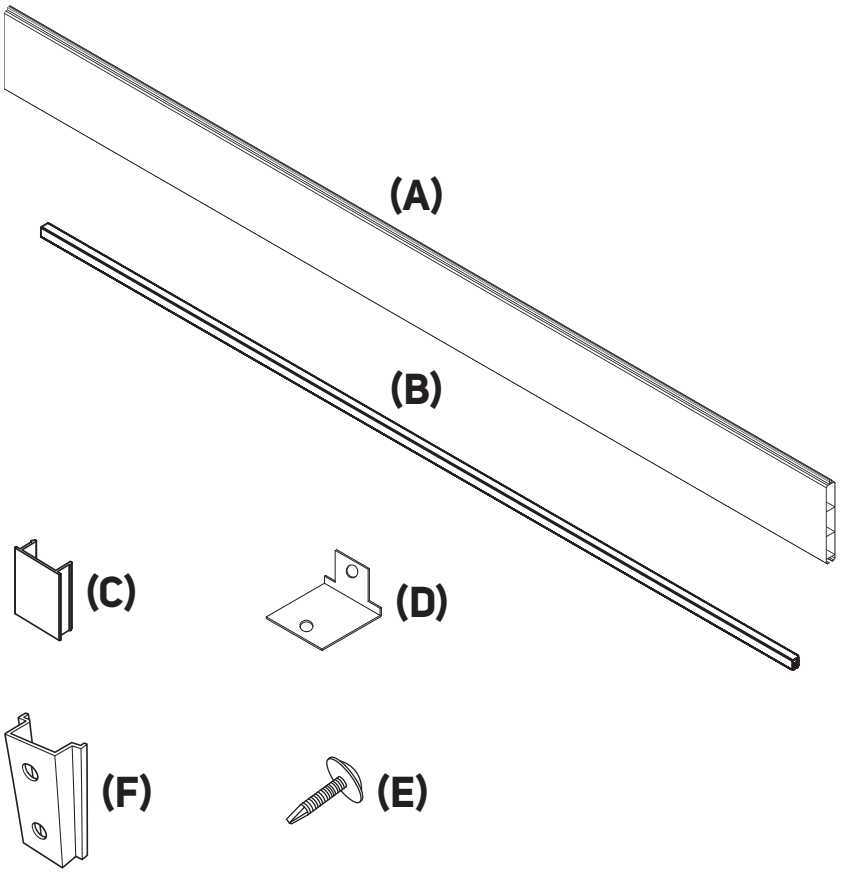
GUARDIAN

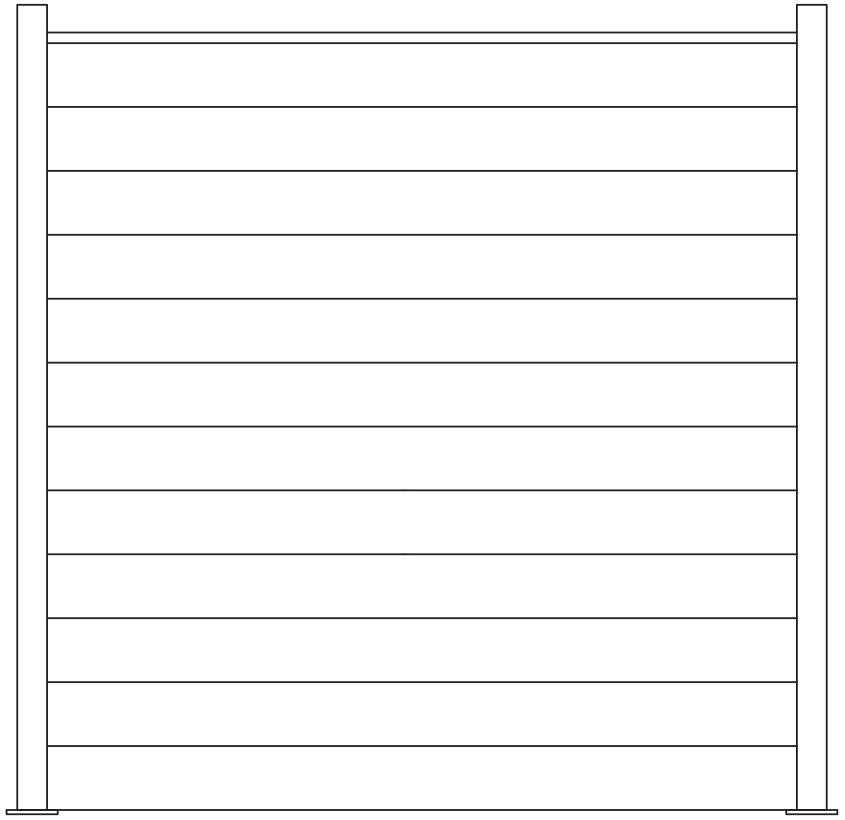
Valla Series | 150MM SOLID PANEL INSTALLATION

