

EXPLORER

CONCRETE SLEEPERS

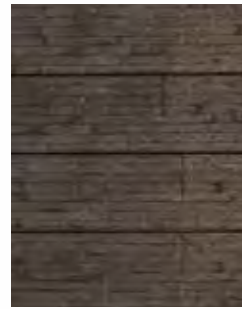
retaining wall system



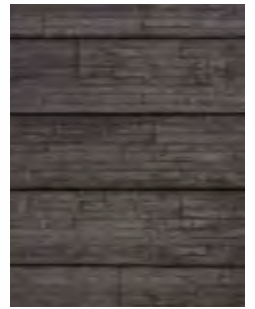
COLOURS & FINISHES

SLATE

create a unique finish



Oak



Charcoal



SLATE UNIT

Size:

1580 L x 200 H x 75 T mm - 58kg
2000 L x 200 H x 75 T mm - 72kg

SANDSTONE

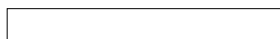
sandstone block finish



Natural



Graphite



SANDSTONE UNIT

Size:

1580 L x 200 H x 75 T mm - 58kg
2000 L x 200 H x 75 T mm - 72kg

TIMBERLOOK

create a timber finish



Ironbark

Gumtree

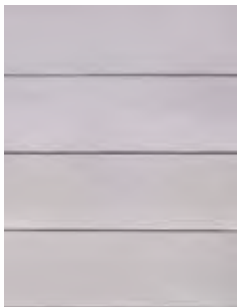


TIMBERLOOK UNIT

Size:
1580 L x 200 H x 75 T mm - 51kg
2000 L x 200 H x 75 T mm - 66kg

SMOOTH

simple and understated



Grey

Charcoal



SMOOTH UNIT

Size:
1200 L x 200 H x 75 T mm - 45kg
1530 L x 200 H x 75 T mm - 53kg
2000 L x 200 H x 75 T mm - 72kg



DESIGNED TO **LAST**

All Explorer Reinforced Concrete Sleepers are 200mm high and 75mm thick, and include internal reinforcing so they're solid, strong, and dependable. Available in a variety of lengths, and a range of finishes, they're adaptable to almost any project.

The Explorer range offers matching galvanised post system which makes design and installation easy – just draw out your wall, count your posts and select your sleepers - it's that easy!

CODE COMPLIANT

Explorer exceeds AS4678 requirements and satisfies the National Construction Code.

LOW MAINTENANCE

With Explorer sleepers there is minimal maintenance required to keep your retaining wall looking good.

DESIGNED TO LAST

The Explorer range is offered with a 35 Year product warranty and 60 Year design life. When built to engineers specifications Explorer walls are rated to 5kPa.

RUST, ROT AND TERMITE RESISTANT

Explorer sleeper products wont rust, rot or corrode and are termite resistant.

HOT DIPPED GALVANISED POSTS

Steel posts are hot dipped galvanised to satisfy AS/NZ4680 and ensure long lasting performance.



Code compliant



Low maintenance



Designed to last



Rust, rot and termite resistant

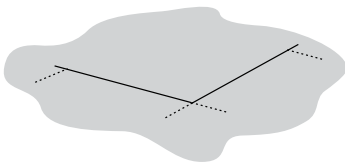


Hot dipped galvanised posts



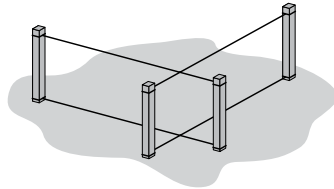
CONCRETE SLEEPER

INSTALLATION OVERVIEW



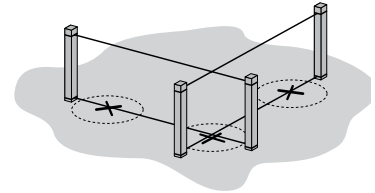
1. PREPARE THE AREA

Clear and level your site where you plan to build the retaining wall. Ensure you leave 300mm behind the retaining wall area for backfill.



2. ALIGNMENT

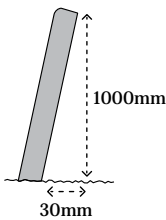
Place a star piquet or peg at both ends of the proposed wall. Attach two string lines, top and bottom, to keep your wall aligned.



3. MARK THE HOLE POSITIONS

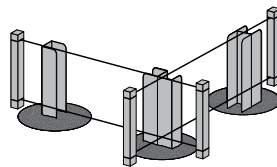
Starting from one end of the wall, mark a cross on the ground at intervals with their centre being approximately 20mm more than the length of the sleeper.

For example: If you are using 1530mm sleepers the hole centres should be 1550mm apart – note, this will vary on the length of sleeper used.



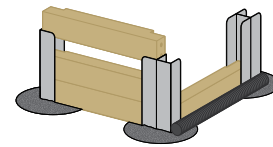
4. AUGER HOLES AND POUR CONCRETE

- Auger holes as per your engineers specifications as approved by council.
- The hole depth should be an extra 200mm deeper than the wall height to allow the concrete to encase the steel post.
- Make the concrete stiff. If using readymix concrete, order 20/20, 80 slump.
- Pour concrete into holes, one at a time.
- Set your post by lowering into ground until level with the top string lines.
- Ensure there is a minimum lean back of 30mm for every 1.0m in height.



