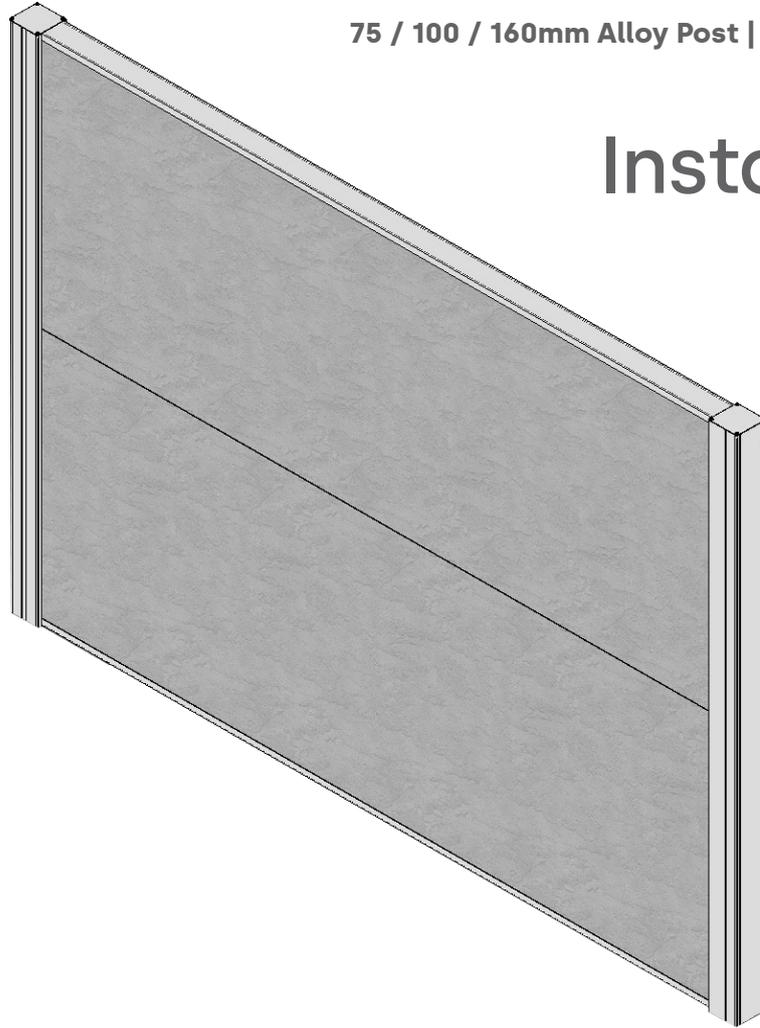


# EvoWall

75 / 100 / 160mm Alloy Post | 50 or 75mm Panels

## Installation Guide



Sleek Modern Privacy  
Walling System

**Wallmark**  
wallmark.com.au



# EvoWall

## Sleek Modern Privacy Wall

The EvoWall system will provide you with many years of trouble-free protection if installed in accordance with our directions

### Safety

- It is the installers responsibility for site safety
- The installer must wear/use appropriate safety equipment at all times
- No person should lift a wall panel alone
- Care should be taken at all times when using power tools to prevent severe injury
- Extra caution should be taken at all times when handling any posts, wall capping, insert panels or slats, as the metal edges are sharp and will cut
- This includes the assembly of the wall panels and the exposure to the unprotected post tops
- Holes in the ground should never be left uncovered

### Panels

The edges of the wall panels are fragile until assembled – care should be taken not to drop or bump the panel edges

