Concrete Sleeper Retaining Walls & Accessories



- Explorer





Both subtle and sleek, Explorer was crafted to blend in to any project whether it be commercial or residential.



Colours





Grey | Smooth

Charcoal | Smooth





Graphite | Sandstone

Ironbark | Timberlook



Charcoal | Slate



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Natural | Sandstone





Gumtree | Timberlook

Explorer Concrete Sleeper Sizes

Each of our sleeper finishes is available in a range of sizes to suit your project and design. Please see the sizes available for each finish below.

Sizes		
Explorer 200 1200L*	Explorer 200 1530L*	Explorer 200 1580L**
Size: 1200L x 75W x 200H mm	Size: 1530L x 75W x 200H mm	Size: 1580L x 75W x 200H mm
Weight (each): 40kg	Weight (each): 49kg	Weight (each): 50kg
Explorer 200 2000L^	Explorer 400*	Explorer 600*
Size: 2000L x 75W x 200H mm	Size: 2000L x 75W x 400H mm	Size: 2000L x 75W x 600H mm
Weight (each): 67kg	Weight (each): 145kg	Weight (each): 218kg



Explorer 1000*

Size: 2000L x 75W x 1000H mm

Weight (each): 362kg

^ Available in all finishes * These types are only available in smooth finish **Available in all finishes except smooth

Explorer Post & Bracket Range

We offer an extensive range of galvanised posts and fence brackets which are designed to complement our concrete sleeper collection.

Post Types



Size: please see sizes in the tables below



Joiner with Deformed Bar Size: please see sizes in the tables below

Post Type	Wall Height	Post Height	Post Type	Wall Height	Post Height
	0.4m	1.15m		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
100UC Joiner with deformed bar	1.2m	2.35m		1.2m	2.4m
	1.4m	2.75m		1.4m	2.8m
	1.6m	3.15m		1.6m	3.0m
	1.8m	3.55m	_	1.8m	3.4m
	2.0m	3.95m		2.0m	3.6m
150UC Joiner with deformed bar	2.0m	3.95m	150UC Joiner	1.6m	3.0m
	2.2m	4.35m		2.0m	3.6m
	2.4m	4.75m		2.2m	4.0m
	2.6m	5.15m		2.4m	4.4m
	3.0m	5.95m		2.6m	4.8m
100PFC Ender	0.4m	0.8m			
	0.6m	1.2m			
	0.8m	1.6m			
	1.0m	2.0m			
	1.2m	2.4m			
	1.4m	2.8m			
150DEC Endor	1.6m	3.0m			
150PFC Ender	2.0m	4.0m			



Straight Fence Brackets

Offset Fence Brackets





Ender

Size: please see sizes in the tables below



Straight Fence Brackets

Colorbond Fence 580L x 100W x 3T mm Timber Fence 580L x 100W x 6T mm

Offset Fence Brackets

Colorbond Fence 580L x 187W x 3T mm Timber Fence 580L x 187W x 6T mm

*Please note: Fence brackets are not suitable for use in cyclonic areas. Nuts and bolts are included with each bracket.

Build Concrete Sleeper Retaining Walls



For example: If you are using 1530mm sleepers the hole centres should be 1560mm apart – note, this will vary based on the length of sleeper used.

- Pour concrete into holes.
- one at a time. Make the concrete stiff. If using readymix concrete,
- order 20/20, 80 slump. - 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.

Concrete sleeper walls for 5kPa walls

Design Details

Wall Height	Sleeper Length (Max.)	Post Size (Mm)	Post C/C Spacing	Post Length
0.4m	2.00m	UC100	2030mm	1.15m
0.6m	2.00m	UC100	2030mm	1.15m
0.8m	2.00m	UC100	2030mm	1.55m
1.0m	2.00m	UC100	2030mm	1.95m
1.2m	2.00m	UC100	2030mm	2.35m
1.4m	1.53m Smooth	UC100	1560mm	2.75m
1.6m	1.53m Smooth	UC100	1560mm	3.15m
1.8m	1.53m Smooth	UC100	1560mm	3.55m
2.0m	1.53m Smooth	UC150	1560mm	3.95m
1.4m	1.58m Sandstone and Timberlook	UC100	1610mm	2.75m
1.6m	1.58m Sandstone and Timberlook	UC100	1610mm	3.15m
1.8m	1.58m Sandstone and Timberlook	UC100	1610mm	3.55m
2.0m	1.58m Sandstone and Timberlook	UC150	1610mm	3.95m

Please note: The above table does not allow for the additional loading of Colorbond fences when they are clamped to the walls using fence brackets which will require additional design criteria to be considered.

Exclusion Zone

There must be an exclusion zone behind the wall at an angle of 45° – no structure can be placed within that exclusion zone. Zone of influence = height of the wall. Backfill must be placed and compacted in layers to not exert pressure on the wall due to consolidation over time.

Global stability and tiered wall design is excluded and should be assessed by a qualified Geotechnical engineer.

5.

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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 gravel to 200mm from the top. remaining distance to the top of your steel posts, to ensure the sleepers finish flush with the top of the posts.
- If required, lav a concrete pad on both sides of the steel post.

6.

Ag Pipe and Backfill Allow the concrete to cure for two to three days before you place your sleepers in. Place ag pipe at the base, then backfill with



to fill the wall to the top.

* Retaining walls must be designed to AS4678.

* Any retaining walls must be designed to 30-40 ro. * 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. 30