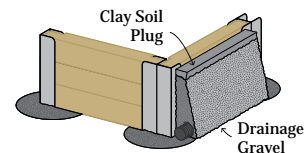
5. CHECKING POSTS

- Use a spirit level to make sure all your posts are aligned with the string line and are perpendicular on the sides.
- It is also important to measure the remaining distance to the top of your steel posts, to ensure the sleepers finish flush with the top of the posts.
- If required, lay a concrete pad on both sides of the steel post to create a level surface on which to place your concrete sleepers.



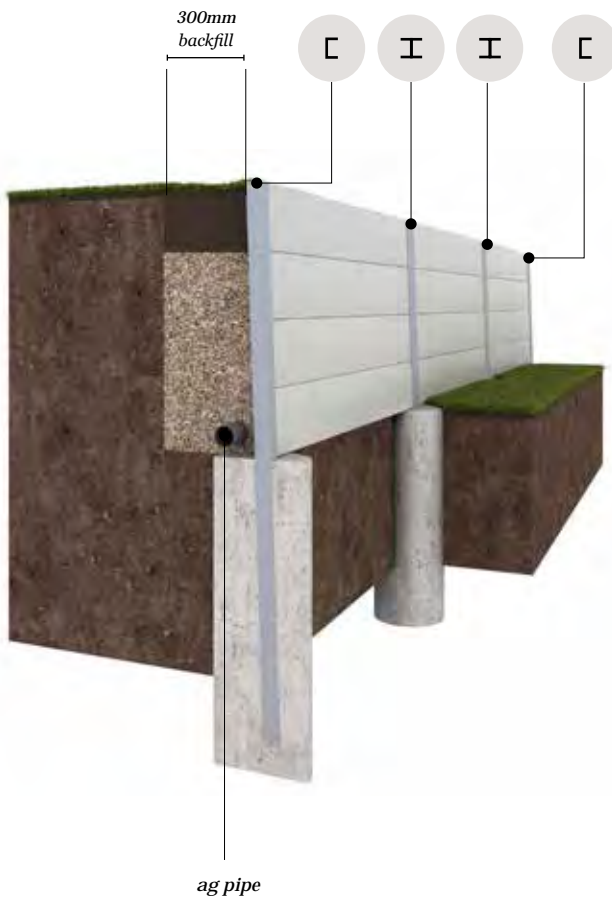
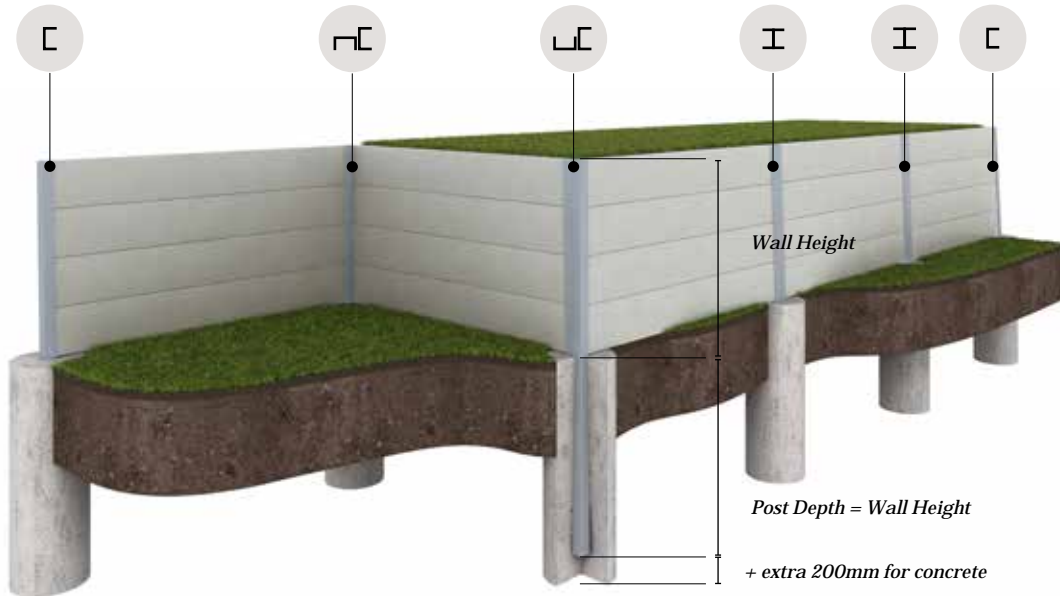
6. AG PIPE AND BACKFILL

Allow the concrete to cure for two to three days before placing your sleepers. Place ag pipe at the base, then backfill with gravel to 200mm from the top.



7. SOIL PLUG OR FILTER FABRIC

A soil plug or filter fabric is compacted over the drainage layer to prevent silt intrusion.



