

XPRESSFENCE



DESIGN & INSTALLATION GUIDE

VERSION 1.3 | SEPTEMBER 2025



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1.0 GENERAL INFORMATION

1.1 Product Overview

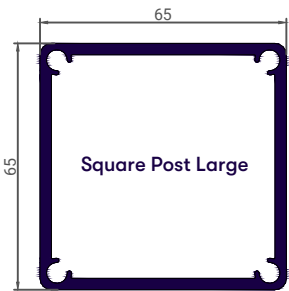
XPRESS Fence is a modular aluminium fencing solution designed for quick and easy installation. Made from 6063-T6 aluminium alloy and finished with Interpon D1000 series powder coating, it offers excellent strength, corrosion resistance, and durability. The prefinished contemporary powder-coated finish means no need for painting or staining. Featuring a patented push-together friction-fit system, XPRESS Fence is DIY-friendly and requires no welding and minimal screws.

XPRESS Posts

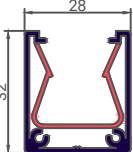
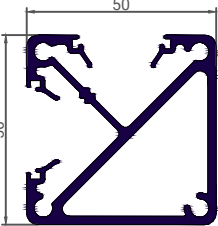
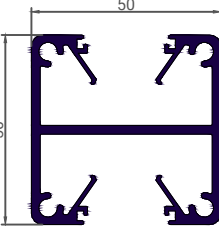
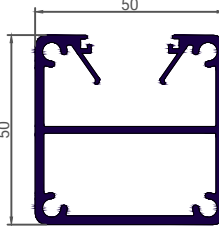
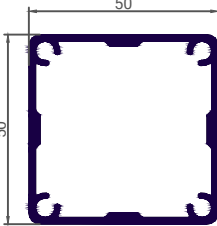
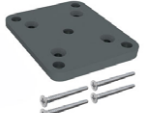
A range of posts can be used in conjunction with the XPRESS Kits to create your desired layout.

Height: 1800mm or 2400mm Profile: 50mm x 50mm

POST OPTIONS	Compatible with:	
	FENCE	GATE
Side Frame (2 Parts)	✓	
Corner	✓	✓
Two Way	✓	
Start/End	✓	✓
Square^		✓



^ available as a 65mm x 65mm Profile

EXTRUSION PROFILES				
Side Frame Fixed to a wall or existing post 	Corner Post 	Two Way Post 	Start/End Post 	Square Post ^ 
Note: Posts are supplied with one end cap fitted, and Side Frames with two end caps fitted. Enquire if extra top caps are required.				
OPTIONAL ACCESSORIES				
 Dress Ring - 50mm For Post In Concrete Applications	 Base Plate Cover - 50mm, 65mm Hides Base Plates	 Base Plate - 50mm, 65mm Incl. screws to fix the Base Plate to Post	 Top Cap - 50mm, 65mm, 32x28mm Required if you are cutting down the Posts	

XPRESS Kit Sets (to be purchased in conjunction with XPRESS Posts)

XPRESS FENCE SLAT KITS	XPRESS GATE KIT
Height: 1200mm Width: 1800mm	Height: 1800mm Width: 1000mm
16 x Slats (1800mm) 34 x Spacer Blocks (9mm) 2 x Slat Clips (includes screws)	20 x Slats (964mm) 4 x Fluted Slats (964mm, includes 4 screws per slat) 2 x Gate Side Frames (1800mm, made up of 3 parts)
Height: 1800mm Width: 2400mm	COMPONENTS
24 x Slats (2400mm) 50 x Spacer Blocks (9mm) 2 x Slat Clips (includes screws) 1 x Centre Support Rail* (1800mm, includes screws and 2 x caps)	Regular Slats Fluted Slats Gate Frames Gate Frame Caps
COMPONENTS	ADDITIONAL COMPONENTS REQUIRED
Regular Slats Spacer Blocks- 9mm (20mm option available) Slat Clips Centre Support Rail*	Hinges (Pair) Gate Latch
OPTIONAL	
Starter Spacer Blocks - 100mm	

1.2 Important Documents

This Design & Installation Guide covers the scope of use, products, fixing, and maintenance guidelines for XPRESS Fence.

In addition to this guide, PSP also supply the following documents to assist with the XPRESS Fence specification, installation, and maintenance:

- The BPIR Declaration

1.3 Controlled Documents

All documents are controlled. It is important to ensure that the current documents are always used.

For documents, refer to www.psp.co.nz.