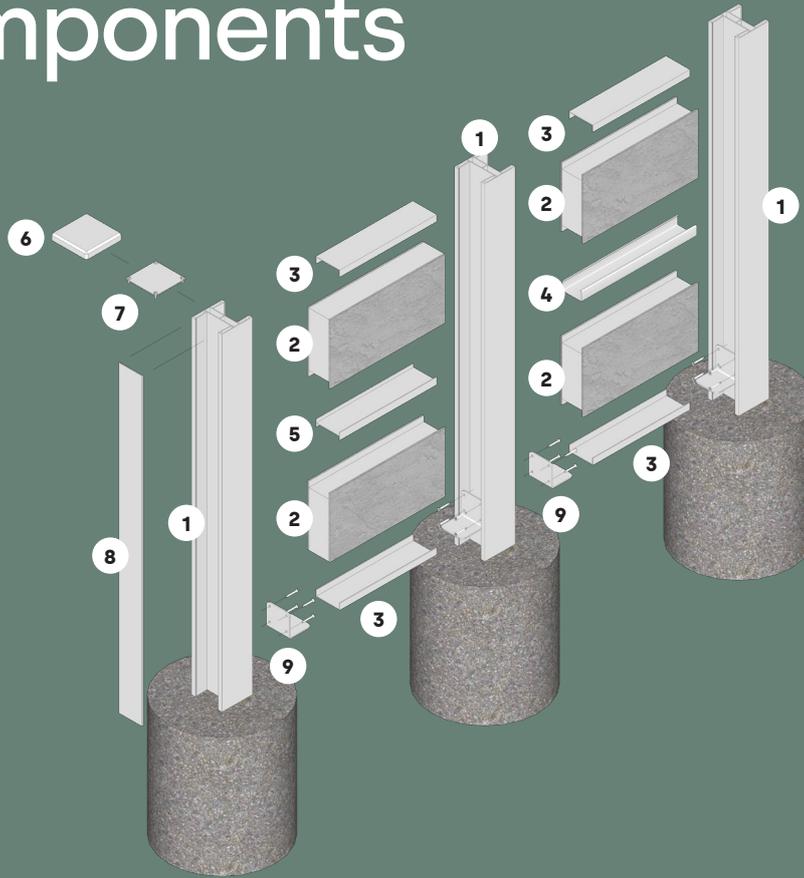
### Installation

- Wallmark will take no responsibility for the incorrect information supplied by the customer
- The customer takes responsibility for all information on the installation drawings used
- The posts must be installed and concreted correctly in accordance with the engineering specifications supplied by Wallmark. Failure to comply will void any and all warranties offered by Wallmark
- If/where a panel cut width is specified on the installation drawing, the installer will accurately measure between the posts and check the measurement before cutting the panel

### Specifications

<b>Wall Height</b>	Up to 4000mm
<b>Post Size</b>	75 x 75mm 100 x 100mm 160 x 160mm
<b>Post Material</b>	Aluminium
<b>Panel Thickness</b>	50 or 75mm
<b>Panel Length</b>	2400 or 3000mm