ASSEMBLY COMPONENTS

150MM SOLID PANEL INSTALLATION VIDEO
Scan the QR to view



	COMPONENT DESCRIPTION	QTY
A	150mm Solid Panel Slats	12
B	Top Finishing Strip	1
C	Post Channel Spacers 3.8mm	2
D	L-Brackets	2
E	M4.8 x 16mm Screws	4
F	Ground-Level Spacer (Inground Post Installation)	2



SOLID PANEL ASSEMBLY

GUARDIAN

Valla Series

150MM SOLID PANEL INSTALLATION

BEFORE YOU START

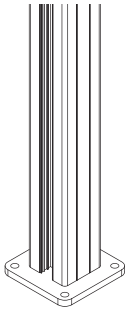
Before Commencing Installation:

- Confirm the fence line, finished height and post locations against the approved site plan
- Check for underground services before drilling or excavating
- Confirm whether flanged or inground posts are required
- Verify that the supporting substrate or footing is suitable for the proposed installation
- Select fixings appropriate for the substrate, site exposure and design loads
- Check all components for correct quantities, finish and condition
- Establish a set-out line and finished-height datum before positioning the posts
- Allow for any required gate openings, finished ground levels and drainage falls

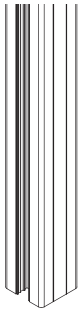
Installation must comply with the project documentation, local requirements and any site-specific engineering details. Structural fixings and footing sizes must suit the installation conditions.

ADDITIONAL COMPONENTS

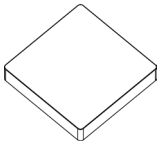
Additional components are available to suit different installation requirements, including flanged and inground posts, post caps and gate options in 900mm, 1200mm and 1500mm widths. **All solid gates are supplied with hinges.**



