VistaWall

Producer Statement PS1

Pool Fencing and Fall Restraint Barriers

Engineering Specifications and Installation Details for Compliance with NZBC B1, F4, F9

Fentec

Property Enhancement
& Protection

Barrier specification selection guide

Clause F4 'Safety from Falling' of the New Zealand Building Code requires building areas to be constructed to reduce the likelihood of accidental falls. Specifically, barriers are required where people could fall one metre or more.

Barriers need to be designed and constructed so that they are capable of providing the strength and stiffness necessary for the proposed location and occupancy type of the property which they serve. Evidence of the suitability of the barrier system for its proposed use, needs to be provided when making a building consent application. This producer statement provides the assurance that Fentec product specifications and installation details have been pre-approved by Chartered Professional Engineers and comply with all NZBC B1, F4, F9 requirements.

It is important that your selected barrier design is appropriate to the specific installation location and intended use. Use this guide to determine your specific barrier design and installation details.

Generic producer statement

This is a generic Producer Statement, issued to Terranota Ltd, which provides the assurance that the proprietary products detailed in this document have been structurally engineered to comply with the New Zealand Building Code and the building code clauses as detailed, and for the application(s) as described in this document.

The fencing components detailed in this Producer Statement are proprietary products, engineered to comply with the requirements of the stated building code clause. Of equal importance is the detail of the fixing method to ensure the correct installation of the proprietary components. To this end, most common installation applications have been illustrated with appropriate details to ensure a safe and compliant fence/balustrade.

The structure (or ground conditions) to which the proprietary components are installed is the responsibility of the installer or end user, and it is recommended that an independent engineer is engaged to confirm the compliance of the structure (or ground condition) with the New Zealand Building Code. Where relevant, and when critical to the compliance of the proprietary components, this producer statement details specific requirements of the structure (or ground conditions) as a minimum standard.

It is the installer or end user's responsibility to ensure the proprietary components are installed accurately to the detail provided. If your particular structure design or application is not covered in the details provided, then this generic producer statement cannot be applied to your installation. In this instance, please contact Fentec to discuss a custom-engineered solution that will meet your requirements.

Barrier loading selection

Where a barrier serves multiple occupancies, default to the highest loading requirement from all location scenarios. For more information, please refer to www.building.govt.nz

Table A: Barrier Loading Selection

Occupancy Type	Building Code Clause	Specific Use	Horizontal Design Loading	Minimum Overall Barrier Height
A - Domestic	F9	Pool fence only	0.33kN	1.2m
A - Domestic	F4	All areas serving one dwelling but excluding balconies, decks & terraces, e.g., walkways, stairs & landings, & retaining walls not adjacent to a deck or terrace	0.35kN/m	1.0m 0.9m for stairs only
A - Domestic	F4	External balcony, decks, terraces, retaining walls & walkways in a multi-dwelling application, including open public spaces	0.75kN/m	1.0m single dwelling 1.1m multi dwelling
B & E - Offices & work areas including storage	F4	Access walkways, stairs & landings	0.35kN/m	1.1m
B & E - Offices & work areas including storage	F4	Areas including balconies, decks & terraces not susceptible to overcrowding	0.75kN/m	1.1m
C - Areas without obstacles for moving people & where people might congregate	F4	Areas including walkways, stairs & landings, balconeis, decks & terraces not susceptible to overcrowding, including parks and reserves	0.75kN/m	1.1m

Fixing types

There are four corrosion zones in New Zealand that relate to the severity of exposure to wind-driven salt. To determine the corrosion zone for your installation location, please check maps in Figure 4.2 in NZS3604:201 (or online search 'BRANZ Maps'). Use the table below to determine the appropriate fixing types required for your particular location.

Table B: Fixing Types

Zone	Risk Level & Location	Fixing Type
Zone B	Low risk	Hot dip galvinised
Zone C	Medium risk	Hot dip galvinised
Zone D	High risk, all offshore locations within 500m of coastline, including harbours, locations within 100m of tidal estuaries & sheltered inlets	316 stainless steel
Zone E	Very high risk, locations described in Zone D, beachfronts & seaside locations	316 stainless steel

