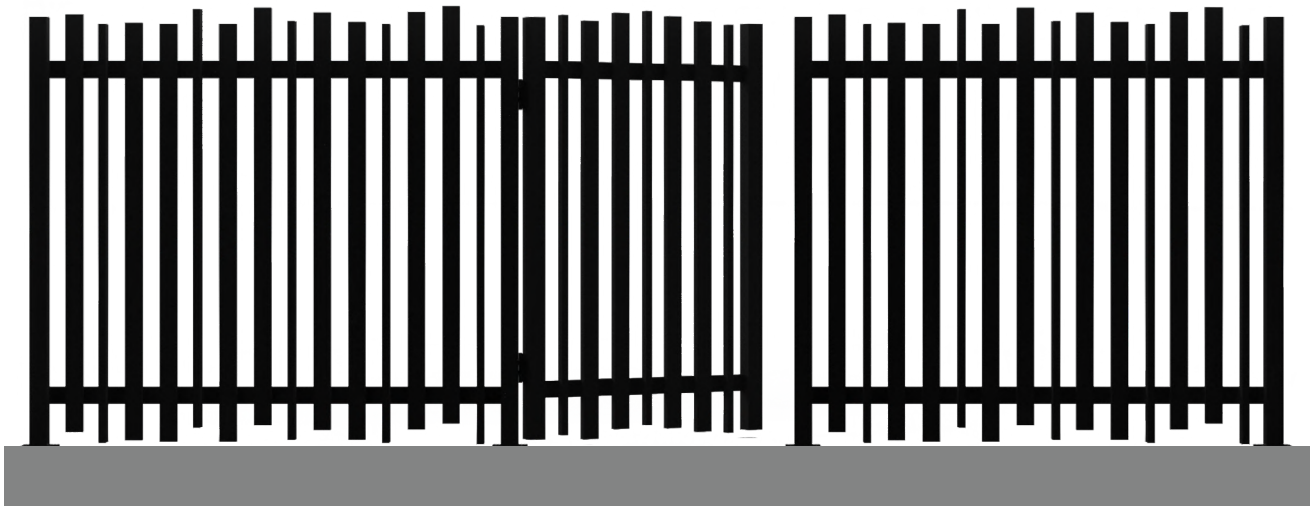




Aurora Panel Installation Guide



*Important

Please read this installation guide carefully before setting up your new fence. Setting out the fence accurately and correctly will be the difference between a good and a great result.

BelAire®
DESIGNER FENCING

...make it your own!

Introduction

Thank you for choosing one of our quality products. We are the industry leaders in panel fences. This product will provide you with years of trouble free protection if installed in accordance with these directions.

The recommendations detailed in this guide produced by BelAire are formulated along the lines of good building practice.

They are not intended to be an exhaustive statement of all relevant data. Further, as the success of projects depends on factors outside the control of BelAire (e.g quality of workmanship, particular design, detail requirements, ect), BelAire accepts no responsibility for, or in connection with, the quality of the projects or their suitability when completed.

If you are in any doubt, please seek independent advice or contact BelAire. We are always happy and available to answer questions regarding installation, no matter how small or insignificant you think they may be.

Technical and installation advice is available on 0800 235 2473

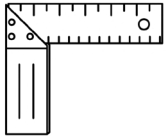
*Important

Throughout this installation guide, you will see important information boxes marked, like above.

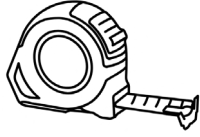
We recommend the reader pay particular attention to them to ensure a satisfactory installation and the long-term performance of the products.

Tools & Components

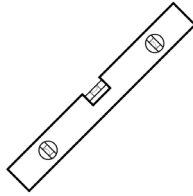
Recommended Tools.



Square



Tape Measure



Spirit Level



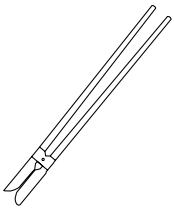
String Line



Rubber Mallet



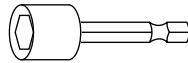
Shovel



Post Hole Digger



Line Marker Paint



Hex Driver bit



Cordless Drill



Angle Grinder



Drop Saw

Aurora Panel Components.



60x60mm
Inground Post



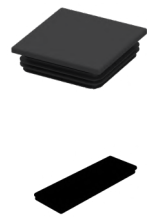
60x25mm
Slats



Slat Channel



Channel Cover

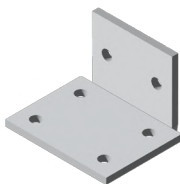


Post & Slat
Caps

Optional Components.



