Boundaryline

Picket**Panel PS1**

Rev: 1.3
Issue Date: 17/02/2025

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 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.

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.

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

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 and High wind zone's (please see tables below). If your property falls into a higher wind zone, please contact Boundaryline 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.

Maximum Post centres for Picket Panel for **0.35kN/m** Loading

Wind Zone		950h	1200h	1500h	1800h
Medium	Atlas	2.49m	2.49m	2.49m	2m
	Juno, Opus, Rondo, Forte	2.505m	2.505m	2m	1.65m
High	Atlas	2.49m	2.49m		
	Juno, Opus, Rondo, Forte	2.505m	2.505m		
Very High/Extra High	Atlas	Please contact Boundaryline for a solution			
	Juno, Opus, Rondo, Forte				

Maximum Post centres for Picket Panel for **0.75kN/m** Loading

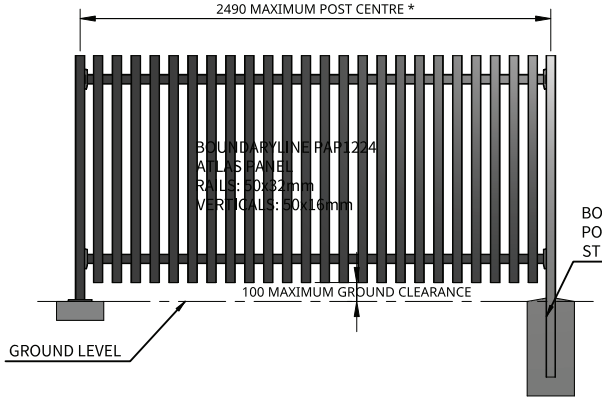
Wind Zone		950h	1200h	1500h	1800h
Medium	Atlas	2.08m	2.08m	2.08m	2m
	Juno, Opus, Rondo, Forte	2.08m	2.08m	2m	1.65m
High	Atlas	2.08m	2.08m		
	Juno, Opus, Rondo, Forte	2.08m	2.08m		
Very High/Extra High	Atlas	Please contact Boundaryline for a solution			
	Juno, Opus, Rondo, Forte				

Fixing Types

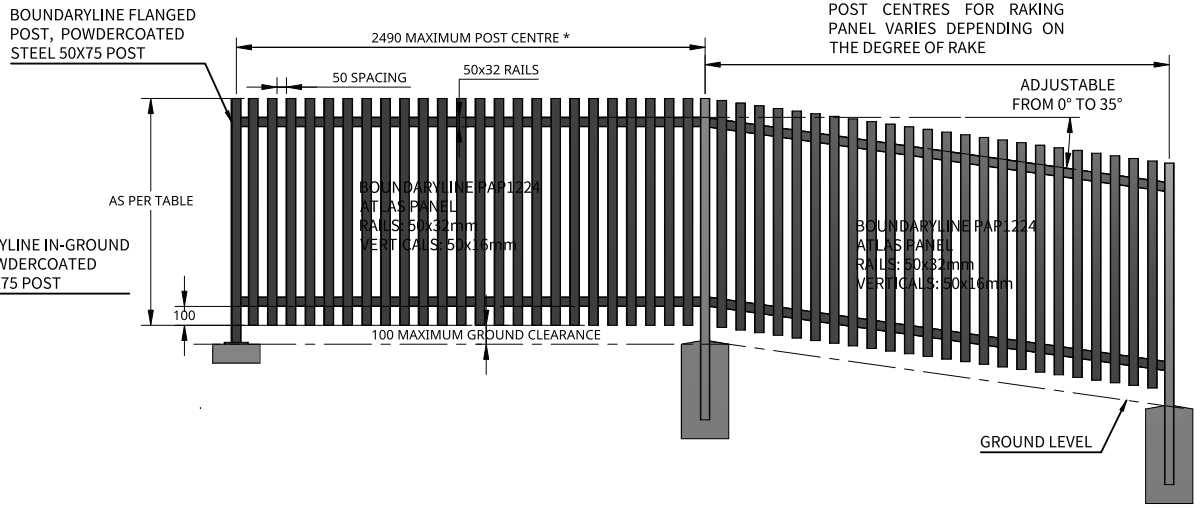
There are four corrosion zones in New Zealand that relate to the severity of exposure to wind-driven salt. To determine the corrosion zone of your installation location, please check maps in Figure 4.2 in NZS3604:2011 (or online search 'BRANZ Maps'). Use the table below to determine the appropriate fixing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

