



 Boundaryline

Sleek**Wall** Slat Install Guide

Contents

SleekWall Slat Fence Components	03
Important Information SleekWall Slat	04
Step 1 Establish Fence Line	05
Step 2 Installing Posts	06
Step 3 Establishing Slat Count	07
Extra Calculating Custom Spacings	07
Step 4 Attaching Slat Channels	08
Step 5 Fitting Slats	09
Step 6 Cover Clip and Channel Caps	10
Step 7 Centre Support for 2400mm Wide Panel	11
Vertical Conversion Conversion Guide	12
Vertical Conversion Attaching The Base	13
Vertical Conversion Fitting The Slats	14

Required Tools/Materials

- Tape measure
- Square
- Shovel
- Rubber Mallet
- Line Marking Paint
- String Line
- Spirit or laser level
- Drill/Driver
- Hex drive bit *5/16 driver*
- Auger/Post hole digger
- Circular Saw/Other Saw

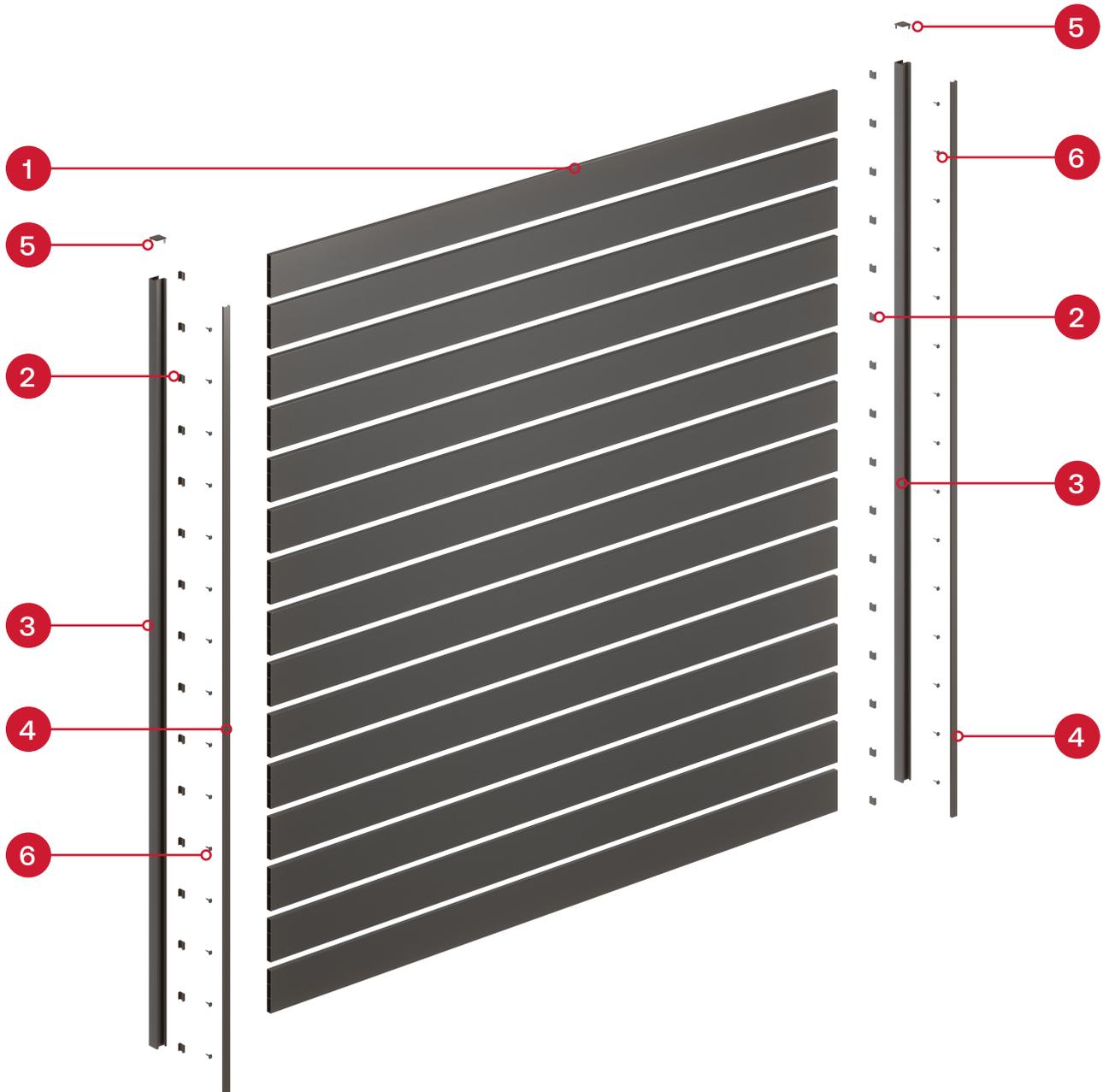
Safety Gear

- Safety boots
- Gloves
- Eye protection
- Hearing protection
- Sun protection

Carefully read through the entire installation guide before commencing any installation work. Ensure measurements are correct before cutting components.

SleekWall Slat Fence Components

Take care when opening and unloading the package. Ensure all components are accounted for and check it is all undamaged.