Channel cap



Corner Bracket



90x90mm
Inground Post



60x60mm
Flanged Post



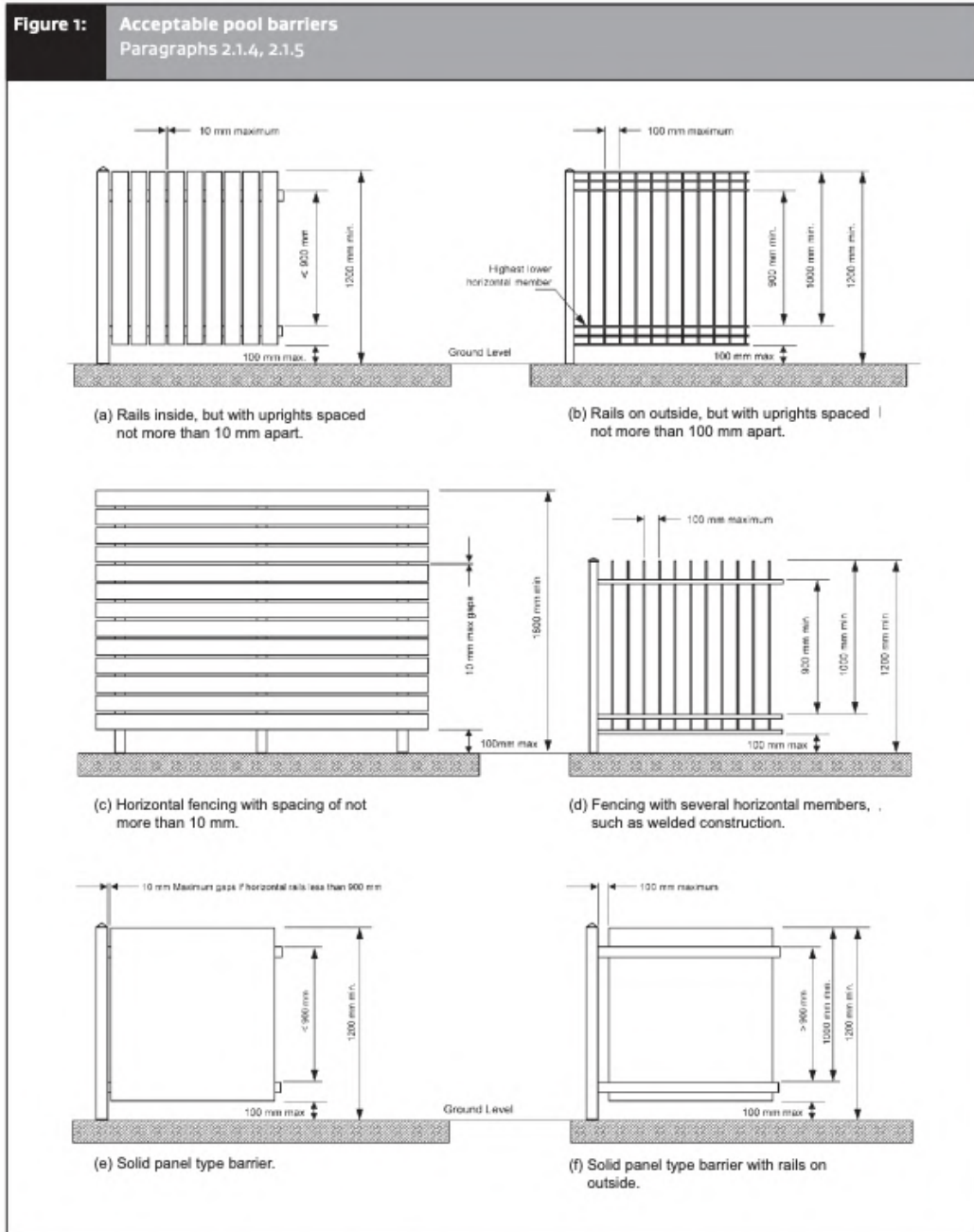
90x90mm
Flanged Post

F9 Compliance

Note - All Pool Panels must be assembled to comply with building code F9. See the following info on F9 compliance.

You can find the full document online here:

<https://www.building.govt.nz/building-code-compliance/f-safety-of-users/pool-safety>



Copyright in NZS 8500:2006 *Safety barriers and fences around swimming pools, spas and hot tubs* is owned by the Crown in right of New Zealand and administered by the New Zealand Standards Executive. Reproduced with permission from Standards New Zealand on behalf of the New Zealand Standards Executive under copyright licence LN001225.

Panel Layouts

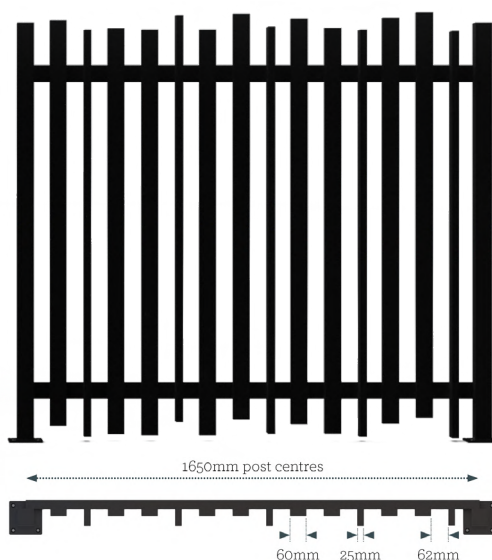
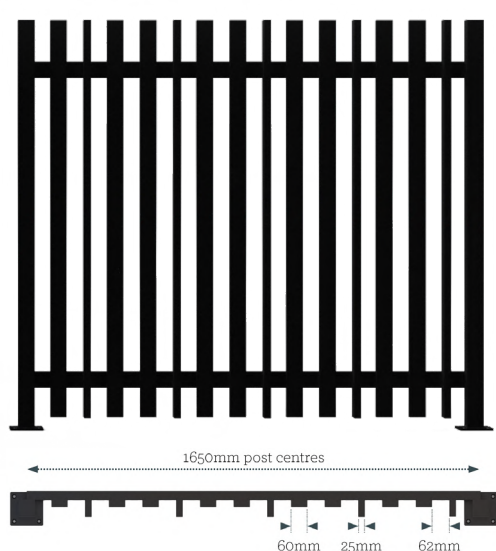
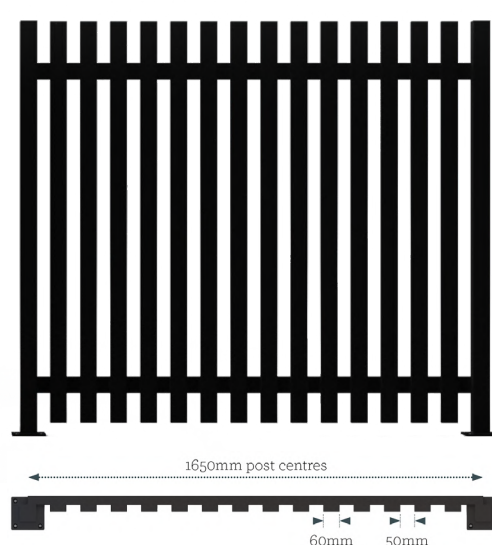
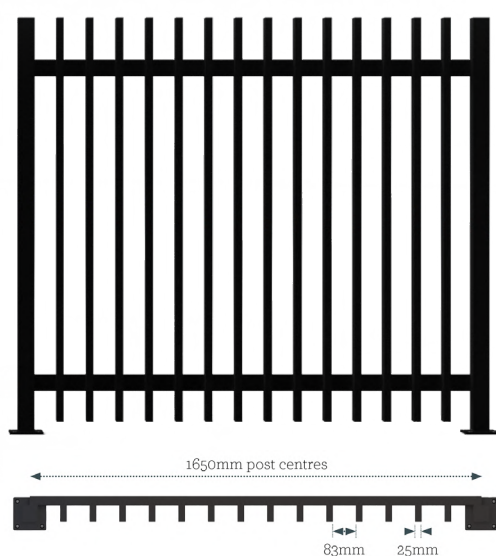
Step 1 - Determine the panel layout and style you desire.

