

# ModePanel PS1

Rev: 1.0

Issue Date: 03/12/2025

## Application

Engineering specifications & installation details for compliance with **NZBC B1, F4 & F9**

## 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 Boundaryline 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 Boundaryline 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 Boundaryline 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](http://www.building.govt.nz).

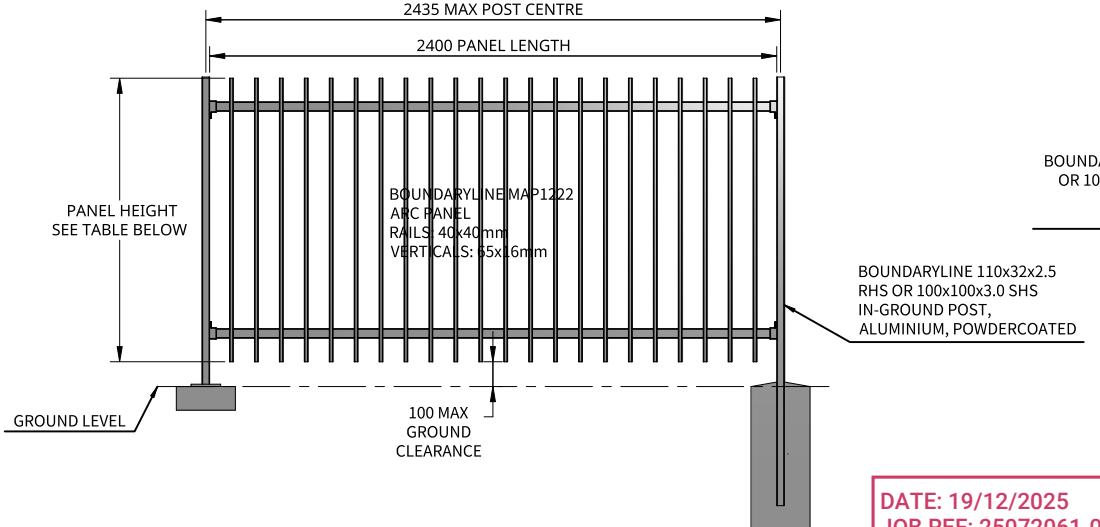
Occupancy Type:	Building Code Clause:	Specific Use:	Horizontal Design Loading:	Minimum Overall Barrier Height:
A - Domestic	F9	Pool fence only.	0.33kN	1.2m
A - Domestic	F4	All areas serving one dwelling but excluding balconies, decks, and terraces. For example; walkways, stairs and landings and retaining 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 and walkways in a multi-dwelling application, including open public spaces.	0.75kN/m	1.0m single dwelling 1.1m multi dwelling
B & E – Offices and work areas including storage	F4	Access walkways, stairs and landings.	0.35kN/m	1.1m
B & E – Offices and work areas including storage	F4	Areas including balconies, decks and terraces not susceptible to overcrowding.	0.75kN/m	1.1m
C3 – Areas without obstacles for moving people and where people may congregate	F4	Areas including walkways, stairs and landings, balconies, decks and terraces not susceptible to overcrowding, including parks and reserves.	0.75kN/m	1.1m

### Fixing Types

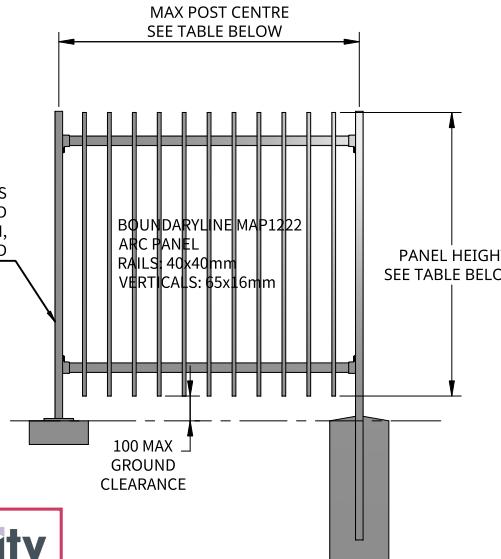
There are four corrosion zones in New Zealand that relate to the severity of exposure to wind-driven salt. To determine the corrosion zone of your installation location, please check maps in Figure 4.2 in NZS3604:2011 (or online search 'BRANZ Maps'). Use the table below to determine the appropriate fixing types required for your particular location.