A complete SleekWall Fence System consists of:

<p>1. Slats 100x16x1780/2380mm</p>  <p>x15</p>	<p>2. Slat Spacer 18mm</p>  <p>x28</p>	<p>3. Slat Channels (left and right)</p>  <p>x2</p>	<p>4. Channel Cover Clip</p>  <p>x2</p>	<p>5. Channel End Caps (left and right)</p>  <p>x2</p>
<p>6. Tek Screws</p>  <p>x30</p>	<p>Centre Support Channel and Cover[†]</p> 	<p>Additional Slat*</p>  <p>x1</p>	<p>Additional Slat Channels and Covers*</p>  <p>x2</p>	

[†]Centre Support only required for 2400mm wide panel

*Additional components supplied if converting SleekWall to vertical orientation. Vertical conversion guide shown on [page 12](#).

65x65mm Posts and Caps supplied separately.

Important Information | SleekWall Slat

For guidance, information or advice, our technical team is available Monday to Friday, 7am to 5pm.
Call us on 0800 003 006, or email enquiries@boundaryline.co.nz

Installing SleekWall Slat vertically will have different post centre measurements to the horizontal orientation. Refer to the table on [page 05](#) for standard post centre measurements for SleekWall Slat Vertical.
The vertical conversion guide is on [page 12](#).

Compliance

Please refer to the SleekWall PS1 for full compliance details.

F9 (Safety for Residential Pools)

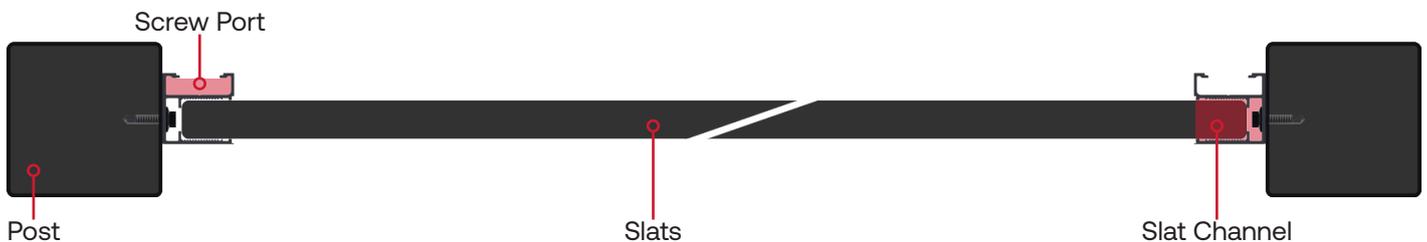
1200mm and 1500mm high SleekWall Horizontal Slat are **not compliant for F9**.

1800mm SleekWall Horizontal Slat and SleekWall Vertical Slat are compliant for F9 with adjustments to the size of the slat spacings and post centres. Refer to the SleekWall PS1 for guidance.

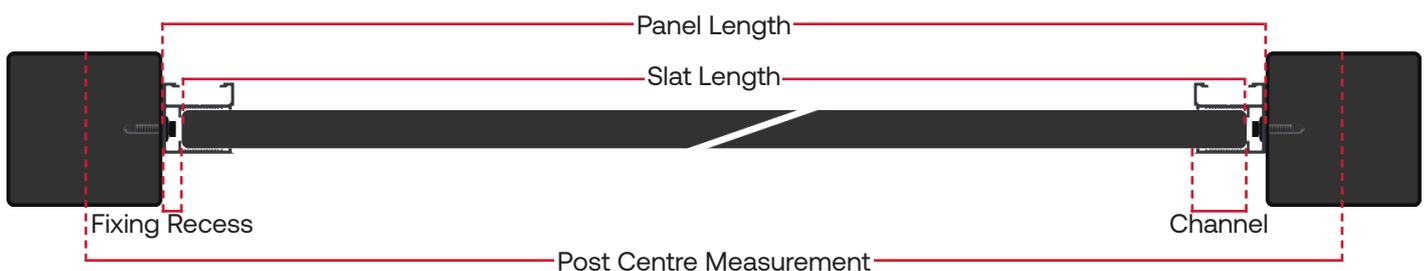
F4 (Safety From Falling)

SleekWall Slat Horizontal and Vertical are compliant for F4 at all heights, with adjustments to the size of the slat spacings and post centres. Refer to the SleekWall PS1 for guidance.

SleekWall Component References



SleekWall Measurement References



Step 1 | Establish Fence Line

1. Hammer a wooden peg (or similar) into the ground at each end of the fence line. These represent the start and end points of your fence. If there is a corner or a change in direction, put a peg in at each of those points too. *Fig. 1*



Fig. 1

2. Tie a string line to the first marker peg, keeping the string line just off the ground. Run the string line along the pegs, from the beginning peg to the end, keeping the string line taut and straight with no sag. *Fig. 2*



Fig. 2

3. Once the string line is in place, measure along the line and mark where the post centres will be located with spray paint or a marker peg. *Fig. 3*

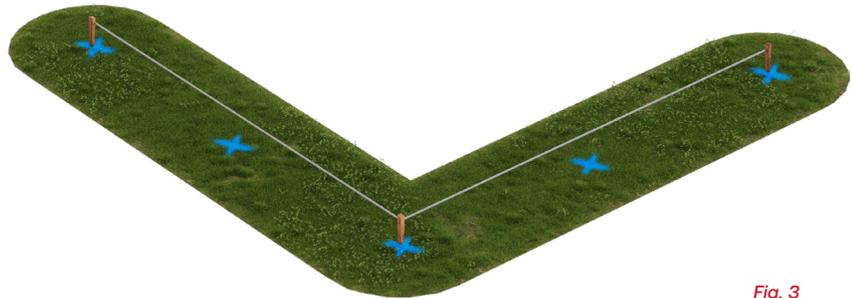


Fig. 3

4. To calculate standard SleekWall Slat post centres measure the slat length (1780mm or 2380mm as standard), add 65mm for the post size, and add 20mm to allow for the fixing recess space on both sides.