Depending on the panel style you have chosen the slat spacing and orientation will vary. Using the images below you can determine the correct slat spacing and orientation for your chosen panel layout.

Aurora Pool/Balustrade Panels - 1650mm wide

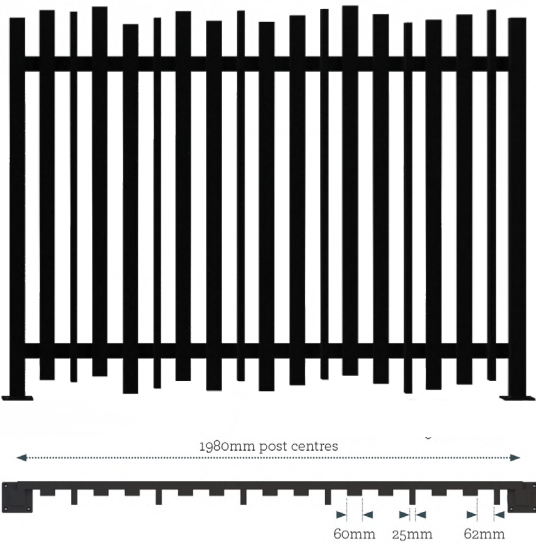
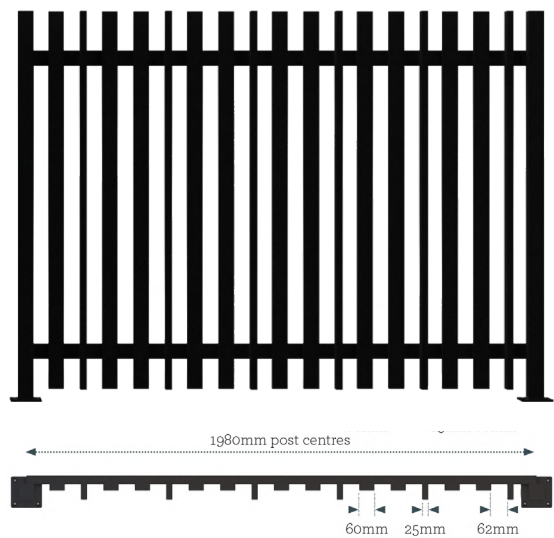
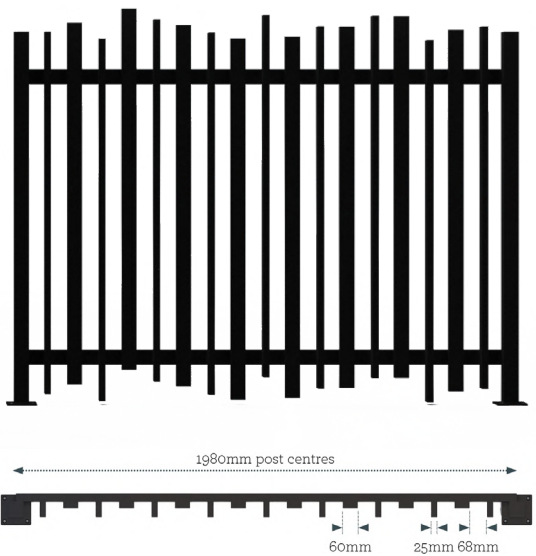
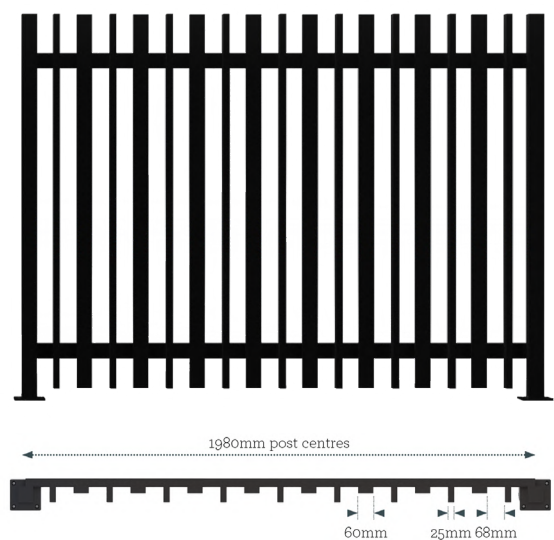
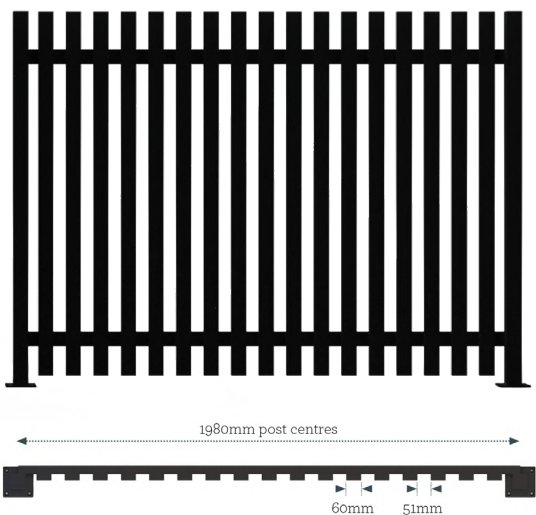
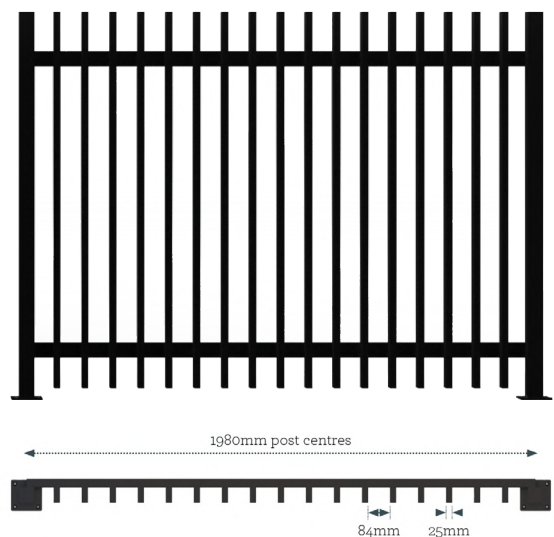
*Important