1.9M FLANGED POST
Product Codes:
VSFP1970B
VSFP1970W
VSFP1970CG



2.5M INGROUND POST
Product Codes:
VSP2570B
VSP2570W
VSP2570CG



70MM POST CAP
Product Codes:
VSAPC70B
VSAPC70W
VSAPC70CG



900MM SOLID GATE
Product Code: VSS09150B-GATE
Clear Opening: 930mm



1200MM SOLID GATE
Product Code: VSS12150B-GATE
Clear Opening: 1230mm

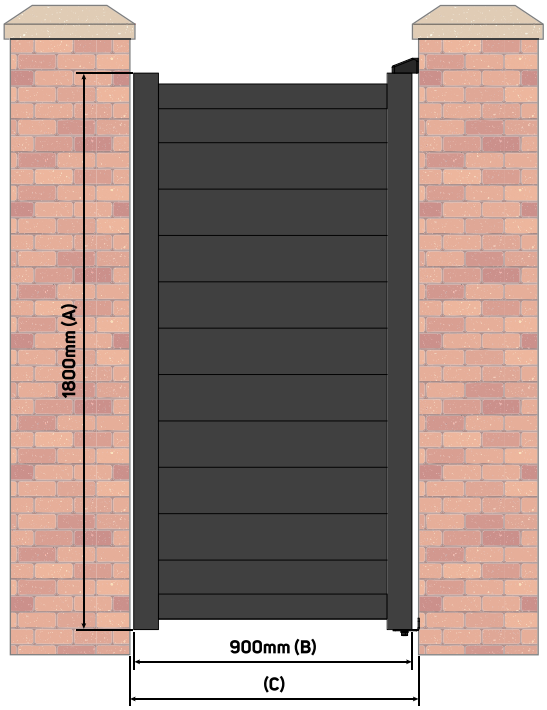


1500MM SOLID GATE
Product Code: VSS15150B-GATE
Clear Opening: 1530mm

GUARDIAN

Valla Series

150MM SOLID PANEL INSTALLATION



POST SPACING BY GATE WIDTH

A: GATE HEIGHT	B: GATE WIDTH	C: GAP WIDTH
1800mm	900mm	930mm
1800mm	1200mm	1230mm
1800mm	1500mm	1530mm

Clear Opening Allowance: Allow an additional 30mm to the nominal gate width when setting the clear opening to provide the required clearance for the gate hinges and installation adjustment.

Height Clearance: Allow a minimum of 100mm above the nominal gate height (A) to accommodate installation and adjustment of the top and bottom hinges.

RECOMMENDED FIXINGS

Installation Type	Recommended Fixing Requirements
Top fix to Concrete	Fix each flanged post using 4 × M12 structural concrete anchors through the 13mm baseplate holes, with a minimum 90mm effective embedment. Fix only to sound reinforced concrete, generally at least 150mm thick. Do not fix to pavers, masonry caps or thin topping slabs.
Top Fix to Timber	Fix each flanged post using 4 × M12 through-bolts through the 13mm baseplate holes, complete with nuts and minimum 30 × 30 × 3mm load-spreading washers beneath the timber. Fix into structural framing or minimum double 140 × 45mm solid blocking securely connected to the deck structure. Do not fix through decking boards alone.
In-Ground Concrete – Typical Residential	Set the post centrally into a minimum 350mm diameter × 900mm deep concrete footing. Use minimum 20 MPa concrete, with 25 MPa recommended.
In-Ground Concrete – Exposed Location	Set the post centrally into a minimum 400mm diameter × 1,000mm deep concrete footing. Use 25 MPa concrete. Very exposed locations or unsuitable ground require specific advice.

IMPORTANT: Check that the selected M12 anchor's washer or anchor head fully covers the 13mm baseplate hole. Valla Solid Panels carry significant wind loading, so raised decks, exposed locations, soft or filled ground, and safety-barrier applications may require specific engineering advice.

FLANGED POST INSTALLATION

STEP 1 - POSITION & SECURE POSTS

1. Set out the Fence Line

Set out the fence line using a stringline or laser. Mark the post positions and confirm the required **Clear Distance Between Posts** (See table)

2. Position the Posts

Position the 70 × 70 mm posts plumb in both directions, aligned with the fence line and at a consistent finished height.

3. Check Post Spacing & Alignment

Measure the opening at the top and bottom of the posts to confirm they are parallel.

4. Secure the Posts

Mark the fixing positions using the Ø13mm flange holes, then drill to suit the selected fixings and supporting substrate. Secure each flange, keeping the posts plumb in both directions while tightening.

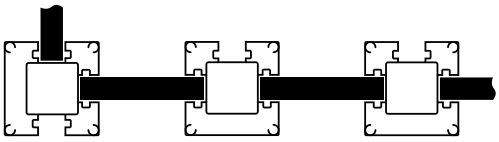
Panel Width	Clear Distance Between Posts
900MM	860MM
1800MM	1760MM

