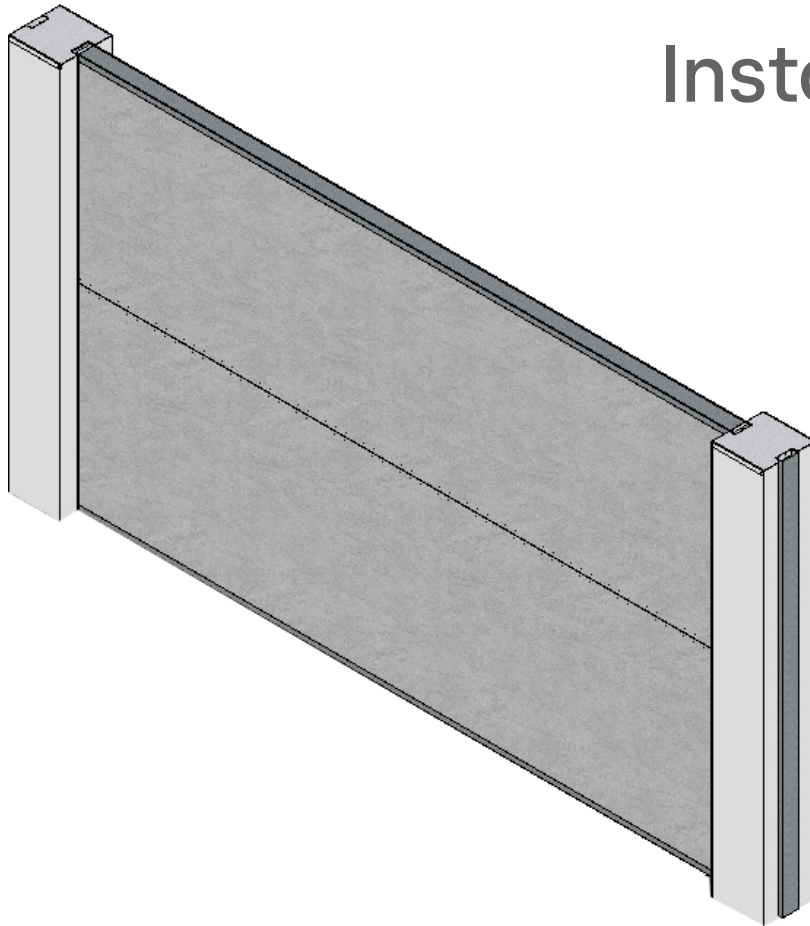


UrbanWall

240mm Steel Post | 75mm Panels

Installation Guide



Masonry Style Feature Walling System



UrbanWall

Masonry Style Feature Wall

The UrbanWall 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

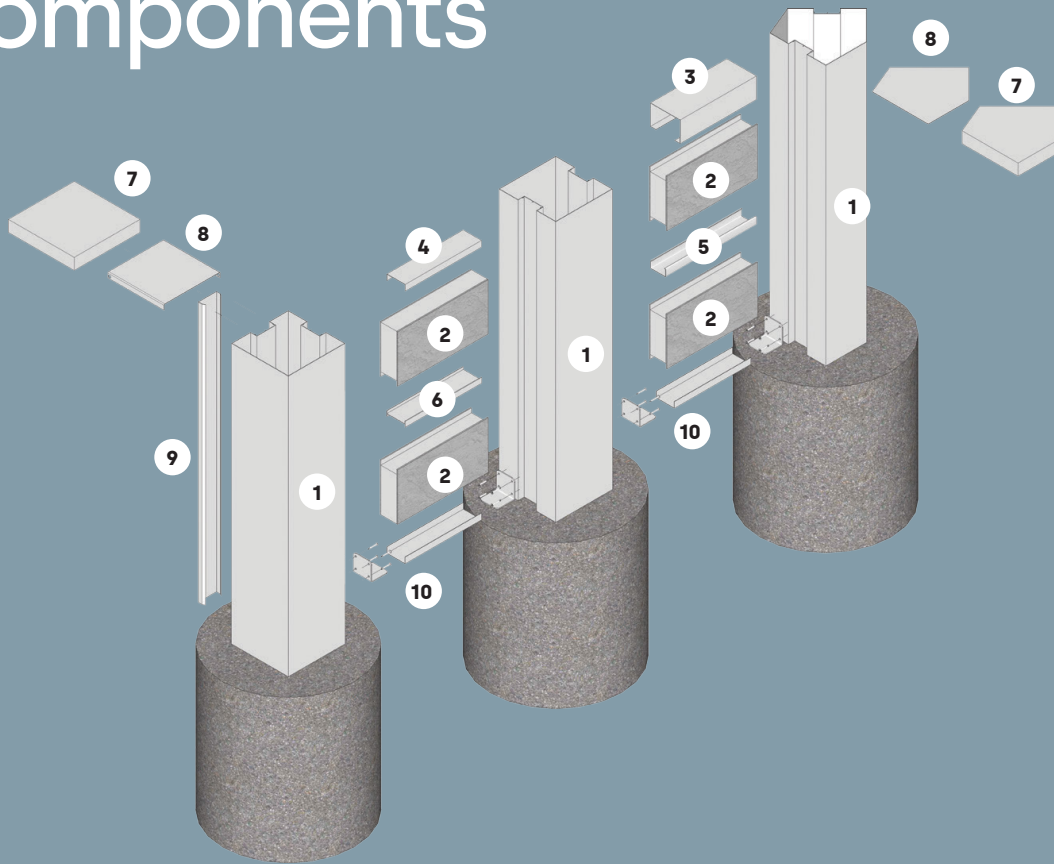
Installation

- 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

Wall Height	Up to 3000mm
Post Size	240mm x 240mm
Post Material	Folded Steel
Panel Thickness	75mm
Panel Length	2400mm
Fence Heights	900mm 1200mm 1800mm 2100mm 2400mm 3000mm