Wind zones

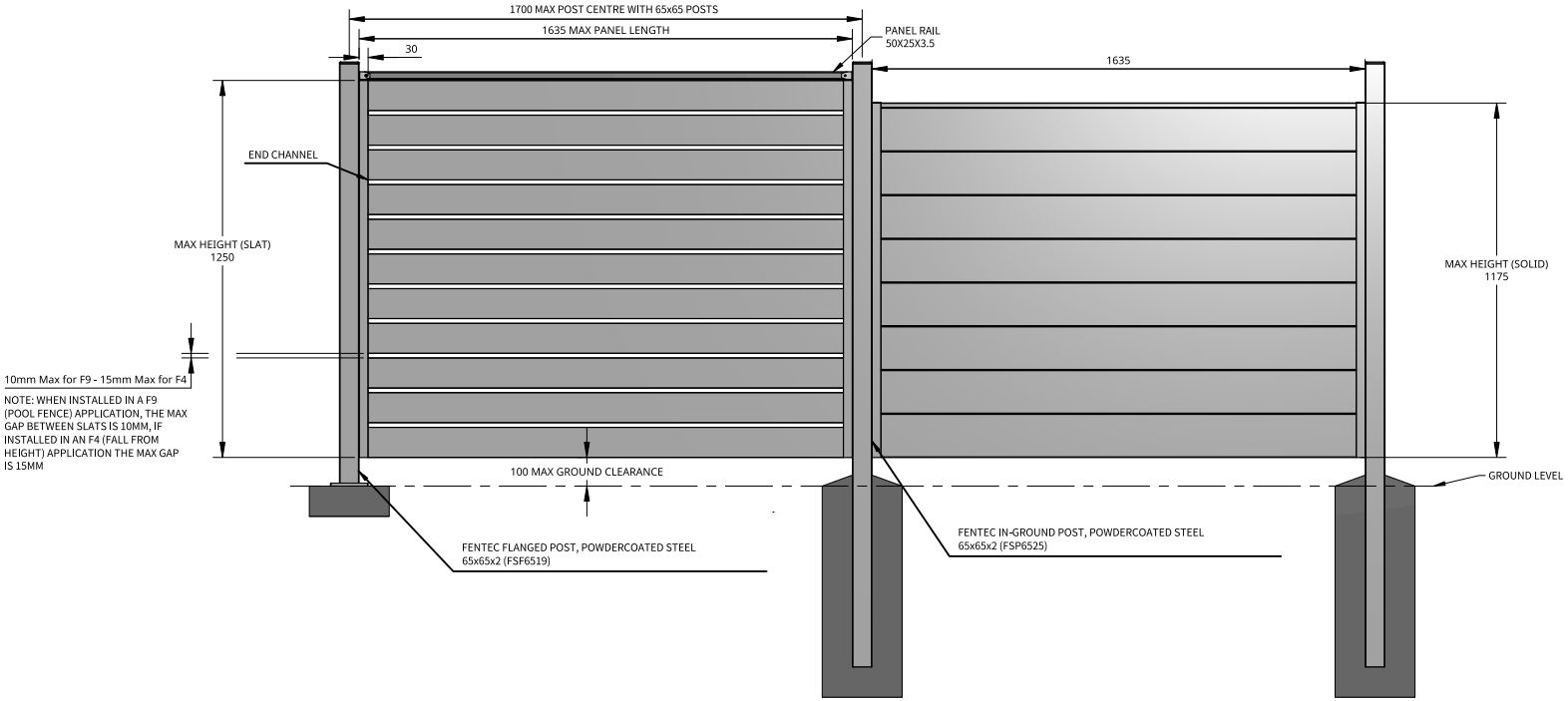
There are five main Wind Zones in New Zealand: Low, Medium, High, Very High, and Extra High. All details in this Producer Statement have been engineered to **Medium** wind zone. If your property falls into a higher wind zone, please contact Fentec to discuss a custom-engineered solution to meet your requirements.

To identify the wind zone at your site location, search for BRANZ Maps, turn on the 'Wind Regions' layer, and search your site address. If it is unclear what wind zone applies to your site, please contact your engineer to calculate the wind zone for your property.

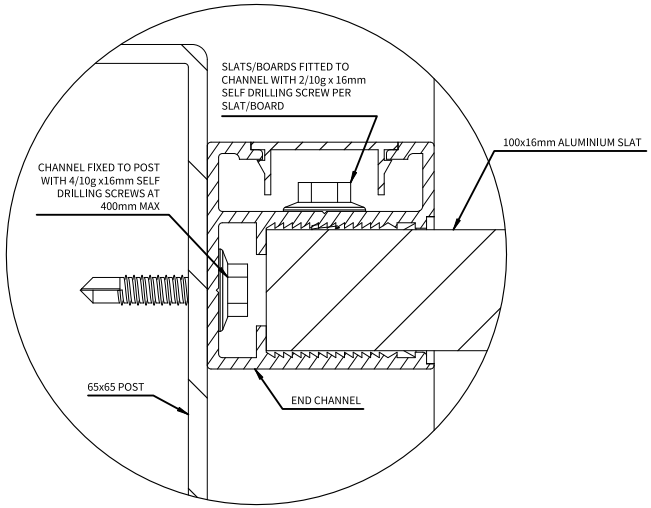
For properties that fall into a high or very high wind zone, but are in a built-up area, it may be beneficial to engage a Professional Engineer to calculate the specific wind zone for your site, as terrain and adjacent structures can impact the wind zone applicable to your particular site. A means of determining the wind zone for a specific location is in detailed in NZS 3604:2011.

Post fixing details

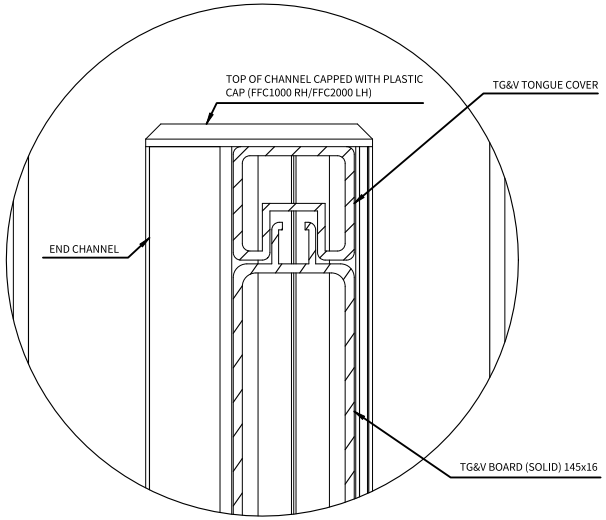
The following pages detail common and standardised methods for fixing the barrier to various structures. First determine the barrier loading using the table above and reference the correct drawing(s) for that particular design. If a variant to these standard installation methods is required, please contact Fentec for further information about custom design and engineering services.



