AB Reinforcement Grid

Do You Want to Build Something?

But Don’t Know Where To Start?
So you are ready to become part of the Do-It-Yourself nation, but are not quite ready to tackle a large project? Then start small – Allan Block has a wide variety of projects that can be built in a weekend, everything from small borders or edging, tree rings, up to raised planters.

By using our AB Courtyard products even more options are available for easy weekend projects. In a few hours you can build a light post, outdoor garden bench, an above ground pond or a firepit. Ready for something more advanced? Then try a BBQ surround or a custom outdoor kitchen.

The possibilities are endless using our retaining wall or courtyard products. Check out all of our great weekend project ideas at allanblock.com.

Allanblock.com - Everything You Need All In One Place

Do Your Wall Need Reinforcement?

Determining if your wall needs to be reinforced or not is an important part of the wall design to ensure the project will be built properly and perform to its capabilities.

Using the chart below, your site information and proposed wall height, you can quickly see if your site needs the needed installing AB Reinforcement Grid is easily incorporated into the build process of your project. Just follow our simple installation guidelines located in our Residential Reinforcement Grid Installation Guide - Landscape Walls - or on our website at allanblock.com.

If your project site does not fit within the conditions shown in the Soil Reinforcement Chart below, or your project has any special characteristics or requirements, be sure to consult a qualified local engineer.

AB Reinforcement Grid is biaxial (strong in both directions) and can be simply rolled out along the wall. Other geogrids are uniaxial (strong in only one direction) and must be installed flanged from the front of the block to the back of the sound area.

AB Reinforcement Grid is available in 1, 2 and 3 ft rolls and 4 and 6 in widths that are 50 ft long (15m) and 1.2 in thick (30 mm).

Soil Reinforcement Chart for Residential Wall Applications

<table>
<thead>
<tr>
<th>CONDITION ABOVE WALL</th>
<th>WALL HEIGHT</th>
<th>Soil Reinforcement Chart for Residential Wall Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANDY SOIL</td>
<td>CLAY SOIL</td>
<td>CLAY SOIL</td>
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<td>6 ft</td>
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<td>3 ft</td>
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</tr>
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</table>

AB Reinforcement Grid

Installing AB Reinforcement Grid is easily incorporated into a wall or courtyard project.

Example:

Using blocks from the AB Collection, a 5 ft high wall (1.5 m) built in sand will require three layers of geogrid, 18 in wide (45 cm)

Do You Need to Reinforce?

Allanblock has everything you need to plan, design and build your project – including complete installation details, training videos, estimating tools, featured project profiles, product information and much more.

Visit our photo gallery at allanblock.com to see a vast resource of different projects and ideas for all Allan Block products. When designing your project, make sure to use allanblock.com as your #1 resource!

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There are many things that need to go into building a retaining wall before the first shovel of dirt is moved. By using our Residential Retaining Walls Installation Guide - Landscape Walls, you can see the complete details on how to plan, design and build a perfect project. We have spent much time creating our manuals to help enhance your project knowledge to what you have set out to accomplish.

The following is a quick example on how easy it is to build with the All Retaining Wall products after the design is complete and the retaining wall is built. Material quantities, etc. have been determined. Writing out all Allan block is a great resource for any question you may have as you proceed with your project.

Build a small retaining wall

Step 1 - Base Preparation

Mark Layout
- Start your layout, place markers at the location of the front of the wall. Using geogrid, outline the entire area.

Compact Trench
- Mark out the entire area for the wall. This prepares a clean, smooth surface for placement of the next course.

Trench Depth
- Dig a base trench 24 in. (600 mm) wide and 8 in. (200 mm) deep.

Check for Level
- Check each block for level and alignment as it is installed.

Com pact Trench
- Use a plate compactor to consolidate the wall rock directly behind the block then tamp the last course of the wall. This will ensure a quality finished wall.

Foundation Soil under the base course will ensure a quality finished wall.