Components



Posts



1. Gal Post

1450 - 1850 | 2150
2550 - 2950 | 3250
3650 - 3950

Capping Options



3. Gal Box Capping

BCZ > 2370 | 2970



4. Gal Flush Capping

FCZ > 2400 | 3000

Additional



9. Gal Infill

ZINF 300 | 450 | 600 | 900 | 1200
| 1500 | 1800 | 2100 | 2400 | 2700
| 3000H



10. 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

Joiner Options



5. Gal Internal Panel Joiner

PJT > 2395 | 2995



6. Alloy External Panel Joiner

APJ > 2350 | 2950

Alloy Post Cap Options



7. Plateau Post Cap

PCP240



8. Horizon Post Cap

PCH240

All Measurements in mm

Tools



Cordless Drill
& Hex Head
Driver Bit



Circular Saw
& Hand Saw



Angle
Grinder



Post Hole
Shovel



Square
& Spirit
Level



String Line &
Line Marking
Paint



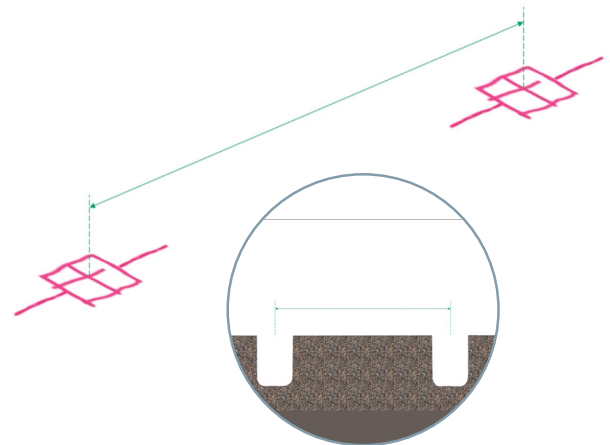