# Components



## Posts



### 1. Alloy Post

75 x 75mm - A75CE  
Length Options (mm)  
1800 | 2100

100 x 100mm - A100CE  
Length Options (mm)  
2300 | 2700 | 3000

160 x 160mm - A160CE  
Length Options (mm)  
up to 4000

## Capping Options



### 3. Alloy Flush Capping

AFC > 2350 | 2950

## Joiner Options



### 4. Gal Internal Panel Joiner

PJT > 2350 | 2950



### 5. Alloy Panel Joiner

PJT > 2350 | 2950

## Infill & Brackets



### 8. Alloy Infill

AINF 2400



### 9. Wall Support Bracket

WSB

## Panels



### 2. Wall Panel

Single & Double Rebate

WP 924 > 900H x 2400L

WP 1224 > 1200H x 2400L

WP 930 > 900H x 3000L

WP 1230 > 1200H x 3000L

## Alloy Post Cap Options



### 6. Alloy Plateau Post Cap

APC100P



### 7. Alloy Horizon Post Cap

APC100H

All Measurements in mm

# Tools



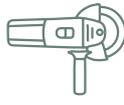
Drill



Construction Adhesive



Circular Saw



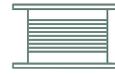
Angle Grinder



Shovel



Spirit Level



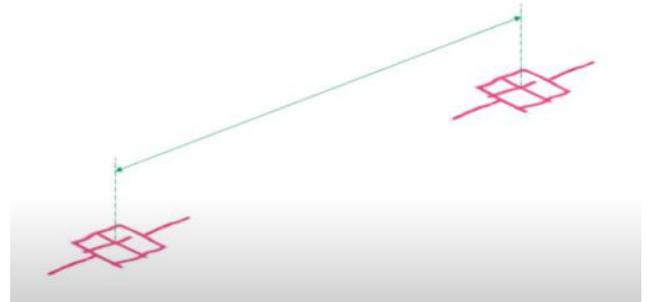
String Line



Tape Measure

## Step 1

Measure your post positions out accurately and mark with fluorescent paint.



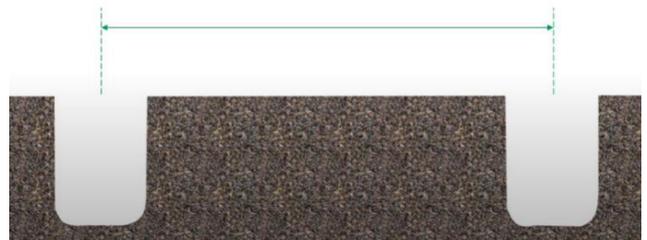
## Step 2

Drill or dig holes in accordance with our drawing specifications



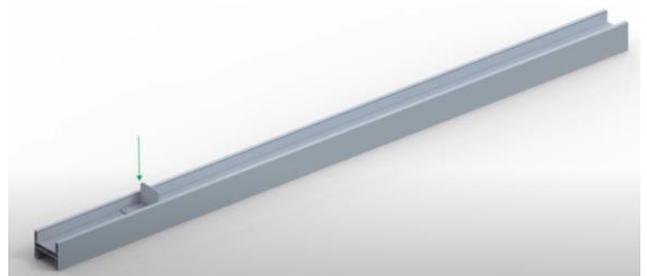
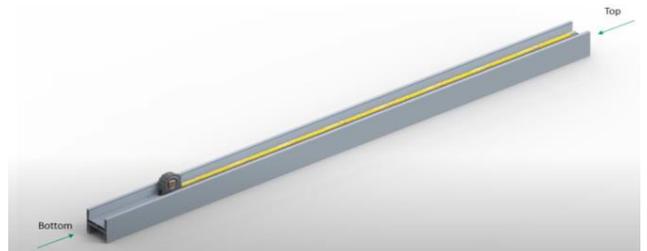
## Step 3

Standard 2400mm panel is 2440mm C/C - 3000mm panel 3040mm C/C.



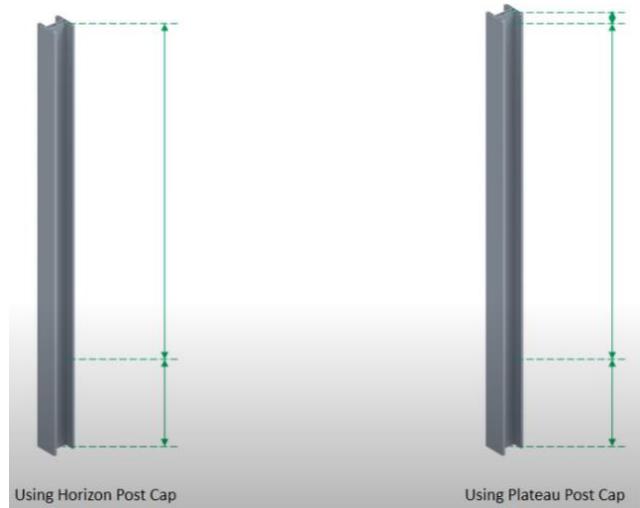
## Step 4

Measure accurately and mark the bottom angle bracket position on both sides of the post - screw brackets on. (These are used to support the wall panels).



## Step 5

Allow for selected Post Cap. Wall support bracket may have to be mounted at different height positions on opposite sides of the post if the wall is being installed on sloping ground.



