

# DuraPanel PS1

Rev: 3.4

Issue Date: 29/01/2025

## Application

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

# Barrier specification selection guide

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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

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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 Boundaryline to discuss a custom-engineered solution that will meet your requirements.

## How to use this document

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This producer statements includes details for a variety of designs and applications, to ensure you get the right panel and fixing details for your application, please follow the instructions below:

- Step 1.** Check the Design Loading that applies to your application, (see Table 1) There are different Design Loadings and Minimum Barrier Heights, that apply to various occupancy types and scenarios. Following this is a table showing the corrosion zones in NZ and what fixing types you must use in these zones'
- Step 2.** Using Table 2, you will be able to see what Panel styles are able to be used with the Loading identified in Step 1, this will also give you the Maximum post centre you can install this panel at and will direct you to the Panel Drawing page.
- Step 3.** On the applicable Panel drawing, take note [[of how the panel is installed and what posts you can use, then follow the colours and drawing numbers to see the approved post fixing details, for the Loading and Panel Style for your application.
- Step 4.** In these pages you will find the fixing drawings that we have designed for most common applications, if the application that you are needing isn't shown here, please let us know and we can find a custom solution for you.

## 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.buildin.govt.nz](http://www.buildin.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 & 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, balconies, decks & terraces not susceptible to overcrowding, including parks and reserves	0.75kN/m	1.1m

Table 1 - Barrier Loading Selection

## 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.

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 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

Table 2 - Fixing Types

## Barrier Panel Selection









		Height	Code	Maximum Post Centre			Page
				F9 Pool Fencing	F4 – 0.35kN/m	F4 – 0.75kN/m	
Eco		1200mm	DEP1224-BK	2450mm	N/A	N/A	4
Delta		950mm	DDP9522-BK	N/A	1175mm	1175mm	5
		1200mm	DDD1222-BK	2300mm*	1175mm	1175mm	5
Delta Raking		950mm	DDR9524-BK	N/A	1175mm	1175mm	5
		1200mm	DDR1224-BK	N/A	1175mm	1175mm	5
Vecta		1200mm	DVP1222-BK	2300mm*	1175mm	1175mm	6
		1500mm	DVP1522-BK	2300mm*	1175mm	1175mm	6
Vecta Raking		1200mm	DVR1224-BK	N/A	1175mm	1175mm	6
		1500mm	DVR1524-BK	N/A	1175mm	1175mm	6
Polo		1200mm	DPP1222-BK	2300mm*	1175mm	1175mm	7
		1500mm	DPP1522-BK	2300mm*	1175mm	1175mm	7
		1800mm	DPP1822-BK	N/A	1175mm	1175mm	8
Polo Raking		1200mm	DPR1224-BK	N/A	1175mm	1175mm	7
		1500mm	DPR1524-BK	N/A	1175mm	1175mm	7
		1800mm	DPR1824-BK	N/A	1175mm	1175mm	8
Axis		1200mm	DXP1222-BK	2275mm*	1075mm	1075mm	9

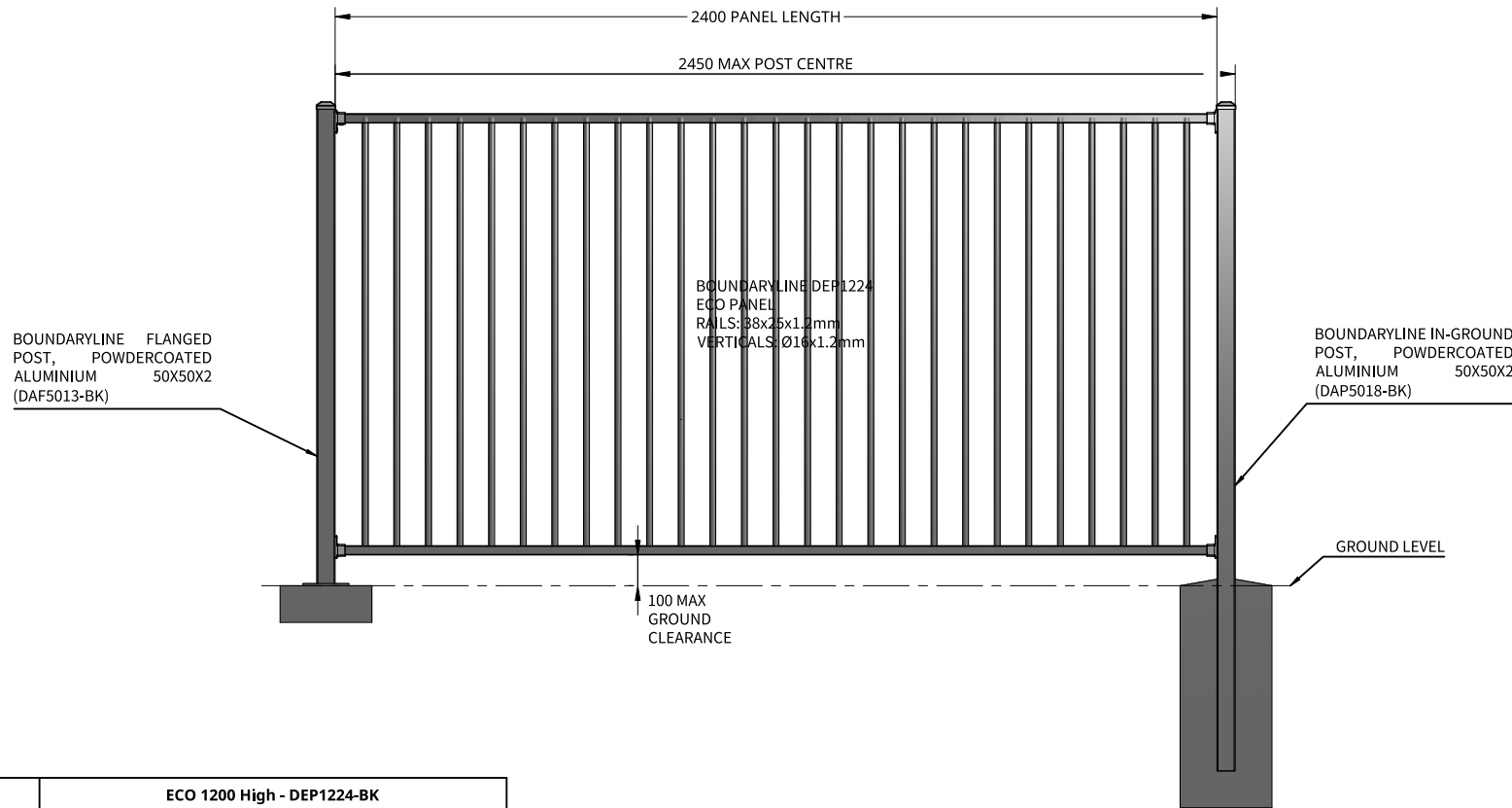
Table 3 - Barrier Panel Selection

\*See Page 11 for typical pool fence installation and requirements

**For Pool Fencing:** In case of extreme wind events, the fences will need to be inspected to ensure F9 - *Restricting Access to Residential Pools* compliance. Damaged fence components must be replaced before the fence can be safely utilised. Studio 89 and Boundaryline assumes no liability from extreme wind events.



**BOUNDARYLINE DURAPANEL ECO FENCE FOR F9  
(POOL FENCE) 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.

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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

**Existing Support Structure**

- Supporting structures as not covered by these drawings unless specific requirements are detailed.
- Supporting structures are by others and must comply with the New Zealand Building Code.
- If unsure of existing structure compliance, seek professional advice.



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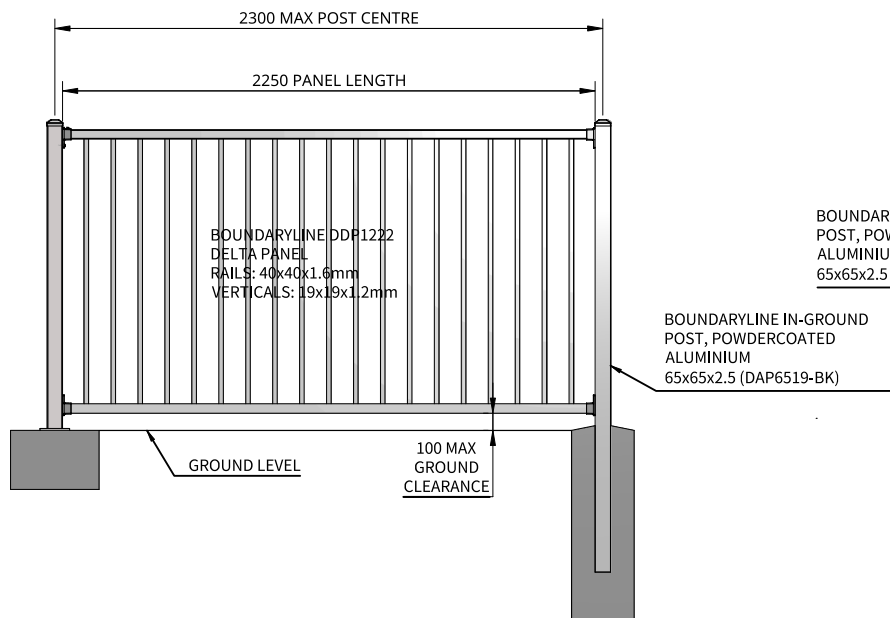
TITLE		
<b>BOUNDARYLINE DURAPANEL ECO</b>		

SCALE	SIZE	DRAWING NO
1:20	A4	DEP01
REV.	DATE ISSUED	SHEET
A	29/01/2025	4

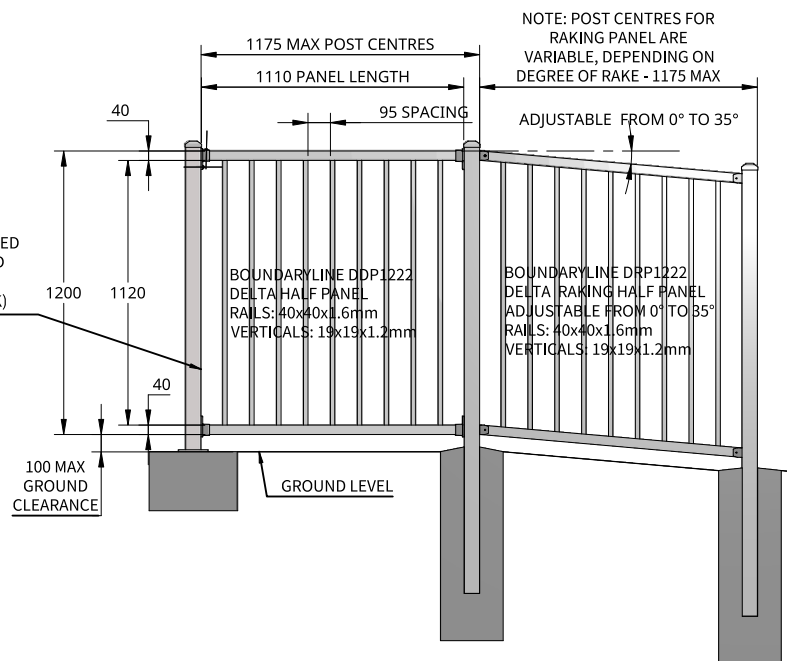
Panel Type	ECO 1200 High - DEP1224-BK		
Loadings	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)
Max Post Centres	2450mm	N/A	N/A
In-Ground Post Options	50x50mm DAP5018	N/A	N/A
Flanged Post Options	50x50mm DAF5013	N/A	N/A
Applicable Fixing Details	DPAS03301 DPAS03302 DPAS03303	N/A	N/A