For standard vertical SleekWall Slat post centres, the bottom slat will need to be cut to 1755mm.

The slats can be cut down to achieve even bay spacing across the entire fence line, instead of ending up with one narrow bay one end.

TIP Lay out your posts and rails along the fence line to establish the post positions before commencing digging *Fig. 5*

Calculating Standard Post Centres SleekWall Horizontal

Slat length	+	Fixing Recess Space	+	Post size	=	Post centre
1780mm	+	20mm	+	65mm	=	1865mm
2380mm	+	20mm	+	65mm	=	2465mm

Calculating Standard Post Centres SleekWall Vertical

Bottom slat length	+	Fixing Recess Space	+	Post size	=	Post centre
1755mm	+	20mm	+	65mm	=	1840mm

Step 2 | Installing Posts

In-ground Posts

1. After marking post positions, dig the post holes. *Fig. 4*
2. Post hole depth will vary depending on ground conditions and fence height. All post holes should be at least 250mm in diameter, 600mm deep, and should be straight, with the sides either parallel, or wider at the bottom than the top. *Fig. 5*

Post Hole Depths:		
Soil type	Min. hole depth	Approx. required concrete (20kg bag)
Clay/Firm Earth	600mm	2 bags per post hole
Sand/Loose Fill	900mm	3 bags per post hole

3. Brace the post into position, ensuring it is straight and level. Ensure there is enough height to allow for the length of the slat channel, ground clearance (50-100mm is recommended) and an additional 10mm at the top for an external post cap.
4. Pour in the concrete, allowing at least 100mm of concrete below the post. Vibrate/compact the concrete to remove any voids.
5. Slope the top of the concrete to allow water to drain away from the post. *Fig. 6*
6. Check the posts are straight and level before the concrete fully sets.



Fig. 4

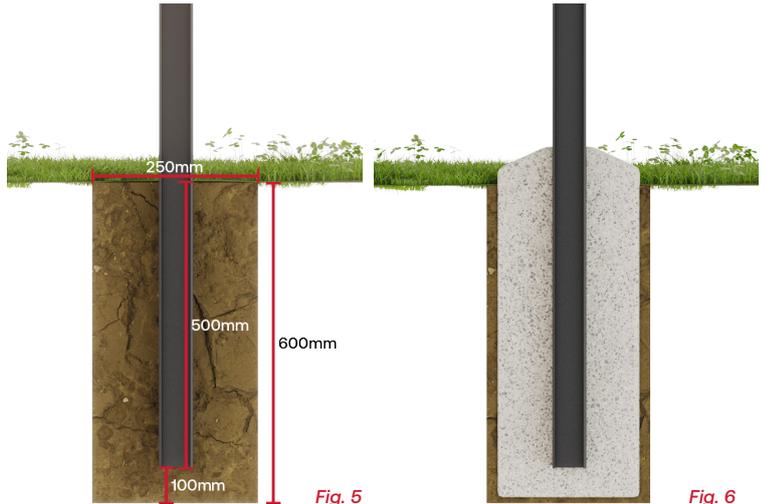


Fig. 5

Fig. 6

Recommended footing depths listed in the above table are for wind regions A and B, plus terrain categories 2.0, 2.5 and 3.

If you are building your fence in a cyclonic wind area, on top of a hill, adjacent to an escarpment, on a ridge or in terrain category 1, you will need engineering advice beyond the scope of this install guide.

Flanged Posts

1. Ensure the surface is firm, level and free of debris.
2. Align the posts along the surface.
3. Fix the posts into place using the correct type of fixings for the application.

Fixings (indicative)

In concrete: 4x M12 concrete screw bolts with minimum 70mm embedment

In timber: 4x 12mm coach screws with minimum 120mm embedment



Fixing details may vary for F4 or F9 compliance. Please refer to the Boundaryline PS1 for guidance.

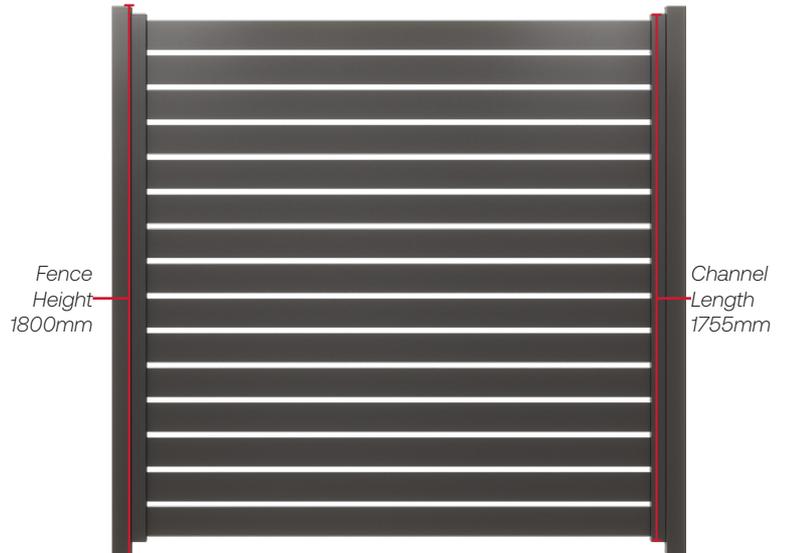
Step 3 | Establishing Slat Count

If installing slats vertically, see vertical conversion guide on [Page 12](#).

