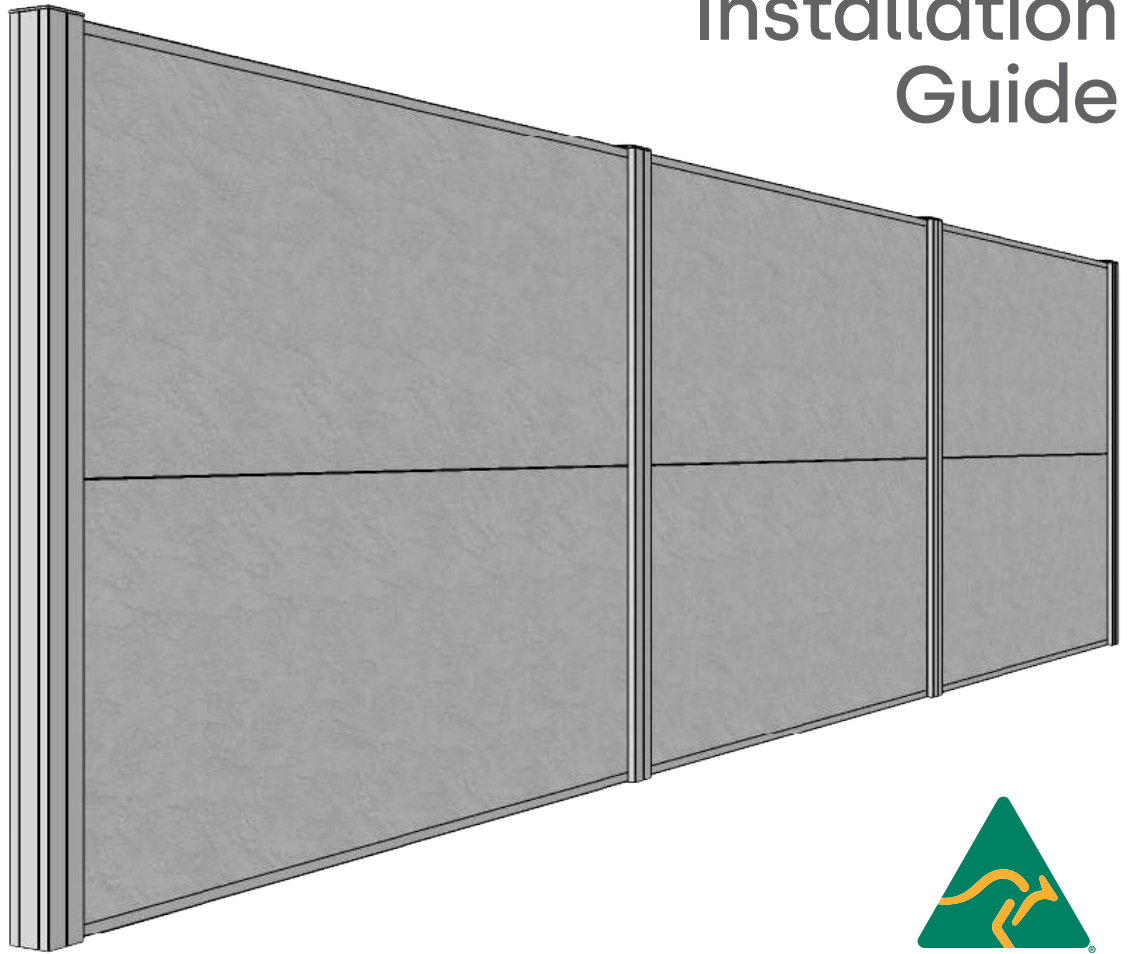


Techniko

100mm Galvanised Post | 50mm Panels

Installation Guide



Modular Panel Fence System

Wallmark
wallmark.com.au



Techniko

Modular Panel Fence

The TechnikoWall 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

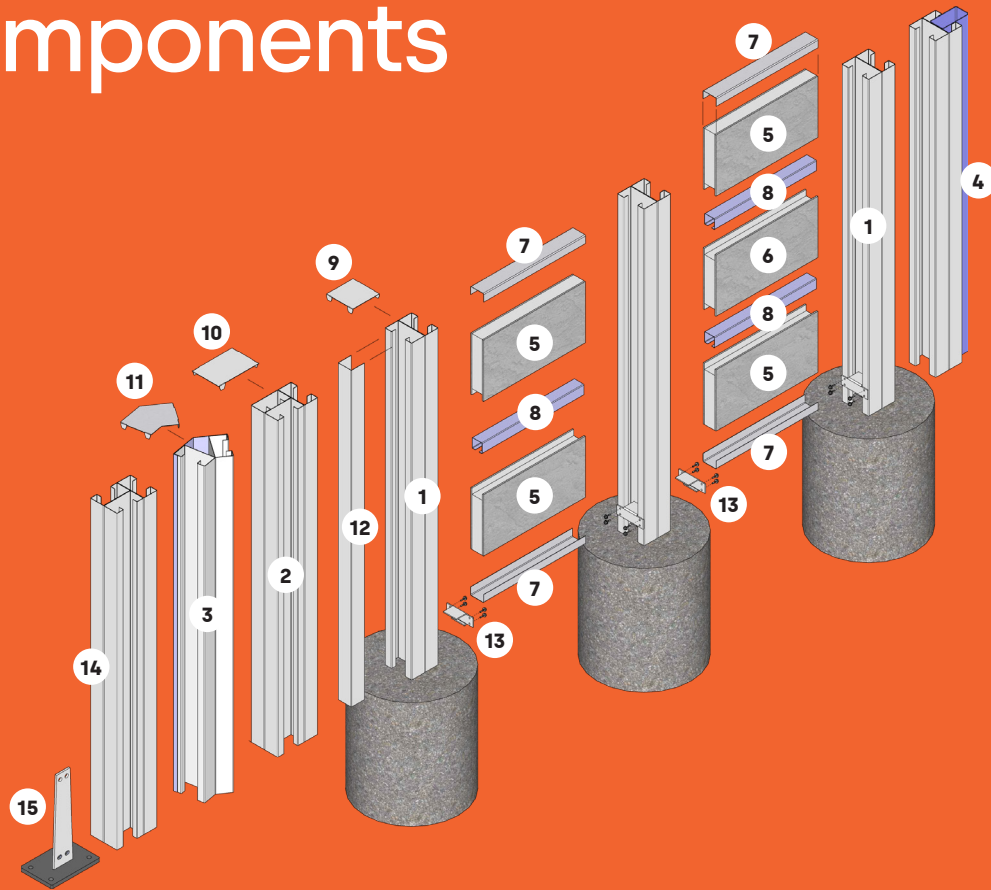
Installation

- 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	100mm x 100mm
Post Material	Folded Steel
Panel Thickness	50mm
Panel Length	2400mm
Fence Heights	900mm 1200mm 1800mm 2100mm 2400mm 3000mm

Components



Posts



1. Centre Post
TK100CE
900/1200/1800/2100/
2400/2700/3000 High



2. Corner Post
TK100CP
900/1200/1800/2100/
2400/2700/3000 High



3. Angle Post
TK100AN
900/1200/1800/2100/
2400/2700/3000 High



4. Gate Post
TKGPOST
900/1200/1800/2100/
2400/2700/3000 High

Panels



5. Wall Panel Single Rebate
WP50
900H x 2400W
1200H x 2400W



6. Wall Panel Double Rebate
WP50D
900H x 2400W
1200H x 2400W

Capping / Joiner



7. Flush Capping
FC5024



8. Internal Panel Joiner
PJT5024

Post Caps



9. Post Cap
PCTK100



10. Corner Post Cap
PCTK150



11. Angle Post Cap
PCTKAN

Additional



12. Post Infill
ZINF50
1800/2100/2400/2700/3000



13. Wall Support Bracket
WSBT



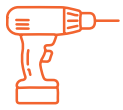
14. Tee Post
TK100T



15. Base Plate
TKBDB

All Measurements in mm

Tools



Drill



Construction
Adhesive



Circular Saw



Angle Grinder



Shovel



Spirit Level



String Line

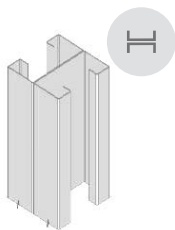


Tape Measure

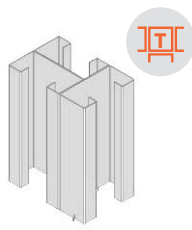
Step 1

Measure all post positions out accurately and mark with florescent paint. Drill or dig the holes in accordance with our drawing specification.