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

**BOUNDARYLINE DURAPANEL DELTA FENCE FOR F9 (POOL FENCE) APPLICATIONS**



**BOUNDARYLINE DURAPANEL DELTA FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS**



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TITLE		
<b>BOUNDARYLINE DURAPANEL DELTA</b>		

SCALE	SIZE	DRAWING NO
1:32	A4	DDP01
REV.	DATE ISSUED	SHEET
A	29/01/2025	5

Panel Type	Delta 950 High - DDP9522-BK			Delta Raking 950 High - DDR9522-BK			Delta 1200 High - DDP1222-BK			Delta Raking 1200 High - DDR1222-BK		
	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)
IMPORTANT NOTE: For 950mm Panels, minimum barrier height is 1000mm above finished ground level				IMPORTANT NOTE: For 950mm Panels, minimum barrier height is 1000mm above finished ground level 								
<b>Loadings</b>	N/A			N/A			N/A			N/A		
<b>Max Post Centres</b>	N/A	1175mm	1175mm	N/A	1175mm	1175mm	2300mm	1175mm	1175mm	N/A	1175mm	1175mm
<b>In-Ground Post Options</b>	N/A	65x65mm DAP6519-BK	65x65mm DAP6519-BK	N/A	65x65mm DAP6519-BK	65x65mm DAP6519-BK	50x50mm DAP5018-BK	65x65mm DAP6519-BK	65x65mm DAP6519-BK	N/A	65x65mm DAP6519-BK	65x65mm DAP6519-BK
<b>Flanged Post Options</b>	N/A	65x65mm DAF6513-BK	65x65mm DAF6513-BK	N/A	65x65mm DAF6513-BK	65x65mm DAF6513-BK	50x50mm DAF5013-BK	65x65mm DAF6513-BK	65x65mm DAF6513-BK	N/A	65x65mm DAF6513-BK	65x65mm DAF6513-BK
<b>Applicable Fixing Details</b>	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	DPA503301 DPA503302 DPA503303	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503

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BOUNDARYLINE DURAPANEL VECTA FENCE FOR F9 (POOL FENCE) APPLICATIONS

BOUNDARYLINE DURAPANEL VECTA FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS

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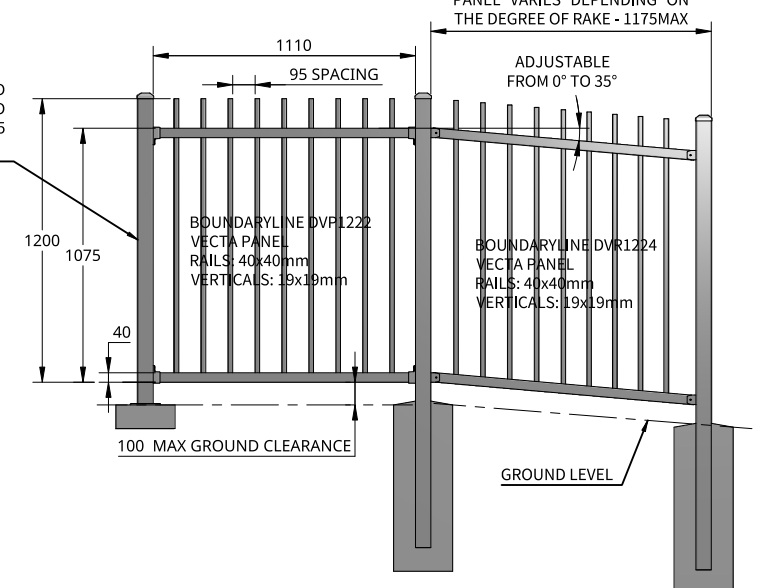
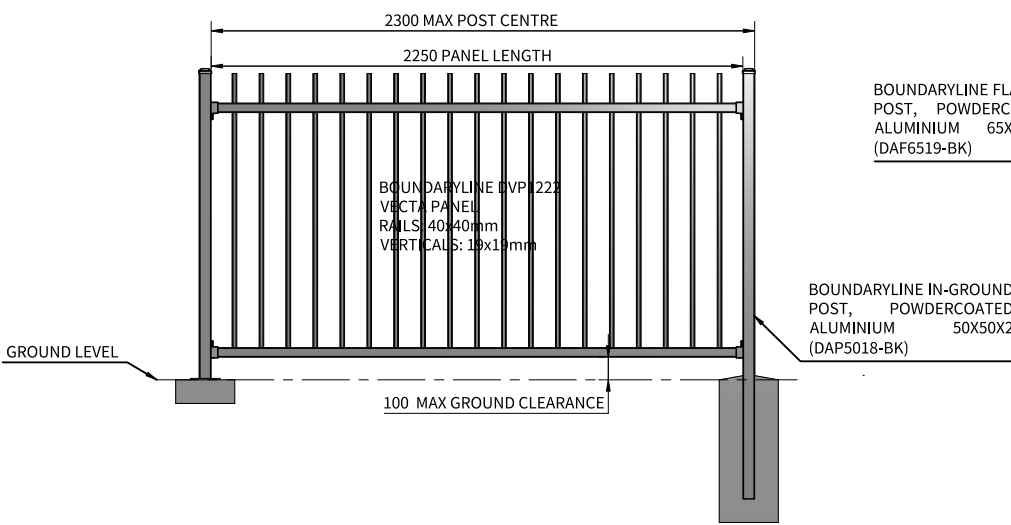


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TITLE		
<b>BOUNDARYLINE DURAPANEL VECTA</b>		

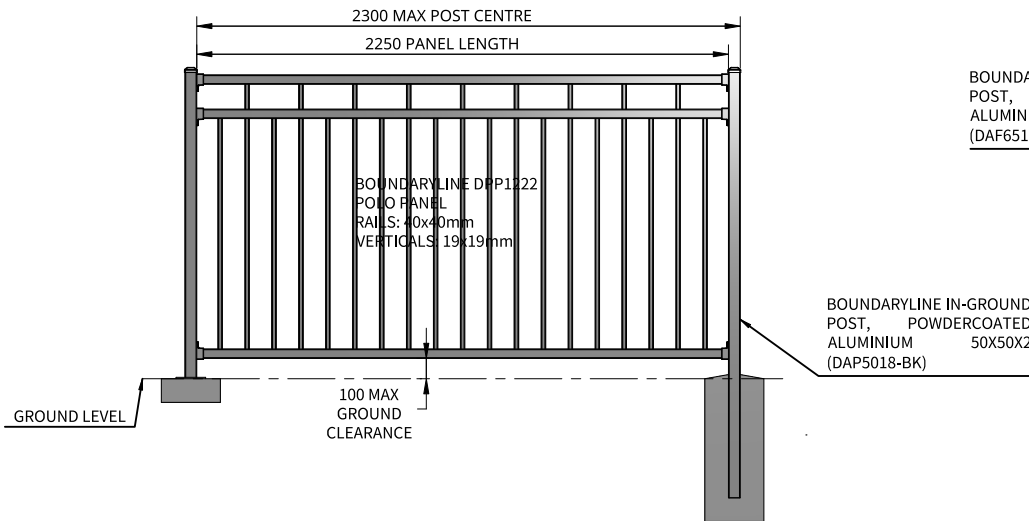
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1:32	A4	DVP01
REV. A	DATE ISSUED 29/01/2025	SHEET 6



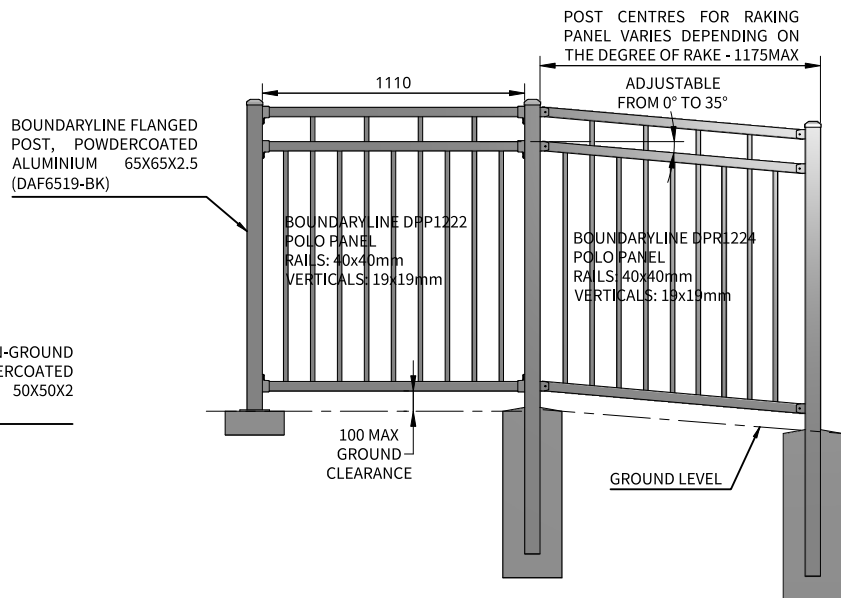
Panel Type	Vecta 1200 High - DVP1222-BK			Vecta Raking 1200 High - DVR1224-BK			Vecta 1500 High - DVP1522-BK			Vecta Raking 1500 High - DVR1524-BK					
	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)			
<b>Loadings</b>															
<b>Max Post Centres</b>	2300mm	1175mm	1175mm	N/A	1175mm	1175mm	2300mm	1175mm	1175mm	N/A	1175mm	1175mm			
<b>In-Ground Post Options</b>	50x50mm DAP5018	65x65mm DAP6519	65x65mm DAP6519	N/A	65x65mm DAP6519	65x65mm DAP6519	50x50mm DAP5021	65x65mm DAP6522	65x65mm DAP6522	N/A	65x65mm DAP6522	65x65mm DAP6522			
<b>Flanged Post Options</b>	50x50mm DAF5013	65x65mm DAF6513	65x65mm DAF6513	N/A	65x65mm DAF6513	65x65mm DAF6513	50x50mm DAF5016	65x65mm DAF6519	65x65mm DAF6519	N/A	65x65mm DAF6519	65x65mm DAF6519			
<b>Applicable Fixing Details</b>	DPA503301 DPA503302 DPA503303	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	DPA503301 DPA503302 DPA503303	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503			

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**BOUNDARYLINE DURAPANEL POLO FENCE FOR F9  
(POOL FENCE) APPLICATIONS**