Tape Measure



Cement Mixer
& Wheel barrow

Step 1

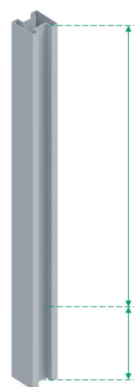
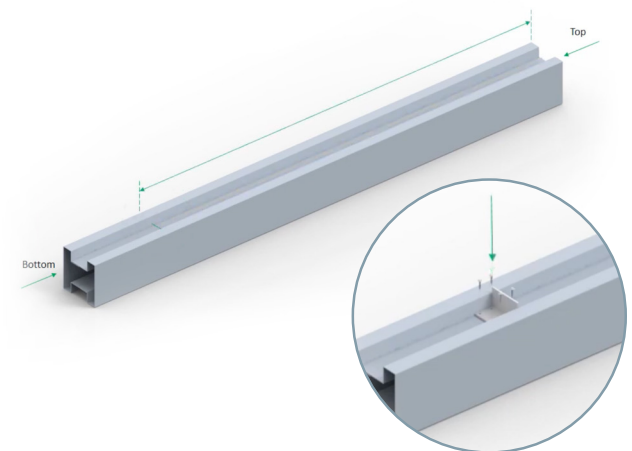
Measure your posts positions out accurately and mark with fluorescent paint.



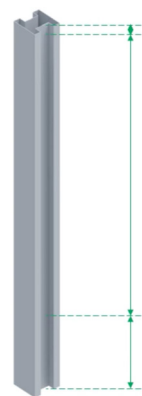
Step 2

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).

Note: Bottom angle brackets may have to be mounted at a different height position on opposite sides of the post if the wall is being installed on sloping ground.



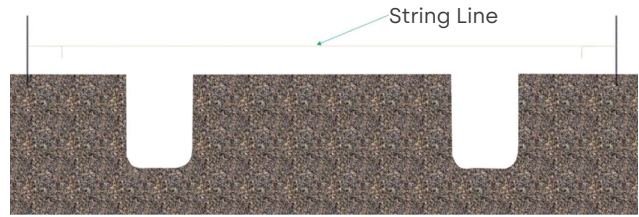
Using Horizon
Post Cap



Using Plateau
Post Cap

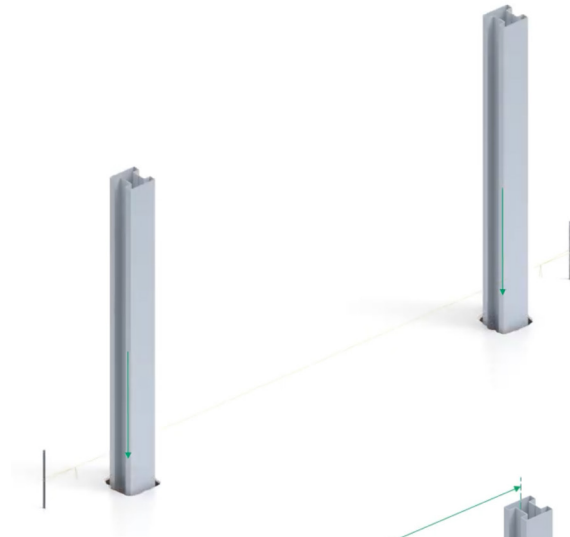
Step 3

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



Step 4

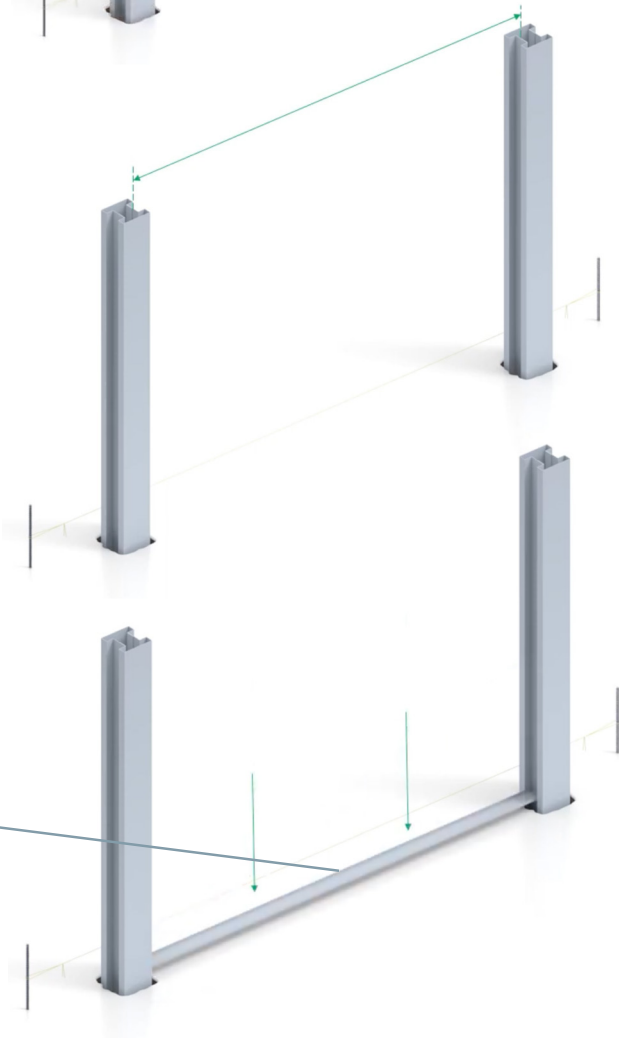
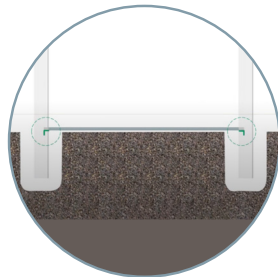
Place the posts into the holes



