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Heathstone’s mortarless design is ideal for low, vertical landscaping walls in garden and communal areas. It is often used to separate and highlight entertaining areas, BBQ areas, paths, garden beds, hedges, or to create and differentiate levels. Heathstone® is also suitable for constructing steps, planter boxes and for curved walls.
Gardenwall

With a textured rugged look, Gardenwall lets you create curved walls, steps, terraces and raised garden beds. No need for mortar or concrete footings, and no bricklaying skills are required.

Limestone

Parchment

Harvey Blend

Golden Sand

Golden Sand

Parchment

STRAIGHT WALLS
CURVED WALLS
STEPS
MAX. WALL HEIGHT 800mm

27.1 blocks/m²

TIP
When building to the maximum height of 800mm, it is necessary to start at a 500mm radius. This will ensure all additional courses fit neatly.
Landscape block

This simple, solid, bevelled concrete block is ideally suited for raised garden beds, low walls, low retaining walls, screen walls, planter boxes, garden edging, BBQs and many other similar applications. Compared to other similar products it is lighter, easier and safer to handle.
How to build your retaining wall

The instructions on these two pages are relevant for the construction of most types of retaining walls. For technical detail more specific to Heathstone®, refer to our Heathstone® brochure in branch or online.

Good to know before you start

- Retaining walls should not be installed above their maximum specified height or into cuttings where the base soil or backfill is not firm, or is of expansive clay.
- Never install where surcharge loading (e.g. buildings, driveways) will be located within one metre of the wall. Councils in general require walls - over 500mm in height and/or where there is loading, such as a car or house near the retaining wall, be designed and certified by a suitably qualified engineer.
- This is general information and should be viewed as a guide only. Midland Brick recommends you obtain building advice before commencing works.
- Please note, the width of blocks may vary by ±3mm. All weights and number of units per square metre are approximate only. Tested to Australian Standard AS4455.

You will need...

- To check as you go
- Gloves to protect your hands
- A shovel
- Eye protection (e.g. goggles)
- A spirit level to lay units level
- Drainage material (e.g. 12-20mm clean, free draining granular material such as gravel or blue metal)
- Stakes and string
- An agricultural drain (e.g. 100mm subsoil pipe)
- A wheelbarrow
- Coarse sand for the leveling pad
- A hammer
- A small broom
- A mechanical plate compactor (optional)

<table>
<thead>
<tr>
<th>Heathstone® maximum wall heights</th>
<th>MAXIMUM COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For walls</td>
</tr>
<tr>
<td></td>
<td>without gravel</td>
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<tr>
<td></td>
<td>fills to all</td>
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<tr>
<td></td>
<td>voids and cores</td>
</tr>
<tr>
<td>Poor soils – including sands,</td>
<td>2 (324mm)</td>
</tr>
<tr>
<td>gravelly clays, sandy clays and</td>
<td></td>
</tr>
<tr>
<td>silt clays</td>
<td></td>
</tr>
<tr>
<td>Average soils – including well</td>
<td>3 (486mm)</td>
</tr>
<tr>
<td>graded sands and gravelly sands</td>
<td></td>
</tr>
<tr>
<td>Good soils – including gravels,</td>
<td>4 (648mm)</td>
</tr>
<tr>
<td>sandy gravels and crushed sandstone</td>
<td></td>
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</tbody>
</table>

Typical Heathstone® cross section

Typical Gardenwall cross section

Note: Backfill should be no higher than the top of the retaining wall.
1. Check with your local council
You should consult with your local council for design regulations prior to the construction. Councils generally require, and we recommend, retaining walls higher than 500mm and walls located near surcharge loading such as a house or a roadway be designed and certified by a qualified engineer.

2. Calculate how many blocks required
To calculate the approximate number of blocks, use our online blocks calculator, or multiply the length by the height to determine the area (m²) then simply multiply m² by the number of units per m².

How to calculate your wall area
This area is simply calculated by:
Length (m) x Height (m) = Area (m²) for basic square or rectangular spaces. (Where m = metres).

TIP
It is often worth ordering extra blocks to allow for cutting (usually an extra 5%). And don’t forget to specify colour and type of units required. Example: (A) Gardenwall 0.7m high x 10m long = 7m² x 27.1 blocks = 190 blocks + 5% = 200

For odd shapes break your area into sections

<table>
<thead>
<tr>
<th>1.5m</th>
<th>2m</th>
<th>45m</th>
<th>3m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5m x 0.8m</td>
<td>1.2m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0m x 0.6m</td>
<td>1.2m²</td>
<td></td>
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<tr>
<td>3.0m x 0.45m</td>
<td>1.35m²</td>
<td></td>
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<tr>
<td>Total</td>
<td>3.75m²</td>
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</table>

Heathstone corner units
To calculate the number of Heathstone corner units, simply count the number of courses (max 6) you intend laying and multiply by the number of 90-degree corners your retaining wall requires.

For capping units, multiply the total length (m) of the wall by 2.27.

3. Prepare the site
Thoroughly level and prepare the area for the base or foundation course. Remove any roots, debris or soft earth. Create a shallow trench by levelling the ground and tamping down the earth to a flat and level finish. Compact by either manually tamping or using a mechanical compactor. Fill the trench with coarse sand or road base if required, then compact and level until it forms a 100mm levelling pad (so that your first course will be partially sunken).

4. Locate your wall
Mark out the location with stakes and a string line or a line on the ground with spray paint. Take caution when building near boundary fences. Never install where surcharge loading (eg. buildings, driveways) will be located within 1 metre of the wall.

5. Lay the first course
Place blocks side by side and align on the levelling pad using a string line along the back of the units. Level each unit side-to-side and front to back using your spirit level.

We recommend you place black builders plastic along the back of the wall. This will help reduce the flow of water draining through to the front and cut down the effect of efflorescence (harmless white powdery deposit).

If required, install appropriate agricultural drainage behind the first course and surround with gravel or to specifications provided by a qualified engineer. Agricultural drains may be required if soil has poor drainage.

TIP
Spend time on levelling the first course units otherwise all following courses and ultimately the entire wall will not be level.

6. Backfill and compact
If required, place drainage material (12-20mm sized gravel) to 150mm wide behind your first course. Shovel and compact the backfill (existing site soil) behind the drainage material. Please note: Backfill should be no higher than the top of the retaining wall (see Gardenwall Cross Section).

TIP
Make sure the backfill/site soil is good draining soil and compacted well. If you don’t, you may find water will build up behind your wall and weaken the construction.

7. Additional courses
Sweep the top of each course clean. Place the next course in a half bond pattern (ie. with the vertical joints from the previous course halfway across the next course units).

Continue laying each following course as previous half bond. You will need to backfill at least every alternate course. Continue stacking units and backfilling until complete.
For more information about Midland Brick

Call us on 13 15 40
Visit our website at midlandbrick.com.au
Drop into a Midland Brick Selection Centre or Reseller

Selection Centres

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Middle Swan
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Osborne Park
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Wongan Hills
Overland Freight
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York Landscape Supplies
(08) 9641 2300

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