Step 2 - Base Material

Drainage
- A drain pipe is required for any reinforced wall, gravity walls over 4 ft. (1.2 m ) tall or sites with drain pipes in the trench.

Level and Align
- Check and adjust each block for level and alignment as it is installed.

Backfill Behind Wall Rock
- Fill the hollow cores and 12 in. (300 mm) behind the block with wall rock to the height of the block.

Step 3 - Install Base Course - All and AB Europa Collection

Install Blocks
- Begin the base course at the lowest wall elevation. Place all blocks with the base course facing toward the rear of the base trench. For information on placing see page 18 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

Check for Level
- Check each course for level and alignment as it is installed.

Step 4 - Backfilling and Compaction

Backfill
- Fill the area in front of the blocks with soil rock. This will keep the base course from shifting while filling and compacting. Fill the hollow cores of the base course blocks from 20 in. (500 mm) behind the wall rock to the height of the block.

Compact
- Use a plate compactor to consolidate the wall rock directly behind the block then tamp the last course of the wall. This will ensure a quality finished wall.

Step 5 - Additional Courses

Remove Background Course: Remove all course material from the top surface of installed blocks. This prepares a clean, smooth surface for placement of the next course.

Reinforcement: 2 reinforcement rods set 3 ft. (900 mm) apart or from your local AB Sales Rep.

End Course Blocks: Block the end course of blocks so that the top surface line will be above the first course of blocks by at least 1/4 the length of the block.

Check for Level
- Check each course for level and alignment as it is installed.

Check and adjust each block for level and alignment as it is installed.

Level and Align
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Backfill Behind Wall Rock
- Fill the area in front of the blocks with soil rock. This will keep the base course from shifting while filling and compacting. Fill all hollow cores of the base course and 20 in. (500 mm) behind the wall rock to the height of the block.

Compact
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Check and adjust each block for level and alignment as it is installed.
There are many things that make going back to building a retaining wall below the first shelf of dirt is moved. By using our Residential Retaining Walls Handbook of Tricks, Landscape Walls can see the common mistakes in how to plan, design and build a perfect project. We have spent much time creating our manuals to help musicians to know the project knowledge to completions you have set out to accomplish.

The following is a quick example on how easy it is to build with the Allan retaining wall products after the above foundations, environmental design, soil, material management, etc. have been determined. Visiting website at allanblock.com is a great resource for any question you may have as you proceed your project.

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### Build a small retaining wall

#### Step 1 - Base Preparation

1. **Mark Layout** - Start your layout, place stakes to represent the location of the front of the wall. Using a combination or points and wall panels, Davis was able to capture the essence of his dream, matched with reinforced concrete blocks. This prepares a clean, smooth, flat surface for placement of the next course.

2. **Check for Level** - Check the blocks for level frequently from side-to-side and front-to-back. Irregularities in course blocks from shifting while filling and compacting. Fill the hollow cores of the base blocks. This prepares a clean, smooth surface for placement of the next course.

3. **Install Reinforcement** - Reinforcement is needed behind the wall to accommodate the design length of the wall. Refer to our approved plans, for exact length.

4. **Height** - Staging at the lowest point, dig a base trench the length of the wall. Wells often be necessary. This step is required for sloping and retaining walls in the front of the wall. Sides at the bottom of the base trench must be firm and solid.

5. **Depth** - The depth of the trench will be 6 ft. (180 cm) plus an additional 1 ft. (30 cm) (for each ft, 30 cm) of wall height behind the amount of buried block that is needed.

6. **Base course** - For the amount of buried block that is needed.**

7. **Start** - From the 2nd course and above use a plate compactor to compact directly on the blocks. Use infill or approved on-site soils to backfill behind the wall to within 1 in. (25 mm) of the top of the wall. Use infill or approved on-site soils to backfill behind the wall. For information on finishing wall options see page 23 of our Residential Retaining Walls Installation Guide - Landscape Walls or our website - allanblock.com.