Step 5

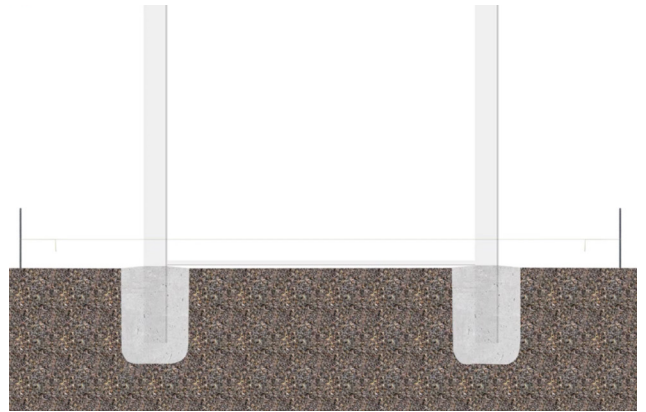
Layout the bottom channels base down between the posts, cutting to length if required. (These help determine the post spacing and levels whilst concreting).

Note: Allow minimum 5mm clearance between channel and post at each end to facilitate ease of panel installation later on.



Step 6

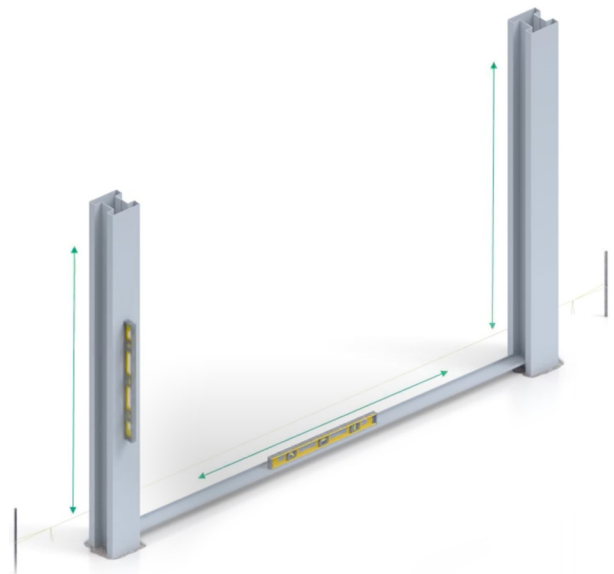
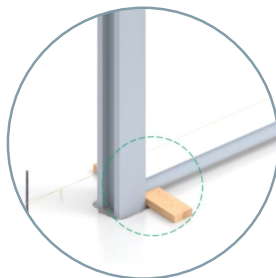
Pour concrete around each post and set as you go. (We do not recommend the use of fast curing concrete, due to it's inferior properties over standard concrete).



Step 7

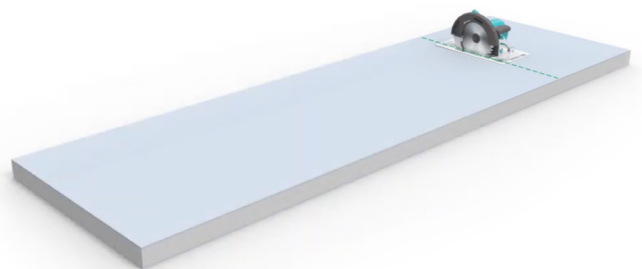
Critical points to check are; post alignment (with other posts), post height and post plumb. Allow for the concrete to set overnight.