The slat channels are 1755mm long, and are designed to suit an 1800mm high fence. For shorter fence heights, the channels will need to be cut to the desired height.

18mm slat spacers are supplied as the standard spacings for the 1800mm high fence. If using the 18mm slat spacers, see the below table for the required channel length and slat count

Channel Length	Slat Count
808mm	7
926mm	8
1044mm	9
1162mm	10
1280mm	11
1398mm	12
1516mm	13
1634mm	14
1752mm	15



Extra | Calculating Custom Spacings

SleekWall can be installed without the supplied spacers by using a temporary spacer (e.g., a wooden block) to maintain consistent spacings between slats. This method also allows for customised spacings as required.

Spacings less than 5mm are not recommended as this can cause capillary action that can cause corrosion.

To find slat count for custom spacings:

1. Add the custom spacing size to the channel length
2. Add the custom spacing size to the slat height (100mm), then divide the channel length by this number.
3. This will give the final slat count. Rounding up or down may be required if it isn't a round number.

Examples for establishing slat count from custom spacing size

Fence Height	(Channel height <i>plus</i> desired spacing size)	÷	(Slat height <i>plus</i> desired spacing size)	=	Total slat count
1200mm	(1140mm + 10mm*)	÷	(100mm + 10mm*)	=	10 [†]
1500mm	(1440mm + 10mm*)	÷	(100mm + 10mm*)	=	13 [†]
1800mm	(1740mm + 10mm*)	÷	(100mm + 10mm*)	=	16 [†]

*Example spacing size.

[†]Slat count may not always be a round number. Rounding up or down may be required.

Indicated channel height relative to the total fence height allows for 10mm clearance above the channel for the post caps and 50mm below the channel for ground clearance.

Step 4 | Attaching Slant Channels

The slat channels are 1755mm long, and are designed to suit an 1800mm high fence. For shorter fence heights, the channels will need to be cut to size.

Use a drop saw or circular saw to cut the channels. These tools help prevent damage or burning the powder coat finish.

1. Measure and mark the correct position of the slat channels on each post. *Fig. 7*
Allow at least 10mm clearance at the top of the post to accommodate an external-fit post cap. *Fig. 8*
Allow 50–100mm clearance at the bottom of the fence. Use a string line or laser level to ensure consistent alignment across the fence line.

On sloping ground, the fence may need to be stepped to follow the contour of the site.

2. Each bay requires a left and right channel, which will mirror each other between the posts. *Fig. 9*
Ensure all channels have the screw port facing the same direction across all bays for a consistent appearance (typical installs have the screw port on the inside of the property).

3. Attach the slat channels to the posts using the provided tek screws, spacing them 300–400mm apart down the length of each channel. *Fig. 10*



Fig. 7

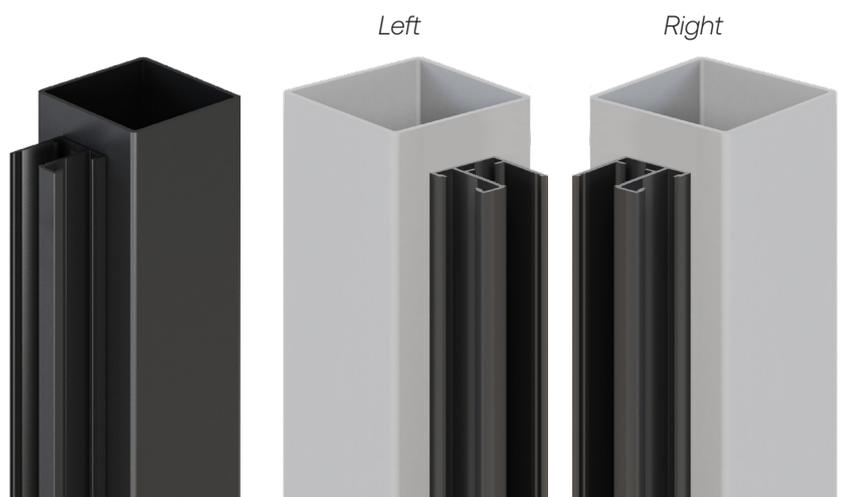


Fig. 8

Fig. 9



Fig. 10

Step 5 | Fitting Slats

For determining slat count see [page 07](#).

If installing as the vertical orientation, see the vertical conversion guide on [page 12](#).

1. Slide the first slat down into the bottom of the channels and fix into place at each end of the slat through the screw ports. *Fig. 11*
2. Fit the spacers into the slat channels above the slat on each side. *Fig. 12*
Or, if using custom spacing, sit the temporary spacers on the slat. *Fig. 13*
3. Slide in the next slat and fix into place. Follow with the next set of spacers. *Fig. 14*
If using temporary spacers, move to the next slat. *Fig. 15*
4. Continue to install up the rest of the channel, ensuring the slats remain parallel and level. *Fig. 16*

Recommended practice is to install all fence bays before attaching channel cover clips, as they are difficult to remove without causing damage if any adjustments to the fence are required.