**BOUNDARYLINE DURAPANEL POLO FENCE FOR F4 -  
(FALL RESTRAINT BARRIER) APPLICATIONS**



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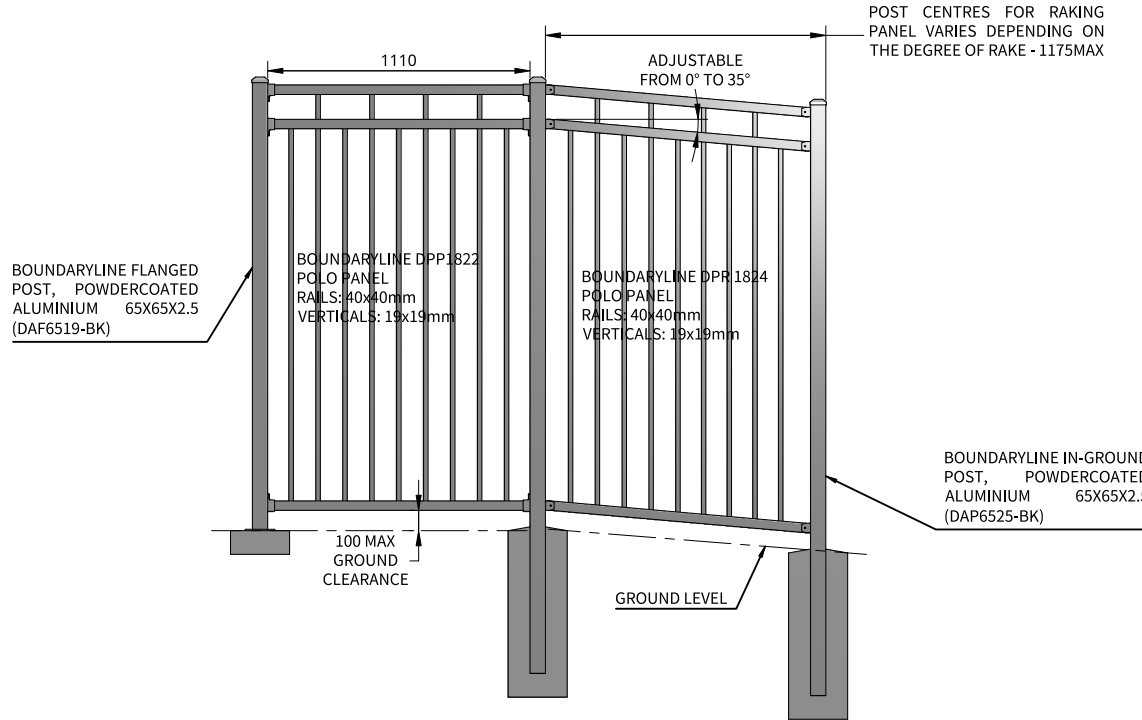
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**BOUNDARYLINE  
 DURAPANEL POLO**

SCALE	SIZE	DRAWING NO
1:32	A4	DPP01
REV.	DATE ISSUED	SHEET
A	29/01/2025	7

Panel Type	POLO 1200 High - DPP1222-BK			POLO Raking 1200 High - DPR1224-BK			POLO 1500 High - DPP1522-BK			POLO Raking 1500 High - DPR1524-BK					
	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)			
<b>Loadings</b>															
<b>Max Post Centres</b>	2300mm	1175mm	1175mm	N/A	1175mm	1175mm	2300mm	1175mm	1175mm	N/A	1175mm	1175mm			
<b>In-Ground Post Options</b>	50x50mm DAP5018-BK	65x65mm DAP6519-BK	65x65mm DAP6519-BK	N/A	65x65mm DAP6519-BK	65x65mm DAP6519-BK	50x50mm DAP5021-BK	65x65mm DAP6522-BK	65x65mm DAP6522-BK	N/A	65x65mm DAP6522-BK	65x65mm DAP6522-BK			
<b>Flanged Post Options</b>	50x50mm DAF5013-BK	65x65mm DAF6513-BK	65x65mm DAF6513-BK	N/A	65x65mm DAF6513-BK	65x65mm DAF6513-BK	50x50mm DAF5016-BK	65x65mm DAF6519-BK	65x65mm DAF6519-BK	N/A	65x65mm DAF6519-BK	65x65mm DAF6519-BK			
<b>Applicable Fixing Details</b>	DPA503301 DPA503302 DPA503303	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	DPA503301 DPA503302 DPA503303	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503			

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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 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.



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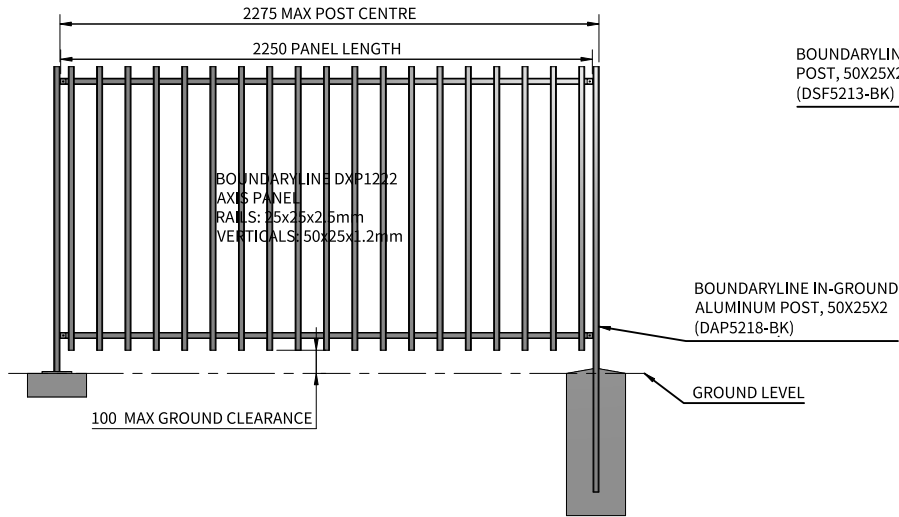
TITLE		
<b>BOUNDARYLINE DURAPANEL POLO</b>		

SCALE	SIZE	DRAWING NO
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REV.	DATE ISSUED	SHEET
A	29/01/2025	8

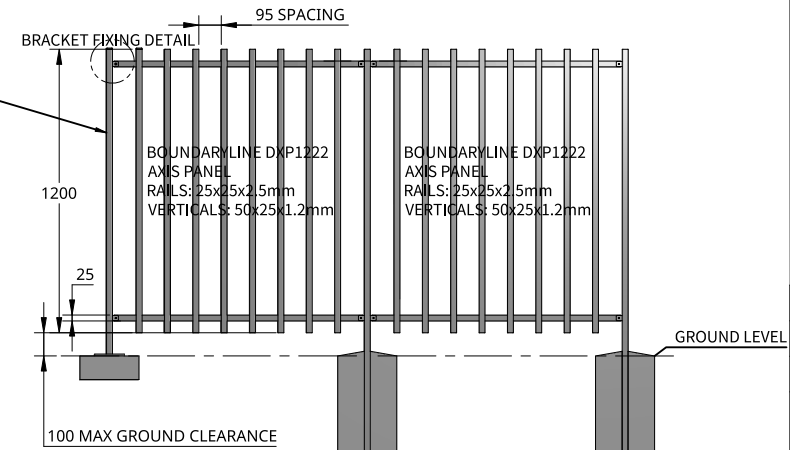
Panel Type	POLO 1800 High - DPP1822-BK			POLO Raking 1800 High - DPR1824-BK		
	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)
<b>Loadings</b>	N/A	1175mm	1175mm	N/A	1175mm	1175mm
<b>Max Post Centres</b>	N/A	65x65mm DAP6525-BK	65x65mm DAP6525-BK	N/A	65x65mm DAP6525-BK	65x65mm DAP6525-BK
<b>In-Ground Post Options</b>	N/A	65x65mm DAF6519-BK	65x65mm DAF6519-BK	N/A	65x65mm DAF6519-BK	65x65mm DAF6519-BK
<b>Flanged Post Options</b>	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503	N/A	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503

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

**BOUNDARYLINE DURAPANEL AXIS FENCE FOR F9  
(POOL FENCE) APPLICATIONS**



**BOUNDARYLINE DURAPANEL AXIS FENCE FOR F4 -  
(FALL RESTRAINT BARRIER) APPLICATIONS**



**General Notes**

1. All dimensions are in millimetres.
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.

**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**

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.

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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

**Existing Support Structure**

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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.



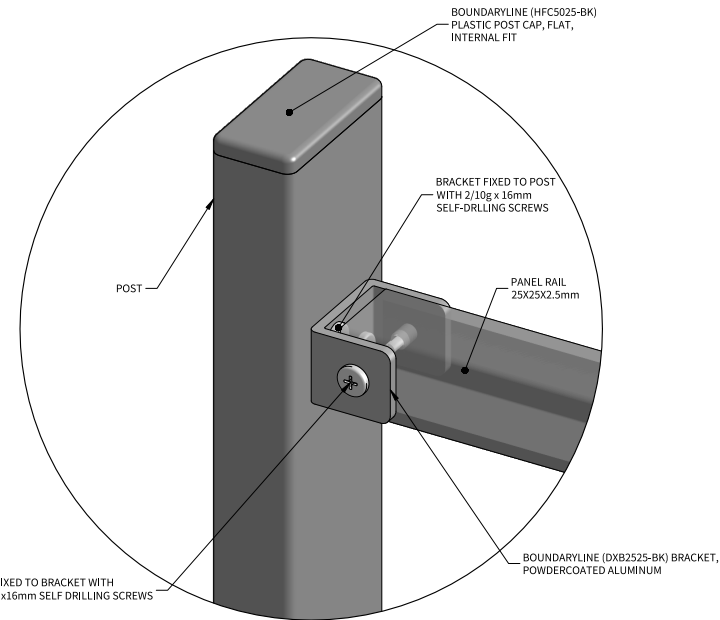
Terranota Ltd. P.O. Box 1703 Invercargill 1703  
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TITLE		
<b>BOUNDARYLINE DURAPANEL AXIS</b>		

SCALE	SIZE	DRAWING NO
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REV.	DATE ISSUED	SHEET
A	29/01/2025	9

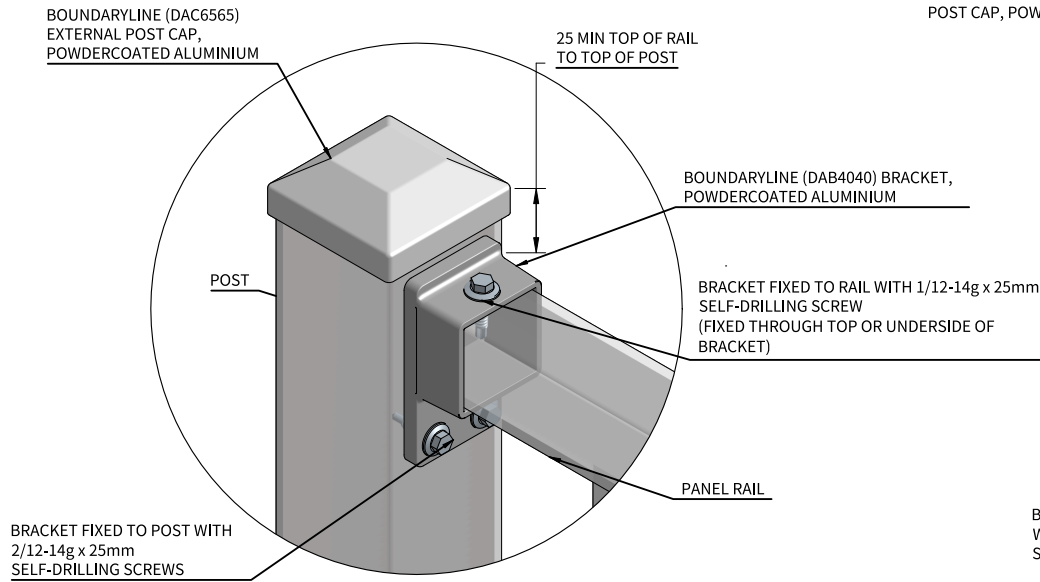
Panel Type	AXIS 1200 High - DXP1222-BK		
Loadings	F9 (Pool Fence)	F4 - 0.35kN/m (Fall Restraint)	F4 - 0.75kN/m (Fall Restraint)
Max Post Centres	2275mm	1075mm	1075mm
In-Ground Post Options	50x25mm DAP5218-BK	50x25mm DSP5218-BK	50x25mm DSP5218-BK
Flanged Post Options	50x25mm DAF5213-BK	50x25mm DSF5213-BK	50x25mm DSF5213-BK
Applicable Fixing Details	DPA527501 DPA527502 DAP527503	DPA657501 DPA657502 DPA657503	DPA657501 DPA657502 DPA657503