Note: 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 8

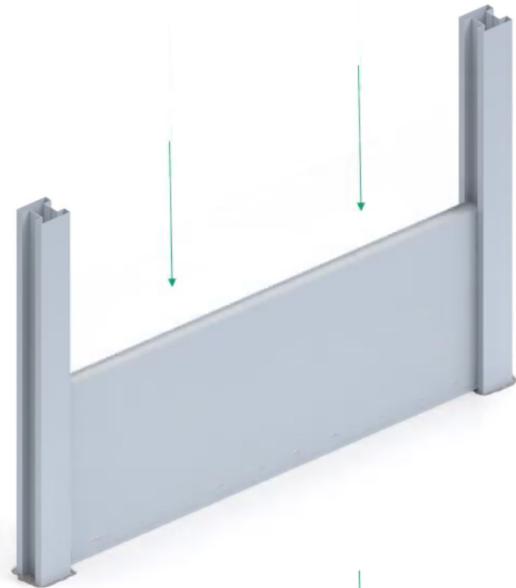
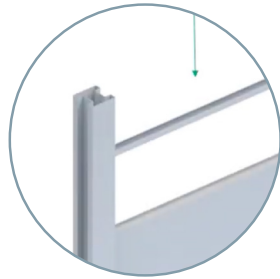
Use lower channel to mark and then cut each lower wall panel to correct length (if required). Dust mask must be worn whilst cutting.



Step 9

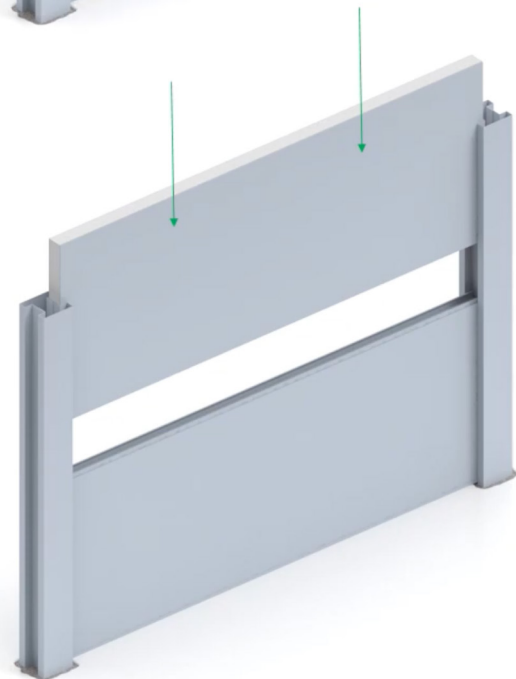
Install the lower wall panel, ensuring the bottom channel fits correctly.

Note: Insert the panel joining tube (if wall is higher than 900mm)



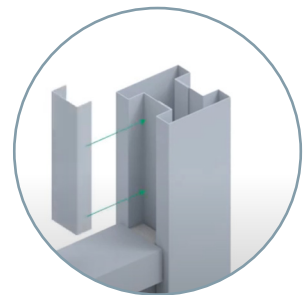
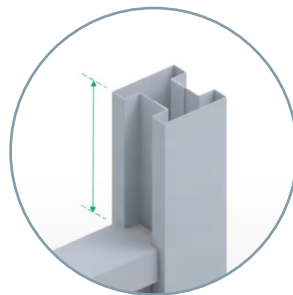
Step 10