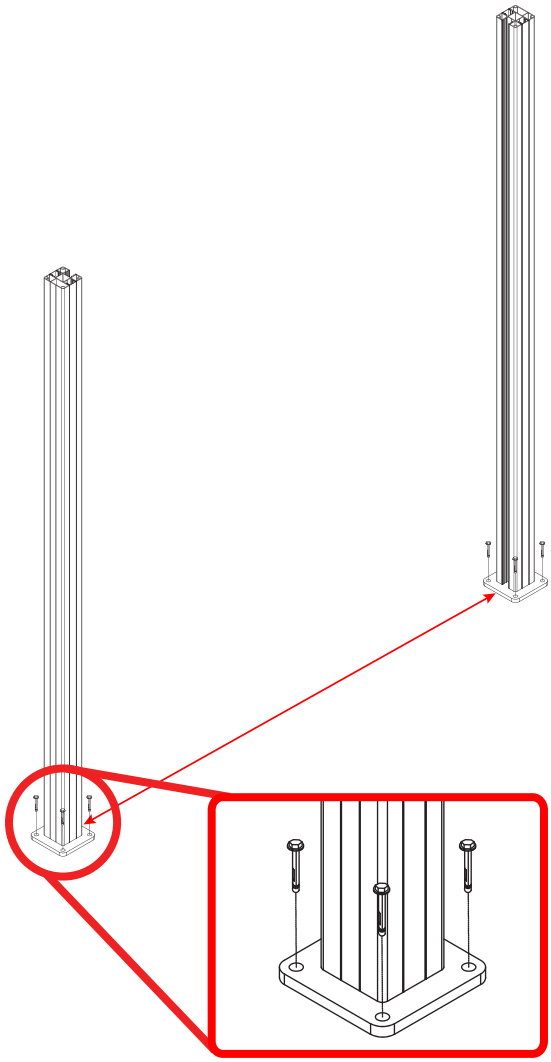
5. Final Check

Confirm all posts are plumb, parallel, securely fixed and set to the correct spacing.

Fence Line Orientation

Each post features channels on three sides. Ensure both posts are oriented correctly to align with your intended fence line.





STEP 2 - FIT BASE PLATE COVERS

1. Fit Base Plate Covers

Fit the baseplate covers before installing the panel slats.

2. Fit Covers into Post Channels

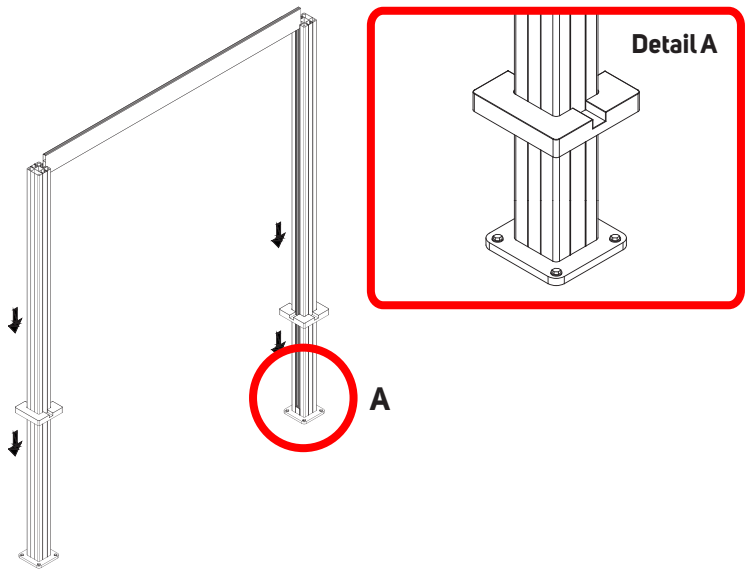
Fit each cover into the post channels as shown.

3. Check Cover Position

Check that the covers are seated correctly and do not obstruct the panel channels.

4. Continue Installation

Move to **Step 3** of the inground post installation instructions.



INGROUND POST INSTALLATION

STEP 1 - POSITION & SECURE POSTS

1. Set out the Fence Line

Set out the fence line using a stringline or laser. Mark the post positions and confirm the required **Clear Distance Between Posts** (See table)

2. Excavate Inground Post Holes

Excavate each post hole to the recommended footing specification below. Check for underground services before drilling or excavating.