2.0 APPLICATION AND SCOPE

2.1 Scope of Use

- XPRESS Fence is intended for residential, commercial, landscaping, privacy, perimeter fencing and screening applications. The XPRESS Gate provides pedestrian access where required.
- XPRESS slats are intended for horizontal orientation only.
- XPRESS Fence is suitable for use in coastal and corrosive environments. The fencing system is suitable for use in all exposure zones as specified in Section 4.2 in NZS 3604:2011.

2.2 Limitations

- XPRESS Fence must not exceed 1.8m in height.
- XPRESS Fence is not suitable for high-security or high-load bearing environments. Not recommended for structural support applications beyond typical fencing needs.
- The XPRESS Fence system features slats and frames that can be cut on-site to meet specific width and height requirements; however, this must be done in accordance with local regulations to ensure compliance with approved fence heights and widths for your application.
- A Resource Consent Application may be required where XPRESS Fence is used as a Boundary Fence.

3.0 DESIGN

3.1 Building Consent Application

Where the specification of XPRESS Fence is part of a building consent application, the following documentation must be submitted:

- This Design & Installation Guide
- The BPIR Declaration

Note: A Resource Consent Application may be required where XPRESS Fence is used as a boundary fence.

3.2 Specification

XPRESS Fence is intended for use as residential, commercial, landscaping, privacy, and perimeter fencing. The XPRESS Gate provides pedestrian access where required.

Ground Conditions

XPRESS Posts can be core-drilled, base-plated, or ground-set. Post foundations must meet minimum structural requirements based on site-specific ground conditions. Refer to [Section 6.0 Installation](#), for guidance.

XPRESS Fence Installation

XPRESS Fence features a modular aluminium design that requires no welding and only one screw fixed with a slat clip at the top of each fence post. Slat clips are friction-fitted into the fence posts and separated by spacer blocks.

If XPRESS posts are cut down to a custom height, they can be finished with friction-fit top caps.

XPRESS Gate Installation

XPRESS slats are inserted into a slotted spacer attached to the gate frame. Screw-fitted fluted slats are distributed throughout the slat arrangement, and an outer cover slides into the frame to conceal the fixings.

XPRESS Gate frames are finished with friction-fit top caps.

The XPRESS Gate is attached to the XPRESS posts using hinges and latches from D&D Technologies (TCHD1AS3, LLD3) or products of equivalent specification. Refer to manufacturer's installation guides.

3.3 Product Substitution

Where XPRESS Fence is to be used as a substitute for the consented product, the following documentation must be supplied to the building inspector before installation of the XPRESS Fence:

- The Minor Variation Form
- This Design & Installation Guide
- The BPIR Declaration

4.0 PLAN THE LAYOUT

Planning the layout at the beginning of the project will ensure that the final installation of the XPRESS Fence will create the desired look and feel. It will also ensure less wastage and faster installation.

REMEMBER:

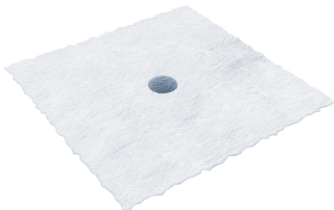
- * Fencing must not exceed 1.8m in height.
- * Check your local council regulations on boundary fencing.
- * Check for underground services (gas, electricity, and water mains) when planning in-ground post holes. Contact your local council if unsure.

STEP 1 Determine your fence layout and choose the required components and kit(s) for your application.

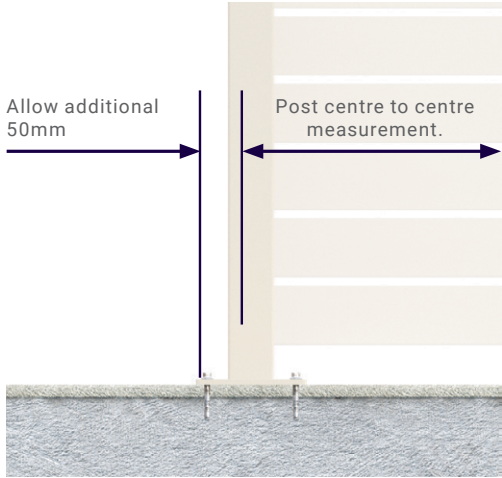
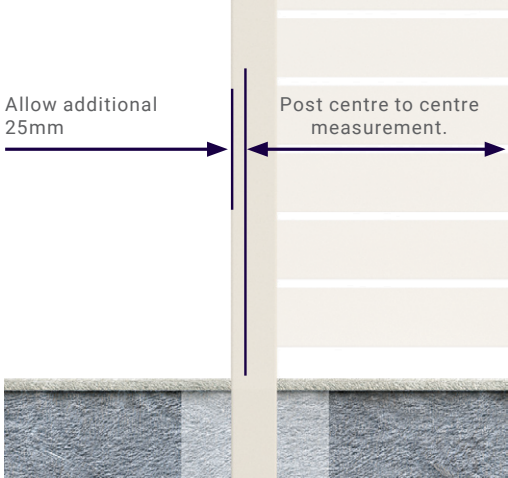
CORNER	U-SHAPE	IN-LINE
		