Zone	Risk Level & Location	Fixing Type
Zone B	Low risk	Hot-dip Galvanised
Zone C	Medium risk	Hot-dip Galvanised
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 D	Very high risk, locations described in Zone D, beach fronts and seaside locations	316 Stainless Steel

BOUNDARYLINE MODEPANEL ARC FENCE FOR F9 (POOL FENCE)  
AND F4-0.35kN/m (FALL RESTRAINT BARRIER) APPLICATIONS



BOUNDARYLINE MODEPANEL ARC FENCE FOR F4-0.75kN/m  
(FALL RESTRAINT BARRIER) APPLICATIONS



**General Notes**

- All dimensions are in millimetres.
- Drawings are not necessarily to scale.
- Check [www.boundaryline.co.nz](http://www.boundaryline.co.nz) to ensure you have the most recent edition of this publication.

**Fixing Notes**

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

There are four corrosion zones in New Zealand that relate to the severity of exposure to wind-driven salt. See maps in figure 4.2 of NZS 3604:2011 (or online search 'BRANZ Maps') to determine the corrosion zone of the installation location and appropriate fixing option required.

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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.

 **Boundaryline**

Boundaryline Ltd.  
60 Basetian Street, Invercargill  
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**TITLE**  
**BOUNDARYLINE  
MODEPANEL ARC**

**SCALE** 1:32 **SIZE** A4 **DRAWING NO** MAP01

REV. A DATE ISSUED 03/12/2025 SHEET 4

IMPORTANT: THIS DESIGN AND ASSOCIATED DESIGN PRODUCER STATEMENTS ARE ONLY RELEVANT FOR PROPRIETARY BOUNDARYLINE PRODUCTS; ANY PRODUCT SUBSTITUTIONS WILL INVALIDATE THE PRODUCER STATEMENT

DATE: 19/12/2025  
JOB REF: 25072061-09  
REVISION: A  
CHECKED & APPROVED BY BREVITY LTD.  
MATT BISHOP, CMENGNZ, CPENG  
#243276

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2. Drawings are not necessarily to scale  
3. Check [www.boundaryline.co.nz](http://www.boundaryline.co.nz) to ensure you have the most recent edition of this publication.