We recommend you take a photo or note down your chosen panels dimensions to easily referenced later in the installation.



Panel Layouts

Aurora Landscape Panels - 1980mm wide



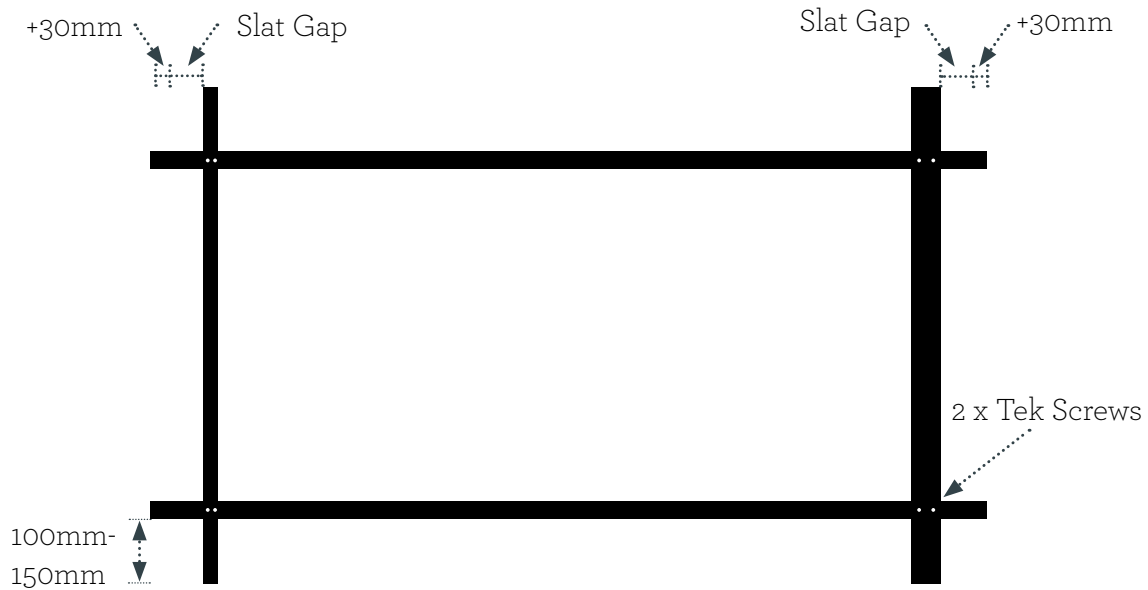
Panel Assembly

Step 2 - Making up the panels.

To start, lay out the two outside slats and fix them to the slat channels using two tek screws for each joint. Ensure the outer slats are the correct distance apart to allow for the right slat gaps for your chosen panel design.

Make sure to add 30mm to the slat gap on each side to allow the panel to be fixed to the post centres.

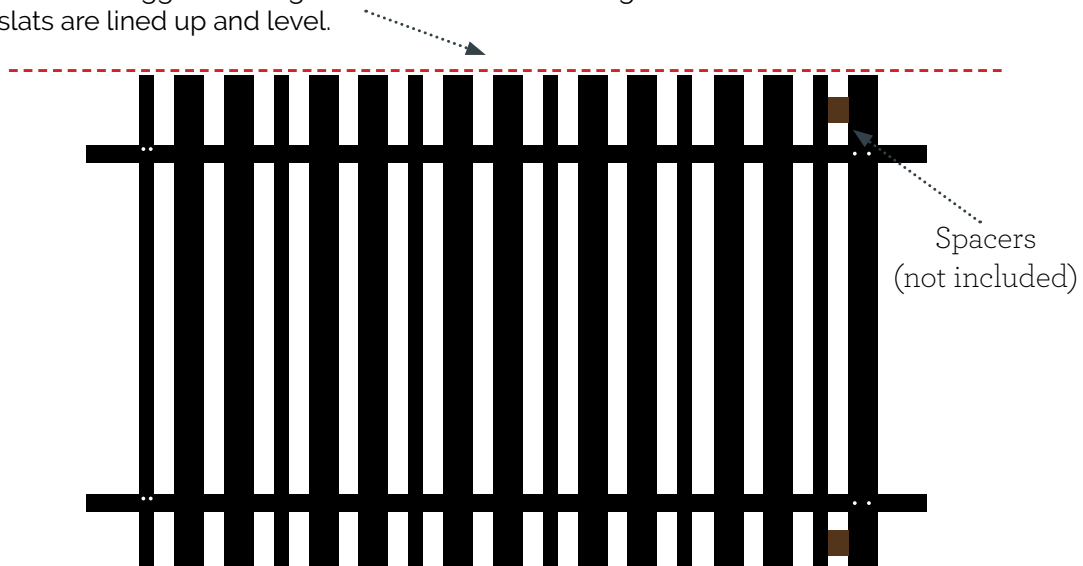
We recommend the slat channels be fixed 100-150mm in from the top and bottom of the slats. (see diagram below)