## Step 6

Install a stringline in the position you require the post faces to be in.



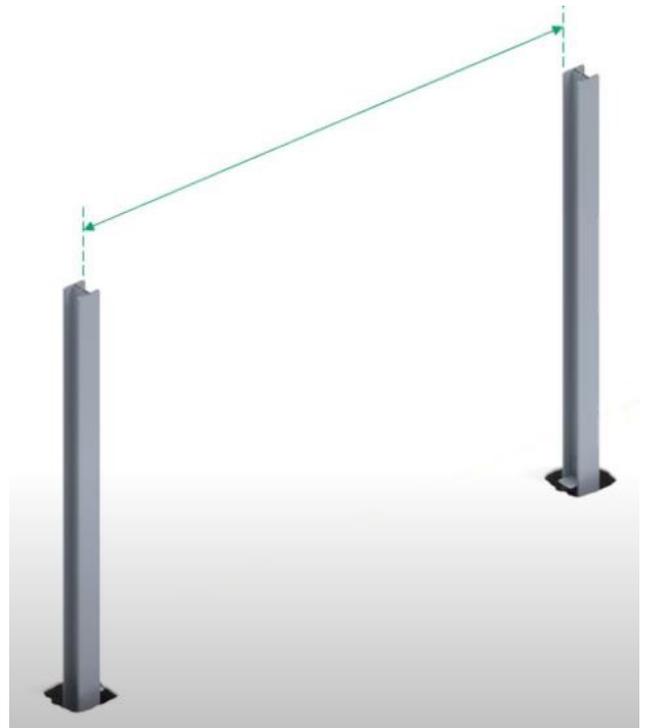
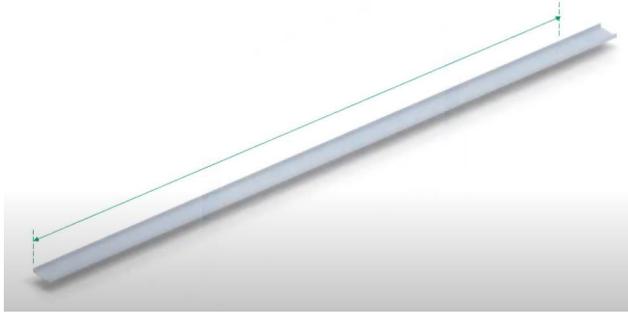
## Step 7

Place the posts into the holes

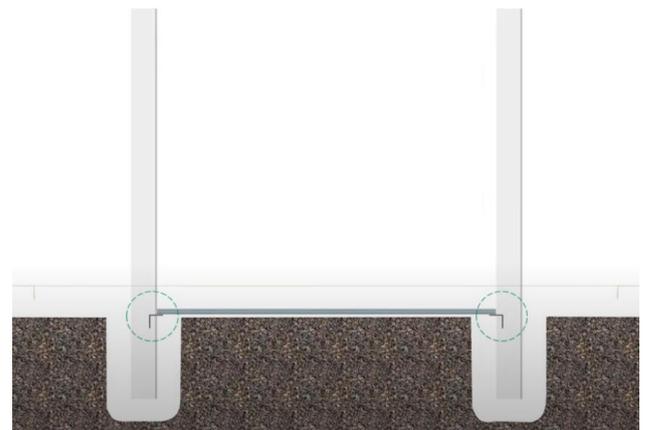


# Step 8

Layout the bottom flush cappings down between the posts, cutting to length if required.