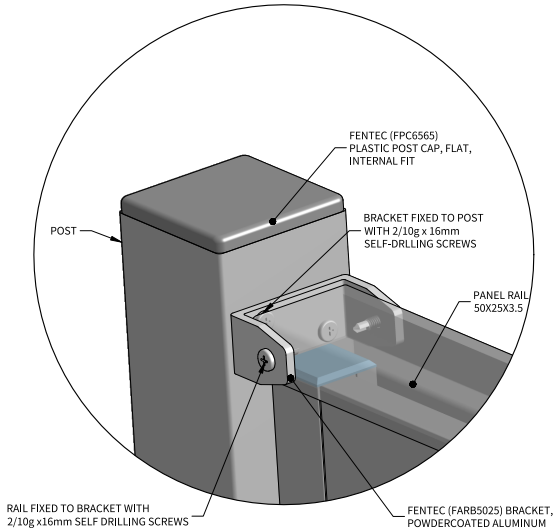
FENTEC VISTAWALL HORIZONTAL SLAT AND SOLID PANEL
- CODE: FVHLFP1218, HORIZONTAL SLAT PANEL, 100x16mm SLATS, ALUMINIUM POWDERCOATED
- CODE: FVHOFP1218, HORIZONTAL SOLID PANEL, 145x16mm TG&V BOARDS, ALUMINIUM POWDERCOATED



PANEL FIXING DETAIL
1:1



TONGUE COVER DETAIL
1:1



BRACKET FIXING DETAIL
1:3

IMPORTANT: THIS DESIGN AND ASSOCIATED DESIGN PRODUCER STATEMENTS ARE ONLY RELEVENT FOR PROPRIETARY FENTEC PRODUCTS; ANY PRODUCT SUBSTITUTIONS WILL INVALIDATE THE PRODUCER STATMENT

General Notes
1. All dimensions are in millimetres.

2. Drawings are not necessarily to scale

3. Check www.fentec.co.nz to ensure you have the most recent edition of this publication.

Fixing Notes
1. All coach screws and bolts to be pre-drilled according to NZS 3603:1997

2. When fixing self-drilling screws, ensure low torque setting to avoid thread stripping. A battery drill is recommended for self-drilling screws - DO NOT use an impact driver.

Corrosion Zones
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Zone	Risk Level & Location	Fixing Type
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Zone D	High risk, all offshore islands, locations within 500m of coastline including harbours, locations within 100m of tidal estuaries and sheltered inlets.	316 Stainless Steel
Zone E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

Existing Support Structure
1. Supporting structures as not covered by these drawings unless specific requirements are detailed.