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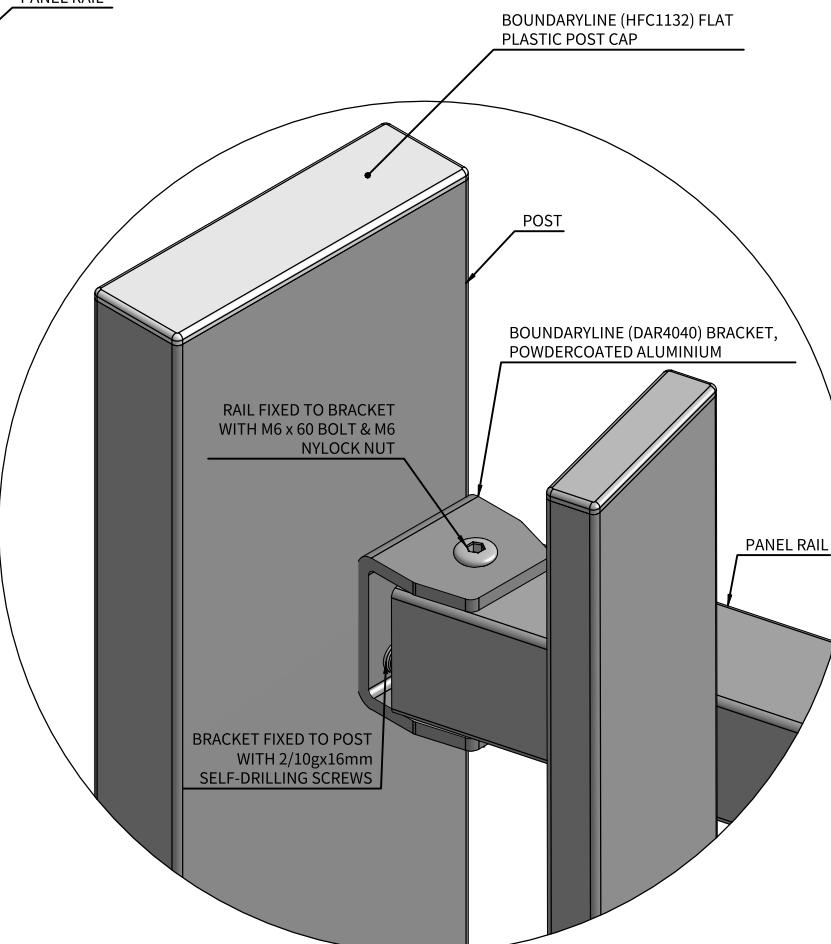
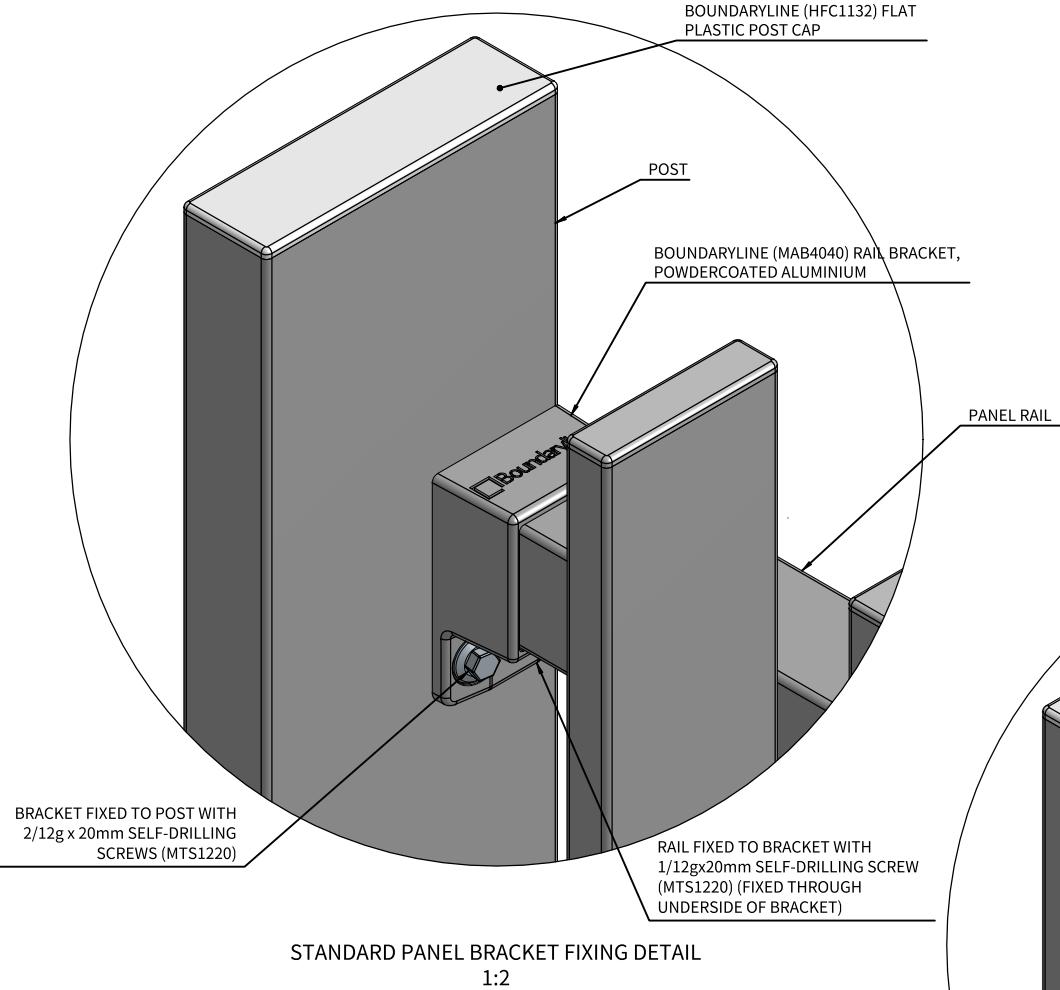
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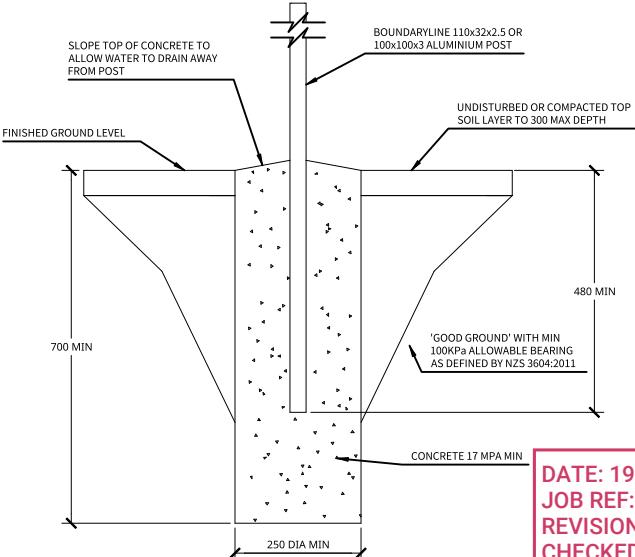
Boundaryline Ltd.  
60 Basetian Street, Invercargill  
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Email: [enquiries@boundaryline.co.nz](mailto:enquiries@boundaryline.co.nz)  
Website: [www.boundaryline.co.nz](http://www.boundaryline.co.nz)  
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**TITLE**  
**BOUNDARYLINE  
MODEPANEL ARC**