This will help determine the post spacing and levels while concreting



# Step 9

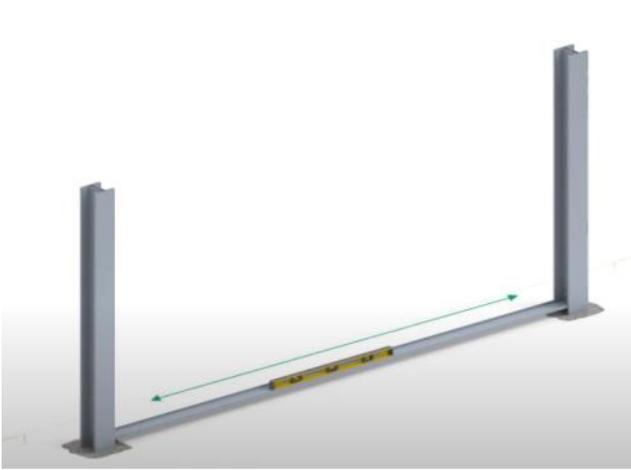
Pour concrete around each post and set as you go. (We do not recommend the use of fast curing concrete due to its inferior properties over standard concrete).



Step 8 to 9

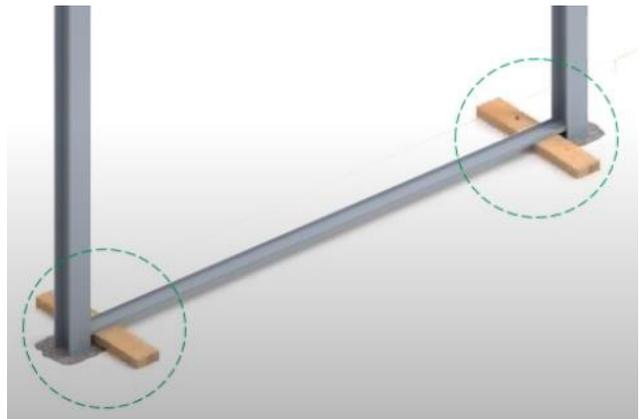
# Step 10

Critical points to check are; post alignment (with other posts), post height and post plumb. Allow for the concrete to set overnight.



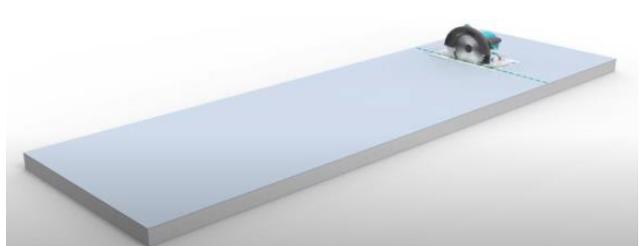
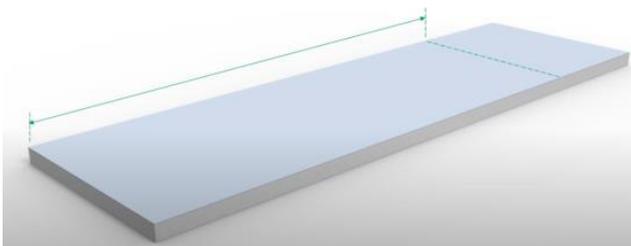
# Step 11

Use a piece of timber under the bottom angle bracket to assist in setting post height and prevent post sinking while concrete is setting.



# Step 12

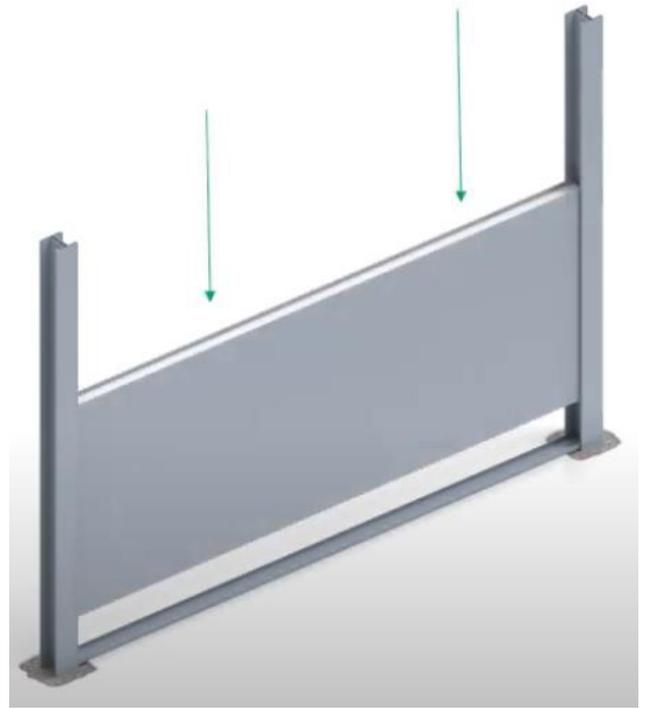
Measure the distance between the rebates then deduct 20mm to allow 10mm clearance on both ends. Cut each lower wall panel to correct length. Dust mask must be worn whilst cutting.