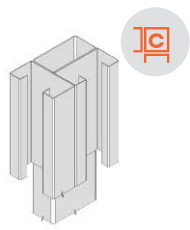
NOTE Our site measure guide and template can be downloaded from the website.



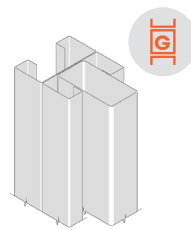
Centre Post



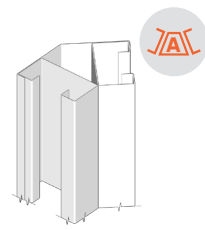
Tee Post



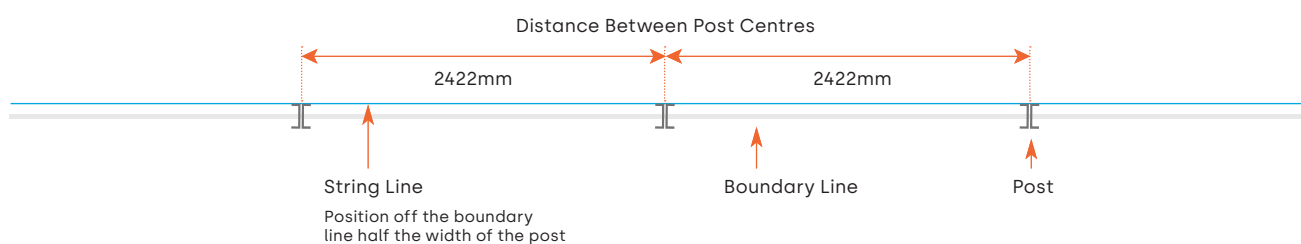
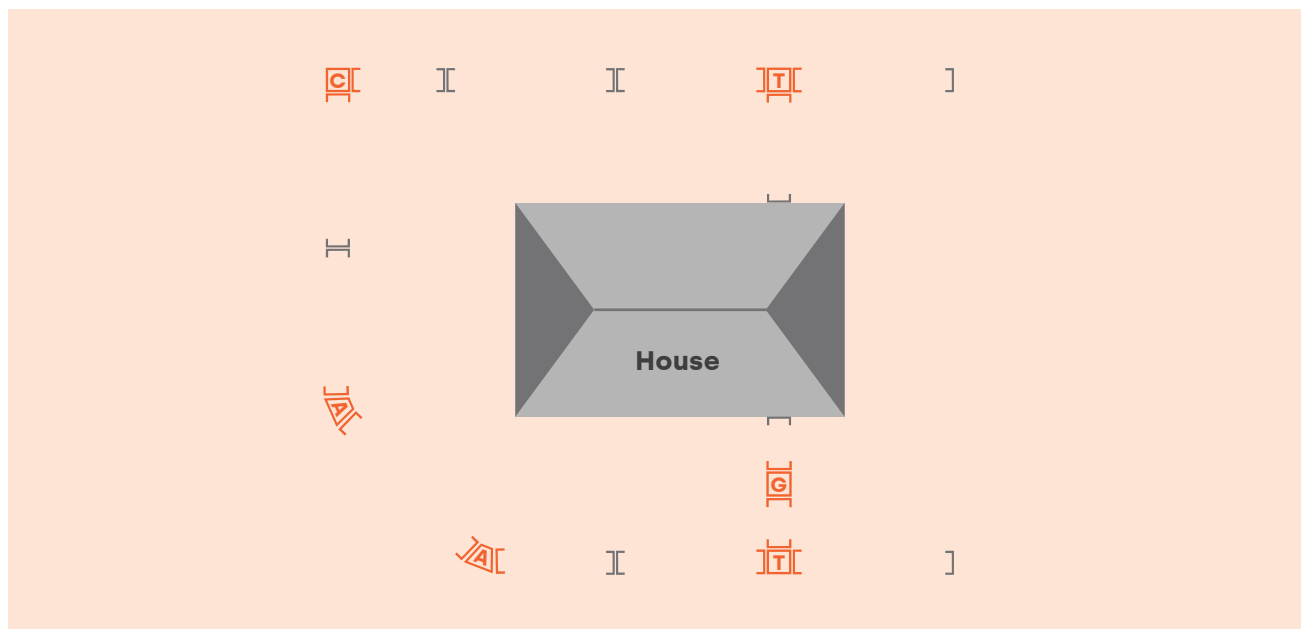
Corner Post