SCALE	SIZE	DRAWING NO
1:32	A4	MAP02
REV.	DATE ISSUED	SHEET
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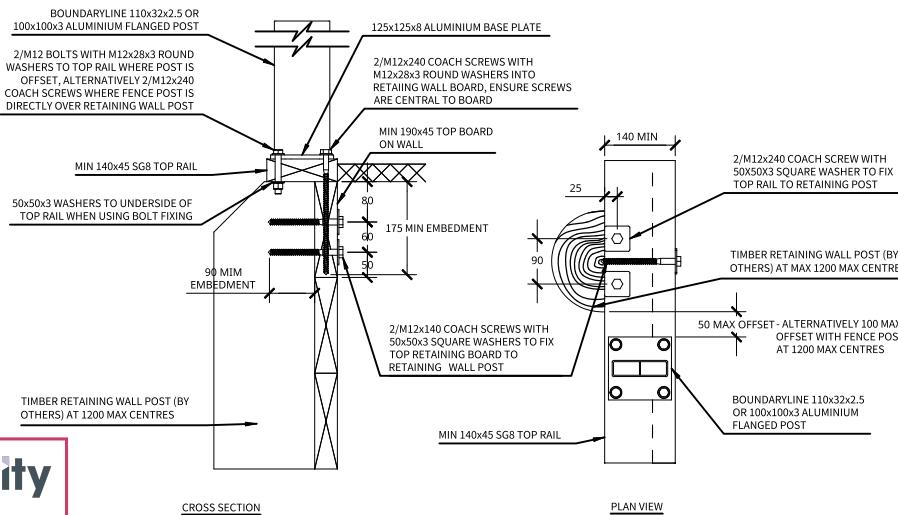




DRAWING NO: ICA527511  
 APPLICATION: CONCRETE IN-GROUND  
 LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

DATE: 19/12/2025  
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 CHECKED & APPROVED BY BREVITY LTD.  
 MATT BISHOP, CMENGNZ, CPENG  
 #243276

**Brevity**



DRAWING NO: TRA527511  
 APPLICATION: TOP-FIX TO TIMBER RETAINING WALL  
 LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

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**Fixing Notes**

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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.

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1. All supporting structure by others and must comply with the New Zealand Building Code

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

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**TITLE**  
**BOUNDARYLINE MODEPANEL ARC BARRIER FIXING DESIGNS FOR:**