Once the two outer slats have been fixed in place, you can add and fix in place (with 2 x Tek screws) the rest of the slats, making sure they have the correct slat gaps for your chosen panel design. We recommend using a piece of wood or something that won't scratch to ensure the right spacing.

*Important

Unless you have chosen a staggered design make sure to use a string line to ensure the slats are lined up and level.

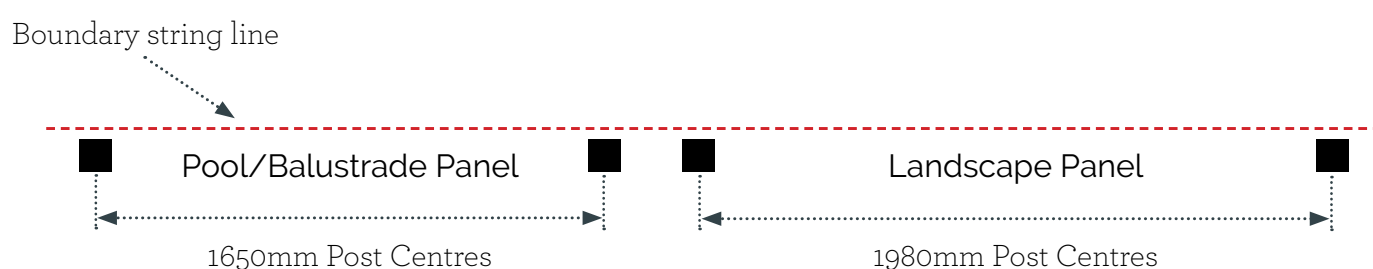


Post Installation

Step 3 - Determine boundary line, post hole depths & centres.

We recommend you first plan out your fence layout and post position on paper to know your measurements and prevent unnecessary mistakes and digging. Accurately determine the boundary line of where your fence will be installed (in some cases, a surveyor may be required); mark this with a string line as shown below.

Please Note: When you have a 90-degree corner, you will need to use a 90x90mm post.



Once you have your boundary line set in place you can begin to mark out your post centres, making sure to space them depending on what panel you have. 1650mm for pool/balustrade panels. 1980mm for landscape panels. (centre to centre)

To determine the depth of your post holes (if using inground posts), use the footing depth table below. If you are going through the council, please refer to the PS1 for post holes.

The diameter of your holes should be big enough to have a 75mm clearance around the post.

Fence Height	Hole Depth
900mm	450mm
1200mm	550mm
1500mm	600mm
1800mm	650mm
2100mm (90x90mm posts required)	700mm

*Important

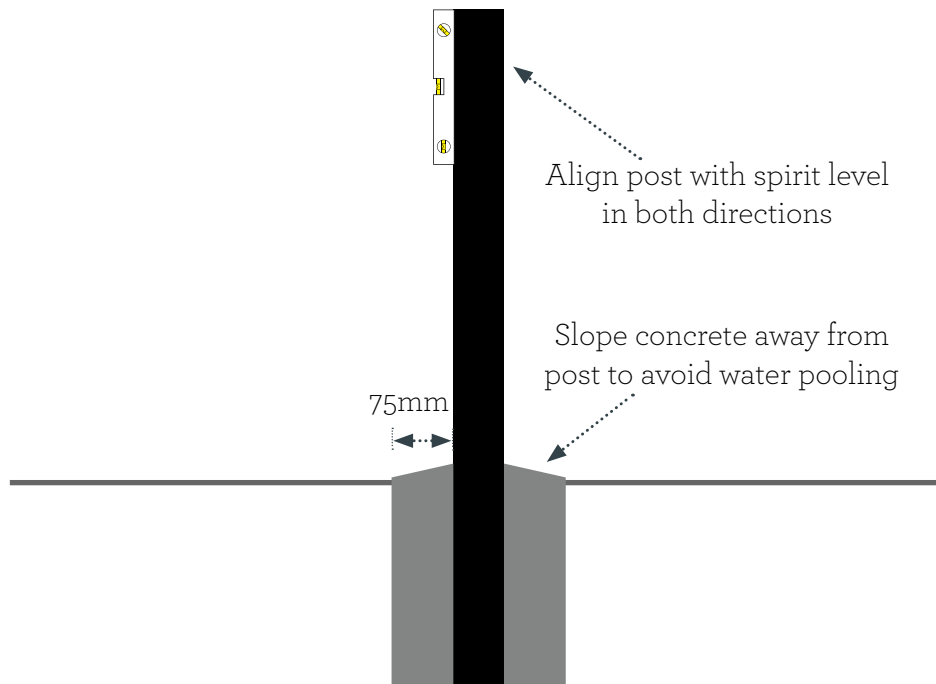
For fences higher than 2100mm, you will need engineering advice beyond the scope of this guide. Please contact BelAire directly for this information.