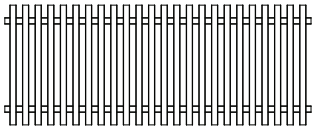
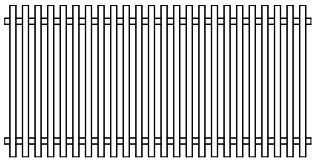
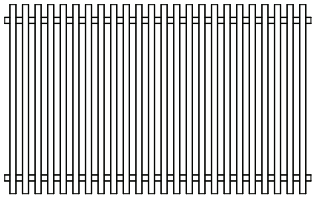
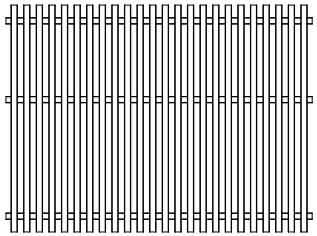
BOUNDARYLINE PICKETPANEL PAP1224-BK FENCE FOR F9 (POOL FENCE) APPLICATIONS



BOUNDARYLINE PICKETPANEL PAP1224-BK FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS



*Refer to the table below for the maximum post centre for your application

Panel Type	Atlas Rakeable 950 High - PAP9524-BK			Atlas Rakeable 1200 High - PAP1224-BK			Atlas Rakeable 1500 High - PAP1524-BK			Atlas Rakeable 1800 High - PAP1824-BK		
												
Loadings	**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)**
Max Post Centres	N/A	2490mm	2080mm	2490mm	2490mm	2080mm	2490mm	2490mm	2080mm	N/A	2080mm	2080mm
In-Ground Post Options	N/A	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	N/A	50X75 STEEL POST	50X75 STEEL POST
Flanged Post Options	N/A	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	50X75 STEEL POST	N/A	50X75 STEEL POST	50X75 STEEL POST
Maximum Wind Loading	N/A	HIGH	HIGH	HIGH	HIGH	HIGH	MED	MED	MED	N/A	MED	MED
Applicable Fixing Details	N/A	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	N/A	PFD657501 PFD657502	PFD657501 PFD657502

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General Notes

1. All dimensions are in millimetres.

2. Drawings are not necessarily to scale

3. Check 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 appropiate 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. 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

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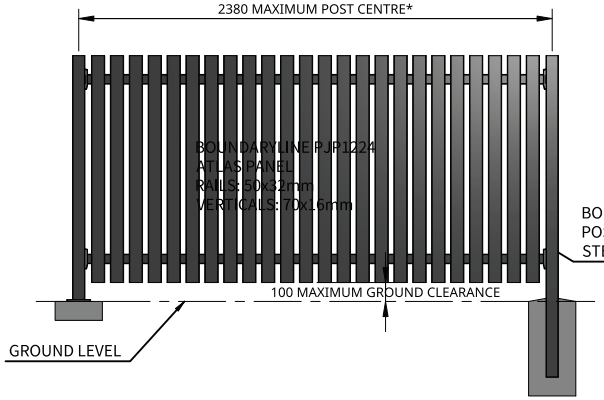
TITLE