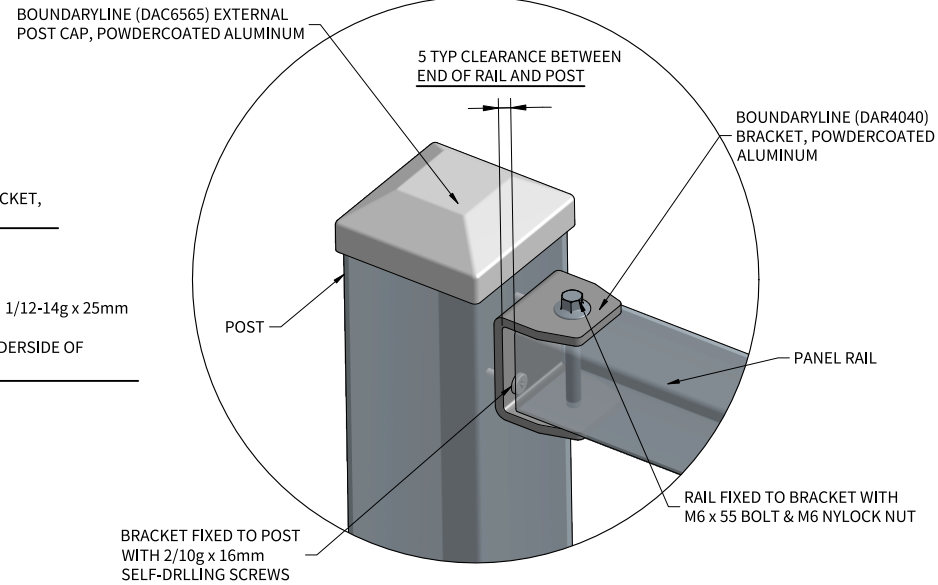
**BRACKET FIXING DETAIL  
1:2**

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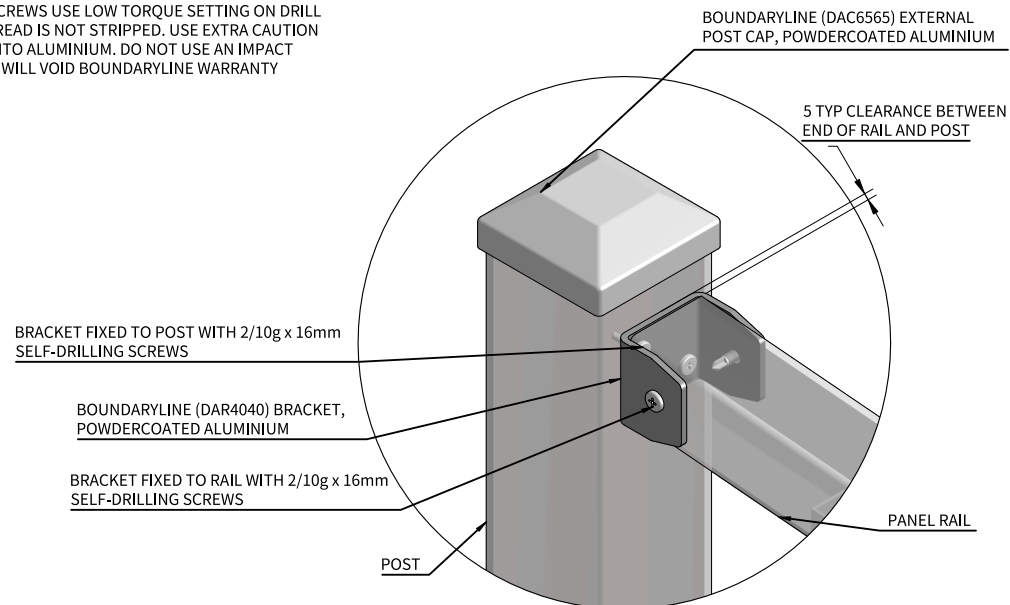


STANDARD PANEL BRACKET FIXING DETAIL  
SCALE: 1:3.5  
1:3



DIRECTIONAL PANEL BRACKET FIXING DETAIL SCALE: 1:3.5  
1:3

NOTE:  
WHEN FIXING SCREWS USE LOW TORQUE SETTING ON DRILL TO ENSURE THREAD IS NOT STRIPPED. USE EXTRA CAUTION WHEN FIXING INTO ALUMINIUM. DO NOT USE AN IMPACT DRIVER AS THIS WILL VOID BOUNDARYLINE WARRANTY



RAKING PANEL BRACKET FIXING DETAIL SCALE: 1:3.5  
1:3

- General Notes**
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  - 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.

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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

- Existing Support Structure**
- Supporting structures as not covered by these drawings unless specific requirements are detailed.
  - Supporting structures are by others and must comply with the New Zealand Building Code.
  - If unsure of existing structure compliance, seek professional advice.



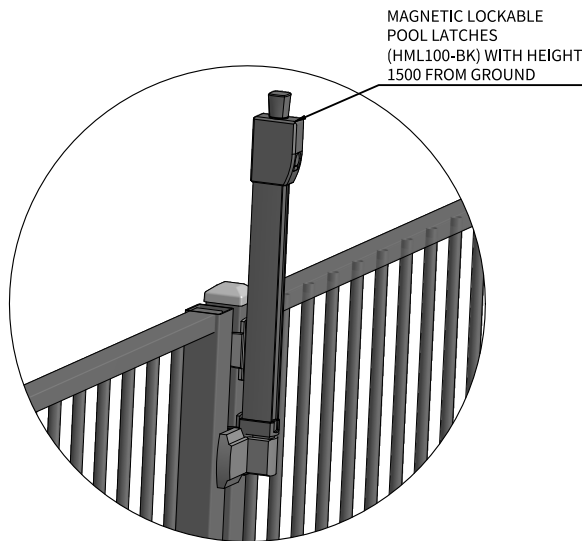
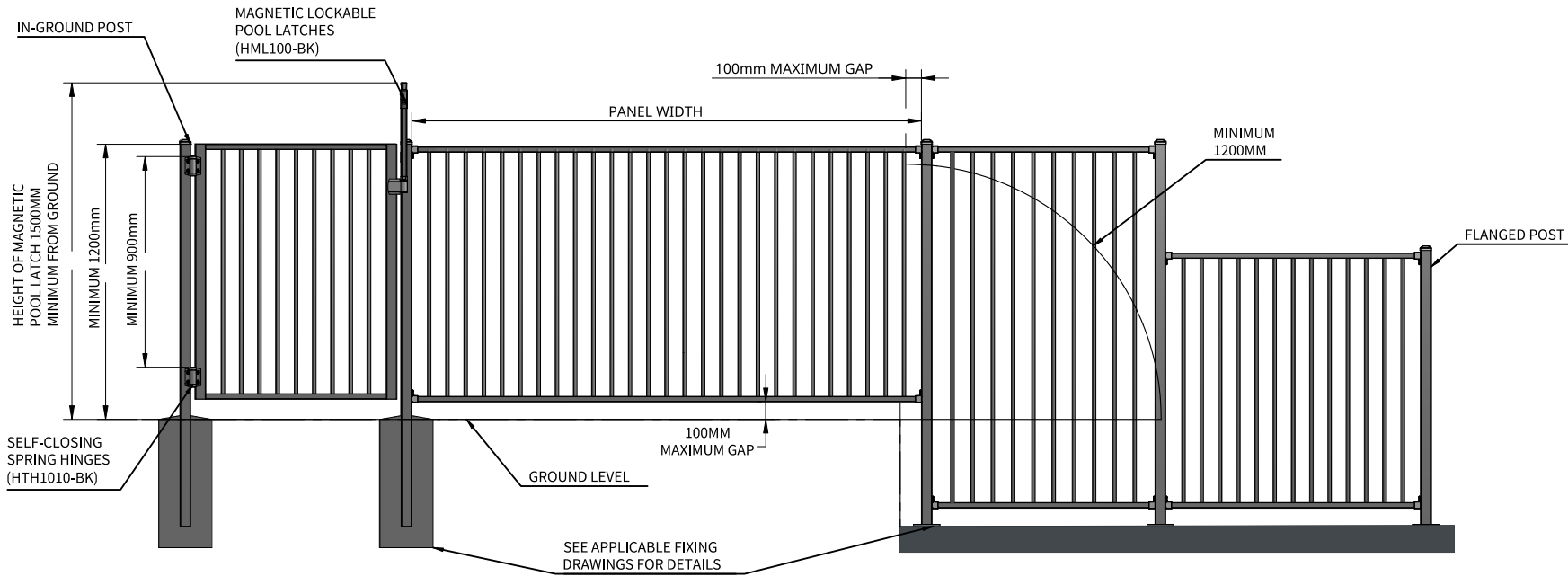
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TITLE  
**BOUNDARYLINE  
DURAPANEL DELTA  
RAIL BRACKET DETAILS**

SCALE	SIZE	DRAWING NO
1:25	A4	DDB01
REV.	DATE ISSUED	SHEET
A	29/01/2025	10

**BOUNDARYLINE DURAPANEL FENCE FOR F9  
(POOL FENCE) APPLICATIONS**



**MAGNETIC LOCKABLE LATCHES (HML100-BK)**  
1:10

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**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**

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**

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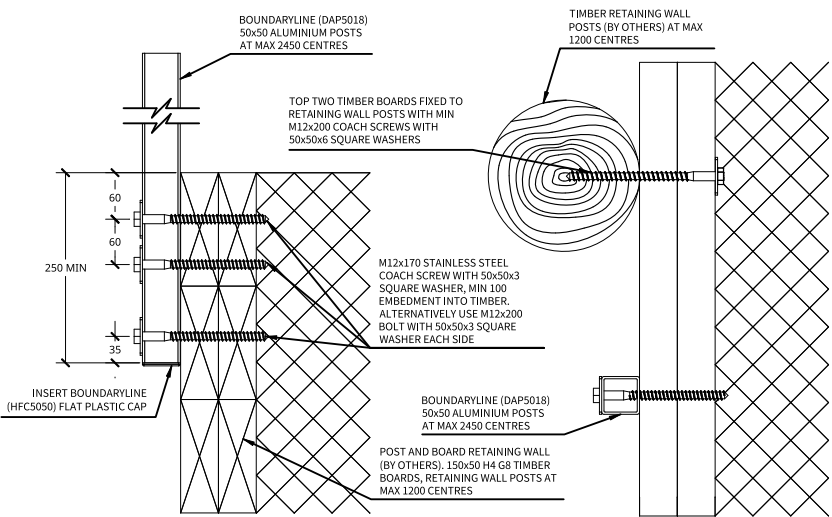
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TITLE  
**BOUNDARYLINE  
 DURAPANEL TYPICAL  
 POOL FENCE INSTALL**