Install next panel



Step 11

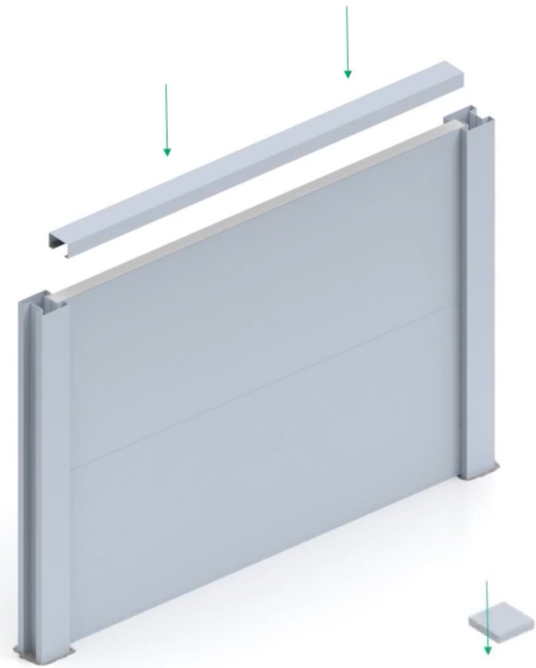
Cut to length and snap in any post groove infill if required. Measure accurately and cut to size the wall capping.



Step 9 to 11

Step 12

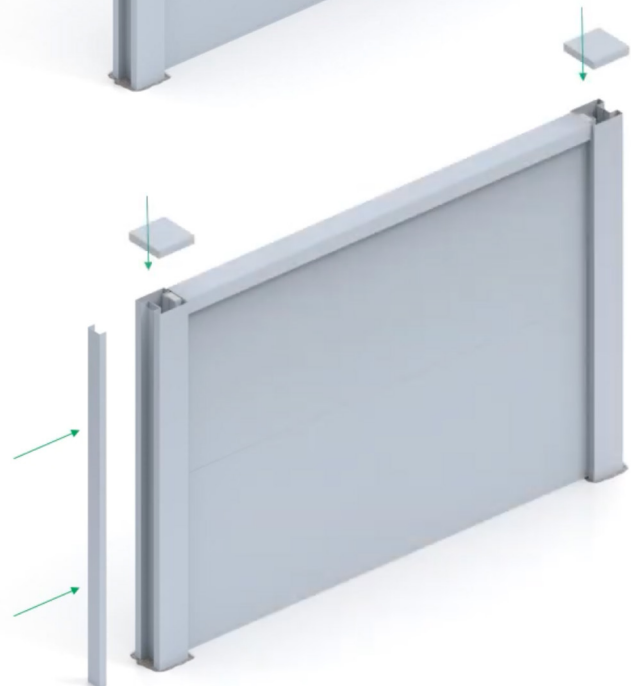
Glue firstly the wall capping followed by the post caps, using the construction adhesive supplied. Flush capping must be glued with sealant on all sides).



Step 13

On the end post, insert the panel infill for a flush look

Note: If you have any variation to a solid wall (metal fence inserts or slats), finish coating your wall first, then fix the panels in using the mounting options supplied.




Wall Finish

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 on these surfaces.

Certification

Warranty



HOLMES McLEOD
CONSULTING ENGINEERS PTY LTD
ACN 053 696 272 ABN 36 104 715 751
STRUCTURAL CIVIL HYDRAULIC

451 Raglan Parade
Warrnambool, VIC 3280
E: Vico@holmesmcleod.com.au
P: (053) 5562 9990
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, FIE 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 UrbanWall 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 herein, 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	2700
2400	C2	C2	C2	C1	C1
3000	N3	N3	N3	N3	N3

Footing Depths for 450mm Diameter Footing for various Wind Regions

Panel Length	Wall Height				
	1200	1800	2100	2400	2700
2400	N2 - 700	N2 - 800	N2 - 850	N2 - 950	N2 - 950
	N3 - 800	N3 - 900	N3 - 1000	N3 - 1000	N3 - 1100
	C1 - 900	C1 - 1000	C1 - 1000	C1 - 1100	C1 - 1200
	C2 - 900	C2 - 1050	C2 - 1150	-	-
3000	N2 - 750	N2 - 850	N2 - 950	N2 - 950	N2 - 1050
	N3 - 850	N3 - 1000	N3 - 1000	N3 - 1000	N3 - 1200

NOTE N2 - 700 Denotes 450 Diameter x 700 Deep Footing for Wind Region N2

The Wallmark Advantage



Innovative Solutions

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



Full Accreditation

Our products have 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 or call **02 6057 7600**.