BOUNDARYLINE PICKETPANEL ATLAS

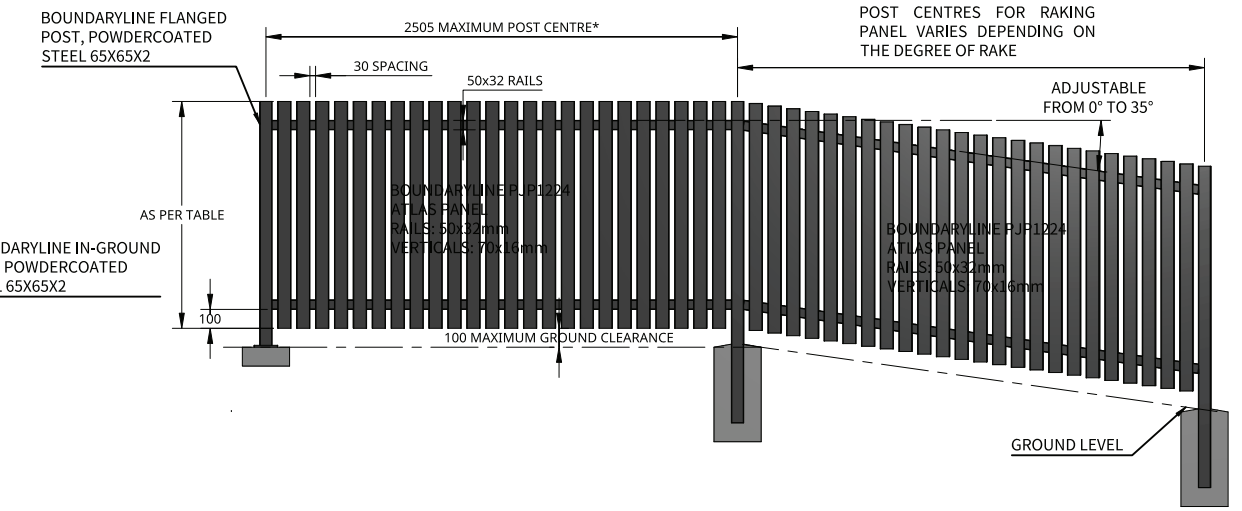
SCALE	SIZE	DRAWING NO
1:40	A4	PAP01

REV.	DATE ISSUED	SHEET
1.6	17/02/2025	4

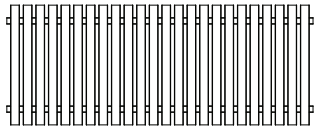
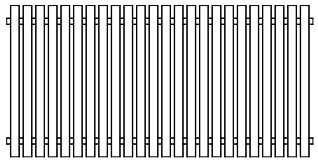
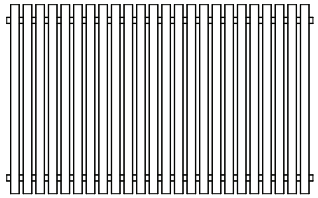
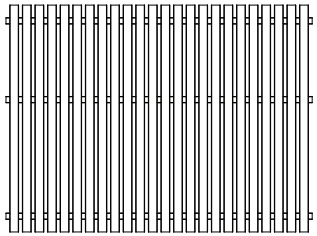
BOUNDARYLINE PICKETPANEL PJP1224-BK FENCE FOR F9 (POOL FENCE) APPLICATIONS



BOUNDARYLINE PICKETPANEL PJP1224-BK FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS



*Refer to the table below for the maximum post centre for your application

	Juno Rakeable 950 High - PJP9524-BK			Juno Rakeable 1200 High - PJP1224-BK			Juno Rakeable 1500 High - PJP1524-BK			Juno Rakeable 1800 High - PJP1824-BK		
Panel Type												
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Max Post Centres	N/A	2505mm	2080mm	2380mm	2380mm	2080mm	2000mm	2000mm	2000mm	N/A	1650mm	1650mm
In-Ground Post Options	N/A	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	N/A	65X65 STEEL POST	65X65 STEEL POST
Flanged Post Options	N/A	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	N/A	65X65 STEEL POST	65X65 STEEL POST
Maximum Wind Loading	N/A	HIGH	HIGH	HIGH	HIGH	HIGH	MED	MED	MED	N/A	MED	MED
Applicable Fixing Details	N/A	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	N/A	PFD657501 PFD657502	PFD657501 PFD657502

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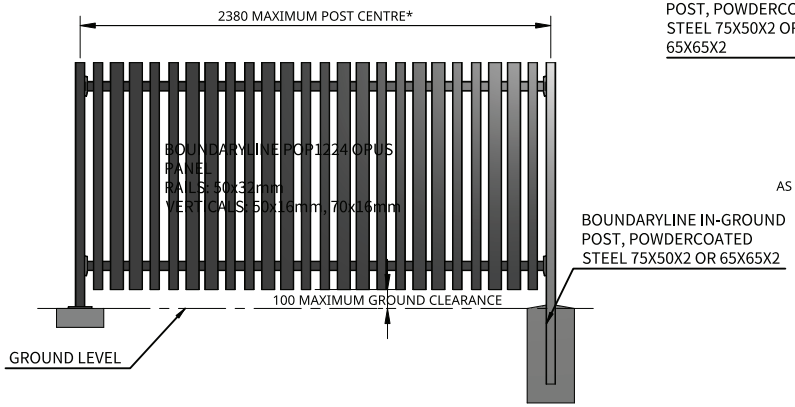
TITLE