Post types

C	Ender
rC rC	2 x Enders
I	Joiner

NOTE:

Retaining walls must be designed to AS4678

Most councils require that any retaining walls over 0.8m in height from natural ground level are subject to building approval.

Any retaining wall that is less than 1.5m away from a building or other retaining wall also requires building approval.

GENERAL DESIGN GUIDE FOR 5KPA SURCHARGE

Wall Height	Sleeper Length (Max.)	Post Size (Mm)	Post C/C Spacing	Post Length
0.4m	2.00m	UC100	2020mm	1.15m
0.6m	2.00m	UC100	2020mm	1.15m
0.8m	2.00m	UC100	2020mm	1.55m
1.0m	2.00m	UC100	2020mm	1.95m
1.2m	2.00m	UC100	2020mm	2.35m
1.4m	1.53m Smooth	UC100	1550mm	2.75m
1.6m	1.53m Smooth	UC100	1550mm	3.15m
1.8m	1.53m Smooth	UC100	1550mm	3.55m
2.0m	1.53m Smooth	UC150	1550mm	3.95m
1.4m	1.58m Sandstone and Timberlook	UC100	1600mm	2.75m
1.6m	1.58m Sandstone and Timberlook	UC100	1600mm	3.15m
1.8m	1.58m Sandstone and Timberlook	UC100	1600mm	3.55m
2.0m	1.58m Sandstone and Timberlook	UC150	1600mm	3.95m

Please note. The above table does not allow for the additional load of attached Colorbond fences. Additional design criteria is required to allow for their wind loads.

POSTS AND BRACKET RANGE

Post Type	Wall Height	Post Height	Post Type	Wall Height	Post Height
100UC Joiner 15kg/m	0.4m	1.15m	100PFC Ender 8.5kg/m	0.4m	0.8m
	0.6m	1.15m		0.6m	1.2m
	0.8m	1.55m		0.8m	1.6m
	1.0m	1.95m		1.0m	2.0m
	1.2m	2.35m		1.2m	2.4m
	1.4m	2.75m		1.4m	2.8m
	1.6m	3.15m		150PFC Ender 18kg/m	1.6m
1.8m	3.55m	2.0m	4.0m		
150UC Joiner	2.0m	3.95m			

Bracket	Fence Type	Bracket Size	Bracket	Fence Type	Bracket Size
Straight	Colourbond	580mm x 100mm x 3mm	Offset	Colourbond	580mm x 187mm x 3mm
	Timber	580mm x 100mm x 6mm		Timber	580mm x 187mm x 6mm



Offset Fence Bracket

Straight Fence Bracket

Joiner

Ender

Bracket thicknesses of 3 or 6mm are available

DISCOVER OUR **RANGE**

COLOURED MASONRY BLOCKS AND BREEZE BLOCKS

Our extensive range of architectural masonry products are available in a range of sizes, formats, and finishes from Austral Masonry and GB Masonry.

GREY MASONRY BLOCKS

Austral Masonry offer an extensive range of sizes and formats with light weight options available in selected locations.

CONCRETE PAVERS

For commercial and residential applications, our range includes a collection of sizes, textures and a plethora of colours.

ENGINEERED STONE PAVERS

Offered exclusively from UrbanStone, the engineered stone range of pavers are the pinnacle in quality and style.

NATURAL STONE

Granite and Limestone flooring, and natural stone wall cladding are style solutions created by nature and perfected by UrbanStone.

PORCELAIN STONEWARE*

Created in Italy by Keope Ceramiche, our porcelain stoneware collection is the epitome of style, designed to suit indoor and outdoor applications.

RETAINING WALLS

Choose from concrete retaining wall blocks or concrete sleepers suitable for DIY, general landscaping or large scale commercial retaining wall applications.

LIMESTONE BLOCKS*

The engineered limestone and natural limestone block range is sourced through quarries in Western Australia with two finishes available to complement the natural limestone colour.

PREBLENDED MORTAR AND ACCESSORIES

From Mortex preblended mortar, to concrete sealers and mortar additives, Austral Masonry offers a host of installation accessories.

** These products are stocked in selected locations.*



australmasonry.com.au | 1300 627 667

NATIONAL OFFICES

Queensland

184 Burnside Rd
Yatala 4208

New South Wales

44 Clunies Ross St
Prospect 2148

Victoria

Brickmakers Dr
Wollert 3750

South Australia

201 Greenwith Rd,
Golden Grove 5125

Western Australia

27 Jandakot Rd,
Jandakot 6164

DESIGN STUDIOS

Brisbane

27 James St,
Fortitude Valley
4006

Sydney

2 Barrack St
Sydney 2000

Melbourne

367 Collins St
Melbourne 3000

Adelaide

70 Hindmarsh
Square
Adelaide 5000

Tasmania

9 Franklin Wharf
Hobart 7000

Perth

67 King St
Perth 6000

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The product images in our brochures give a general indication of colour for your preliminary selection.
We also recommend you view current product samples before making your final selections.