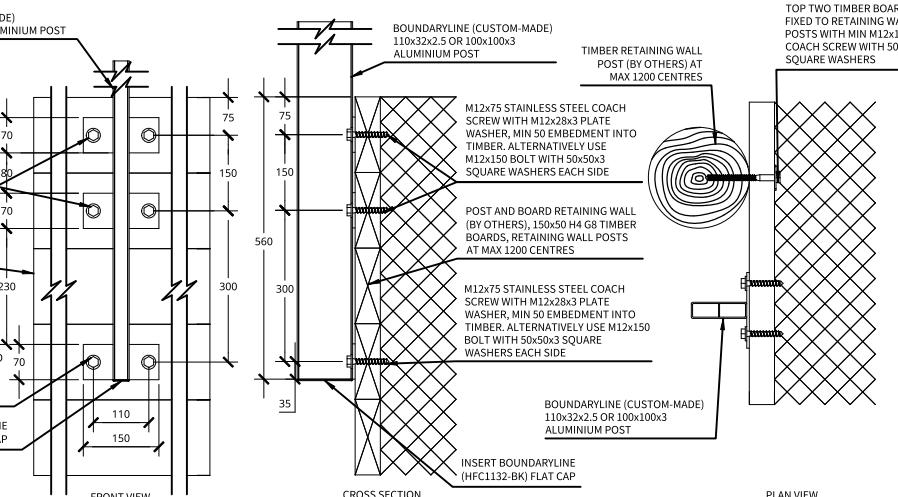
- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING  
 (REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:15	A4	MPA117501
REV.	DATE ISSUED	SHEET

A 03/12/2025 6

DRAWING NO: SRA527511-A  
 APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)  
 LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



DRAWING NO: SRA527511-B  
 APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL)  
 LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

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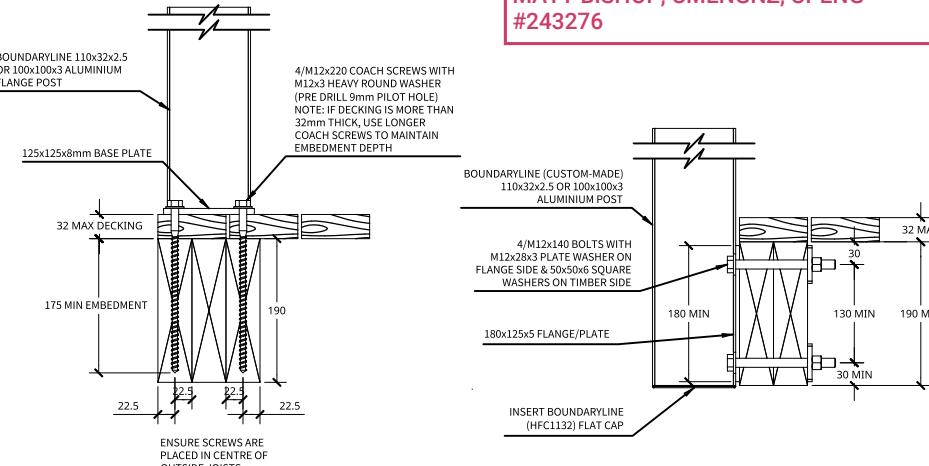
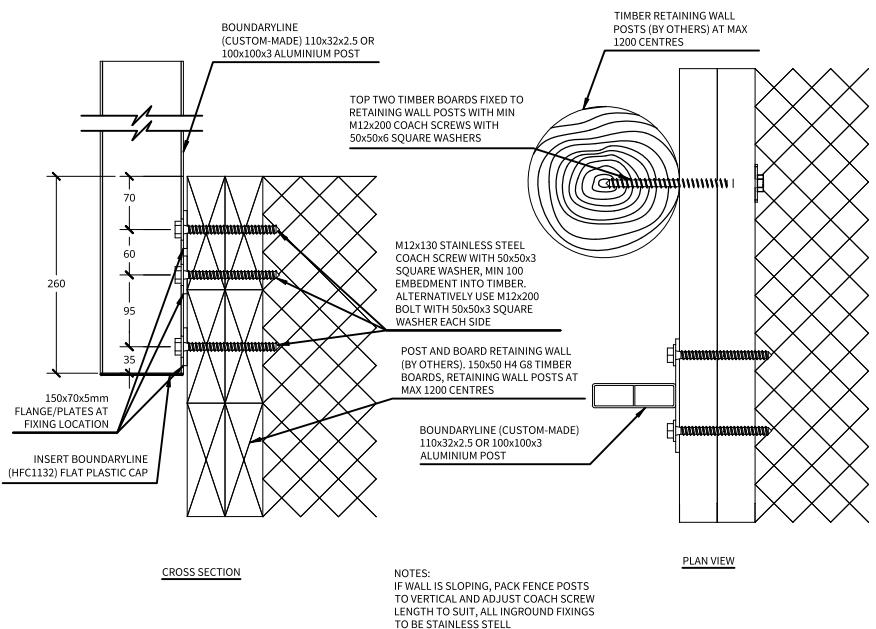
**TITLE:**  
**BOUNDARYLINE MODEPANEL ARC BARRIER**  
**FIXING DESIGNS FOR:**  