Note: If your XPRESS Fence will end at a wall or existing post, consider using a Wall Starter profile instead of a standard post for a cleaner, more seamless finish. Screws not included; choose the appropriate screws based on the requirements of your substrate.

STEP 2 Assess the ground conditions and determine the suitable post installation method:

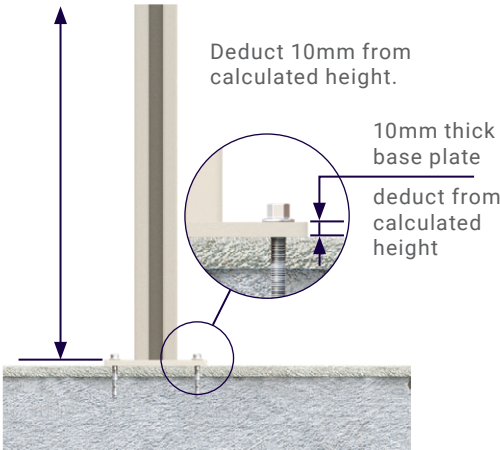
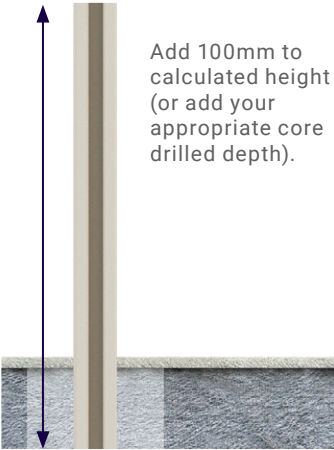
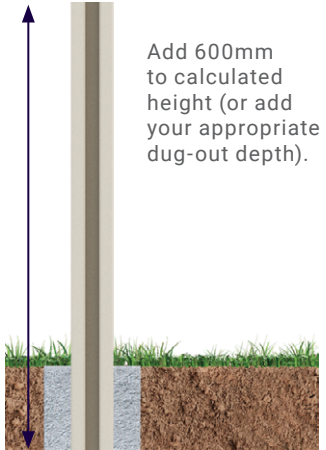
BASE-PLATED	CORE DRILLED	GROUND SET (WITH CONCRETE FILL)
		
Base-plated to the surface (base plates are fixed to posts using the supplied screws).	Core drill into concrete (recommended minimum Ø76mm core hole, approx. 100mm deep).	Set into ground with concrete footings (recommended minimum footing size: 300mm x 300mm wide, 600mm deep with post embedded at least 600mm and filled with concrete).

STEP 3 Determine post positions by calculating the centre to centre distance of each post. Consider the following for end or corner posts in a fence run:

BASE-PLATED	CORE DRILLED / GROUND SET
	
For base plated installations, allow an additional 50mm to account for the post and base plate	For core drilled or ground set installations, allow an additional 25mm to account for the post.

Measure and mark out locations of the XPRESS posts using marker pegs and string lines to ensure layout is in-line and straight.

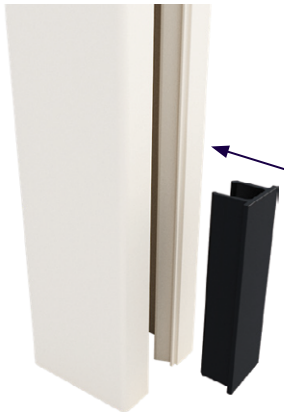
STEP 4 Measure and mark any posts to be cut to the required height.

BASE-PLATED	CORE DRILLED	GROUND SET
		
For base plated installations, deduct 10mm from the length to account for the base plate thickness.	For core drilled or ground set installations, add the required below-ground length to the above-ground height to determine overall post length.	

Use a spirit level to ensure all posts are vertically level and properly aligned.