Step 10 to 12

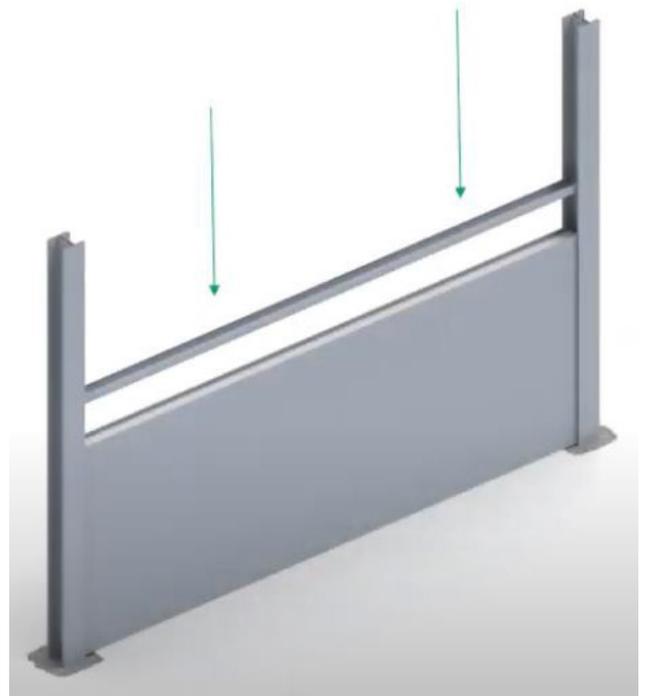
# Step 13

Install the lower wall panel with the rebate facing up, ensuring the bottom channel fits correctly.



# Step 14

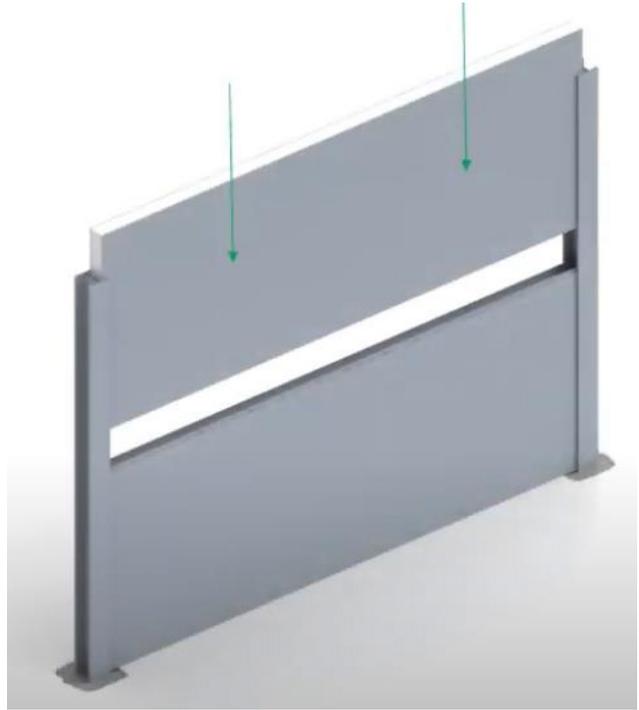
Insert the panel joiner tube (if wall is higher than 1200mm)



