th>
<th>AB Fieldstone Long Anchoring Unit (LAU)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level</strong></td>
<td>Clay</td>
<td>3 ft. 6 in.</td>
<td>3 ft. 7 in.</td>
<td>5 ft. 10 in.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silt Sand</td>
<td>5 ft. 4 in.</td>
<td>4 ft. 7 in.</td>
<td>5 ft. 10 in.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silty Sand</td>
<td>1.6 ft</td>
<td>1.5 ft</td>
<td>2.6 ft</td>
<td></td>
</tr>
<tr>
<td><strong>Surcharge</strong> 100 psi</td>
<td>Clay</td>
<td>1 ft. 8 in.</td>
<td>1 ft. 8 in.</td>
<td>4 ft</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silt Sand</td>
<td>0.5 m</td>
<td>0.5 m</td>
<td>1.2 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silty Sand</td>
<td>1.1 m</td>
<td>0.9 m</td>
<td>2.1 m</td>
<td></td>
</tr>
<tr>
<td><strong>Slope 3:1</strong></td>
<td>Clay</td>
<td>2 ft. 8 in.</td>
<td>2 ft. 8 in.</td>
<td>4 ft</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silt Sand</td>
<td>0.8 m</td>
<td>0.7 m</td>
<td>1.3 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silty Sand</td>
<td>1.4 m</td>
<td>1.2 m</td>
<td>2.3 m</td>
<td></td>
</tr>
</tbody>
</table>

The Maximum Wall Heights Chart is based on clay soil having an internal friction angle of 27° (Ref) or better and a sandy soil having an internal friction angle of 32° (Ref) or better. All heights based on exposed wall heights and include a cap block. The gravity wall heights shown above do not account for seismic loading. Check with a local engineer for assistance if you are in a seismic area. Final designs for construction purposes must be performed by a local registered Professional Engineer, using the actual conditions of the proposed site. **The surcharge loading category above assumes a solid surface such as concrete, asphalt or pavers having a suitable supporting subgrade.**
Color Choices

Check with local dealer for exact block specifications, actual color and availability. Color may vary. See block samples to confirm color.

Visit allanblock.com for more information.
AB Reinforcement Grid™

For Advanced Soil Reinforcement on walls up to 6 feet in height (1.8 m)

Build a Lasting Structure with Allan Block Reinforcement Grid™

Simple
Roll out along the wall on every other course of block.

Convenient
Pre-packaged in handy roll sizes of:
3 ft x 50 ft (0.9 m x 15 m)
4 ft x 50 ft (1.2 m x 15 m)

Reliable
Fully engineered to deliver the strength your wall needs.

Used together, Allan Block and AB Reinforcement Grid combine the soil and block to create a solid structure with more resistance to soil pressure.
Build a Lasting Structure with the Allan Block Advanced Soil Reinforcement Grid.

Walls that typically require grid will be reinforced on every other course to the top of the wall. Refer to the Retaining Walls Installation Guide for Residential Walls for complete details.

**Step 1:** Install the base course of block and fill the hollow cores and 12 in. (300 mm) behind the wall with wall rock. Backfill behind the wall rock with on-site soils and compact the entire area behind the blocks in maximum 8 in. (200 mm) lifts. Check for level and alignment, making adjustments as necessary.

**Step 2:** Roll out the AB Reinforcement Grid behind the wall with the edge of the grid against the raised front lip of the block.

**Step 3:** Stack the next course of block on top of the grid, so that the blocks are offset from the blocks below. Pull on the back of the grid to remove any slack and stake in place.

**Step 4:** Using wall rock, fill the hollow cores and behind the block as described in Step 1. Compact the entire area with the first pass this time directly on the top of the blocks. Check for level and alignment, adjusting as necessary.

**Step 5:** Continue installing your next courses of block using the steps shown above. Per your approved plans, install geogrid when required on every other course of the wall to the desired height.

NEVER compact directly on the AB Reinforcement Grid or drive heavy machinery WITHIN 3 ft (0.9 m) of the wall. Heavy machinery may cause the wall to rotate forward out of alignment!

Inside Corners
- Alternate placement on every other layer

Outside Corners
- Alternate placement on every other layer

Reinforced Wall Cross Section
- Optional Capstones
- Compacted in maximum lifts of 8 in. (200 mm) backfill soil and wall rock after each course is installed

Outside Curves
- Overlap
- Fan Out

Inside Curves
- Fan Out
- Overlap

When placing grid for inside corners, extend the grid past the corner. Alternate this grid placement on every other layer so the grid extends past from the opposite direction every other time. On outside corners, simply lay grid into the corner and cut to fit with a utility knife.

The grid should follow the back of raised front lip on the top of the block. Simply cut the grid with a utility knife and fan out on outside curves or overlap to follow inside curves.

Visit allanblock.com for complete details.

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Wall Drain Pro®
The new and improved way to daylight your retaining walls!

Available in 3 colors, Black, Tan & Gray

Adaptor snaps into 4” drain tile
Designed for block 8” or shorter
Aesthetically pleasing
Reduced labor costs

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