STEP 5 For uneven ground conditions, consider using Starter Spacer Blocks (100mm) to enable fence slats to start on a level plane. After determining the desired starter gap, use a level string line to determine the heights of the remaining setting blocks. The string line will also give an indication of the bottom of your first slat.

Tip: Use the Starter Spacer Block on grassed areas to allow space for grass cutting and maintenance.



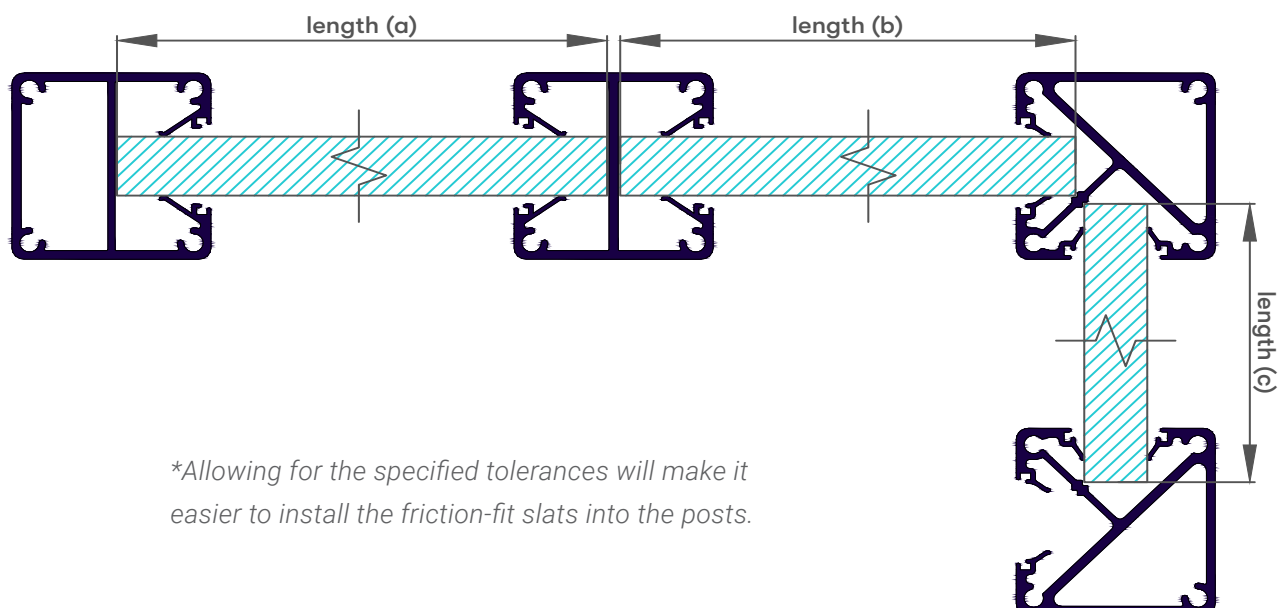
Note: It is recommended that the starting gap (between the ground and the bottom slat) is max 50mm. Adjust the overall post height if necessary to achieve the starting gap.



STEP 6 Calculate the required quantity of slats and spacers from the bottom to the top slat, ensuring all quantities consider posts cut down to required heights.

STEP 7 Measure and mark any slats to be cut to length. Consider the following tolerances*:

- For spans between a Start/End Post and 2 Way Post, slats must be cut 10mm less than the centre to centre of posts.
- For spans connected on one end to a Corner Post, slats must be cut 15mm less than the centre to centre of posts.
- For spans between two Corner Posts, slats must be cut 20mm less than the centre to centre of posts.