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### Step 2 - Base Material

1. **Trench** - From a pipe, cut any needed stone, gravel, asphalt, etc. over 2 in. (5.1 cm) of the block. Place the drain pipe at the lowest possible point toward the back of the trench and set it to drain dry. The drain pipe will have to be more than 8 in. (200 mm) of lift. For more information, see page 15 of our Residential Retaining Walls Installation Guide - Landscape Walls or our website - allanblock.com.

2. **Base Course** - Place a minimum of 6 in. (150 mm) of wall rock in the base trench and compact smooth.**

3. **Compact** - Compacting the base trench making a minimum of two passes with a plate compactor.

4. **Check for Level** - Check the entire length of the wall, and adjust as necessary.

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### Step 3 - Install Base Course - All B and AB Europa Collection

1. **Start Blocks** - Begin the base course at the lowest wall elevation. Place all blocks with the narrowest top lip facing away and forward on the base material near the front of the base trench. For all blocks, see page 25 of our Residential Retaining Walls Installation Guide - Landscape Walls or our website - allanblock.com.

2. **Check for Level** - Check and adjust each block for level and alignment as it is installed. Check the blocks for level frequently from side-to-side and front-to-back. Irregularities in the base course become larger as the wall stacks up. Central attention to a straight and level course will ensure a quality finished wall.

### Step 4 - Backfilling and Compaction

1. **Backfill** - Fill the area in front of the blocks with no-reinforced soils. The base will hold the blocks firmly in place while filling and compacting. Fill the hollow cores of the base course and 12 in. (300 mm) behind the wall with wall rock to the height of the block.

2. **Backfill Behind Wall Rock** - Use infill on your site wall to backfill the wall repeatedly.

3. **Compact - Use a plate compactor to consolidate the wall rock directly behind the block then compact a spillway on the spillway. For information, see page 25 of our Residential Retaining Walls Installation Guide - Landscape Walls or our website - allanblock.com.

4. **Check for Level** - Check the base course for level and adjust as necessary.

### Step 5 - Additional Courses

1. **Prepare Installed Course** - Remove all excess material from the top surface of installed blocks. The prepare a clean, smooth, flat surface for placement of the next course.

2. **Backfill** - From the 2nd course and above use a plate compactor to compact directly on the blocks. Use infill or approved on-site soils to backfill behind the wall to within 1 in. (25 mm) of the top of the wall. Use infill or approved on-site soils to backfill behind the wall. For information on finishing wall options see page 23 of our Residential Retaining Walls Installation Guide - Landscape Walls or our website - allanblock.com.

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### Use Knowledge to Install the Allan Block Products

#### Introduction panel

- Hi there!
- Welcome to BackyardBlock.com!
- You are making your dream a reality.
- Thank you for choosing Allan Block for your retaining wall project.
- We hope you have a beautiful landscape, but it did have potential.
- Allan Block® - the terraced retaining walls in the front, concrete blocks in the back, and entertaining landscape made the whole project that much sweeter.
- He dreamt it, built it, and now he gets to sit back and enjoy it.
- That is exactly what Roger Davis, a 67 year old retired firefighter, set out to construct a rubberized cloth and compact the base. The following is a quick example on how easy it is to build with the AB retaining wall products after the above foundations, environmental design, soil, material management, etc. have been determined. Visiting website at allanblock.com is a great resource for any question you may have as you proceed your project.

#### Front to Back

- Dig the base trench 24 in. (600 mm) wide the length of the wall.
- Remove soil, compact trench.
- Mark area & excavate
- Foundation soils at the bottom of the base trench must be firm and solid.
- Backfill wall rock and infill soils. Compact
- Level and align.
There are many things that go into building a retaining wall below the first shovel of dirt is moved. By using our Residential Retaining Walls brochure, Landscape Walls - or our website at allanblock.com - you can see the simple details in how to plan, design and build a perfect project. We have spent much time creating our manuals to help you to have the project knowledge to complete your project.