Gate Post



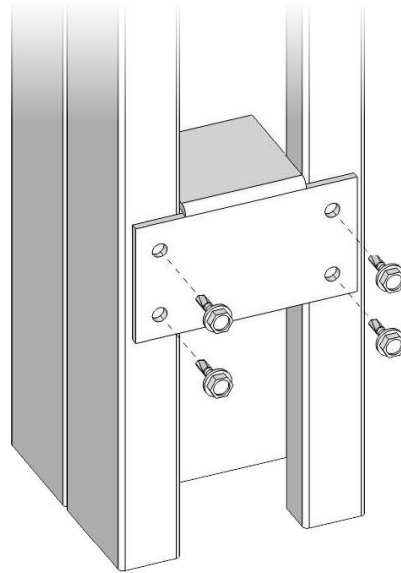
Angle Post



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).

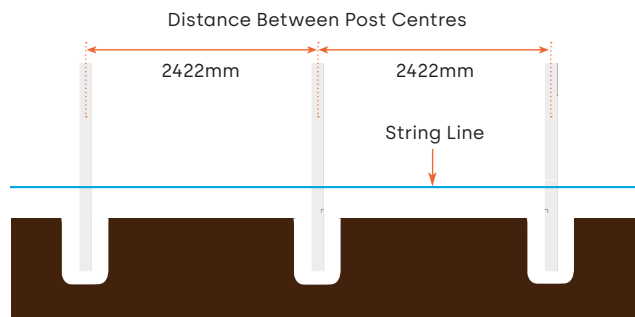
NOTE Remember to allow for any stepping or raking of the fence panels to accommodate landfalls.



Step 3

Install a string line in the position you require the post faces to be in. Place the posts in the holes and lay out the bottom channels base down between the posts to help determine the post spacing and levels whilst concreting.

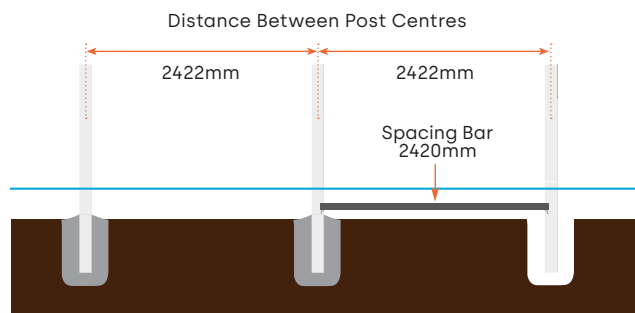
NOTE Allow minimum 10mm clearance between channel and post at each end to facilitate ease of panel installation later on.



Step 4

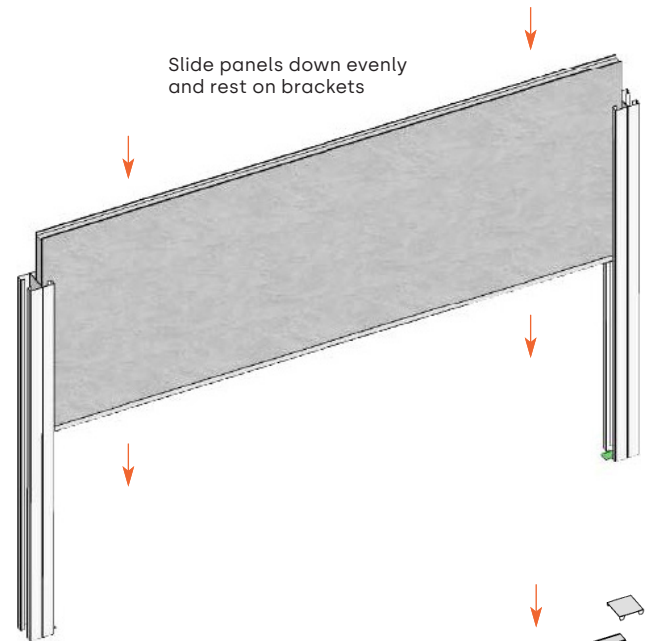
Pour concrete around each post and set as you go. Critical points to check are; post alignment (with other posts), post height and post plumb. Allow for the concrete to set overnight.