Step 13 to 14

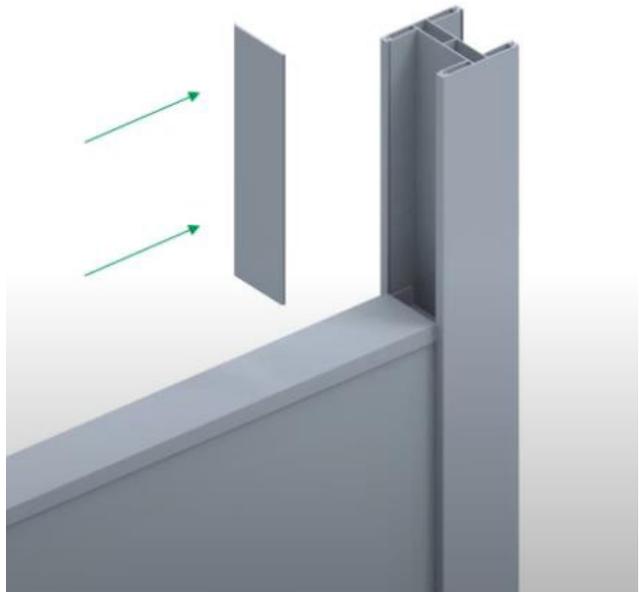
# Step 15

Install the next panel with the rebate facing down.



# Step 16

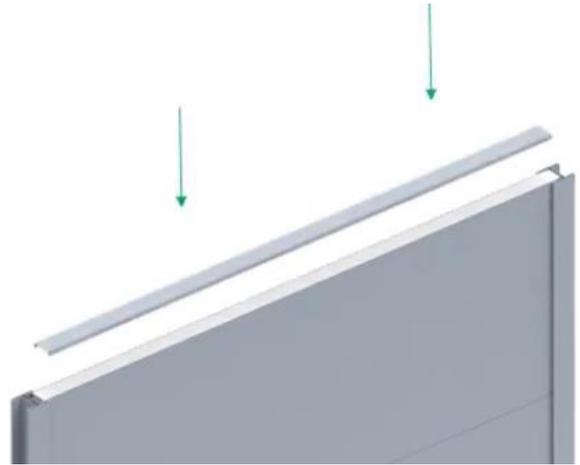
If required, measure accurately and cut post infill strips to length. Slide infills into the groove from above.



Step 15 to 16

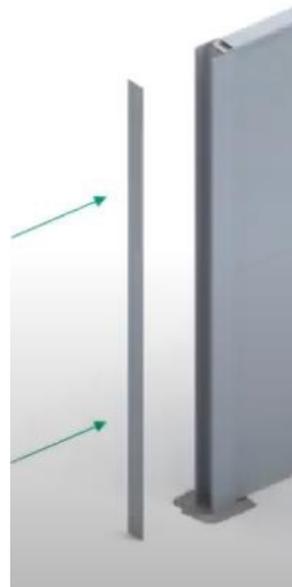
## Step 17

Run a bead of glue to the underside of the wall capping and install on top of panel.



## Step 18

For post ends, measure accurately and cut post infill strips to length.



## Step 19

Screw post caps into place

Finishing Notes:

If you are installing any variation to a solid wall (e.g. Metal Fence Panel inserts, Alloy Slats etc.) consider finish painting the wall first, then fixing the variation panels or slats in afterwards.

**The wall panels must be coated within 30 days of install.**

All posts and capping must be lightly scoured with an abrasive pad before any coatings are applied. This is to ensure a proper adhesion of the paint to these surfaces.



# Certification

# Warranty



**HOLMES McLEOD**  
CONSULTING ENGINEERS PTY LTD

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[www.holmesmcleod.com.au](http://www.holmesmcleod.com.au)

**Structural Certification**

As a professional engineer, qualified and experienced in engineering design, I certify that the Techniko wall system information attached has been prepared in accordance with soundly based and widely recognised engineering principles.