Inground Post Installation

*Skip to the next page if using flanged posts

Step 4(a) - Post setup & alignment.

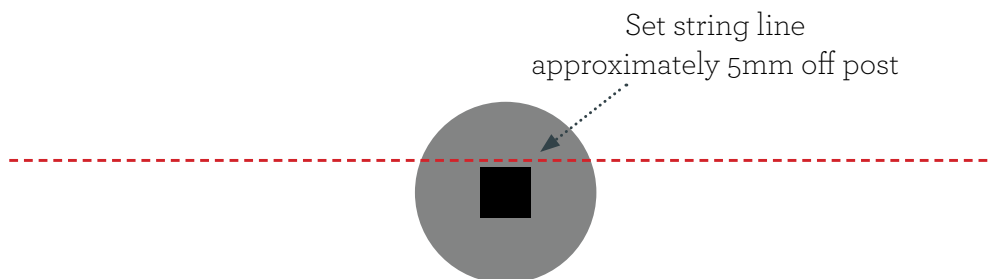
Working to your boundary string line, place your first post into the hole and gradually pour in concrete. Make sure to continually check the post alignment with a spirit level until the concrete begins to set.



*Important

Avoid using quickset concretes as they can be corrosive to aluminium posts.

Your string line should have a small clearance between the string and your post. if you always have your string line touching the post, you risk pushing it slightly every time, the result will be a curved fence.



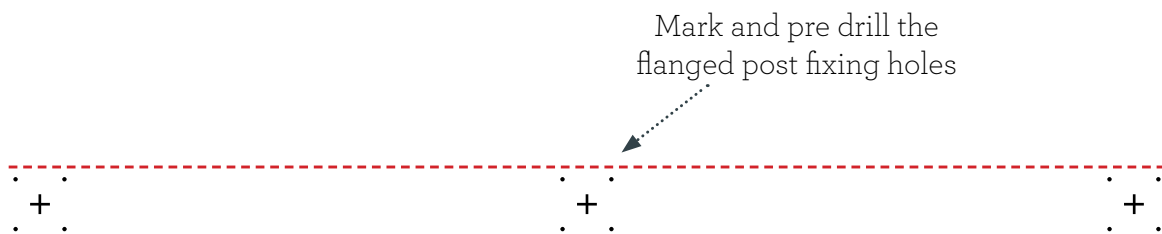
Flanged Post Installation

Step 4(b) - Post setup & alignment.

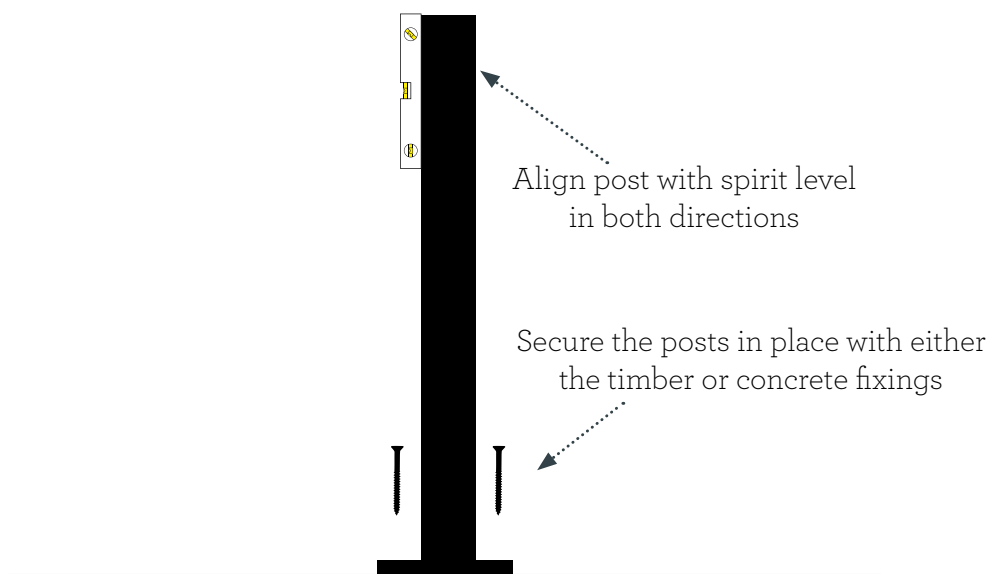
Working from your boundary string line, find your marked out post centres. Ensure these marks are correct. Failure to do so will cause unnecessary drilling into the surface.

Once you have located the post centres, place a flange base plate over this point, using the holes as a guide, mark the four drill holes for each post.

Using these marks, pre-drill the post holes and secure the posts down using the timber or concrete fixings depending on the surface you are installing the fence on.



Your string line should have a small clearance between the string and your post. If you always have your string line touching the post, you risk pushing it slightly every time, the result will be a curved fence.