- TIMBER RETAINING WALL (DOUBLE BOARD)
- TIMBER DECK
- CONCRETE DECK

FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING  
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

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REV.	DATE ISSUED	SHEET

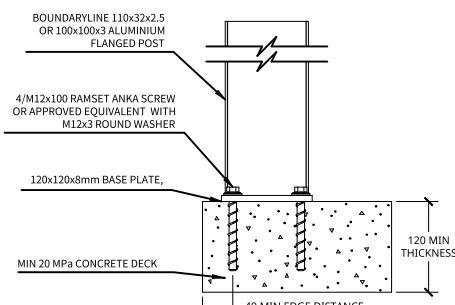
A 03/12/2025 7



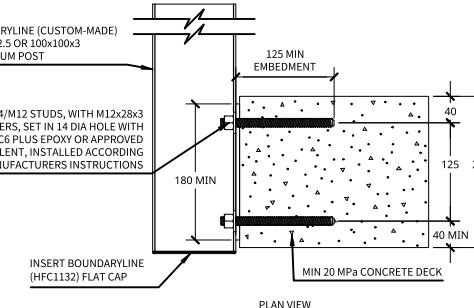
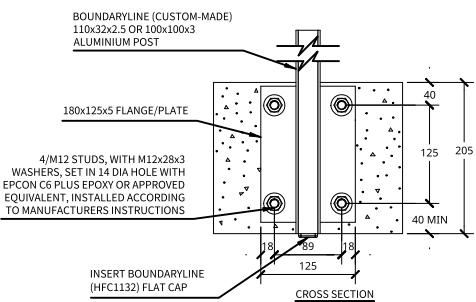
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APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL)  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

**DRAWING NO: TTA527511**  
APPLICATION: TOP-FIX TO TIMBER DECK  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

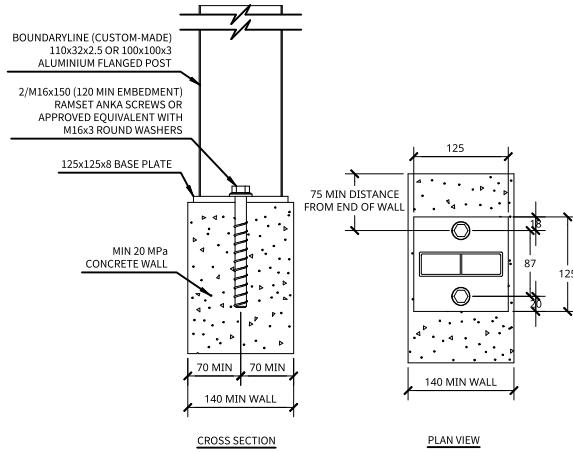
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LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



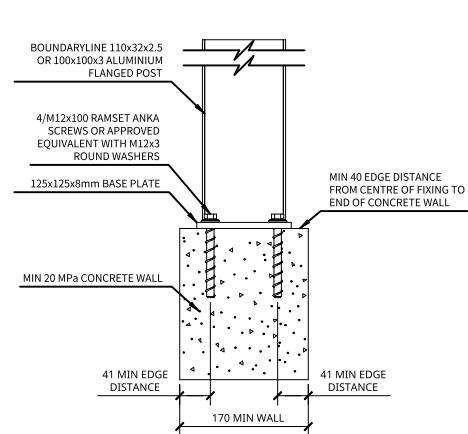
**DRAWING NO: TDA527511**  
APPLICATION: TOP-FIX TO CONCRETE DECK  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



