



**Building
Products**

*Experience, value and service
is our commitment to you.*

Retaining Wall Products



BCP Building Products

18 Kirkcaldy Street Bathurst NSW 2795

Phone 02 6331 2777

Fax 02 6331 6510

sales@bcpbuildingproducts.com.au

www.bcpbuildingproducts.com.au

Garden Lockstone

The Garden Lockstone retaining wall system is for general purpose applications up to 1.5m high. The advantage of Garden Lockstone is no mortar is required and can be used in straight or curved wall designs.

Check your local council for construction of retaining wall requirements. They may require engineering details.



Laying Instructions

Construction is dependent on footing type and wall height. (Please refer to engineer's drawing). We recommend using a Capping Block to complete your project. Capping Blocks are available in Bull Nose Cap, Split Face or Smooth Face. A retaining wall can be constructed of all hollow Garden Lockstone blocks when the maximum wall height is 1 metre. Walls above 1 metre require a concrete footing and should be constructed entirely of solid blocks.

METHOD 1:

Sand Footing

Recommend solid blocks be used on the first course, hollow blocks for remaining courses and capping course on top.

METHOD 2:

Concrete Footing

Recommend hollow blocks be used on all courses and capping course on top.

Choose your footing type then calculate the number of solids, hollows and capping blocks required. End Blocks (straight sides) are used at the end of the wall where exposed or at right angle corners. **Remember the first course is half buried below the ground.**

Example:

A wall 15.6m in length and 910mm high
 $15.6 \text{ divided by } 0.39 = 40$
 $910 \text{ divided by } 130\text{mm} = 7 \text{ courses plus cap}$

The number of blocks required is below:

	Hollows	Solids	Caps
Method 1	240	40	40
Method 2	280	N/A	40



Dimensions

Standard Block (L) 390mm, (H) 130mm, (D) 230mm
Coverage 19.72 blocks per square metre

Capping

Bull Nose (L) 390mm, (H) 65mm, (D) 230mm
Split Face (L) 400mm, (H) 65mm, (D) 240mm
Smooth Face (L) 390mm, (H) 40mm, (D) 190mm

COLOUR – PLEASE SEE COLOUR CHART ON BACK PAGE

Charcoal | Cream | Limestone | Macquarie | Earth Apricot | Evans

Clipstone retaining wall is an interlocking system for general purpose applications up to 960mm in height. The advantage of Clipstone is no mortar is required and is ideal for straight wall designs.

Check your local council for construction of retaining wall requirements. They may require engineering details.



Laying Instructions

Construction is dependent on footing type and wall height (Please refer to engineer's drawing)

We recommend using a capping block to complete your project. Capping blocks are available in Bull Nose Cap, Split Face or Smooth Face.

Example:

A wall 19.5m in length and 640mm high.

$19.5 \text{ divided by } 0.39 = 50$

$640\text{mm divided by } 160\text{mm} = 4 \text{ courses plus a cap.}$

The number of blocks required are 200 blocks and 50 caps

Dimensions		Capping	
Standard Block	(L) 390mm, (H) 160mm, (D) 190mm	Bull Nose	(L) 390mm, (H) 65mm, (D) 230mm
Corner Block	(L) 390mm, (H) 160mm, (D) 190mm	Split Face	(L) 400mm, (H) 65mm, (D) 240mm
Coverage	16.2 blocks per square metre	Smooth Face	(L) 390mm, (H) 40mm, (D) 190mm

COLOUR – PLEASE SEE COLOUR CHART ON BACK PAGE

Charcoal | Cream | Limestone | Macquarie | Earth Apricot | Evans

Panorama and Sofala Retaining Wall

The Panorama and Sofala walls are BCPs double-sided dry stack retaining wall system.

The unique system allows you to show split face one side and smooth the opposing. Including features such as quoining on corners or random smooth blocks in a split face surface, this product allows for personalised design finishes. This comes with a bull nose and split face capping option.

Engineer-designed, self-locking lugs and corner blocks allow for ease of construction resulting in an exceptionally stable and professionally finished wall.



- Vertical dry stack – no step back
- Double faced – split face one side, smooth face on opposing side of block
- Wall height engineered to 1200mm core filled on concrete footing
- Wall height engineered to 800mm with zero core fill, compacted and stabilised based only
- Versatility in construction as block can be laid with locking lugs up or down, top course must be inverted to allow flat surface to affix bull nose capping.
- Universal corner block with 1 x split end and side, 1 x smooth end and side per block.

Example: Panorama

A wall 20m in length and 600mm high.
 $20 \text{ divided by } 0.4 = 50$
 $600\text{mm divided by } 200\text{mm} = 3 \text{ courses plus a cap.}$
 The number of blocks required are 150 blocks and 50 caps

Example: Sofala

A wall 20m in length and 640mm high.
 $20 \text{ divided by } 0.4 = 50$
 $640\text{mm divided by } 160\text{mm} = 4 \text{ courses plus a cap.}$
 The number of blocks required are 200 blocks and 50 caps

Panorama			
Dimensions		Capping	
Standard Block	(L) 400mm, (H) 200mm, (D) 230mm	Bull Nose	(L) 390mm, (H) 65mm, (D) 230mm
Corner Block	(L) 400mm, (H) 200mm, (D) 200mm	Split Face	(L) 400mm, (H) 65mm, (D) 240mm
Coverage	12.5 blocks per square metre		
Sofala			
Dimensions		Capping	
Standard Block	(L) 400mm, (H) 160mm, (D) 230mm	Bull Nose	(L) 390mm, (H) 65mm, (D) 230mm
Corner Block	(L) 400mm, (H) 160mm, (D) 200mm	Split Face	(L) 400mm, (H) 65mm, (D) 240mm
Coverage	15.6 blocks per square metre		

COLOUR – PLEASE SEE COLOUR CHART ON BACK PAGE

Panorama: Charcoal | Cream | Limestone

Sofala: Charcoal | Cream | Limestone | Macquarie

Retaining Wall Instructions

Important Information For All Retaining Wall Construction

It is recommended site suitability be checked by a qualified engineer.