The following is a quick example on how easy it is to build with the AB retaining wall products after the details of wall height, reinforcement, design, soil, material source, etc. have been determined. "Viewing outside at allanblock.com is a great resource for any questions you may have as you complete your project."

**Step 1 - Base Preparation**

- **Mark Layout** - To start your layout, place stakes to represent the location of the front of the wall. Using string pins, mark out the entire length. A gage line is an excellent tool to lay out curved walls.

- **Excavation** - Excavate the area to the depth and width specified by your approved plans. The final excavation is to be the base trench width and height plus 12 in. (300 mm) for the wall rock, geogrid and reinforcement. Refer to your approved plans for exact length.

- **Check the base trench for level and adjust as necessary.**

**Step 2 - Base Material**

- **Installing rock** - Install a minimum of 6 in. (150 mm) of wall rock in the base trench before the base course begins. The base rock must be firm and solid. Use infill or approved on-site soils to backfill behind the wall rock in lifts of no more than 8 in. (200 mm). For A B Fieldstone, see page 28 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

- **Backfill** - Fill the hollow cores and 12 in. (300 mm) behind the block with wall rock to the height of the block. Use infill or approved on-site soils behind the wall rock in lifts of no more than 8 in. (200 mm).

- **Compact** - Backfill and compact in lifts of no more than 1 ft. (300 mm). See approved plans for location and specifications. For this information, see page 31 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

**Step 3 - Install Base Course - All AB and All Europa Collection**

- **Install Blocks** - Begin the base course at the lowest wall elevation. Place all blocks with the raised front lip facing up and forward on the base course near the front of the base trench. For all blocks, see page 25 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

- **Check for Level** - Check and adjust each block for level and alignment as it is installed.

**Step 4 - Backfilling and Compaction**

- **Backfill** - Fill the area in front of the blocks with on-site soils. This will keep the base course from shifting while filling and compacting. Fill to the height of the base course and 12 in. (300 mm) behind the wall rock. Be sure to daylight every 50 ft. (15 m). See approved plans for location and specifications.

- **Compact** - Use a plate compactor to consolidate the wall rock directly behind the block then compact a second pass, using the back of the block to the back of the excavated area with a minimum of 2 passes. For information on compaction, see page 20 of our Roadstone and Fieldstone brochure.

- **Check for Level** - Check the base course for level and adjust as necessary.

**Step 5 - Additional Courses**

- **Prepare Succeeding Course** - Remove all excess material from the top surface of installed blocks. The prepare a clean, smooth surface for placement of the next course.

- **Reinforcement** - Reinforcement is required every 10 ft. (3 m) along the wall. See approved plans for location and specifications. For this information, see page 31 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

- **Check for Level** - Check each course for level and adjust as necessary.лем

- **Backfill** - Fill the hollow cores and 12 in. (300 mm) behind the block with wall rock to the height of the block. Use infill or approved on-site soils behind the wall rock in lifts of no more than 8 in. (200 mm).

**Purpose** - This course is the height of the wall as specified by your approved plans. The top surface of installed blocks is the height of the wall as specified by your approved plans. For this information, see page 31 of our Residential Retaining Walls Installation Guide - Landscape Walls - or our website allanblock.com.

- **Check for Level** - Check each course for level and adjust as necessary.
AB Reinforcement Grid

Does Your Wall Need Reinforcement?

Determining if your wall needs to be reinforced or not is as important part of the wall design to ensure the project will be built properly and properly to its full capabilities. Using the chart below, your site information and proposed wall height, you can quickly see if you will need to reinforce. AllB RC Reinforcement Grid is easily incorporated into the build process of your project. Just follow our simple installation guidelines. AllReinforced Walls Insulation Guide – Landscape Walls - or on our website at allanblock.com.

All Reinforcement Grid is biaxial (strong in both directions) and can be simply rolled out along the wall. Other geogrids are uniaxial (强势 in only one direction) and must be installed running from the front of the block to the back of the excavated area.