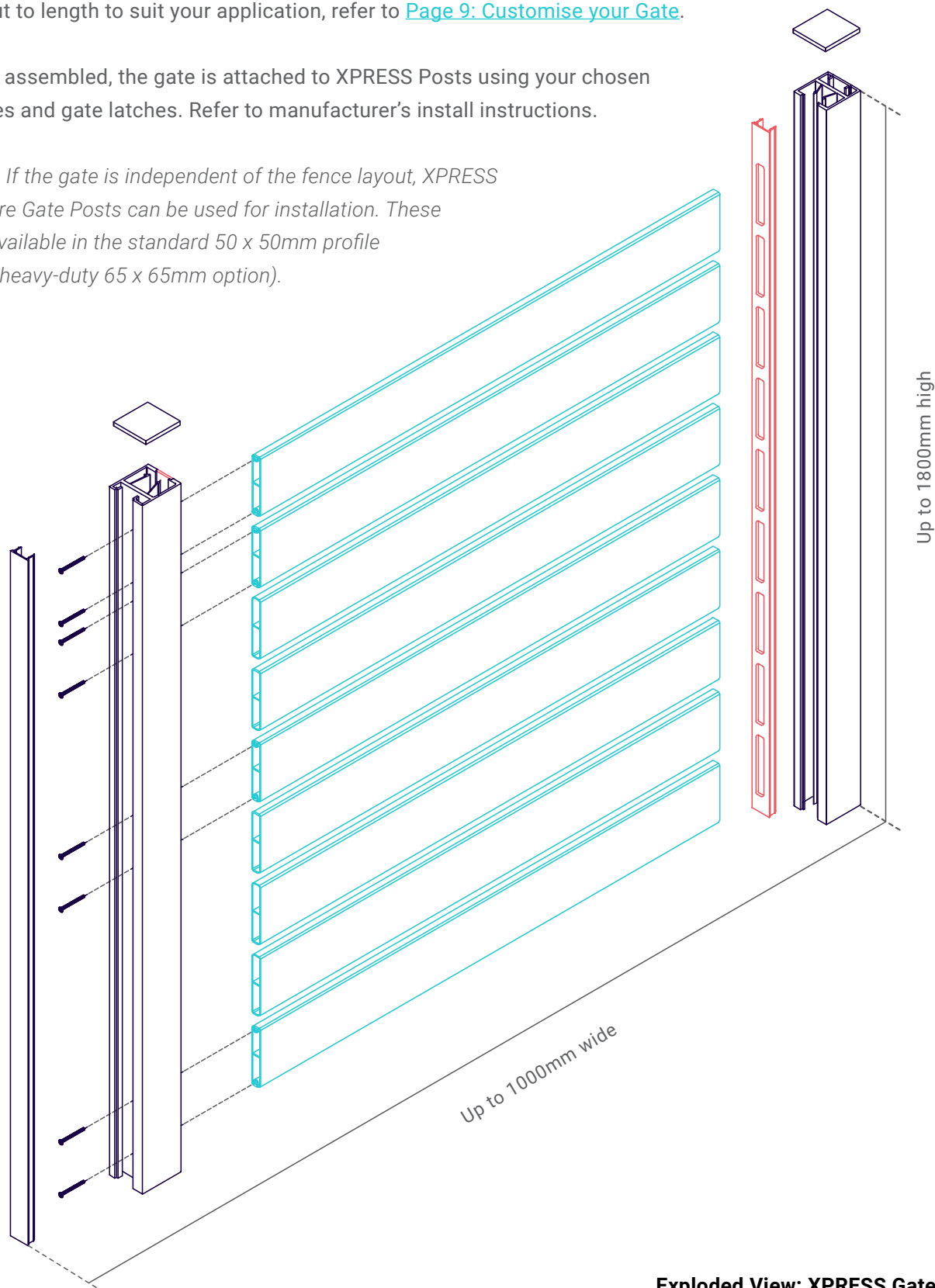
**Allowing for the specified tolerances will make it easier to install the friction-fit slats into the posts.*

STEP 8 Determine whether pedestrian access is required. Allow an opening for a XPRESS Gate when planning the layout of your fence. Measure and mark the location of the gate.

XPRESS Gate Kits provide a complete, ready-to-assemble solution compatible with XPRESS Posts. Each kit includes components to build a gate of a standard height of 1800mm and a width of 1000mm (measured from the outer edge of each gate frame). Components can be cut to length to suit your application, refer to [Page 9: Customise your Gate](#).

After assembled, the gate is attached to XPRESS Posts using your chosen hinges and gate latches. Refer to manufacturer's install instructions.

Note: If the gate is independent of the fence layout, XPRESS Square Gate Posts can be used for installation. These are available in the standard 50 x 50mm profile (or a heavy-duty 65 x 65mm option).



Exploded View: XPRESS Gate

CUSTOMISE YOUR GATE

HEIGHT ADJUSTMENT - GATE FRAME

Gate frames are pre-made at a height of 1797mm but can be adjusted as required. The height of the gate frame is determined by the slotted spacer infill. Cut the outer infill to match the customised height of the slotted spacer infill.

Tip: measure twice, cut once.