The product design assumes no ground water to be present. For site conditions where ground water exists it is recommended the engagement of an engineer and/or use of suitable moisture control barriers and/or sealers.

- Set out and mark wall position
- Dig footing trench 350-400mm wide x 140-160mm deep
- Make sure trench is level. For sloping sites trenching might require stepping. (Stepping is required at 390mm spacing and up or down 130mm increments to avoid cutting blocks)

IMPORTANT: Make sure the first course is level to ensure remaining blocks position together correctly.

Use string line along back of blocks to ensure alignment.

- Concrete Footing**
 - Pour concrete approx. 75mm deep and level off
 - While concrete is wet lay the first course of blocks with retaining lug down into the concrete
 - Level each block (side to side from back to front)
 - Sand Footing**
 - Clean out loose dirt then compact. Fill trench with course layer of sand material 80-100mm deep and level.
 - Place first layer of blocks into sand, lug side down and bed down using a rubber mallet.
- Position agricultural drain behind first course being sure there is sufficient fall allowing water to flow from one end to the other.
 - Cover drain with gravel or free draining sand to top of first course to width of 200-300mm (see engineer's drawing)
 - Sweep off loose dirt from the top of first course

You are now ready to lay the next course

- Place lug of second course behind the first course. To obtain the bond pattern; ensure you position the vertical joint of the first course centred on second course block. If wall is vertical at the ends use a solid end block. Cut a solid end block into half for use every second course.
- After the second course is laid, shovel gravel or free draining sand behind wall and compact.
- Repeat these steps until you are ready to lay the capping blocks. Glue capping block down to final course with a construction adhesive.

Note: When building curves remove extreme of locking lug wing with a hammer. Use protective eye wear.



Concrete Sleepers

BCP Concrete Sleepers offer a cost-effective method for your retaining wall needs.

The added benefit, unlike many timber products, is that our sleepers don't rot or warp because they are manufactured with reinforced coloured concrete.

As part of our sleeper retaining wall system, we offer galvanised C Channel and H Channel posts cut to length.



Construction Method

Check your local council for construction or retaining wall requirements. They may require engineer details. **We recommended referring to our engineer's drawings before any retaining wall construction.**

Construction of your wall may vary and could be dependent on different site conditions.

Clear and level your site where you intend to build the retaining wall.

Place a star piquet or peg at both ends of the proposed wall and attach a string line. This will keep your wall aligned while you are constructing.

Starting at one end mark the post positions on the ground and then dig the post-hole

Concrete the posts in at the designated height and check they are level. We recommend concreting posts into place with bagged concrete mix or ordering pre mixed concrete from your local supplier. Allow for a slight variance in length when setting out your post spacing.

Slide the sleepers between the channels. Place an agriculture drain as per the engineer's drawings and backfill.

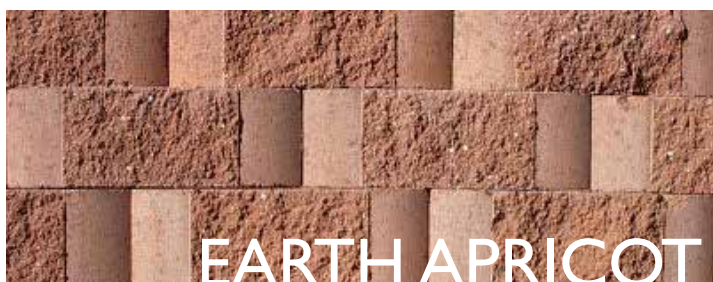
IMPORTANT

- Please note post heights are only a guide and different soil types could result in revised post lengths.
- A key part of the construction of any retaining wall is the backfill. Please ensure free draining course material is used in conjunction with an agriculture drain.
- Make sure that the first course is level to ensure the remaining sleeper's position together correctly.
- Always where possible start at the lowest section of the wall if working on a sloping site. This will enable you to position the base course accurately so as not to leave any gaps visible between the bottom of the wall and your intended surface adjacent to it.
- On flat sites, partially bury the first course below the surface into a shallow trench filled with bedding material such as coarse sand. Using a rubber mallet bed the sleepers into place firmly and evenly.

Sleeper Dimensions: 1775mm x 185mm x 75mm | Weight 52kg approx.

Finish: Woodgrain & Rockface

COLOURS: Charcoal | Cream



Made to order.



Made to order.

Please note: Colours may vary between batches.



Notes

BCP Building Products

18 Kirkcaldy Street Bathurst NSW 2795

Phone 02 6331 2777

Fax 02 6331 6510

sales@bcpbuildingproducts.com.au

www.bcpbuildingproducts.com.au



WE DELIVER TO ALL AREAS