SCALE	SIZE	DRAWING NO
1:32	A4	PFI01
REV.	DATE ISSUED	SHEET
A	29/01/2025	11





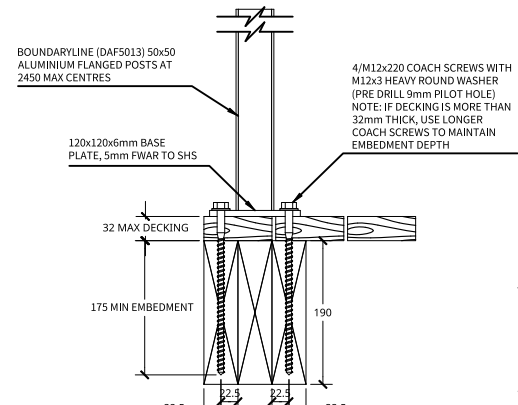


CROSS SECTION

PLAN VIEW

NOTES:  
IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST COACH SCREW LENGTH TO SUIT, ALL INGROUND FIXINGS TO BE STAINLESS STEEL

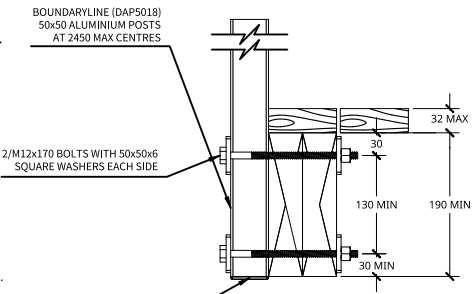
DRAWING NO: SRB503324-B  
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL)  
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



CROSS SECTION

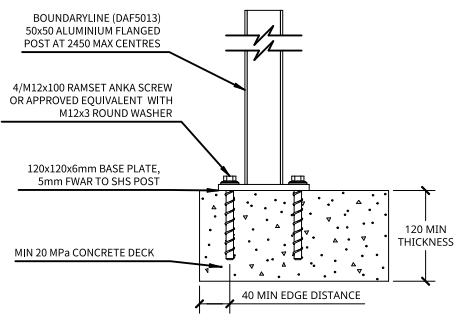
ENSURE SCREWS ARE PLACED IN CENTRE OF OUTSIDE JOISTS

DRAWING NO: TTA503324  
APPLICATION: TOP-FIX TO TIMBER DECK  
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

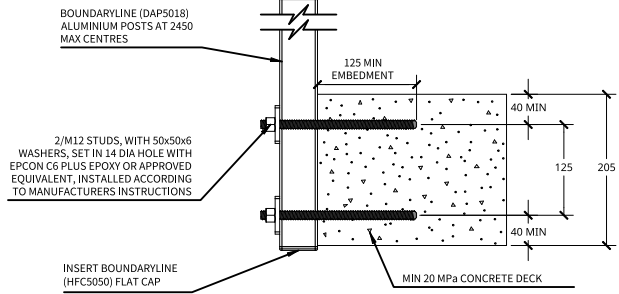


CROSS SECTION

DRAWING NO: STA503324  
APPLICATION: SIDE-FIX TO TIMBER DECK  
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



DRAWING NO: TDA503324  
APPLICATION: TOP-FIX TO CONCRETE DECK  
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



DRAWING NO: SDA503324-A  
APPLICATION: SIDE-FIX TO CONCRETE DECK (205mm THICKNESS)  
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

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3. Check [www.boundaryline.co.nz](http://www.boundaryline.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 3603:1993  
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**  
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.

Zone	Risk Level & Location	Fixing Type
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Zone C	Medium risk	Hot-dip Galvanised
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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. All supporting structure by others and must comply with the New Zealand Building Code  
2. If unsure of existing structure compliance, seek professional advice.



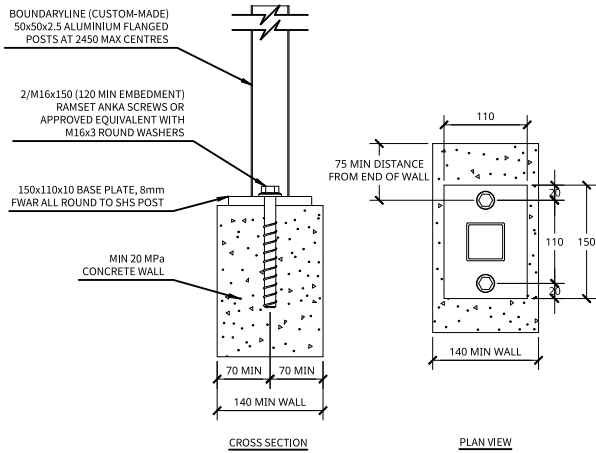
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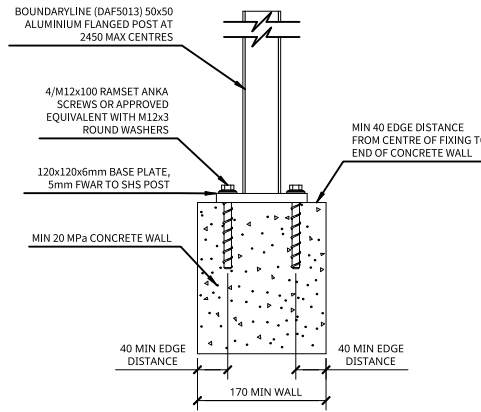
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BOUNDARYLINE DURAPANEL BARRIER  
FIXING DESIGNS FOR:  
- TIMBER RETAINING WALL (DOUBLE BOARD)  
- TIMBER DECK  
- CONCRETE DECK

FOR 0.33kN POINT LOADING  
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

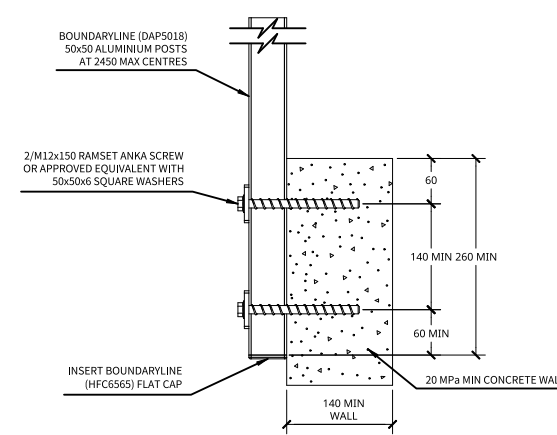
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REV.	DATE ISSUED	SHEET
A	29/01/2025	13



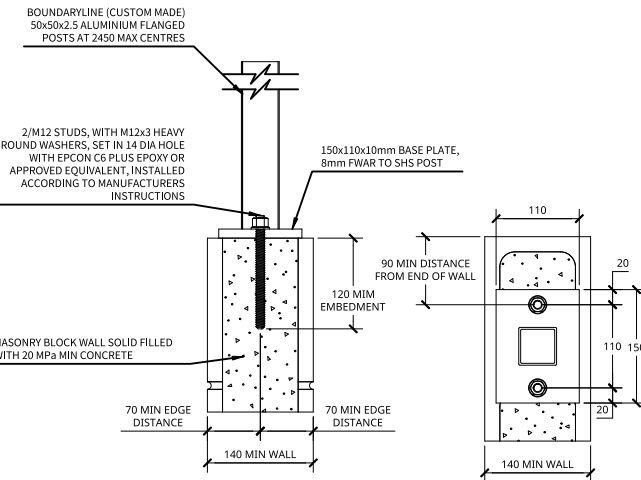
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 APPLICATION: TOP-FIX TO CONCRETE WALL  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



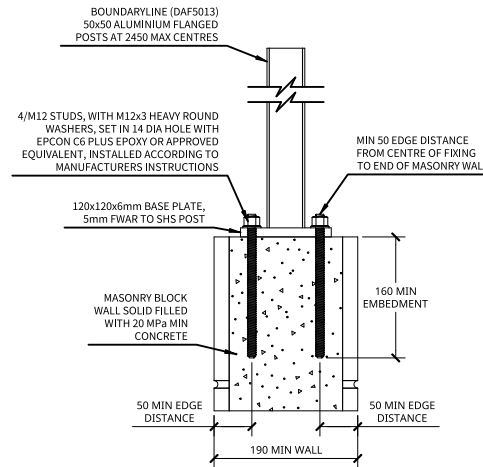
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 APPLICATION: TOP-FIX TO CONCRETE WALL  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



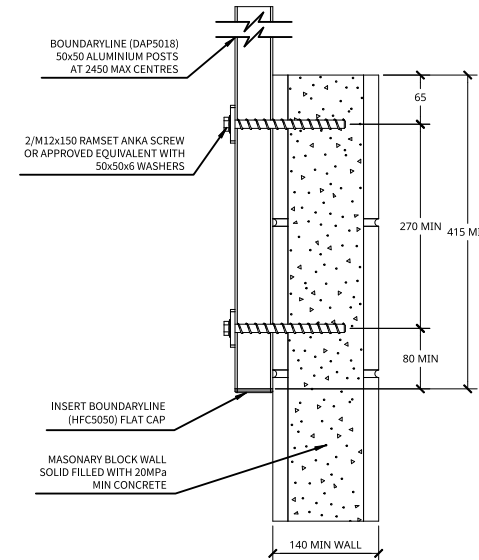
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 APPLICATION: SIDE-FIX TO CONCRETE WALL  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



DRAWING NO: TMA503324-A  
 APPLICATION: TOP-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



DRAWING NO: TMA503324-B  
 APPLICATION: TOP-FIX TO MASONRY WALL (20 SERIES)  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES



DRAWING NO: SMA503324  
 APPLICATION: SIDE-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES  
 LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

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- Fixing Notes**
- All coach screws and bolts to be pre-drilled according to NZS 3603:1993

- 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 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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

- Existing Support Structure**
- All supporting structure by others and must comply with the New Zealand Building Code
  - If unsure of existing structure compliance, seek professional advice.