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

Step 6 | Cover Clip and Channel Caps

Recommended practice is to get all fence bays installed up to this point before installing the cover clips as they are difficult to remove without causing damage to the components. This will give the opportunity to ensure the entire fence is even and aligned.

Once all the fence bays are installed:

1. Cut the cover clip to the same length as the slat channel if required. *Fig. 17*
2. Insert one edge of the cover clip into the channel. *Fig. 18*
3. Using a rubber mallet (or similar) firmly tap the other edge of the cover clip to clip it into place. Continue to tap the cover clip into place down the length of the channel.
It's important to use an object that won't damage the powder coat finish.

4. Once the channel cover clip is in place, the channel caps can be inserted into the top of the channel, and the posts caps added to the posts. *Fig. 19*
A left and right channel cap are supplied for each bay for their respective channels.



Fig. 17

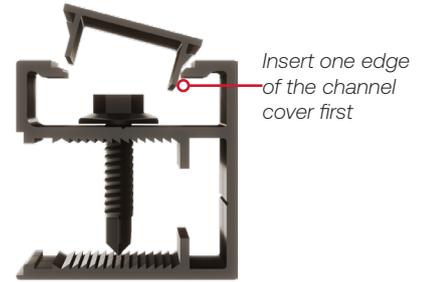


Fig. 18

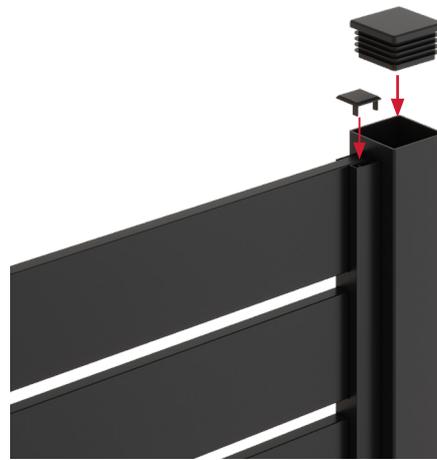
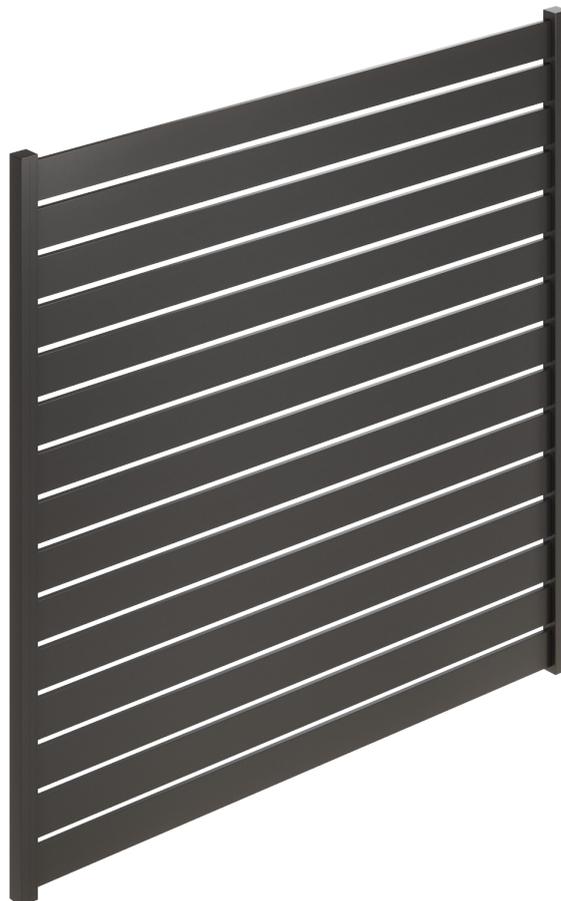


Fig. 19



Step 7 | Centre Support for 2400mm Wide Panel

If using a 2400mm wide SleekWall fence panel, a centre support will be required to support the slats and provide extra strength and stability.

Once the fence has been installed, the centre support can be attached. To attach the centre support:

1. Find and mark the centre of the fence panels.
2. Face the open side of the centre support channel outwards and hold it into its centre position against the slats. Drive a tek screw through the support into the middle of each slat to fix into place. *Fig. 20, Fig. 21*
3. Once all the slats are attached to the centre support, fit the cover onto the centre support channel. *Fig. 21*