BOUNDARYLINE PICKETPANEL JUNO

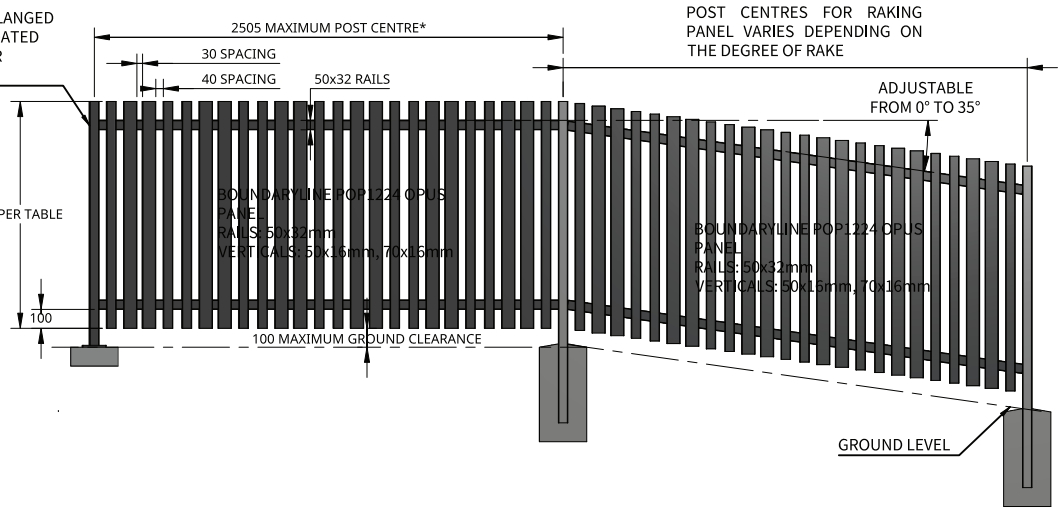
SCALE	SIZE	DRAWING NO
1:40	A4	PJP01

REV.	DATE ISSUED	SHEET
1.6	17/02/2025	5

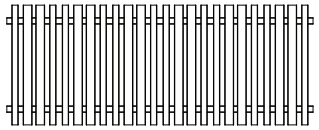
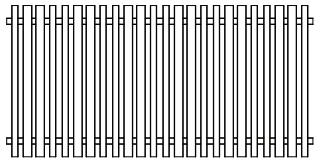
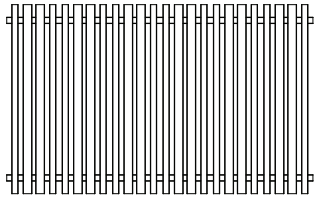
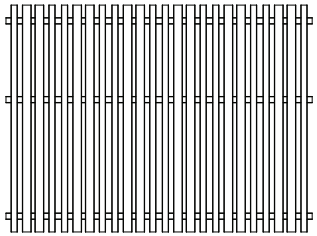
BOUNDARYLINE PICKETPANEL POP1224-BK FENCE FOR F9 (POOL FENCE) APPLICATIONS



BOUNDARYLINE PICKETPANEL POP1224-BK FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS



*Refer to the table below for the maximum post centre for your application

	Opus Rakeable 950 High - POP9524-BK			Opus Rakeable 1200 High - POP1224-BK			Opus Rakeable 1500 High - POP1524-BK			Opus Rakeable 1800 High - POP1824-BK		
Panel Type												
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Max Post Centres	N/A	2505mm	2080mm	2380mm	2380mm	2080mm	2000mm	2000mm	2000mm	N/A	1650mm	1650mm
In-Ground Post Options	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST
Flanged Post Options	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST
Maximum Wind Loading	N/A	HIGH	HIGH	HIGH	HIGH	HIGH	MED	MED	MED	N/A	MED	MED
Applicable Fixing Details	N/A	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	N/A	PFD657501 PFD657502	PFD657501 PFD657502

