DESIGNED AND MADE IN AUSTRALIA, PIONEER REINFORCED CONCRETE SLEEPERS ARE A PERFECT SOLUTION FOR TERMITE PROOF RETAINING WALLS.

AVAILABLE IN A LARGE RANGE OF COLOURS AND FINISHES.

PIONEER CONCRETE SLEEPERS
RETTAINING WALL SYSTEM

PRODUCT WARRANTY
35 YEAR

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.

How It Works

It’s as simple as 1, 2, 3! Follow the steps shown to purchase or order your product. If you need further advice, speak to a team member at the Special Orders Desk in-store.

1. Select The Product You Want

View the extensive range available in this brochure or online. Use the number/s shown below to order your product in-store.

2. Order at the Special Orders Desk

After you have selected the product you want, take this brochure to the Special Orders Desk.

3. Get It Home

Delivery to your home or site can be arranged in-store when purchasing your products

Please note minimum order values apply
Please check with Special Orders team member to confirm direct delivery lead times and cost.
INSTALLATION OVERVIEW

1. PREPARE THE AREA
   - Door and level your site where you plan to build the retaining wall. Ensure you leave 200mm behind the retaining wall area for benefits.

2. ALIGNMENT
   - Place a string line or peg at both ends of the proposed wall. Attach two string lines at each end of the wall, top and bottom, to keep your wall aligned.

3. MARK OUT HOLE POSITIONS
   - Starting from one end of the wall, mark a point on the ground at each 0.6m interval. However, the fence line must be spaced approximately 55mm more than the length of the sleeper.
   - For example: If you are using 1530mm sleepers, the hole centres should be 1580mm apart; note, this will vary on the length of sleeper used.

4. AUGER HOLES AND POUR CONCRETE
   - Auger holes as per your engineer’s specifications.
   - Pour concrete into holes, one at a time.
   - Place a star piquet or peg at both ends of the proposed wall.

5. CHECKING POSTS
   - A soil plug is then placed in, to fill the wall to the top.
   - Ensure there is a minimum headroom of 200mm for every 10m in height.
   - If required, lay 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 drainage in place. Place ag pipe at the base, then backfill with gravel to 200mm from the top.

7. SOIL PLUG
   - A soil plug is then placed in, to fill the wall to the top.

GENERAL DESIGN GUIDE FOR SKPA SURCHARGE

<table>
<thead>
<tr>
<th>WALL HEIGHT</th>
<th>SLEEPER LENGTH (MAX.)</th>
<th>POST SIZE (⌀)</th>
<th>POST C/C SPACING</th>
<th>POST LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>215mm</td>
</tr>
<tr>
<td>0.6m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>155mm</td>
</tr>
<tr>
<td>0.8m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>155mm</td>
</tr>
<tr>
<td>1.0m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>155mm</td>
</tr>
<tr>
<td>1.2m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>215mm</td>
</tr>
<tr>
<td>1.4m</td>
<td>1.50m</td>
<td>UC100</td>
<td>1500mm</td>
<td>275mm</td>
</tr>
<tr>
<td>1.6m</td>
<td>1.50m</td>
<td>UC100</td>
<td>1500mm</td>
<td>275mm</td>
</tr>
<tr>
<td>1.8m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>215mm</td>
</tr>
<tr>
<td>2.0m</td>
<td>2.00m</td>
<td>UC100</td>
<td>2000mm</td>
<td>215mm</td>
</tr>
</tbody>
</table>

* Retaining walls must be designed to AS4100-1998
* Mud cracks require that any retaining walls over 1.5m in height have adequate backfill
* Soil and water should be infiltrated into the ground
* Your post should be level to 1 in 20

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