2. Supporting structures are by others and must comply with the New Zealand Building Code.

3. If unsure of existing structure compliance, seek professional advice.

Fentec
Terranota Ltd. P.O. Box 1703 Invercargill 1703
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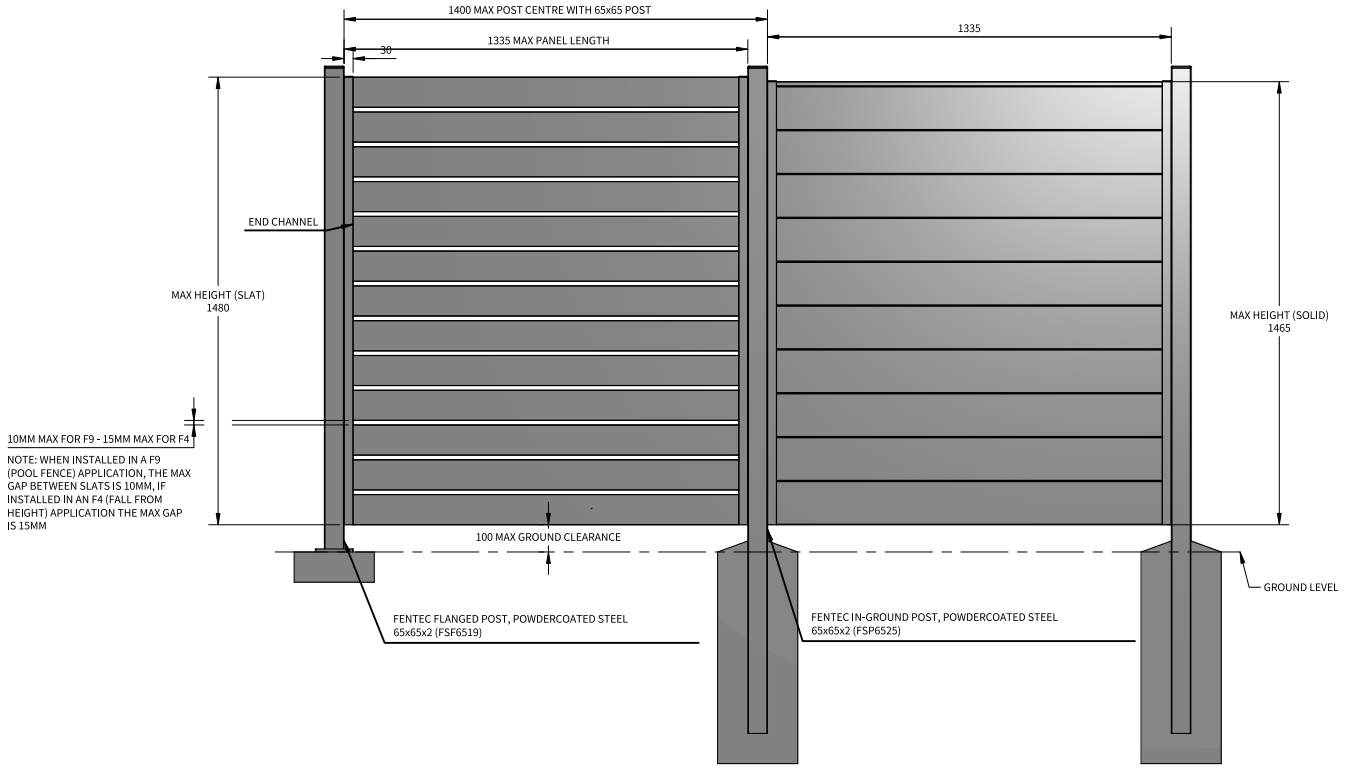
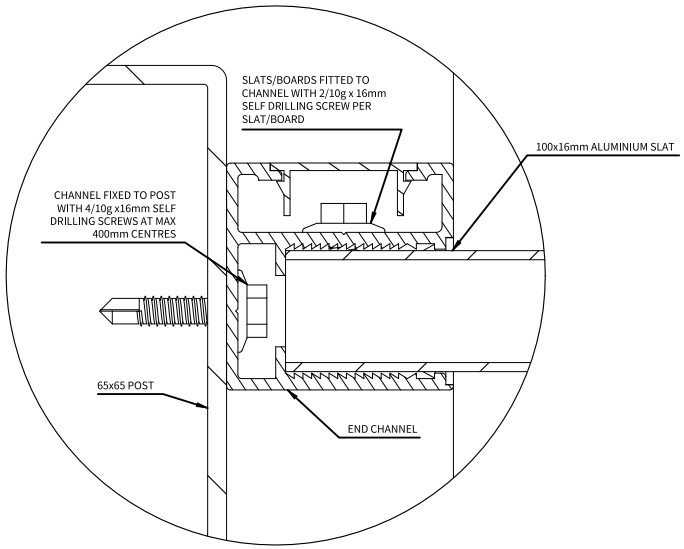
TITLE
FENTEC VISTAWALL HORIZONTAL CODE: FVHLFP1218 (SLAT) AND FVHOFP1218 (SOLID)

SCALE	SIZE	DRAWING NO
1:25	A4	FVH1217

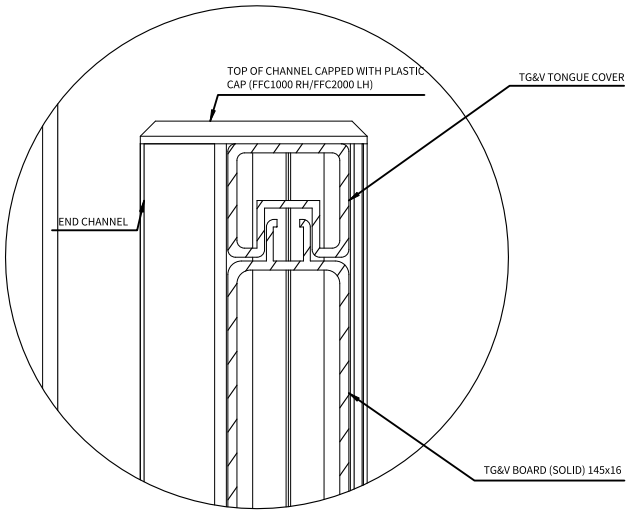
REV.	DATE ISSUED	SHEET
A	2024-02-21	1 of 1



FENTEC VISTAWALL HORIZONTAL SLAT AND SOLID PANEL
- CODE: FVHLFP1518, HORIZONTAL SLAT PANEL, 100x16mm SLATS, ALUMINIUM POWDERCOATED
- CODE: FVHOFP1518, HORIZONTAL SOLID PANEL, 145x16mm TG&V BOARDS, ALUMINIUM POWDERCOATED