NOTE We do not recommend the use of fast curing concrete, due to its inferior properties over standard concrete.



Step 5

Install the lower wall panel, ensuring the bottom channel fits correctly. Insert the panel joining tube (if the wall is higher than 1200mm) and then install next panel. Snap in any post groove infills, if required.

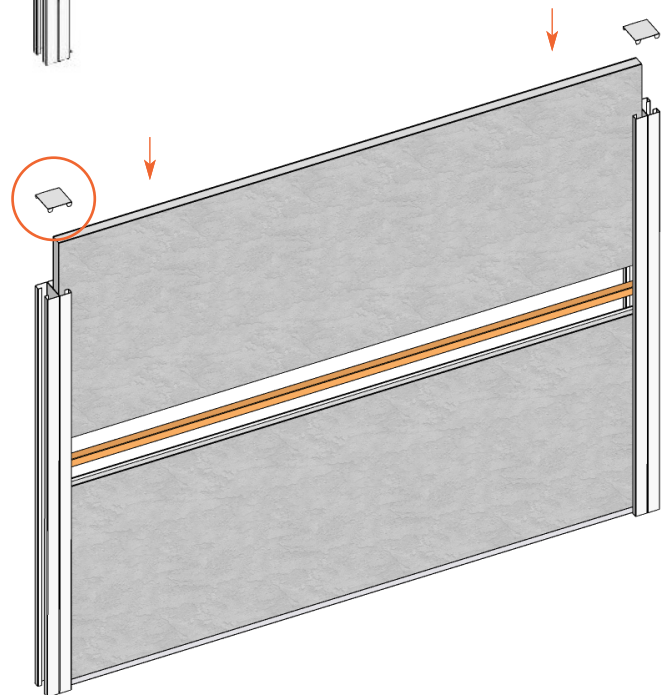


Step 6 & 7

Glue firstly the wall capping followed by the post caps, using construction adhesive.

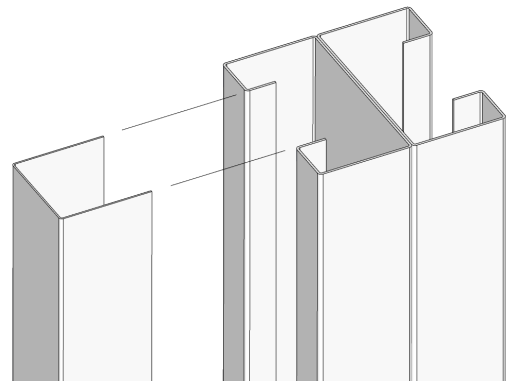
NOTE If you have any variation to a solid wall (metal fence insets or slats), fix the panels in using the mounting options supplied.

Top panel capping




Step 8

Insert Post Infills



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: Vicooffice@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, ECE 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 Techniko 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 Speeds

Panel Length	Wall Height			
	1800	2100	2400	3000
2400	50m/s	50m/s	40m/s	34m/s

Minimum Footing Depths for 2400mm Panels, 300mm Diameter Footings

Wind Speed	Wall Height					
	1200	1500	1800	2100	2400	3000
29m/s	600	600	600	600	600	800
34m/s (N1)	600	600	600	600	700	900
40m/s (N2)	600	600	600	700	800	-
50m/s (N3/C1)	600	700	800	900	-	-

NOTE Design assumes there is firmly compacted soil at surface around footings.
Corner and Angle Post Footing Diameter must be a minimum of 400mm.

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**.