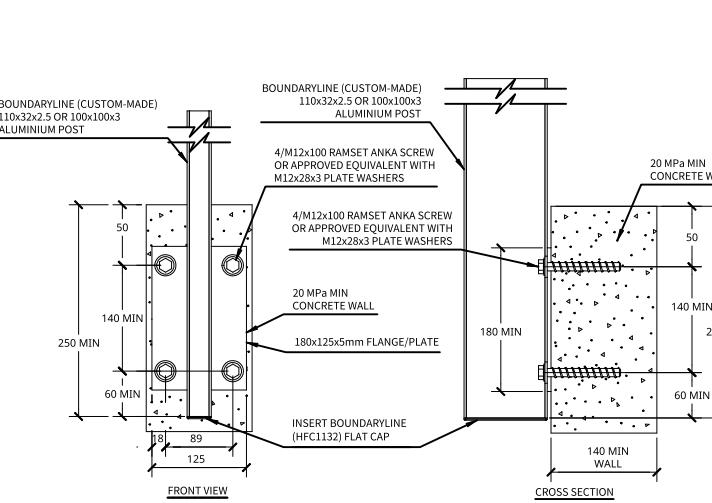
**DRAWING NO: SDA527511-A**  
APPLICATION: SIDE-FIX TO CONCRETE DECK  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



DRAWING NO: TWA527511-A  
APPLICATION: TOP-FIX TO CONCRETE WALL  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



DRAWING NO: TWA527511-B  
APPLICATION: TOP-FIX TO CONCRETE WALL  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



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LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

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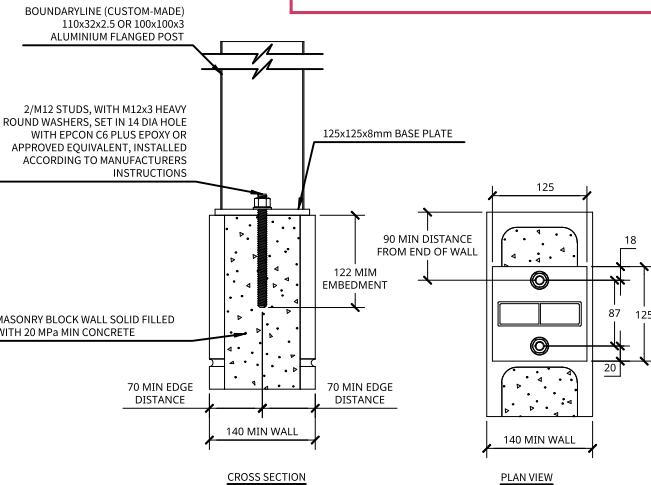
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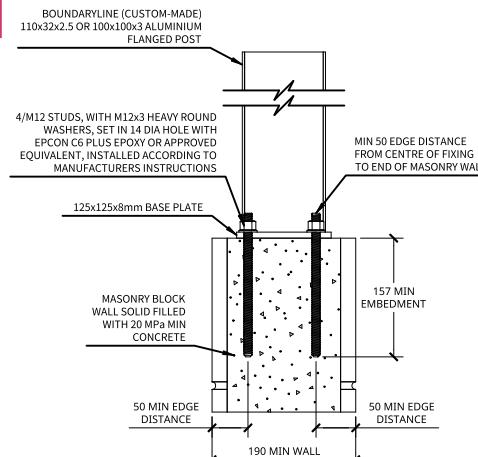
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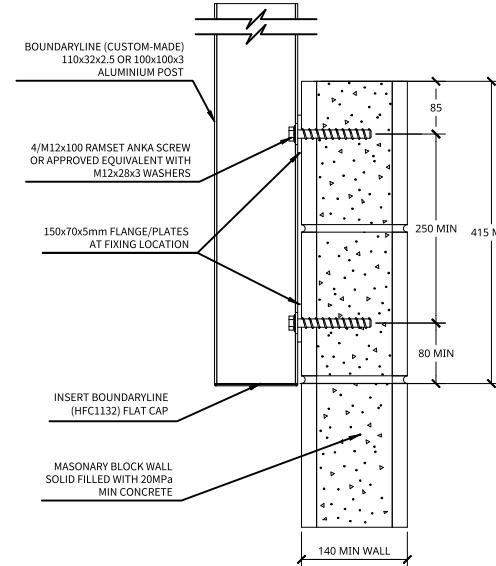
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1. All supporting structure by others and must comply with the New Zealand Building Code  
2. If unsure of existing structure compliance, seek professional advice.