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TITLE

BOUNDARYLINE PICKETPANEL OPUS

SCALE	SIZE	DRAWING NO
1:40	A4	POP01

REV.	DATE ISSUED	SHEET
1.6	17/02/2025	6

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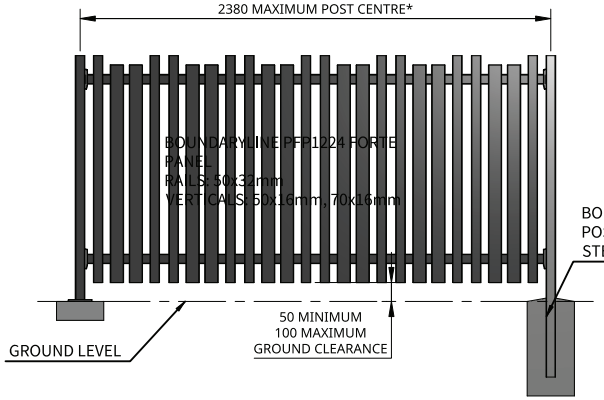
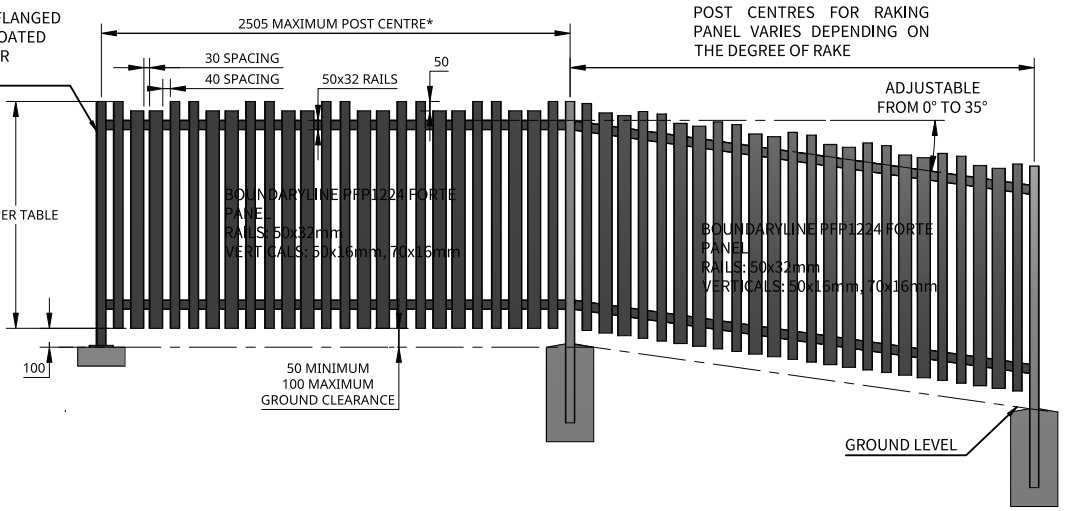
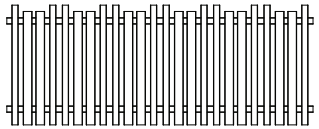
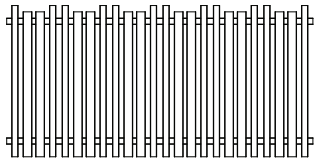
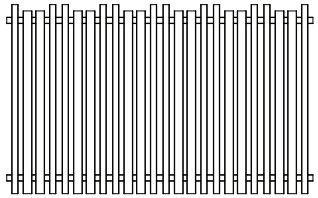
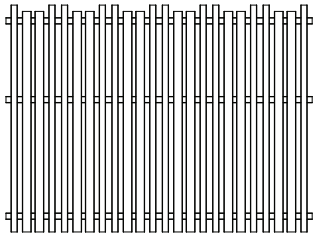


BOUNDARYLINE PICKETPANEL PFP1224-BK FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS



*Refer to the table below for the maximum post centre for your application

	Forte Rakeable 950 High - PFP9524-BK			Forte Rakeable 1200 High - PFP1224-BK			Forte Rakeable 1500 High - PFP1524-BK			Forte Rakeable 1800 High - PFP1824-BK		
Panel Type												
Loadings	**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)**
Max Post Centres	N/A	2505mm	2080mm	2380mm	2380mm	2080mm	2000mm	2000mm	2000mm	N/A	1650mm	1650mm
In-Ground Post Options	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST
Flanged Post Options	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST	N/A	65X65 OR 75X50 STEEL POST	65X65 OR 75X50 STEEL POST
Maximum Wind Loading	N/A	HIGH	HIGH	HIGH	HIGH	HIGH	MED	MED	MED	N/A	MED	MED
Applicable Fixing Details	N/A	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	N/A	PFD657501 PFD657502	PFD657501 PFD657502

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General Notes

1. All dimensions are in millimetres.

2. Drawings are not necessarily to scale

3. Check 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 appropiate 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. 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

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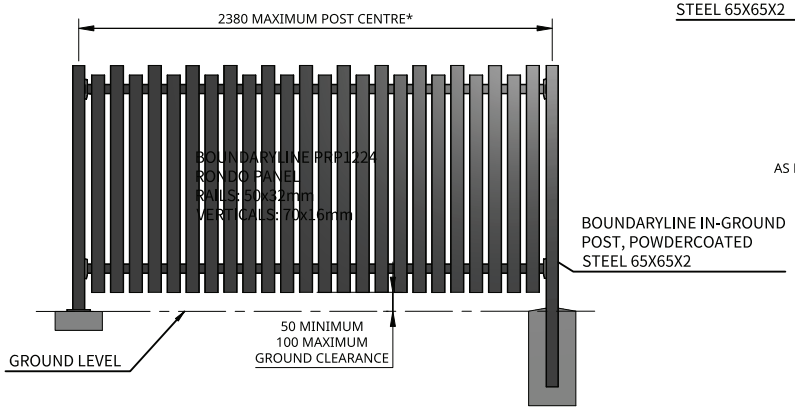
TITLE