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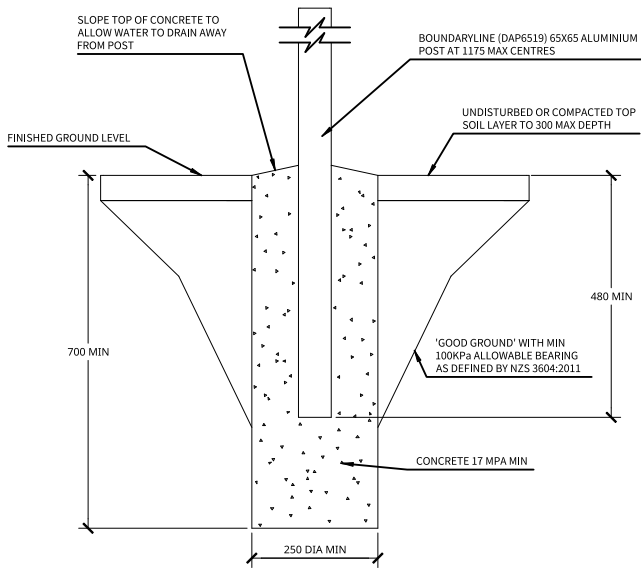
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TITLE  
 BOUNDARYLINE DURAPANEL BARRIER  
 FIXING DESIGNS FOR:  
 - CONCRETE WALL  
 - MASONRY WALL

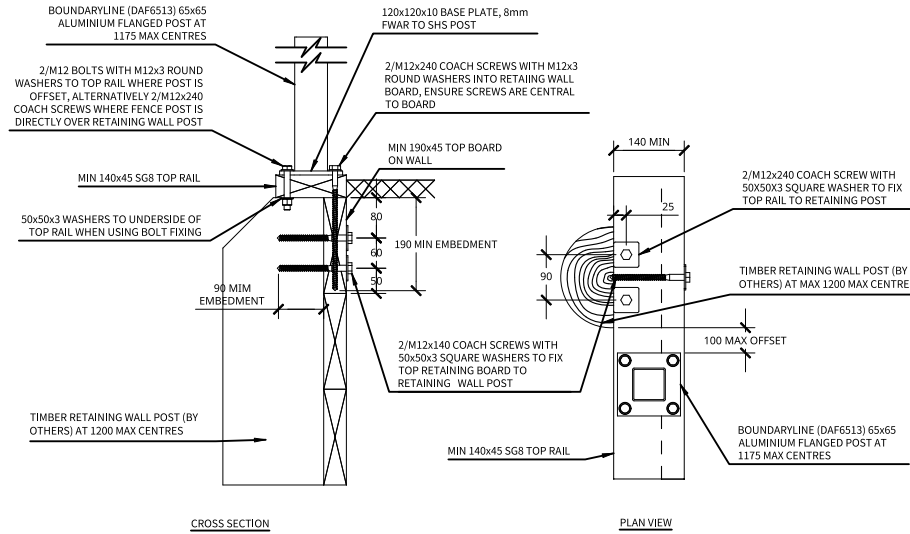
FOR 0.33kN POINT LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

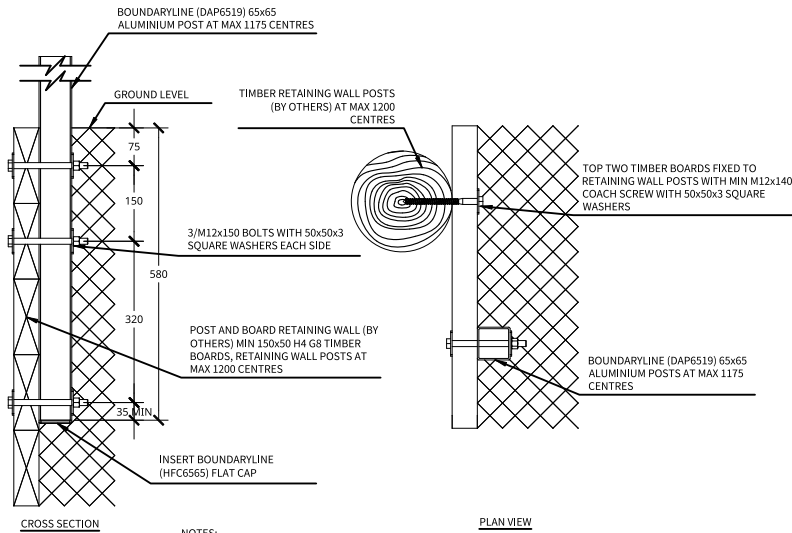
SCALE	SIZE	DRAWING NO
1:10	A4	DPA503303
REV.	DATE ISSUED	SHEET
A	29/01/2025	14



DRAWING NO: ICA657512  
 APPLICATION: CONCRETE IN-GROUND  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800

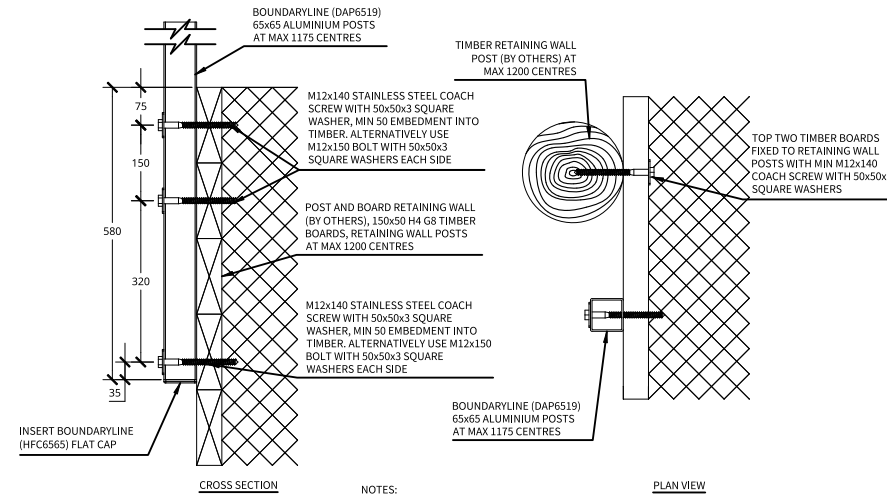


DRAWING NO: TRA657512  
 APPLICATION: TOP-FIX TO TIMBER RETAINING WALL  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



NOTES:  
 IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST BOLT LENGTH TO SUIT.  
 ALL IN-GROUND FIXINGS TO BE STAINLESS STEEL OR GALVANISED WITH DPM PROTECTION

DRAWING NO: SRA657512-A  
 APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



NOTES:  
 IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST COACH SCREW LENGTH TO SUIT, ALL IN-GROUND FIXINGS TO BE STAINLESS STEEL

DRAWING NO: SRA657512-B  
 APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL)  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800

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

- General Notes
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  - 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 3603:1993
  - 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.

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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

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



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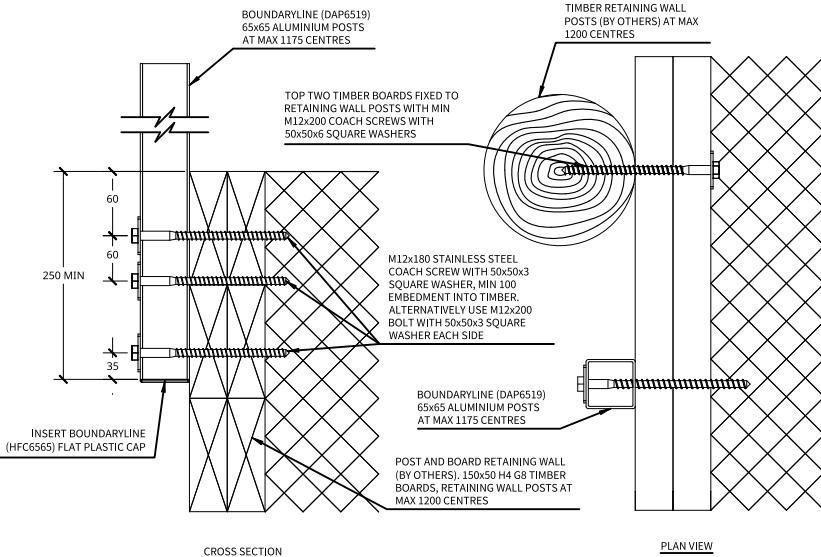
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TITLE  
 BOUNDARYLINE DURAPANEL  
 BARRIER FIXING DESIGNS FOR:  
 - CONCRETE IN-GROUND  
 - TIMBER RETAINING WALL

FOR 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

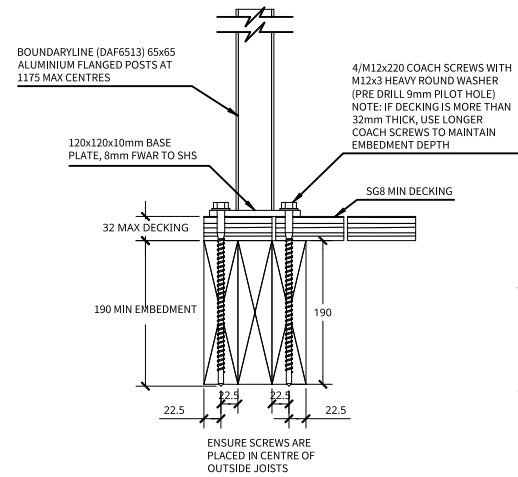
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

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REV.	DATE ISSUED	SHEET
A	29/01/2025	15

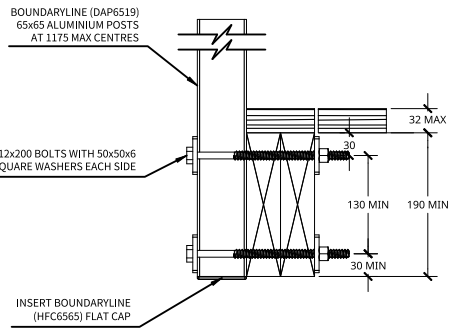


NOTES:  
IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST COACH SCREW LENGTH TO SUIT, ALL INGROUND FIXINGS TO BE STAINLESS STEEL

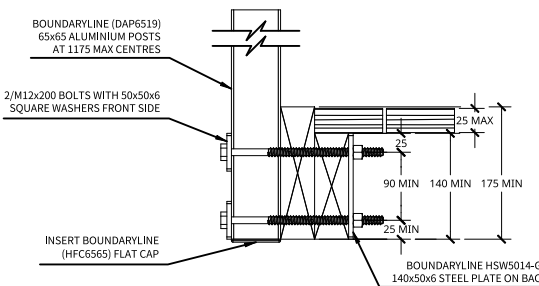
DRAWING NO: SRB657512-B  
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL)  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800



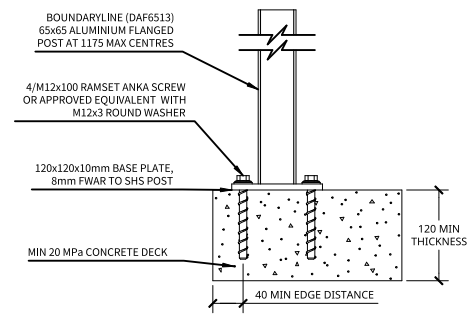
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APPLICATION: TOP-FIX TO TIMBER DECK  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800



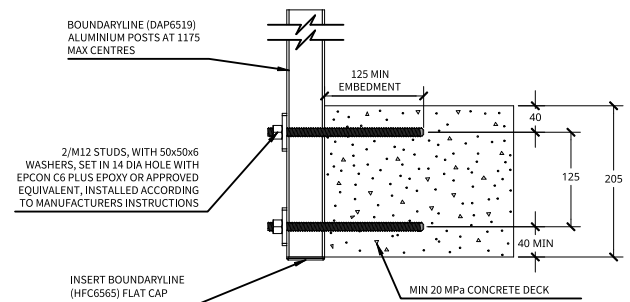
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APPLICATION: SIDE-FIX TO TIMBER DECK  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800



DRAWING NO: STA657512-B  
APPLICATION: SIDE-FIX TO TIMBER DECK WITH BOUNDARY JOIST  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800



DRAWING NO: TDA657512  
APPLICATION: TOP-FIX TO CONCRETE DECK  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800



DRAWING NO: SDA657512-A  
APPLICATION: SIDE-FIX TO CONCRETE DECK (205 min THICKNESS)  
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
HEIGHTS: 1200, 1500, 1800

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3. Check [www.boundaryline.co.nz](http://www.boundaryline.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 3603:1993  
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**  
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.