DRAWING NO: TMA527511-A  
APPLICATION: TOP-FIX TO MASONRY WALL (15 SERIES)  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



DRAWING NO: TMA527511-B  
APPLICATION: TOP-FIX TO MASONRY WALL (20 SERIES)  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4



DRAWING NO: SMA527511  
APPLICATION: SIDE-FIX TO MASONRY WALL (15 SERIES)  
LOADING: 0.33kN and 0.35kN/m AT MAX 2435 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1200 to 1950 POST CENTRES - REFER TO TABLE ON SHEET 4

**Boundaryline**

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Website: [www.boundaryline.co.nz](http://www.boundaryline.co.nz)  
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**TITLE**  
BOUNDARYLINE MODEPANEL ARC  
BARRIER FIXING DESIGNS FOR:  
- CONCRETE WALL  
- MASONRY WALL

FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING  
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	MPA117503
REV.	DATE ISSUED	SHEET

A 03/12/2025 8

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---

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Wiri

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Hornby South

**Invercargill**  
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[boundaryline.co.nz](http://boundaryline.co.nz)



## NZBC Clause B1 Structure - Design

### Design Review of Aluminum Balustrades

---

Project number: 25072061-09A

Client name: Boundaryline Ltd

Date: 19/12/2025

Expiry Date: 19/12/2026

Location: Various Locations

Level 9, 4 Williamson Avenue, Ponsonby  
Cider Building, Auckland 1021, New Zealand

p: +64 9 216 7104  
e: [info@teambrevity.com](mailto:info@teambrevity.com)

# PRODUCER STATEMENT – PS1

## DESIGN

**BUILDING CODE CLAUSE(S):** [B1, F4 & F9]

**JOB NUMBER:** [25072061-09A]

**ISSUED BY:** [Brevity Ltd]

(Engineering Design Firm)

**TO:** [Boundaryline Limited]

(Owner/Developer)

**TO BE SUPPLIED TO:** [-]

(Building Consent Authority)

**IN RESPECT OF:** [Brevity Report # 25072061-09A] Design of Boundaryline ModePanel

(Description of Building Work)

**AT:** [Various Location]

(Address, Town/City)

**LEGAL DESCRIPTION:** [Lot no. -]

DP no. -

N/A

We have been engaged by the owner/developer referred to above to provide (*Extent of Engagement*): [Design Consultancy for Structural Analysis of Boundaryline ModePanel]

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: [refer to attached report]
- 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 the CM 2 level of **construction monitoring**.

I, (*Name of Engineering Design Professional*) Matt Bishop

, am:

•  CPEng number [243276]

and hold the following qualifications BE (Hons)

The Engineering Design Firm holds a current policy of Professional Indemnity Insurance no less than \$200,000  
The Engineering Design Firm is a member of ACE New Zealand.

**SIGNED BY** (*Name of Engineering Design Professional*): Matt Bishop

(*Signature below*):



Issue Date: 19/12/2025  
Expiry Date: 19/12/2026

**ON BEHALF OF** (*Engineering Design Firm*): Brevity Ltd

**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.

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### Document Revision History

Rev	Date	Revision details	Author	Approved
A	19/12/2025	For Consent	SM	MB

## 1. Overview

Brevity has been engaged by Boundaryline to provide a Chartered Engineer's PS1 – Design Review for the Aluminum Balustrades for various locations in New Zealand. This report summarises the engineering design criteria and records, key decisions, and outcomes in accordance with NZ standards.

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This report has been prepared by Brevity at our client's specific instructions. It is solely for our client's use for the purpose for which it is intended in accordance with the agreed scope of work. Any use or reliance by any person contrary to the above, to which Brevity has not given its prior written consent, is at that person's risk.

## 2. Design Methodology and Loading

In accordance with the New Zealand Building Code Section B1, by Specific Engineering Design to B1, F4, and F9, by specific engineering design to VM1 and AS1, the engineering system was checked to the following loading standards:

- AS/NZS 1170 Series
- NZS 3404: Part 1:1997
- NZS 3101: 2006
- AS/NZS 1664.1 :1997
- AS/NZS 1720.1:2022.

Based on the previous project for this type of structure, wind is the key factor influencing the design.

## 4. Our Contact Details

Engineer's contact details for this report

Contact	Contact details
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