BOUNDARYLINE PICKETPANEL FORTE

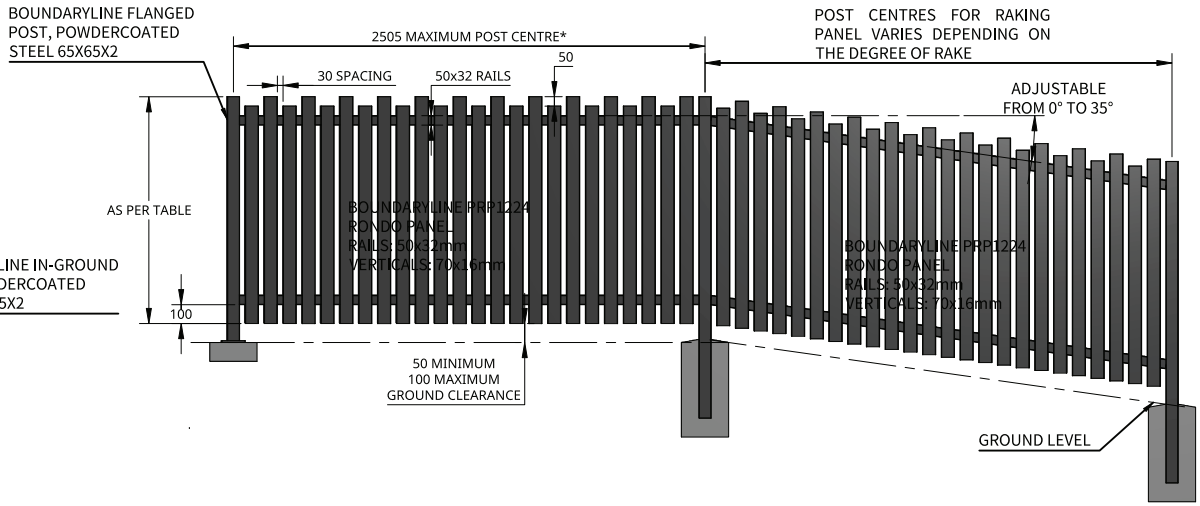
SCALE	SIZE	DRAWING NO
1:40	A4	PFP01

REV.	DATE ISSUED	SHEET
1.6	17/02/2025	7

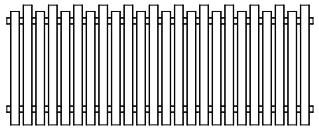
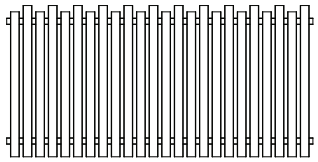
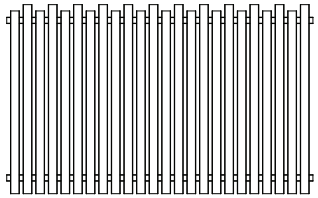
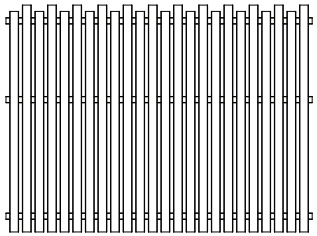
BOUNDARYLINE PICKETPANEL PRP1224-BK FENCE FOR F9 (POOL FENCE) APPLICATIONS



BOUNDARYLINE PICKETPANEL PRP1224-BK FENCE FOR F4 - (FALL RESTRAINT BARRIER) APPLICATIONS



*Refer to the table below for the maximum post centre for your application

Panel Type	Rondo Rakeable 950 High - PRP9524-BK			Rondo Rakeable 1200 High - PRP1224-BK			Rondo Rakeable 1500 High - PRP1524-BK			Rondo Rakeable 1800 High - PRP1824-BK		
												
Loadings	**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)**
Max Post Centres	N/A	2505mm	2080mm	2380mm	2380mm	2080mm	2000mm	2000mm	2000mm	N/A	1650mm	1650mm
In-Ground Post Options	N/A	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	N/A	65X65 STEEL POST	65X65 STEEL POST
Flanged Post Options	N/A	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	65X65 STEEL POST	N/A	65X65 STEEL POST	65X65 STEEL POST
Maximum Wind Loading	N/A	HIGH	HIGH	HIGH	HIGH	HIGH	MED	MED	MED	N/A	MED	MED
Applicable Fixing Details	N/A	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	PFD657501 PFD657502	N/A	PFD657501 PFD657502	PFD657501 PFD657502

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General Notes

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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 appropiate 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. 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