WIDTH ADJUSTMENT - SLATS

Gates are pre-made at an overall gate width of 1000mm (measured from the outer edge of each gate frame). If a narrower gate is required, shorten all standard and fluted slats to achieve the desired width.

$$\text{ACTUAL SLAT WIDTH} = (\text{OVERALL GATE WIDTH}) - 36\text{MM}$$

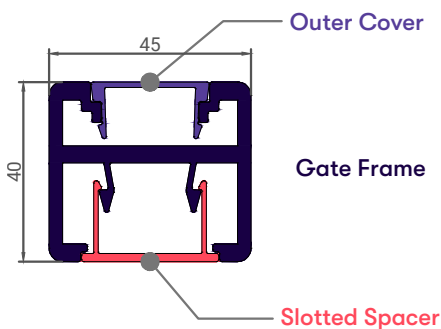
Note: Allow for hinge and latch gaps. Check hinge and latch specifications for gaps required and take this into account when determining OVERALL GATE WIDTH.

If the gate height is shortened, calculate the number of slat spaces required to fit the new height. Ensure that fluted slats are positioned as follows (See exploded view on [Page 8](#)):



- 2x at the **top** of the gate
- 1x at the **middle** of gate
- 1x at the **bottom** of gate

Fluted gate slats must be fixed using four screws (two screws into each gate frame). The gate frame has outer covers that slide on to conceal the fixings.



IMPORTANT: XPRESS Gate must always be constructed using at least four fluted gate slats.

OFFCUT
(After sideframe is cut down)

Cut gate sideframe at the top of slat to leave 8mm space at the top and bottom of frame.

5.0 PREPARATION

5.1 Safety and Tools

Keep Safe

Follow simple health and safety practices:

- Create a safe working environment that is well organised, tidy, and clear of obstructions.
- Always ensure PPE is worn (eye protection, gloves, dust mask, and safety footwear).
- Always operate tools and equipment strictly in accordance with the supplier's manuals.
- Regularly service tools and equipment to ensure efficient and correct operation.
- Where possible, work in an area that is well ventilated or where mechanical dust extraction is possible. This is especially important if cutting or drilling.
- Where working at height, ensure the correct selection and use of safety gear.

For further information, refer to the latest resources at www.worksafe.govt.nz:

- Managing Health and Safety.
- Small Construction Sites, The Absolutely Essential Health and Safety Toolkit.

Skills and Tools

Competent DIYer skills and standard carpentry tools are required to install XPRESS Fence. The following tools will help to simplify installation:

- Compound Mitre Saw
- Angle Grinder
- Screw Driver
- Tape Measure
- Spirit Level
- Square
- String Line
- Shovel
- Post hole digger
- Rubber Mallet

5.2 Handling and Storage

- * Take care when transporting and storing XPRESS Fence components to prevent damage.
- * Handle aluminium components with clean hands or gloves to avoid transferring oils onto the powder-coated surface.
- * Lift extrusions carefully, never slide them on the coated surface.
- * Ensure the packs are stored on a level surface and raised off the ground.
- * Packs must be kept dry and stored out of direct sunlight.

5.3 Check Ground Conditions

Ensure that ground conditions meet the minimum requirements and that post foundations are designed based on specific ground conditions.

Remember: Before digging, check for underground services (gas, electricity, and water mains) when planning in-ground post holes.

5.4 Cut Components

Remember: Fencing must not exceed 1.8m in height. Refer to [Section 3.0 Plan The Layout](#) for other limitations.

Identify the XPRESS Fence slat or posts components that need to be cut, then proceed to measure, mark, and cut the necessary lengths.

Tip: Extrusions should be cut face up to reduce risk of scratches to the powder-coated surfaces.

PSP recommends using a compound mitre saw with a aluminium blade for crosscuts (i.e. docking and cutting to length) and mitre cuts. This will create a clean, square cut. An angle grinder with a thin aluminium cutting blade may also be used.

Note: Ensure the extrusion is clamped securely.