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 E	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel

**Existing Support Structure**  
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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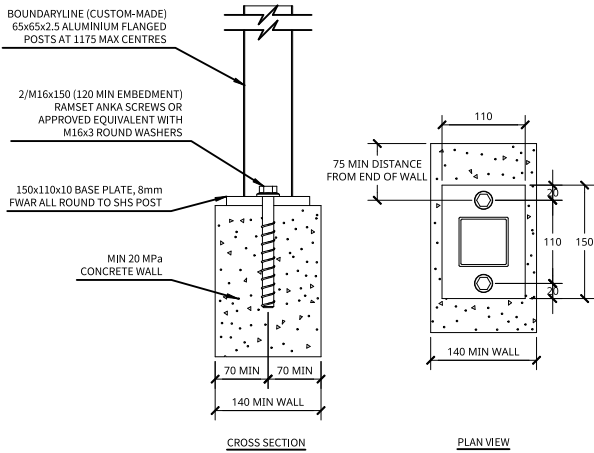
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BOUNDARYLINE DURAPANEL BARRIER  
FIXING DESIGNS FOR:  
- TIMBER RETAINING WALL (DOUBLE BOARD)  
- TIMBER DECK  
- CONCRETE DECK

FOR 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

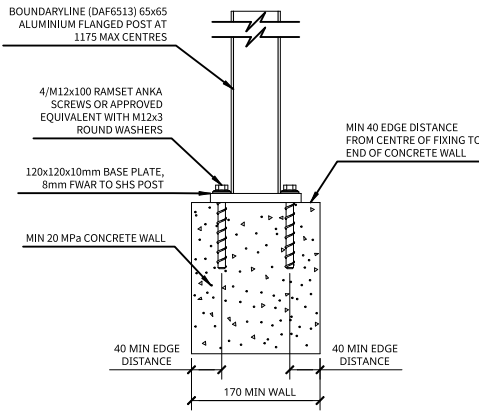
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REV.	DATE ISSUED	SHEET
A	29/01/2025	16

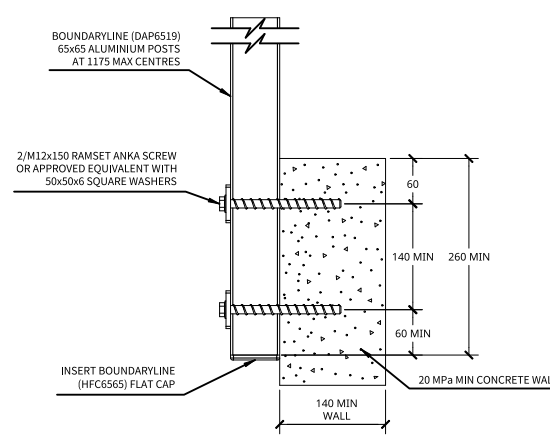




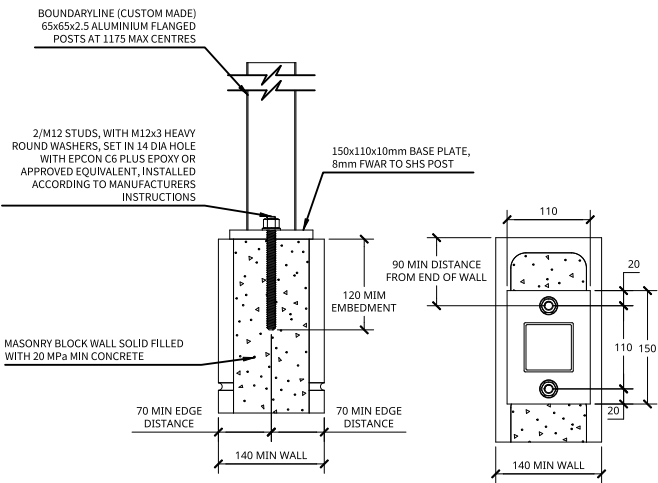
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 APPLICATION: TOP-FIX TO CONCRETE WALL  
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 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



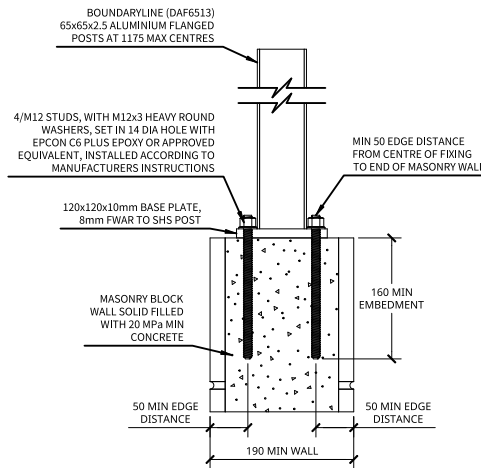
DRAWING NO: TWA657512-B  
 APPLICATION: TOP-FIX TO CONCRETE WALL  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



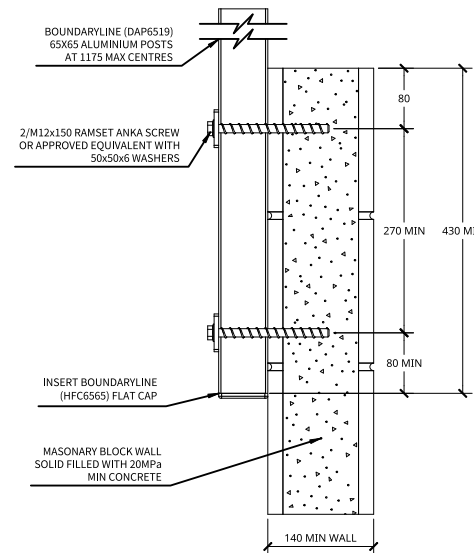
DRAWING NO: SWA657512  
 APPLICATION: SIDE-FIX TO CONCRETE WALL  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



DRAWING NO: TMA657512-A  
 APPLICATION: TOP-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



DRAWING NO: TMA657512-B  
 APPLICATION: TOP-FIX TO MASONRY WALL (20 SERIES)  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800



DRAWING NO: SMA657512  
 APPLICATION: SIDE-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 0.35kN/m AT MAX 1175 POST CENTRES  
 LOADING: 0.75kN/m AT MAX 1175 POST CENTRES  
 HEIGHTS: 1200, 1500, 1800

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**Fixing Notes**

- All coach screws and bolts to be pre-drilled according to NZS 3603:1993
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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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TITLE  
 BOUNDARYLINE DURAPANEL BARRIER  
 FIXING DESIGNS FOR:  
 - CONCRETE WALL  
 - MASONRY WALL

FOR 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	DPA657503
REV.	DATE ISSUED	SHEET
A	29/01/2025	17



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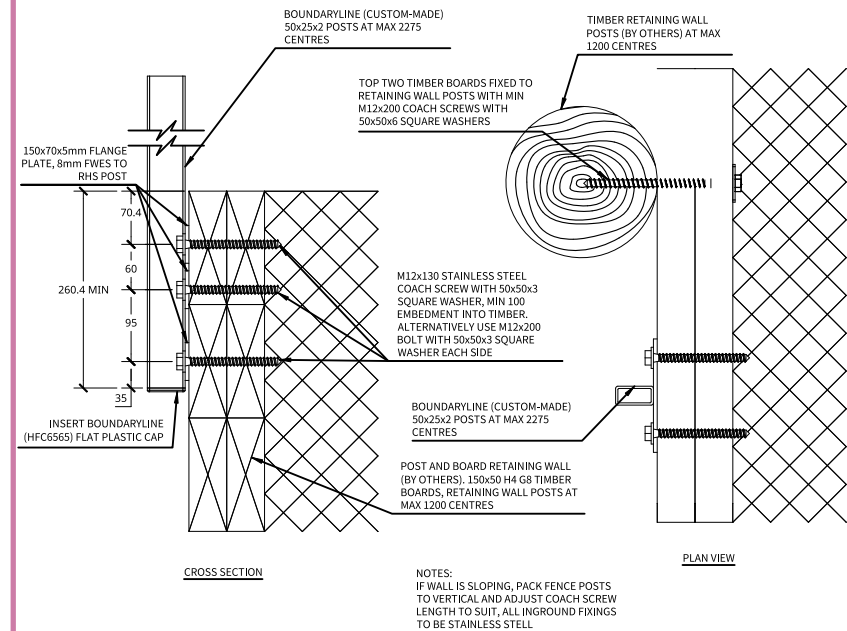
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**TITLE: BOUNDARYLINE DURAPANEL AXIS BARRIER FIXING DESIGNS FOR:**  
 - TIMBER RETAINING WALL (DOUBLE BOARD)  
 - TIMBER DECK  
 - CONCRETE DECK

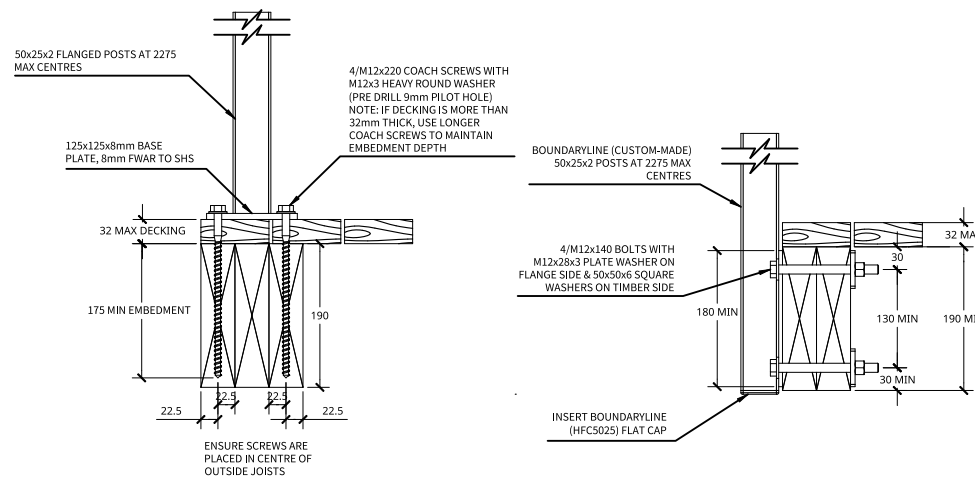
FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING (REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

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REV.	DATE ISSUED	SHEET
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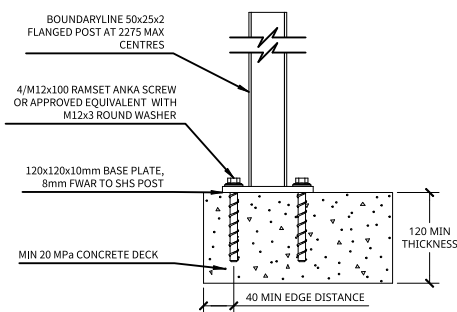