PANEL FIXING DETAIL
1:1



SOLID PANEL FIXING DETAIL
1:1

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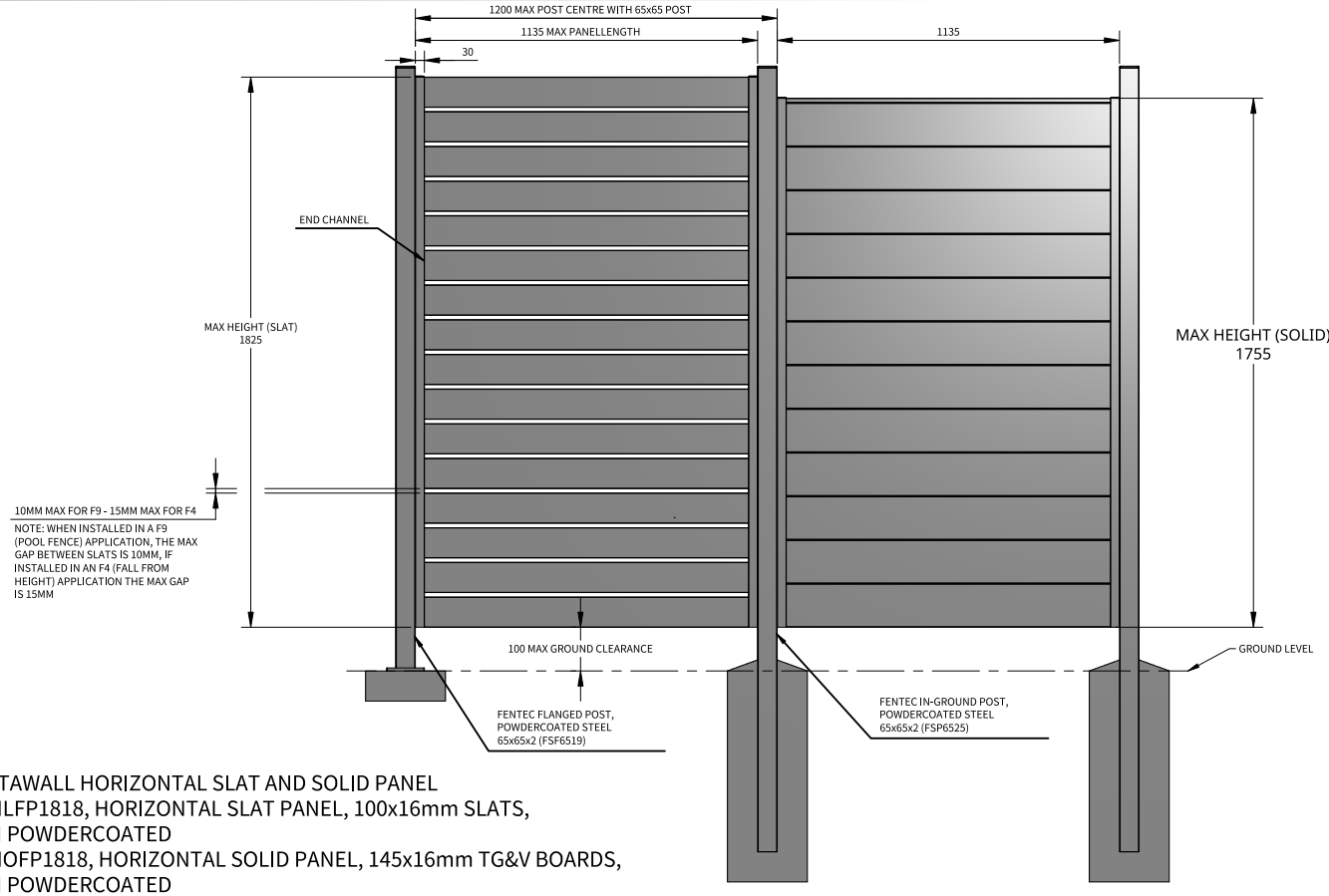
TITLE
FENTEC VISTAWALL HORIZONTAL CODE: FVHLFP1518 (SLAT) AND FVHOFP1518 (SOLID)

SCALE	SIZE	DRAWING NO
1:25	A4	FVH1514

REV.	DATE ISSUED	SHEET
A	2024-02-21	1 of 1



FENTEC VISTAWALL HORIZONTAL SLAT AND SOLID PANEL
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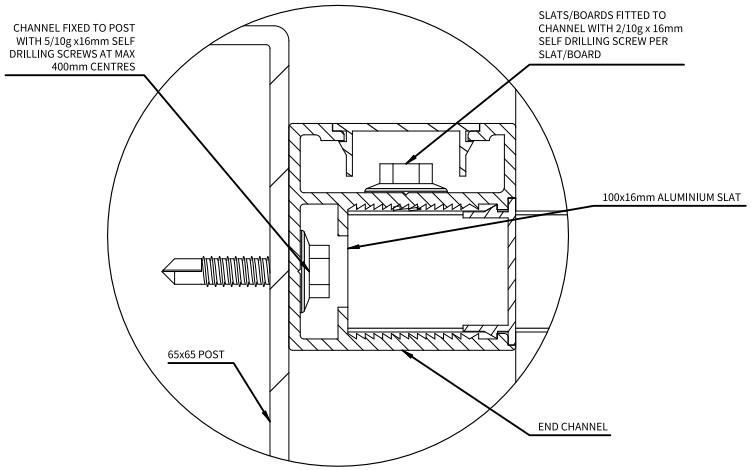
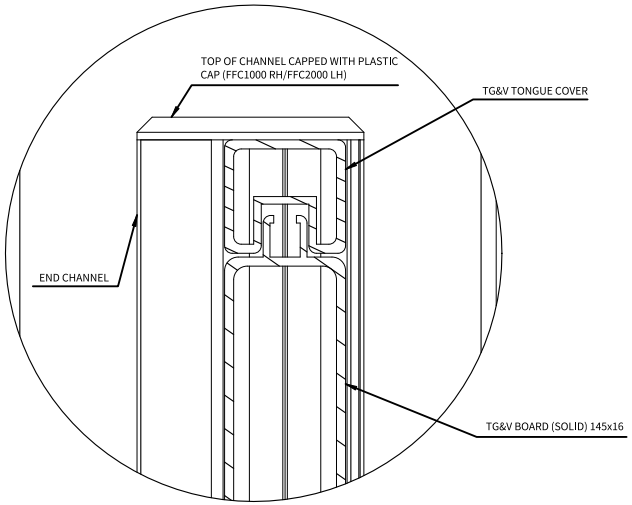