Installing A B Reinforcement Grid is easily incorporated into the build process of your project. Just follow our simple installation guidelines located in our Residential Retaining Walls Insulation Guide – Landscape Walls - or on our website at allanblock.com.

Do You Want to Build Something?

But Don’t Know Where To Start?

So you are ready to become part of the Do-It-Yourself nation, but are not quite ready to tackle a large project? Then start small - Allan Block has a wide variety of projects that can be built in a weekend, everything from small borders or edging, tree rings, up to raised planters.

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Sign up at allanblock.com to receive the Allan Block Landscapes newsletter by e-mail.

#3,142,107 A B Courtyard Pat. U S Pat. #6,948,282 Canadian Pat. #2,432,660 A B Fieldstone U S Pat. #7,775,747, #5,623,797 & #6,948,282 Int’l & other patents pending DOC. #L0331-1211

Allan Block Landscapes

Do You Want to Build Something?

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Allanblock.com - Everything You Need All In One Place

Sign up at allanblock.com to receive the Allan Block Landscapes newsletter by e-mail.

#3,142,107 A B Courtyard Pat. U S Pat. #6,948,282 Canadian Pat. #2,432,660 A B Fieldstone U S Pat. #7,775,747, #5,623,797 & #6,948,282 Int’l & other patents pending DOC. #L0331-1211
### AB Reinforcement Grid

**Does Your Wall Need Reinforcement?**

Determining if your wall needs to be reinforced is an important part of the wall design to ensure the project will be built properly and perform to its full capabilities. Using the chart below, your site information and proposed wall height, you can quickly see what you’ll need. Installing AB Reinforcement Grid is easily incorporated into the build process of your project. Just follow our simple installation guidelines located in our Residential Retaining Walls Installation Guide – Landscape Walls - or on our website at allanblock.com.

If your project site does not fit within the conditions show in the Soil Reinforcement Chart below, or your project has any special characteristics or requirements, be sure to consult a qualified local engineer.

But Don’t Know Where To Start?

So you are ready to become part of the Do-It-Yourself nation, but are not quite ready to tackle a large project? Then start small – Allan Block has a wide variety of projects that can be built in a weekend, everything from small borders or edging, tree rings, up to raised planters.

By using our AB Courtyard products even more options are available for easy weekend projects. In a few hours you can build a light post, outdoor garden bench, an above ground pond or a fire pit. Or go one step further and start building your dream outdoor living space with our AB BBQ surround or a custom outdoor kitchen.

The possibilities are endless using our retaining wall or courtyard products.

Check out all of our great weekend project ideas at allanblock.com.

**Soil Reinforcement Chart for Residential Wall Applications**

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<th>SANDY SOIL</th>
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<th>SANDY SOIL</th>
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<td>3:1</td>
<td>100 psf</td>
<td>6 ft</td>
<td>1.8 m</td>
<td>1 ft</td>
<td>0.3 m</td>
</tr>
<tr>
<td>1.5</td>
<td>10 ft</td>
<td>3 ft</td>
<td>0.9 m</td>
<td>2 layers</td>
<td>2 ft</td>
</tr>
<tr>
<td>1.0</td>
<td>15 ft</td>
<td>4 ft</td>
<td>1.2 m</td>
<td>3 layers</td>
<td>3 ft</td>
</tr>
</tbody>
</table>

**Lock your wall in place with AB Reinforcement Grid from Allan Block.**

**Strong Walls Built Right!**

If your project site does not fit within the conditions shown in the Soil Reinforcement Chart below, or your project has any special characteristics or requirements, be sure to consult a qualified local engineer.

Allanblock.com has everything you need to plan, design and build your project – including complete installation details, installation videos, estimating tools, featured project photos, product information and much more.

Visit our photo gallery at allanblock.com to see a vast resource of different projects and ideas for all Allan Block products. When designing your project, make sure to use allanblock.com as your #1 resource!