Concrete Footing Depth (mm)	Concrete Footing Diameter (mm)
900mm	240mm

3. Position & Brace the Posts

Position the 70 × 70 mm posts plumb in both directions, aligned with the fence line and at a consistent finished height. Brace the posts securely.

4. Check Post Spacing & Alignment

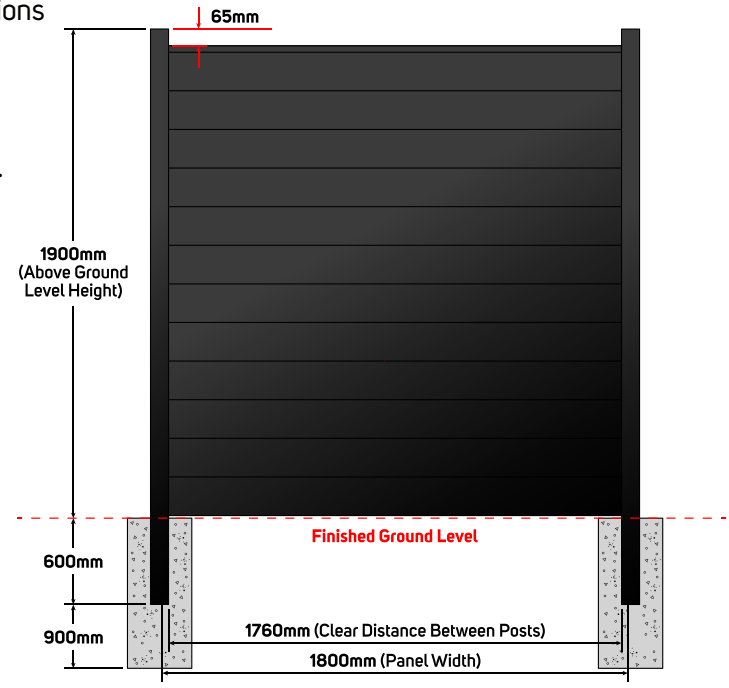
Measure the opening at the top and bottom of the posts to confirm they are parallel. Check that the opening matches the **"Clear Distance Between Posts"** column in the table below (e.g. 1760mm for an 1800mm panel). Use a spirit level to ensure that the posts are plumb in both directions before pouring the concrete.

5. Concrete & Final Check

Fill the previously excavated inground post holes with suitable concrete mix. Recheck the post spacing, height and alignment, and confirm the posts are plumb in both directions before the concrete begins to set. Allow the footing to achieve adequate strength before installing the slats.

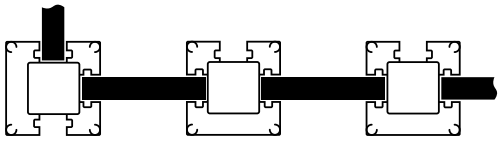
Panel Width	Clear Distance Between Posts
900MM	860MM
1800MM	1760MM

Inground Post Footing Detail



Fence Line Orientation

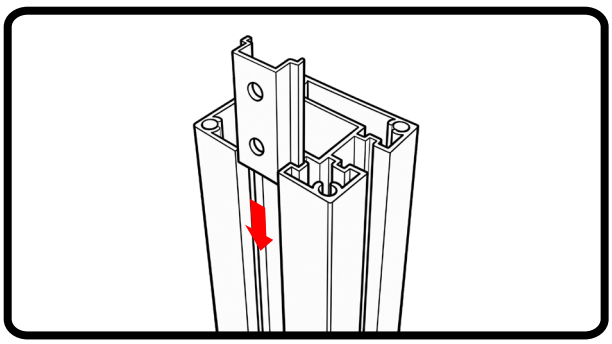
Each post features channels on three sides. Ensure both posts are oriented correctly to align with your intended fence line.