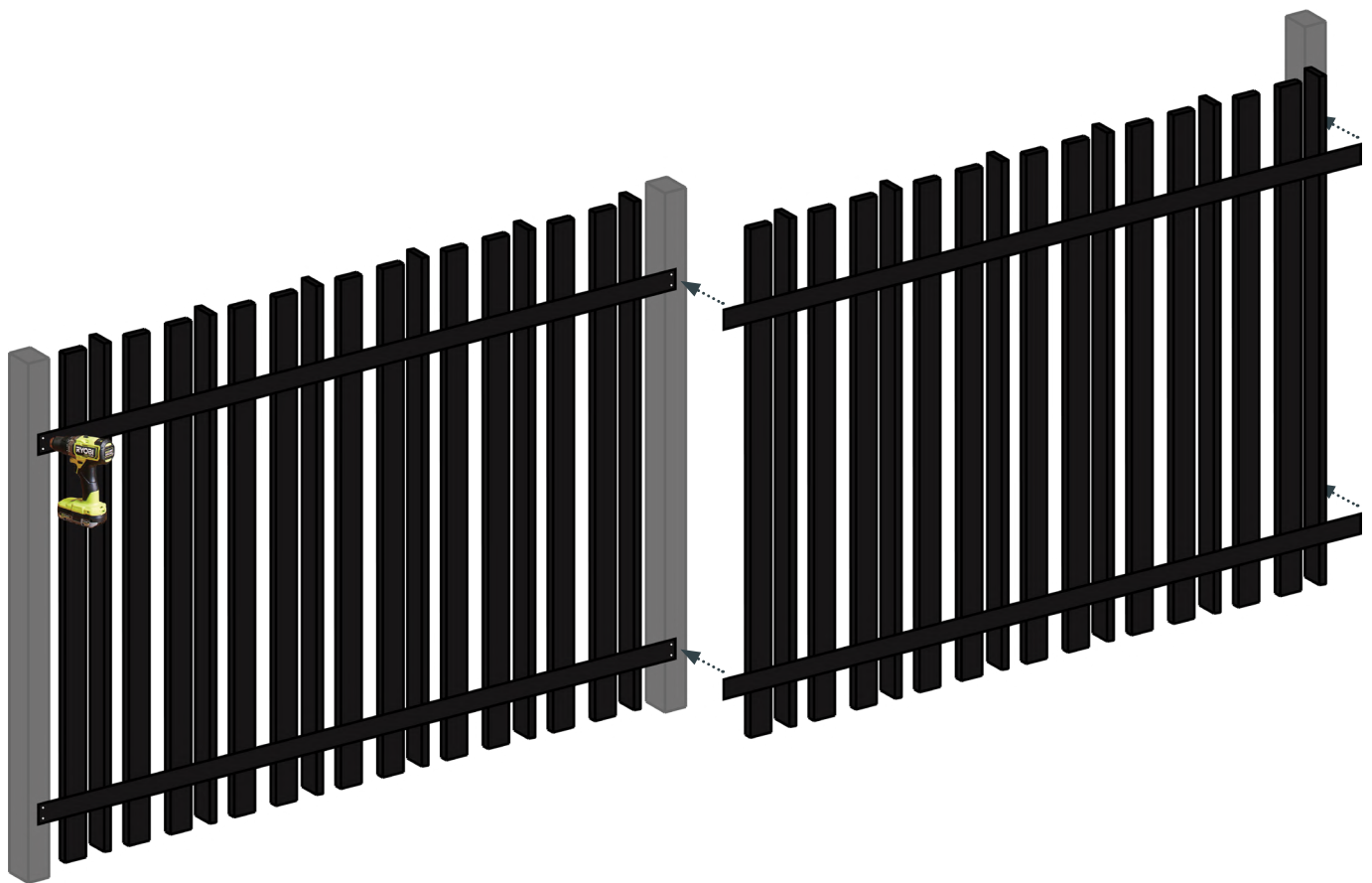


Panel Installation

Step 5 - Fixing the panels to the posts.

Once you have the posts in place, you can fix the panels onto the back of the posts using Tek screws. Hold the panel so the slats line up with the top of the post, then fix through the channel into the post.

Make sure to use 2 x tek screws for each joint.



*Important

For this part of the installation you will need two people. One person to hold the panels in place making sure they are level, and one person to fix the panels to the posts.

Corner Post Installation

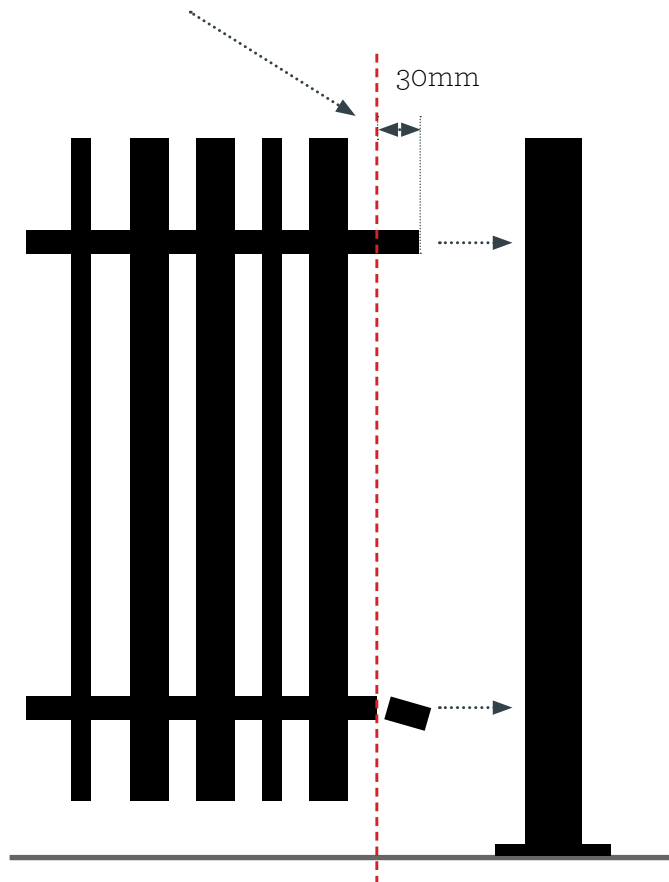
Step 6 - Fitting panels at a 90 degree corner.

When putting in a 90-degree corner, you must use a 90x90mm post and the provided brackets to mount the slat channel to the post.