DRAWING NO: SRB527511-B  
 APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL)  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY

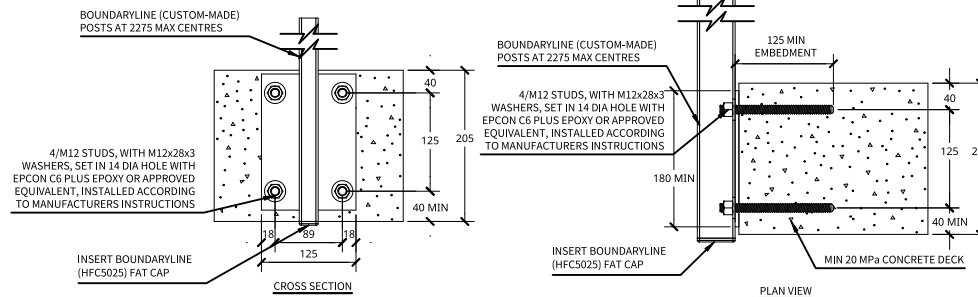
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 APPLICATION: TOP-FIX TO TIMBER DECK  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: STA527511  
 APPLICATION: SIDE-FIX TO TIMBER DECK  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: TDA527511  
 APPLICATION: TOP-FIX TO CONCRETE DECK  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: SDA527511-A  
 APPLICATION: SIDE-FIX TO CONCRETE DECK (180 min THICKNESS)  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



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



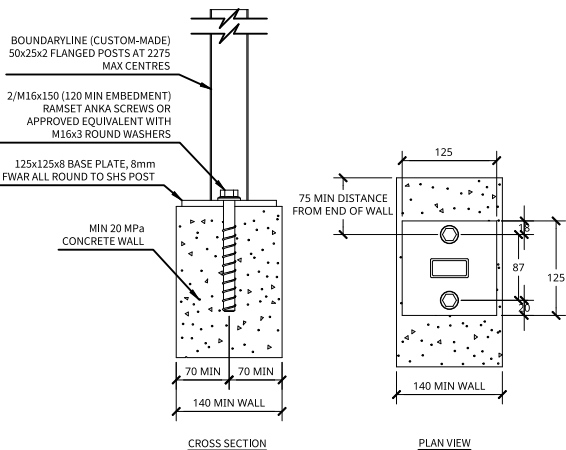
Terranota Ltd. P.O. Box 1703 Invercargill 1703  
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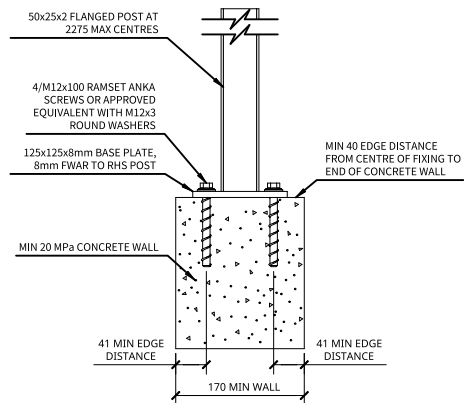
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 BOUNDARYLINE DURAPANEL AXIS  
 BARRIER FIXING DESIGNS FOR:  
 - CONCRETE WALL  
 - MASONRY WALL  
 FOR 0.33kN POINT LOAD, 0.35kN/m &  
 0.75kN/m HORIZONTAL LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

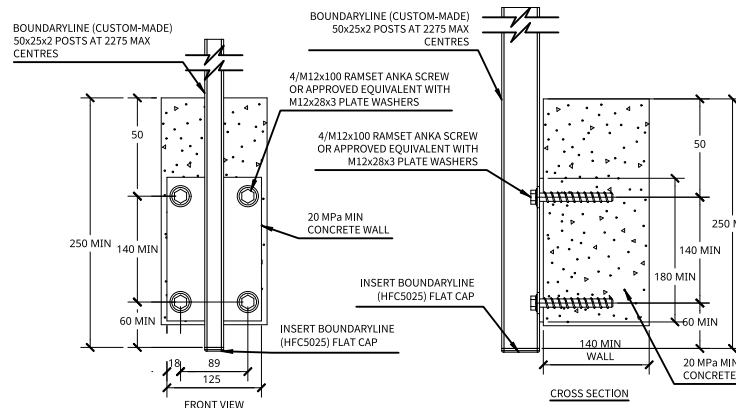
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A	29/01/2025	20



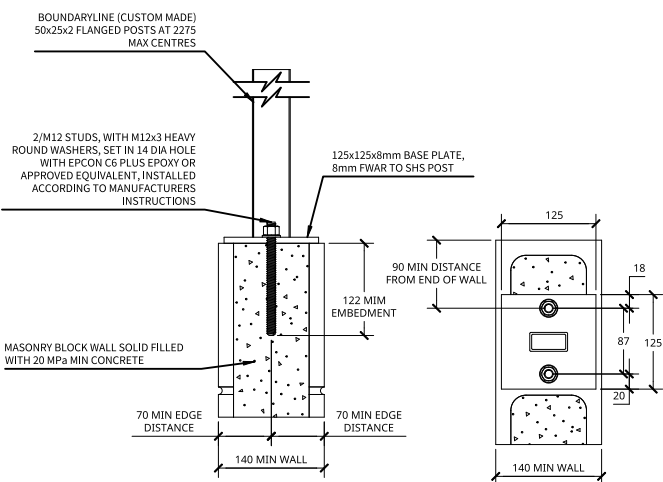
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 APPLICATION: TOP-FIX TO CONCRETE WALL  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



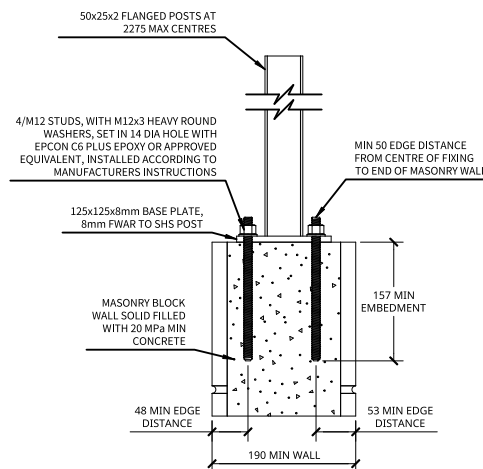
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 APPLICATION: TOP-FIX TO CONCRETE WALL  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



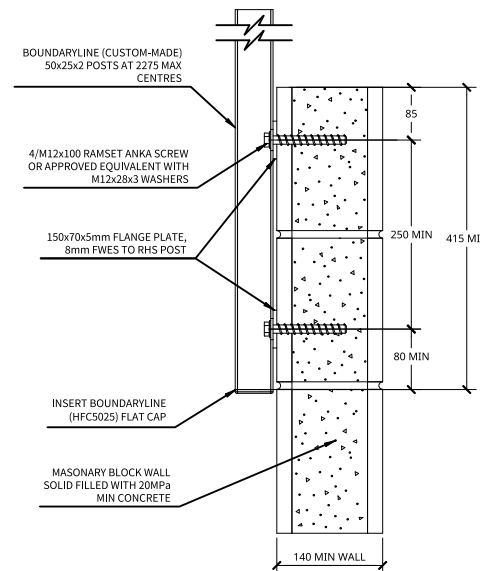
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 APPLICATION: SIDE-FIX TO CONCRETE WALL  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: TMA527511-A  
 APPLICATION: TOP-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: TMA527511-B  
 APPLICATION: TOP-FIX TO MASONRY WALL (20 SERIES)  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



DRAWING NO: SMA527511  
 APPLICATION: SIDE-FIX TO MASONRY WALL (15 SERIES)  
 LOADING: 0.33kN POINT LOAD AT MAX 2275 POST CENTRES (50x25X2 ALUMINIUM POST)  
 LOADING: 0.35kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 LOADING: 0.75kN/m AT MAX 1075 POST CENTRES (50x25X2 STEEL POST)  
 HEIGHT: 1200 ONLY



# PRODUCER STATEMENT – PS1 DESIGN

**BUILDING CODE CLAUSE(S):** B1 F4 F9 | **JOB NUMBER:** S89-0189 |

**ISSUED BY:** STUDIO89 GROUP PTY LTD |  
(Engineering Design Firm)

**TO:** BOUNDARYLINE |  
(Owner/Developer)

**TO BE SUPPLIED TO:** VARIOUS COUNCILS ACROSS NEW ZEALAND |  
(Building Consent Authority)

**IN RESPECT OF:** BALUSTRADE AND SCREEN |  
(Description of Building Work)

**AT:** VARIOUS LOCATIONS ACROSS NEW ZEALAND |  
(Address, Town/City)

**LEGAL DESCRIPTION:** | **N/A**

We have been engaged by the owner/developer referred to above to provide (Extent of Engagement):  
VERIFICATION OF DURAPANEL MEMBERS AND FIXINGS |  
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 following level of construction monitoring: As per condition of building consent as a minimum.

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: 26/01/25 EXPIRES 25/01/26

**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 26 JANUARY 2025 TO 25 JANUARY 2026

- P.1 - Cover Page
- P.2 - Barrier specification selection guide
- P.3 to P.4 - Specification (Wind, Fixing Types)
- P.5 to P.21 - Drawings and Details
- P.22 to P.24 - PS1
- P.25 - Last Page

## GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website

<https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/>

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects (NZIA), Institution of Professional Engineers New Zealand (now Engineering New Zealand), Association of Consulting and Engineering New Zealand (ACE NZ) in consultation with the Building Officials Institute of New Zealand (BOINZ). The original suite of producer statements has been revised at the date of this form to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with part of the reasonable grounds necessary for the issue of a Building Consent or a Code Compliance Certificate, without necessarily having to duplicate review of design or construction monitoring undertaken by others.

**PS1 DESIGN** Intended for use by a suitably qualified independent engineering design professional in circumstances where the BCA accepts a producer statement for establishing reasonable grounds to issue a Building Consent;

**PS2 DESIGN REVIEW** Intended for use by a suitably qualified independent engineering design review professional where the BCA accepts an independent design professional's review as the basis for establishing reasonable grounds to issue a Building Consent;

**PS3 CONSTRUCTION** Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011<sup>2</sup>

**PS4 CONSTRUCTION REVIEW** Intended for use by a suitably qualified independent engineering construction monitoring professional who either undertakes or supervises construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

### Competence of Engineering Professional

This statement is made by an engineering firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its personnel.

The person signing the Producer Statement on behalf of the engineering firm will have a professional qualification and proven current competence through registration on a national competence-based register such as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand provides additional assurance of the designer's standing within the profession. If the engineering firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent engineering professional".

### Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard practice for the relationship between the BCA and the engineering firm.

### Professional Services during Construction Phase

There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1-CM5 for engineers<sup>3</sup>). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm is appropriate for the project concerned.

### Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

### Refer Also:

- 1 Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- 2 NZIA Standard Conditions of Contract SCC 2011
- 3 Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- 4 PN01 Guidelines on Producer Statements

[www.acenz.org.nz](http://www.acenz.org.nz)  
[www.engineeringnz.org](http://www.engineeringnz.org)



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