STEP 2 - FIT GROUND-LEVEL SPACERS

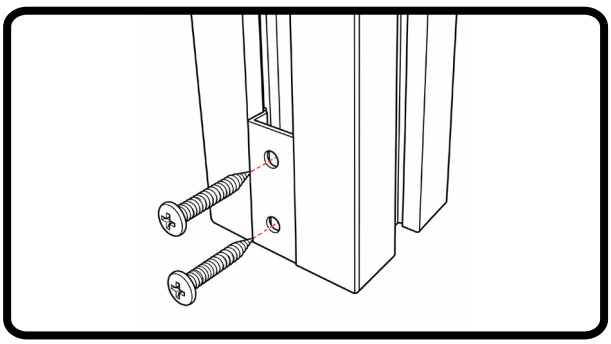
1. Fit Ground Spacers into Post Channels

Once the concrete has fully set, slide the ground-level spacers **(F)** down the channel of each post



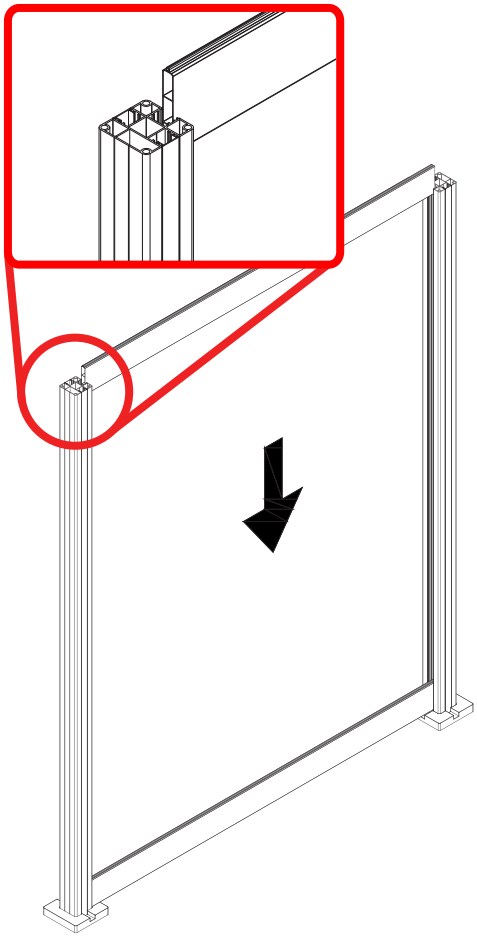
2. Secure Ground Spacers

With the spacers resting at ground level inside each channel, secure them in place using self-tapping screws



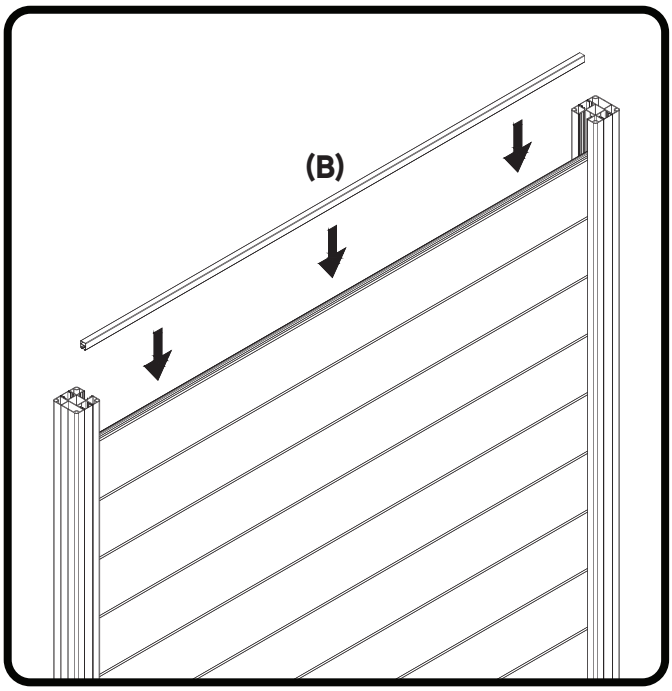
STEP 3 - INSTALL SOLID SLATS

- **Check the Post Channels.** Before installing the slats, confirm the post channels are clean and free from debris
- **Insert the Slats.** Insert the 150mm slats individually, keeping each slat level as it is lowered between the posts
- **Lower Each Slat Evenly.** Guide each slat down evenly to avoid binding, twisting or damaging the powdercoated finish
- **Seat Each Slat Fully.** Ensure each slat is fully seated against the slat below, with no visible gaps. Continue until all 12 slats are installed
- **Check Alignment as You Work.** Confirm the posts remain plumb and the panel is assembled square within the opening
- **Do Not Force Components.** If a slat binds, recheck the post spacing, alignment and channel clearance