PANEL FIXING DETAIL
1:1



SOLID PANEL FIXING DETAIL
1:1

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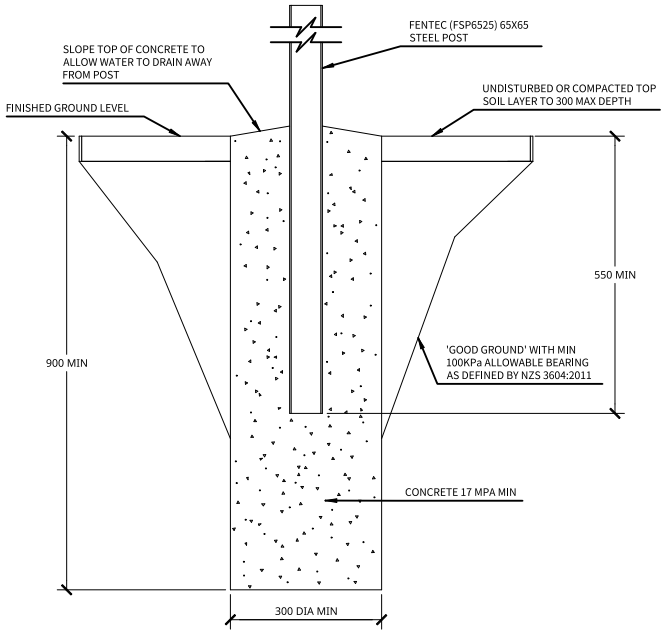
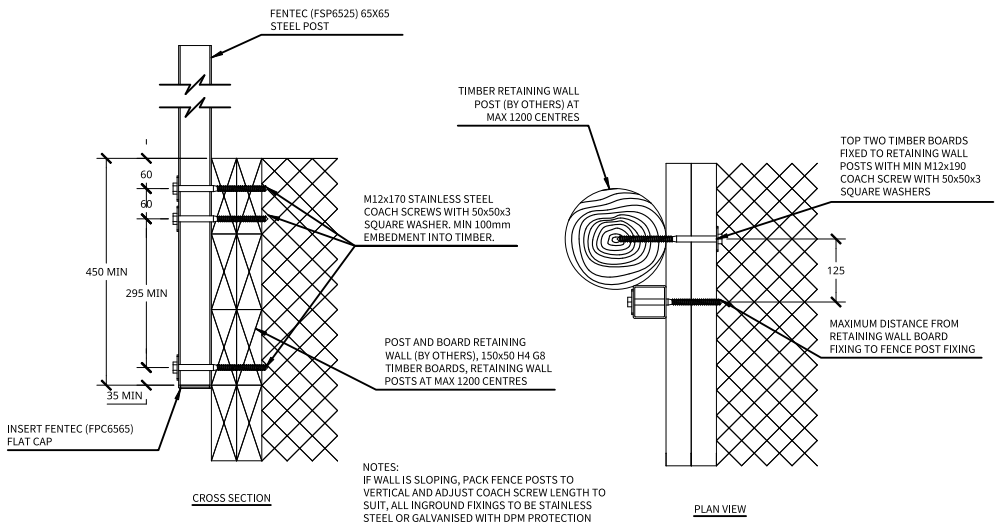
TITLE
FENTEC VISTAWALL HORIZONTAL CODE: FVHLFP1818 (SLAT) AND FVHOFP1818 (SOLID)

SCALE	SIZE	DRAWING NO
1:25	A4	FVH1812

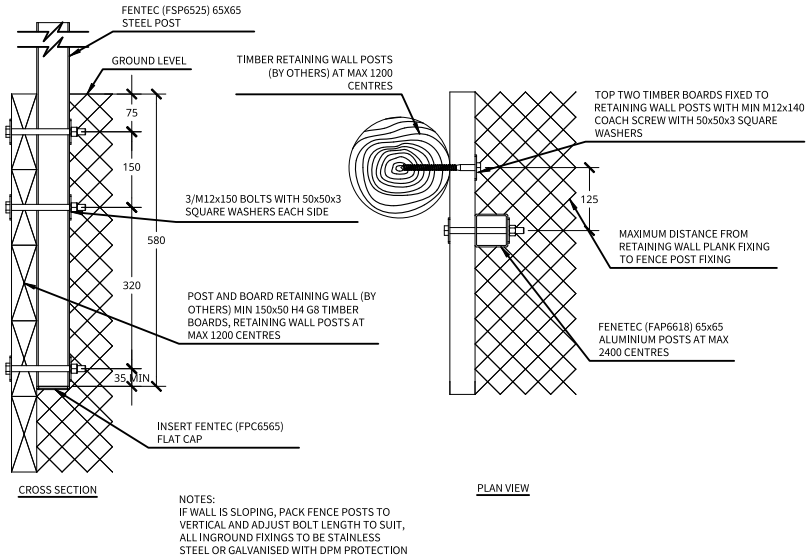
REV.	DATE ISSUED	SHEET
A	2024-02-21	1 of 1