Design loading for each application were obtained in accordance with AS1170.1, AS1170.2 and AS4055 as appropriate.

Structural design has been performed in accordance with AS4100 and AS/NZS 1664.1. Techniko posts have been physically tested to determine ultimate load capacities.

When installed in accordance with the specifications, details and limitations in this brochure, Wallmark walls will comply with the requirements of the Building Code of Australia.

References:

1. AS1170.1 – 2002 Loading Code Part 1 Permanent; Imposed and Other Actions
2. AS1170.2 – 2011 Loading Code Part 2 Wind Loads
3. AS4055 – 2006 Wind Loads for Housing
4. AS4100 – Steel Structures Code
5. BCA Volume One and Two – Building Code of Australia
6. AS3600 – 2009 Concrete Structures
7. AS/NZS 4600 – 2005 Cold Formed Steel Structures



Mary Holmes, BE, EPE Aust, EC 26471, REPQ 3786  
Registered Building Practitioner  
For and on behalf of Holmes McLeod Consulting Engineers Pty Ltd

Date: 26 September 2019

WALLMARK PTY LTD warrants that for a period of ten (10) years from the date of construction of any wall panel that the panels will not delaminate due to faulty glue and will maintain their structural integrity.

Wallmark warrant that they will resupply wall panels for any area that is proven to the satisfaction of Wallmark to have failed to comply with the terms of the above warranty provided that the warranty shall not apply if:-

- Wallmark's directions and specifications in relation to the use, application and construction of the wall panel surface has not been followed strictly;
- The default is of minor cosmetic nature only such as fading, crazing or discoloration;
- The failure of structural integrity or delamination is as a result of normal wear and tear, vandalism, negligence, third party acts, improper installation with engineering specifications, chemical abrasion, chemical contamination, explosion, pest, fire, act of God or circumstances reasonably beyond the control of Wallmark;
- The products have been tampered with or altered or modified by a person not approved by Wallmark or have been installed contrary to specifications;
- The product is used in an area where it is exposed to salt or other elements contrary to the specifications provided by Wallmark;
- The purchaser did not, within fourteen (14) days of discovery of the defect or defects give written notice to the EvoWall supplier and provide proof of purchase including but not limited to original invoice and facilitate Wallmark or their authorised officer attending at the property to inspect the damage.

Wallmark will, in accordance with the warranty provided here in, at their sole discretion, elect to replace or repair part or parts of the material within their sole discretion to be found to be defective provided that there shall be no obligation upon Wallmark to pay the costs of removal or installation of the defective parts nor pay the transportation costs related with the return of the defective part or parts.

# Technical Information

## Maximum Post Height & Wind Regions

Panel Length	Wall Height			
	1200	1800	2100	2400
2400	C1	N3	N2	N2
3000	N3	N2	N2	-

## Footing Depths for 300mm Diameter Footing for various Wind Regions

Panel Length	Wall Height			
	1200	1800	2100	2400
2400	N2 - 600	N2 - 600	N2 - 700	N2 - 700
	N3 - 600	N3 - 700	-	-
	C1 - 700	-	-	-
3000	N2 - 600	N2 - 600	N2 - 700	-
	N3 - 600	-	-	-

Certification & Warranty

# The Wallmark Advantage



## Innovative Solutions

We offer custom designed solutions for a wide range of industry sectors and applications.



## Full Accreditation

Our products been approved by NATA. Our reflective noise walls also boast an acoustic rating of RW28 and our absorptive walls an NRC rating of 0.95.



## Project Collaboration

We manage your project from the design process right through to completion using world class tradespeople and consultants.



## Australian Made

Over 2 decades of trust and experience in the Australian construction industry.

At Wallmark, we recognise that when it comes to architectural wall solutions, one design does not fit all. We look forward to working hand in hand with you to solve your acoustic privacy wall challenges.

To find out more about our Smart Acoustic Wall Solutions visit [www.wallmark.com.au](http://www.wallmark.com.au) or call **02 6057 7600**.