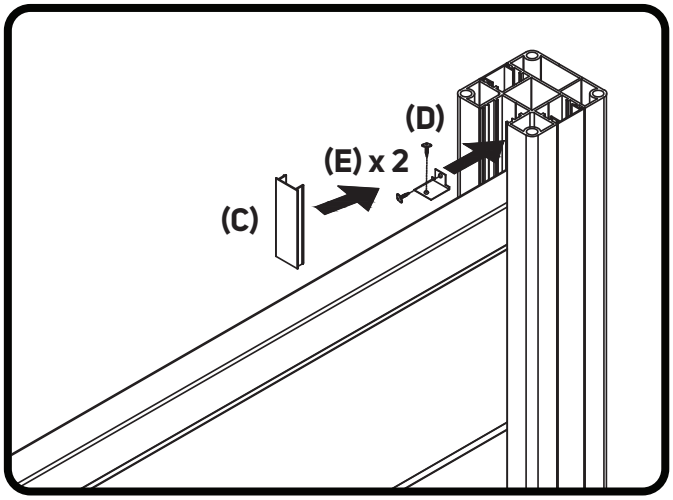
STEP 4 - INSTALL TOP FINISHING STRIP

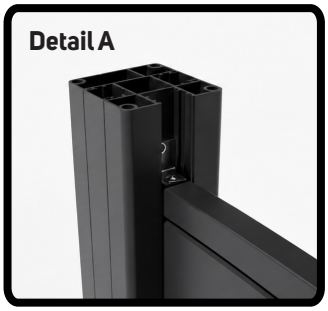
- **Position the Strip.** Place the top finishing strip above the uppermost slat
- **Lower the Finishing Strip.** Guide the strip between the posts and fully engage it over the top slat
- **Check the Seating.** Confirm the strip is seated consistently across the full panel width
- **Complete a Final Visual Check.** Confirm the top of the panel is level and that there are no visible gaps or misaligned components

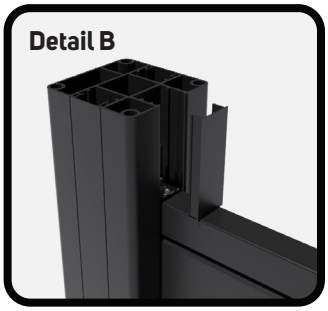


STEP 5 - SECURE TOP FINISHING STRIP

- **Position the Brackets.** Place one L-bracket against the inside channel of each post and the top finishing strip, as shown in **Detail A**
- **Secure the Brackets.** Secure each L-bracket using two supplied M4.8 × 16 mm screws
- **Tighten the Fixings.** Drive the screws square to the fixing surface and tighten until the bracket is firmly seated. Do not overtighten or strip the fixing
- **Fit the Spacers.** Fit the supplied post-channel spacer above each L-bracket, as shown in **Detail B**
- **Check Bracket & Spacer Positioning.** Confirm both brackets and spacers are correctly positioned
- **Check Finishing Strip Retention.** Confirm the top finishing strip is securely retained and cannot lift or move within the post channels







STEP 6 - FIT POST CAPS & COMPLETE FINAL INSPECTION

- **Clean the Installation.** Remove dust and installation debris from the posts and panel
- **Fit the Channel Covers.** Slide the supplied channel covers into any unused grooves in both posts. Ensure each cover is fully seated, straight and securely retained in the post channel
- **Fit the Post Caps.** Position the post caps squarely over the post openings and press them firmly into place