DRAWING NO: ICA667524
APPLICATION: CONCRETE IN-GROUND
LOADING: 0.75kN/m



DRAWING NO: SRB667524-B
APPLICATION: SIDE-FIX TO DOUBLE BOARD TIMBER RETAINING WALL
(POSTS ON OUTSIDE OF RETAINING WALL)
LOADING: 0.75kN/m



DRAWING NO: SRA667524-A
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)
LOADING: 0.75kN/m

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Zone	Risk Level & Location	Fixing Type
Zone B	Low risk	Hot-dip Galvanised
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TITLE
FENTEC VISTAWALL BARRIER FIXING DESIGNS FOR:
- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

FOR 0.75kN/m HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:15	A4	OFD657501

REV.	DATE ISSUED	SHEET
A	2024-02-21	1 of 1

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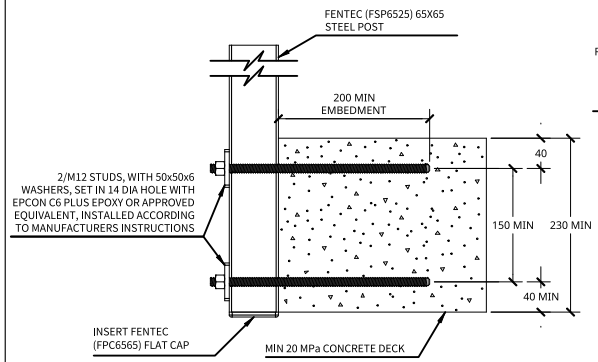
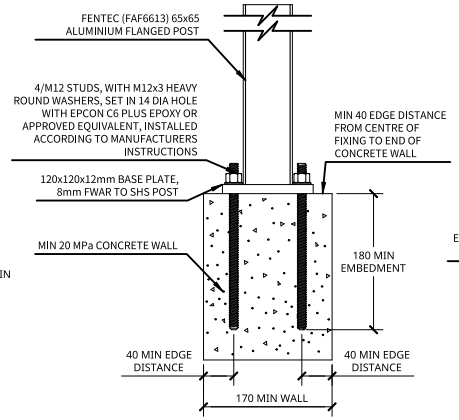
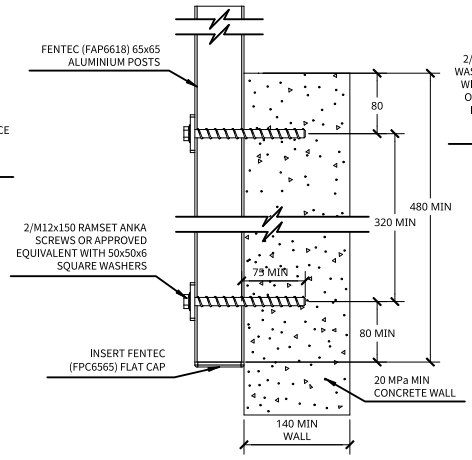


DRAWING NO: SDA667524-A
APPLICATION: SIDE-FIX TO CONCRETE DECK (230 min THICKNESS)
LOADING: 0.75kN/m



DRAWING NO: TWA667524-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.75kN/m



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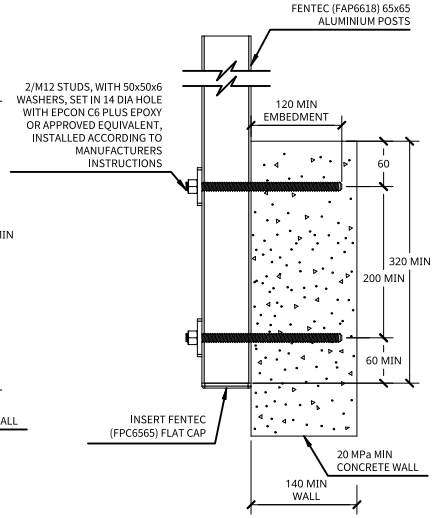
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 0.75kN/m



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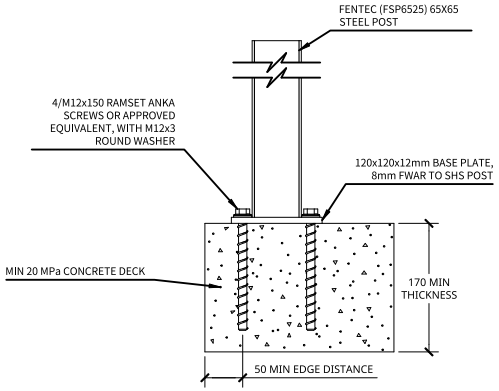
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 0.75kN/m