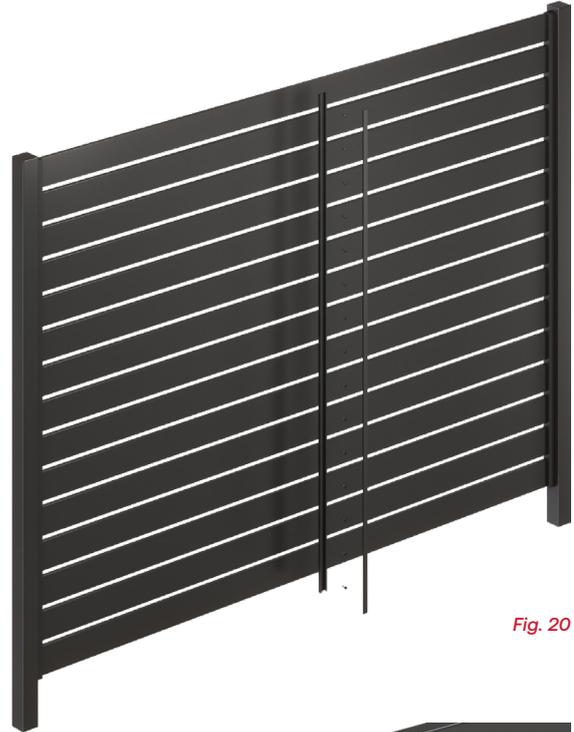
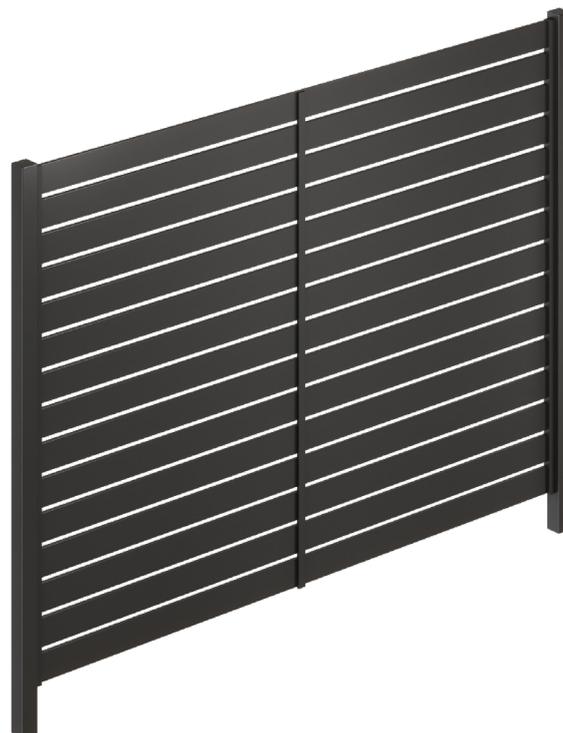