6.0 INSTALLATION

6.1 Assemble XPRESS Fence

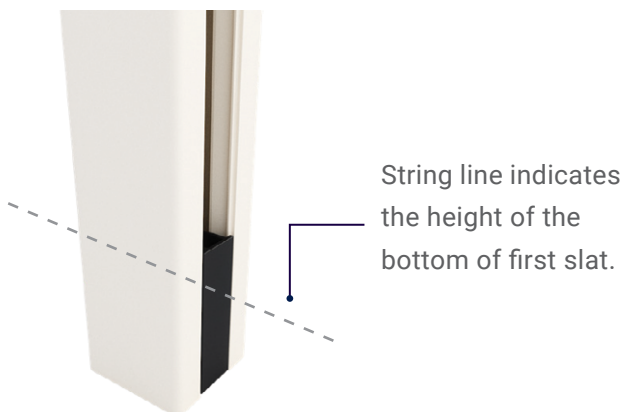
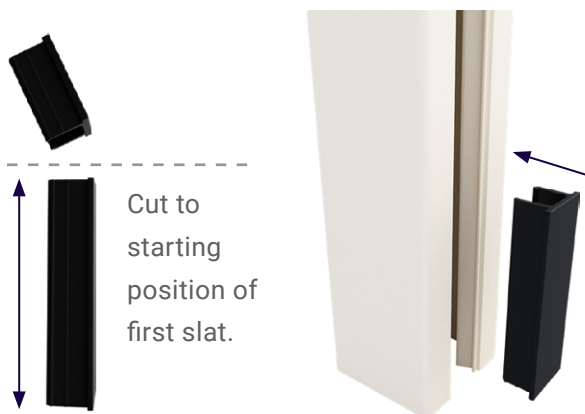
STEP 1

Install posts at marker peg locations as planned in [Section 3.0 Plan The Layout](#). Use a spirit level to check that all posts are level and aligned.

STEP 2

For uneven ground conditions, use Starter Spacer Blocks to enable fence slats to start on a level plane. Recommended starting gap is <50mm.

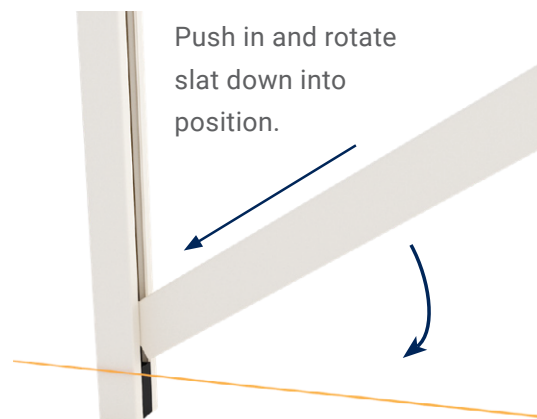
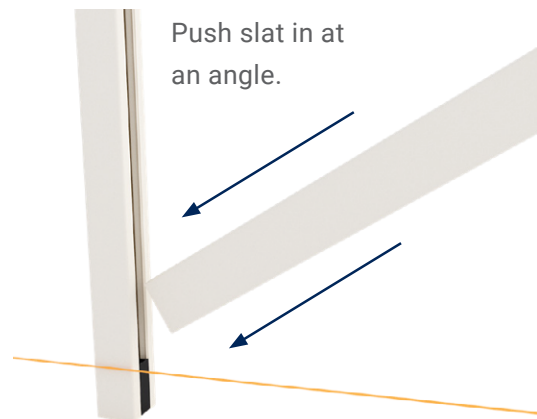
Start by cutting only one setting block and placing it at the highest point of the finished floor line. Then, run a level string line to determine the heights of the remaining setting blocks before cutting them to size.



Cut setting blocks to match the string line level and snap them into the posts. Use the string line to set the height of the first slat.

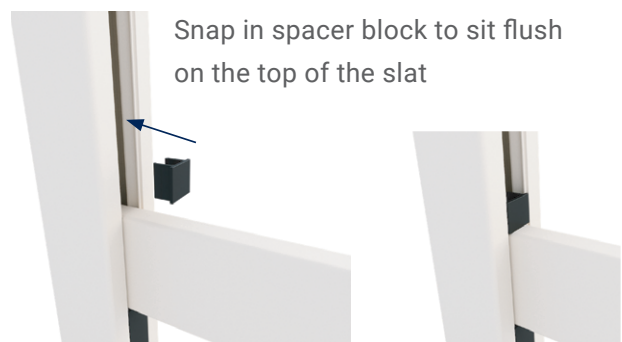
STEP 3

Install the first slat.



STEP 4

Install a spacer block if gaps are desired.