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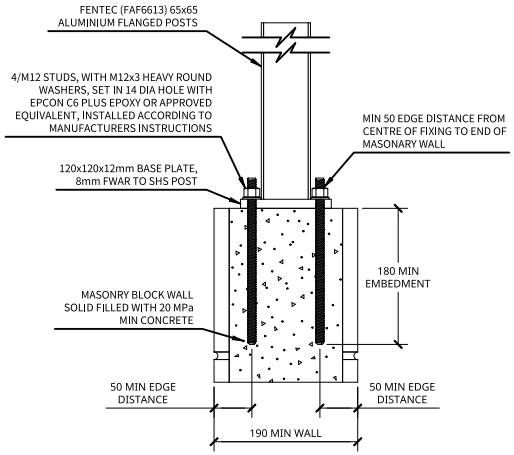
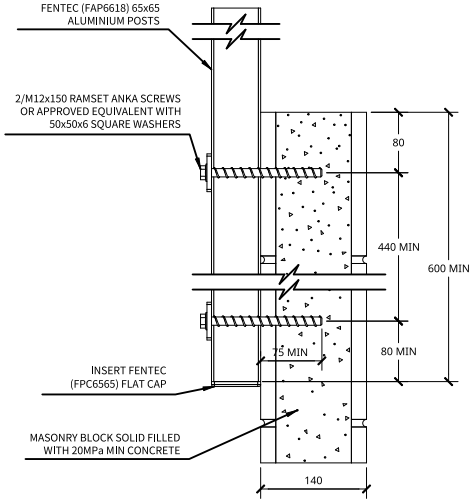
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: 0.75kN/m



DRAWING NO: TMA667524
APPLICATION: TOP-FIX TO MASONARY WALL
LOADING: 0.75kN/m



DRAWING NO: SMA667524
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.75kN/m

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Existing Support Structure

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TITLE:
FENTEC VISTAWALL BARRIER FIXING DESIGNS FOR:
- CONCRETE WALL
- MASONARY WALL
FOR 0.75kN/m
HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	OFD657502

REV.	DATE ISSUED	SHEET
A	2024-02-21	1 of 1

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PRODUCER STATEMENT – PS1
DESIGN

BUILDING CODE CLAUSE(S): B1 F4 F9 **JOB NUMBER:** S89-0298
ISSUED BY: STUDIO89 GROUP PTY LTD
(Engineering Design Firm)
TO: FENTEC
(Owner/Developer)
TO BE SUPPLIED TO: VARIOUS COUNCILS ACROSS NEW ZEALAND
(Building Consent Authority)
IN RESPECT OF: FENTEC VISTAWALL BARRIER
(Description of Building Work)
AT: VARIOUS LOCATIONS ACROSS NEW ZEALAND (LIMITED TO MEDIUM 37M/S WIND)
(Address, Town/City)
LEGAL DESCRIPTION: **N/A** ☐

We have been engaged by the owner/developer referred to above to provide *(Extent of Engagement)*:
FENTEC BARRIER FIXING AND MEMBER DESIGN (LIMITED TO MEDIUM 37M/S WIND ZONE)
in respect of the requirements of the Clause(s) of the Building Code specified above for Part only , as specified in the Schedule, of the proposed building work.

The design carried out by us has been prepared in accordance with:

- ☑ Compliance documents issued by the Ministry of Business, Innovation & Employment *(Verification method/acceptable solution)* B1/VM1 F4/AS1 F9/AS1 and/or;
- ☐ Alternative solution as per the attached Schedule.

The proposed building work covered by this producer statement is described on the drawings specified in the Schedule, together with the specification, and other documents set out in the Schedule.

On behalf of the Engineering Design Firm, and subject to:

- Site verification of the following design assumptions: SEE ATTACHED DOCUMENTS .
- All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that:

- the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the Schedule, will comply with the relevant provisions of the Building Code and that;
- the persons who have undertaken the design have the necessary competency to do so.

I recommend follo CM 2 : construction monitoring: B.C.A. Inspections and a PS3 from the approved installer.

I, *(Name of Engineering Design Professional)* TINUS SMITH , am:

- ☑ CPEng number 1163700

and hold the following qualifications B.ENG, M.ENG

The Engineering Design Firm holds a current policy of Professional Indemnity Insurance no less than $200,000
The Engineering Design Firm is not a member of ACE New Zealand.

SIGNED BY *(Name of Engineering Design Professional)*: TINUS SMITH
(Signature below):

ON BEHALF OF *(Engineering Design Firm)*: STUDIO89 GROUP PTY LTD Date: 22/03/25 EXP 21/03/26

Note: This statement has been prepared solely for the Building Consent Authority named above and shall not be relied upon by any other person or entity. Any liability in relation to this statement accrues to the Engineering Design Firm only. As a condition of reliance on this statement, the Building Consent Authority accepts that the total maximum amount of liability of any kind arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in tort or otherwise, is limited to the sum of $200,000.

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.

SCHEDULE to PS1

Please include an itemised list of all referenced documents, drawings, or other supporting materials in relation to this producer statement below:

PS1 VALID FROM 22 MARCH 2025 TO 21 MARCH 2026

P.1 - Cover Page
P.2 - Specification
P.3 - Barrier specification selection guide (Fixing Types)
P.4 - Wind Zones
P.5 - Boundaryline Vistawall Horizontal Code: FVHLFP1218 (SLAT) and FVHOFP1218 (SOLID)
P.6 - Boundaryline Vistawall Horizontal Code: FVHLFP1518 (SLAT) and FVHOFP1518 (SOLID)
P.7 - Boundaryline Vistawall Horizontal Code: FVHLFP1818 (SLAT) and FVHOFP1818 (SOLID)
P.8 - Boundaryline Vistawall Barrier Fixings Designs For Concrete In Ground And Timber Retaining Wall (0.75kN/m Horizontal Loading)
P.9 - Boundaryline Durapanel Barrier Fixing Designs For Concrete Wall and Masonry Wall (0.75kN/m Horizontal Loading)
P.10 - P.11 - Council PS1 Document
P.12 - Last Page

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