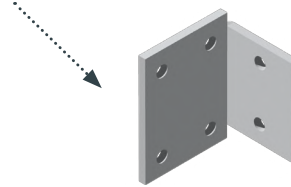
Slide the aluminum corner bracket into the slat channel, once the panel is up against the 90x90mm post, slide the corner bracket up against the post and fix into place with 2 x Tek screws as seen below.

If your channels are not the desired length, these will need to be cut, ideally with a drop saw, to obtain a nice clean cut without heating the aluminum and damaging the powder coating.

Trim the channels by 30mm so that after the final slat, the gap to the corner post is the same as the rest of the panel



Corner Bracket



Corner Bracket Fixed with 2 x Tek Screws



Capping Installation

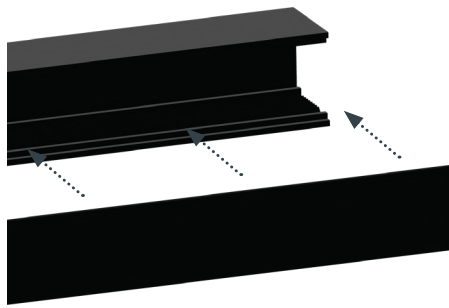
Step 7 - Inserting panel capping.

Once all your panels have been assembled and fixed to the posts you can install the channel covers, channel caps, post caps and slat caps.

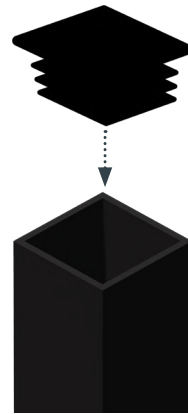
For the channel covers, ensure they are the same length as your channels before installing.

The easiest way to install the channel covers and the capping is with a rubber mallet. Get each piece in place then finish off slotting in place with a rubber mallet.

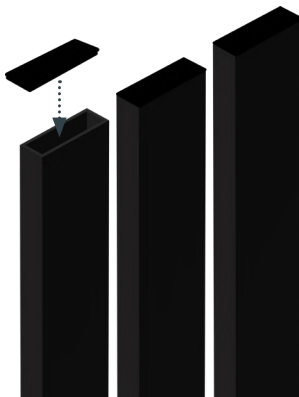
Work your way along the whole fence until all the covers and capping are secured, then your good to go.



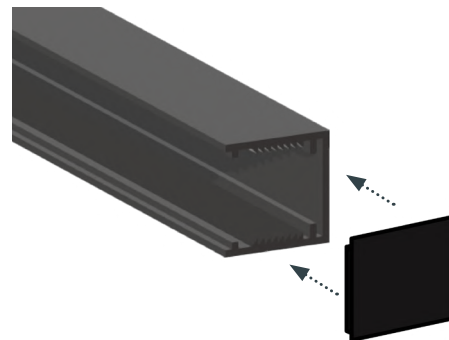
Channel Cover



Post Capping



Slat Capping



Channel Capping

*Important

It is important that you use something soft like a rubber mallet to tap in the covers and capping. Do not use a metal hammer. This will cause damage, scratches or dents

Congratulations your new Aurora Panel Fence is complete!

FAQ's

Can this be used as pool fencing?

Yes, this panel can be used as a pool panel, provided it is a minimum of 1200mm high and has no gaps larger than 100mm; also the horizontal channels need to be a minimum of 900mm apart. The bottom rail also needs to be a minimum of 1000mm from the top of the rail to the very top of the fence.

What is the best method to cut aluminium?

Using a drop saw will create a nice, clean square cut giving the best results. A grinder can also be used, provided you use a thin metal cutting blade to reduce the risk of burning the powder coating.

Can I change the spacing of my slats?

Yes, generally, we work on the standard gaps between slats, as shown at the start of the installation guide. depending on the level of privacy you require, you can close or open the gap to meet your preferred size. If you close the gaps, you will need to order additional slats.

Can this be installed in coastal areas?

We have a 10-year warranty on our products, which will not be applicable if you are installing within 0.25km of a coastal zone. However, if you are within 0.5km from the ocean, more cleaning and maintenance will be required, ideally once per season, with warm water, mild detergent and a soft brush. We do not recommend the product be in direct contact with salt water.

Can this be used as balustrade?

Yes, the Aurora panel is now available in a balustrade variant with four panel design. for more info visit www.belairefencing.co.nz

What do I do if I have 'hard water'?

Regular fence cleaning will be required to help prevent water spots from appearing. Hard water is corrosive to the powder coating. Therefore, neglect will cause deterioration to your fence.



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Warranty & Maintenance

☐ Tick to verify the fence has **not** been installed within 1.5m of a saltwater pool or 0.25km of the ocean (warranty will not be applicable if unticked)

Project location &
date of install _____

Name _____

Signed _____

Date _____

Warranty

This 10-year warranty form applies for both Pool/Balustrade & Landscape Aurora Panels that have **not** been installed within 1.5m of a saltwater pool or 0.25km of the ocean.
- All products must be installed according to the BelAire Instructions Guides.

Maintenance

- Cleaning the fences on a seasonal basis is required, using a soft brush and mild detergent.
-Do **not** use any harsh substances. (if your fence is within 1.5m of a saltwater pool or 0.25km of the ocean, a more frequent cleaning schedule will be required).
- Avoid using any fertilizers and garden chemicals near fences to limit chances of contact.
- If possible, avoid any soil and earth coming in contact with the fence.
- Be sure to slope all the concrete away from the posts to avoid water pooling around the base of the posts.
- If contact with salt water occurs, the fence must be washed down as soon as possible.
- Avoid leaning or stacking materials against the fence, this could cause misalignment.
- Do not set posts into quick-set concrete as the additives in these products can react with the aluminium posts.

Tel 0800 BELAIRE (0800 235 2473)

Email sales@belairefencing.co.nz

Web www.belairefencing.co.nz

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