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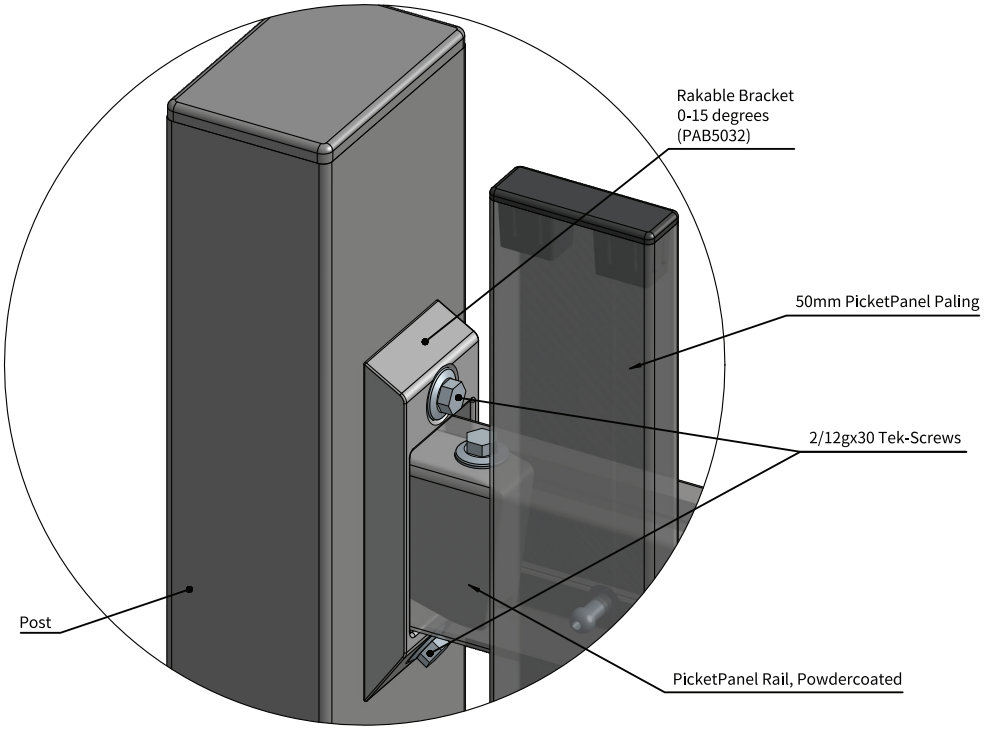
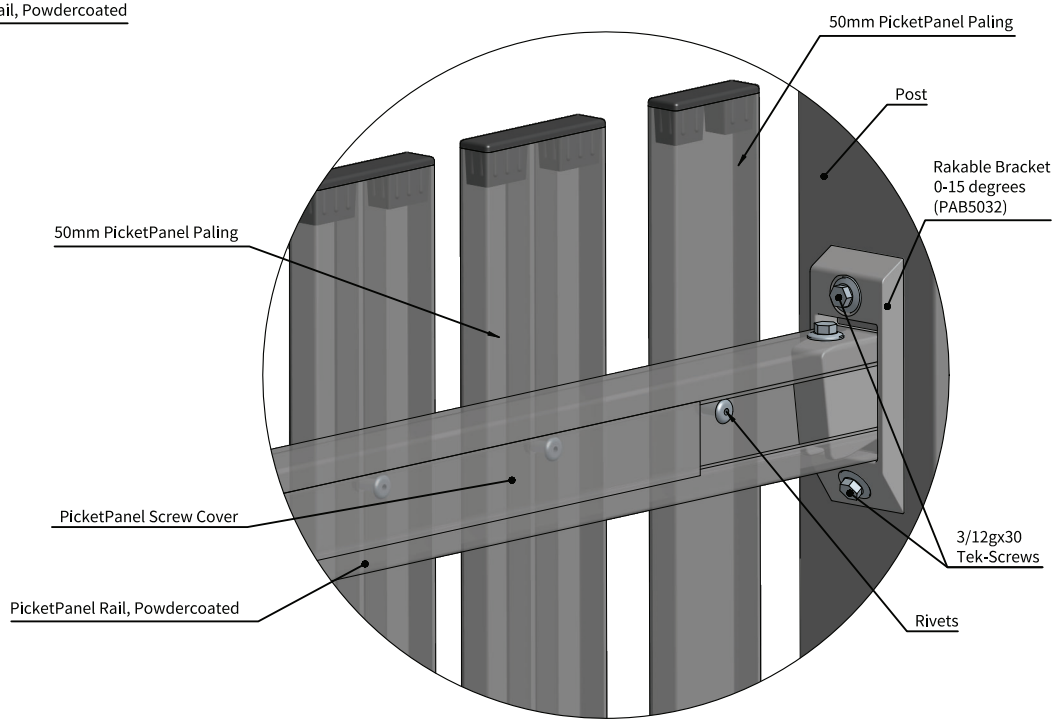
TITLE
BOUNDARYLINE PICKETPANEL RONDO

SCALE	SIZE	DRAWING NO
1:40	A4	PRP01

REV.	DATE ISSUED	SHEET
1.6	17/02/2025	8



Bracket Fixing Details
1:2



Picket - Rail Fixing Details
1:3

General Notes

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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.