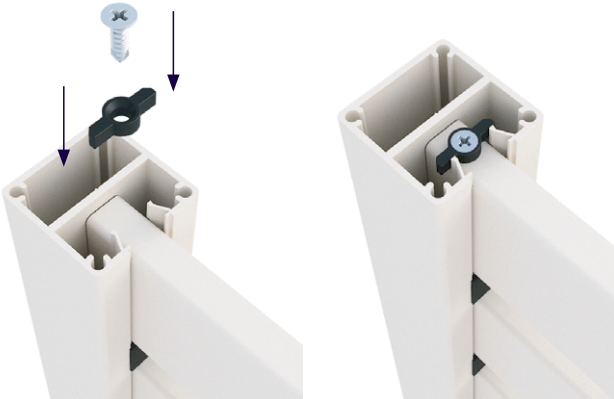
STEP 5

Continue to install slats and spacer blocks until the fence is fully assembled to the top of the posts.



STEP 6

Use the provided screws to fix the slat clip at both ends of the top slat, securing the fence assembly.



STEP 7

Use a rubber mallet to tap the friction-fit top cap onto the fence posts, concealing the fixings and providing a finished look.



STEP 8 (for fences of lengths >2000mm)

The Centre Support Rail is installed vertically to brace the horizontal slats. Screw-fix the rail into each slat, then snap on the cover to conceal the fixings. Friction-fit the caps onto the top and bottom of the rail.



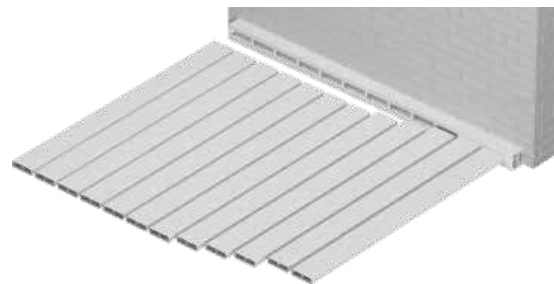
6.2 Assemble XPRESS Gate

STEP 1

Identify the posts where the gate will be attached according to your Layout Plan. Use a spirit level to ensure both side posts are plumb and properly aligned.

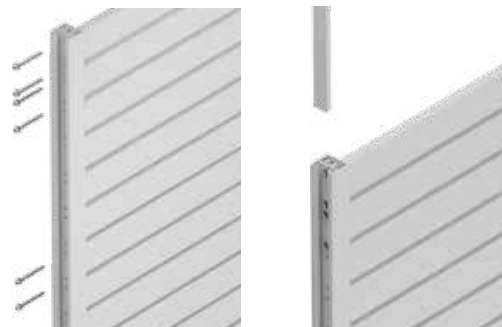
STEP 2

Pre-assemble gate on a flat, horizontal surface. Lay down one gate side frame with the slotted spacer up against a wall. Fit the slats into the slots. Once all the slats are inserted, engage the second gate frame, starting at one end and working the slats in from one end to the other,



STEP 3

Screw the fluted gate slats through both gate frames at either end, then slide on the outer cover to conceal the fixings.



STEP 4

Orient the gate upright and use a rubber mallet to tap the friction-fit top cap onto the fence posts, concealing the fixings and providing a finished look.

STEP 5

Install gate to posts using hinges and gate latches provided. Refer to manufacturer's guides.

7.0 CARE AND MAINTENANCE

XPRESS Fence should be cleaned when the material surface temperature is below 25°C and not exposed to direct sunlight. Clean the fence by hosing down all surfaces to remove any loose residue. For caked-on deposits, use a pH neutral detergent with a cloth, sponge, or a soft bristle brush.

Note: Do not use thinners, turpentine, white spirits, citrus-based cleaners, cutting compounds or other abrasive cleaners. Pressure washing is not recommended.

Please consider the following:

- Avoid earth or soil coming in contact with XPRESS Fence.
- Fertilisers and garden chemicals should not be used in or around XPRESS Fence.
- Slope all concrete away from post to limit any water build up around base of posts.
- Large items should not be leaned against the fence to avoid the fencing being pushed out of alignment.
- In a salt water pool application the XPRESS Fence should be washed down after each swim.

7.1 Frequency of Maintenance

Under normal urban or rural conditions (low salt and pollution), cleaning should be scheduled at a minimum of once every 12 months. Cleaning frequency depends on the environment and exposure level. Refer to the table below for recommended minimum cleaning intervals based on conditions including corrosivity level and location type.

Corrosivity Level	Examples	Minimum Cleaning Frequency
Low	Low salt and pollution incl. indoor environments	Every 12 months
Medium	Coastal areas, swimming pool environments, light industrial zones	Every 6 months
High	Geothermal areas, marine environments, heavy industrial zones	Every 3 months