Fig. 20



Fig. 21



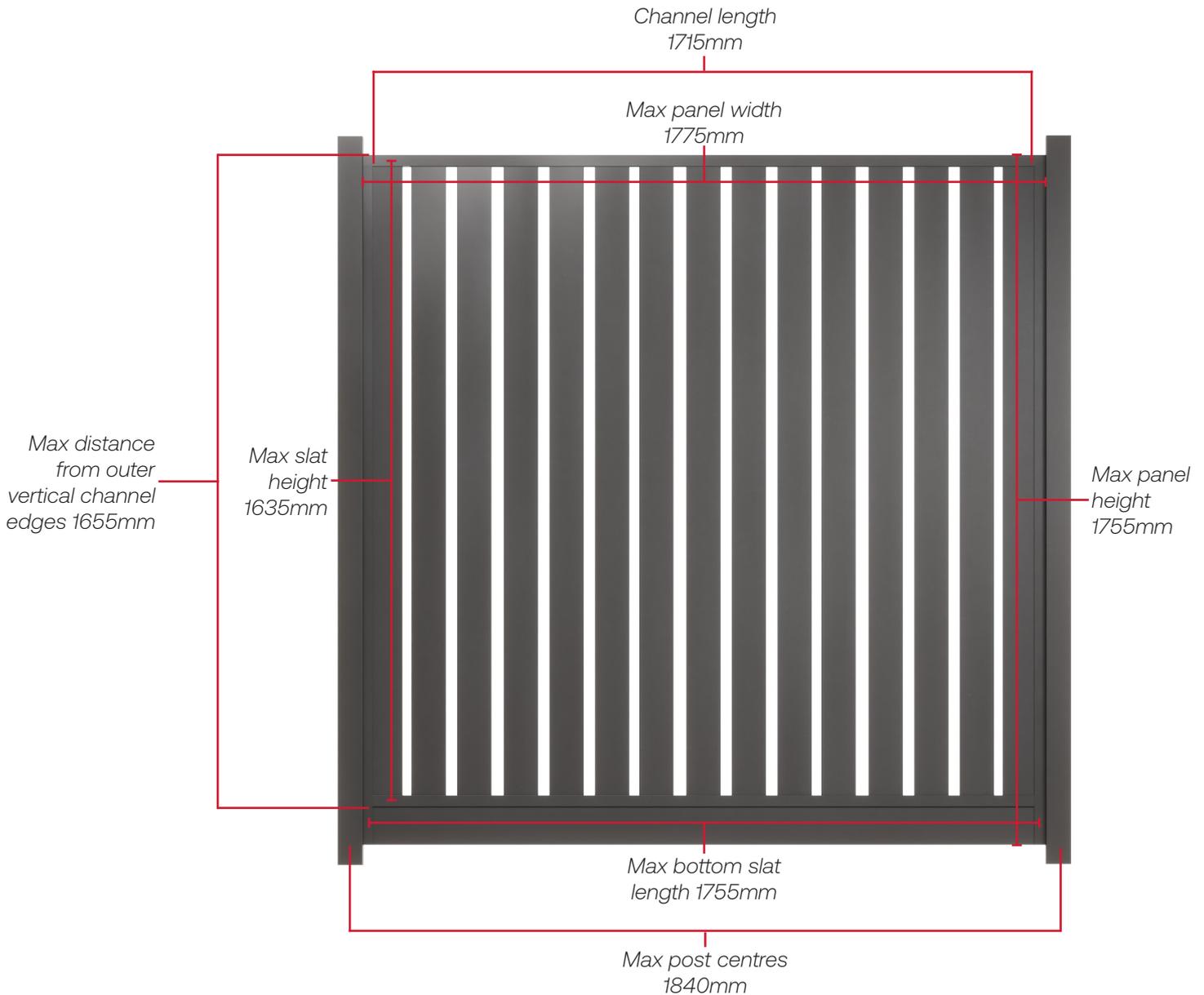
Vertical Conversion | Conversion Guide

SleekWall Slat can be changed to a vertical orientation using the vertical conversion kit. The vertical conversion kit contains an extra set of slat channels and cover clips, and one extra slat.

Due to the length of the slat channels, SleekWall Vertical Slat's maximum height is 1755mm and the maximum distance between the inner post faces is 1775mm, with 1840mm between post centres.

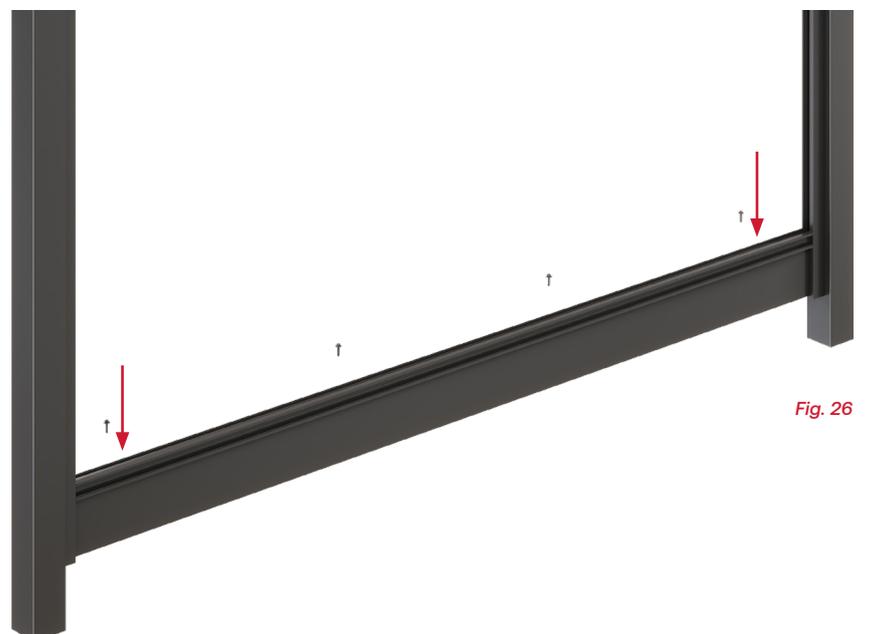
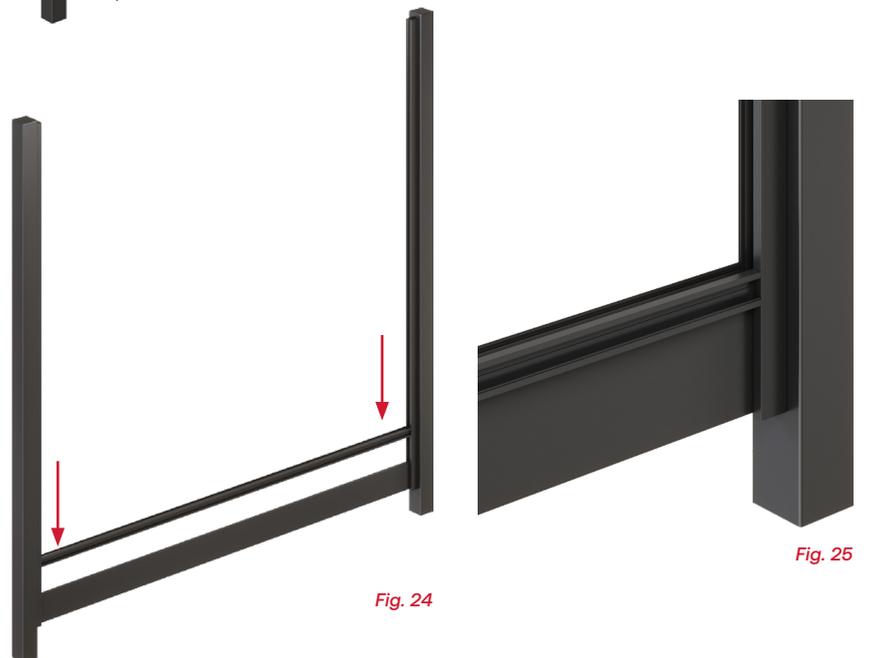
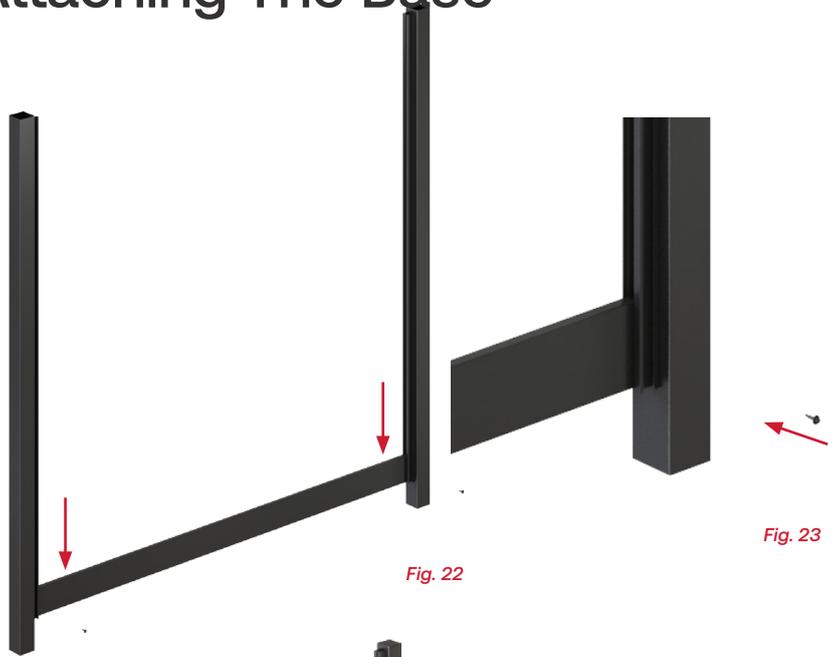
The bottom slat will need to be cut to fit between the posts, minus an extra 20mm to allow for the fixing recess space. For the standard panel width, the bottom slat will be 1755mm, see [page 05](#) for calculating post centres. The vertical slats will also require trimming to fit. For the standard panel height, the maximum vertical slat length will be 1635mm. See the below table for the method.

Vertical Slats Length:						
Panel Height	-	Bottom slat height	-	Slat channel recess	=	Vertical slat length
1755mm	-	100mm	-	20mm	=	1635mm



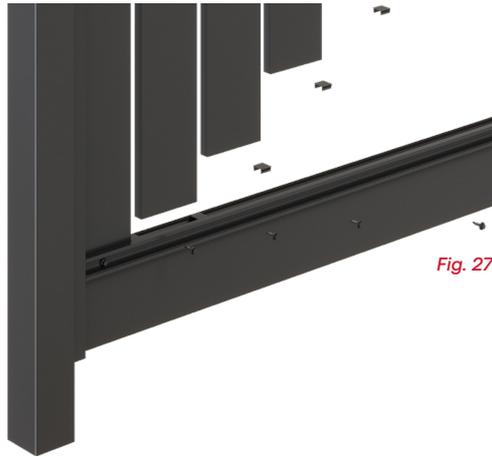
Vertical Conversion | Attaching The Base

1. Attach the vertical slat channels to the posts.
2. Cut the bottom slat to the correct width and insert horizontally into the channels and fix into place with the provided tek screws. *Fig. 22, Fig. 23*
3. Lay the slat channel on top of the horizontal slat, ensuring the screw port sides are all facing the same direction. *Fig. 24, Fig. 25*
4. Fix the slat channel to the top of the slat through the fixing recess. This will act as the base for the vertical slats. *Fig. 26*



Vertical Conversion | Fitting The Slats

1. Starting from one side, sit the first slat into position in the slat channel and fix into place through the screw port on both the horizontal and vertical channels. Use the provided spacers, or custom temporary spacers to ensure the gaps between the slats remains consistent. *Fig. 27, Fig. 28*
The top of the slats will be loose until all the slats and final slat channel is installed. Tying a strap (or similar) to the slats can secure them prior to fitting the top slat channel.

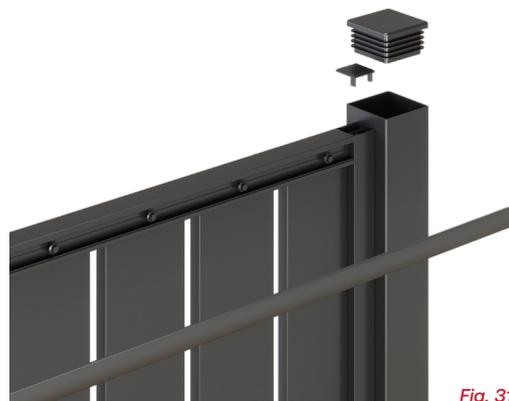


2. Once all the slats are attached in the bottom channel, and the two end slats are fixed along the vertical slat channels, the top slat channel can be sat into place. *Fig. 29*

3. Check everything is aligned and looks correct and fix the slats into place. *Fig. 30*
Installing all fence bays up to this point is recommended before attaching the channel cover clips.



4. Attach the channel cover clips and channel end caps to all the channels, and attach the post caps to the posts. *Fig. 31*



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Please note: This document is only intended to be a general guide, as every property and situation is different. All measurements are provided as a general guide. For detailed specifications, including full technical drawings and PS1 documents (where applicable), please refer to our website.

Any installation work, including the use of power equipment is completely the responsibility of the person(s) installing.

All persons using power equipment must be trained and certified to use the equipment and must wear all applicable personal protection gear.

Boundaryline Limited cannot accept any responsibility for any faulty installation or damage or injury arising from installation work.

Our team is available 7am - 5pm, Monday to Friday on 0800 003 006 or email us at enquiries@boundaryline.co.nz.