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 appropiate 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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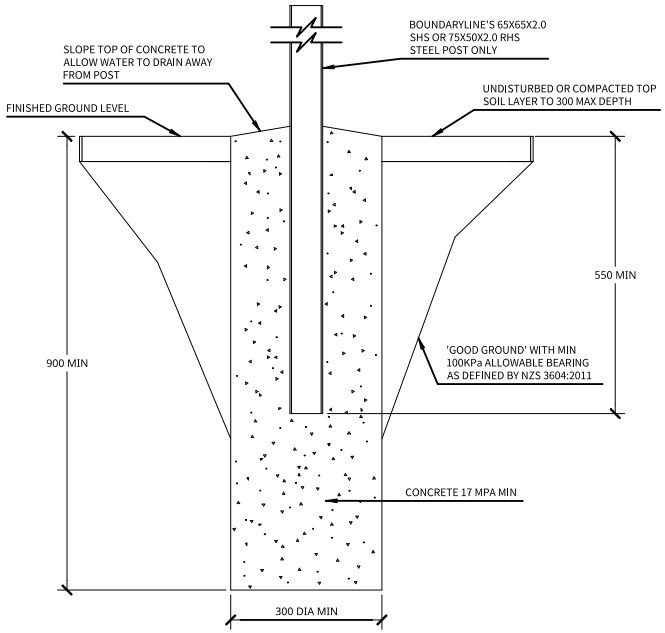
TITLE

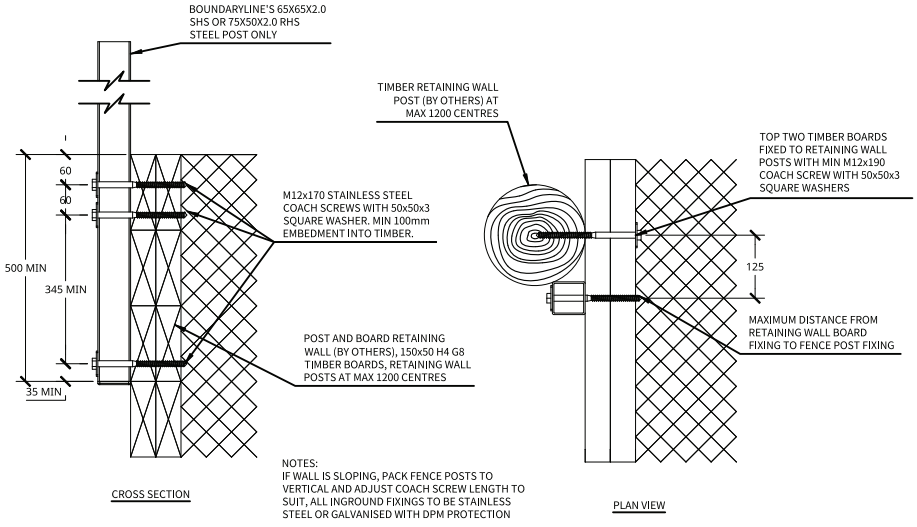
BOUNDARYLINE PICKETPANEL FIXING DETAILS

SCALE	SIZE	DRAWING NO
1:40	A4	

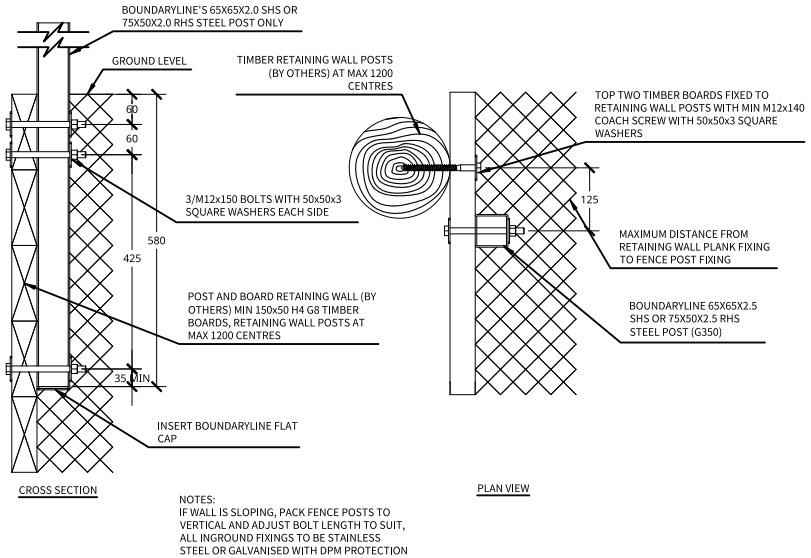
REV.	DATE ISSUED	SHEET
1.6	17/02/2025	9



DRAWING NO: ICA667524
APPLICATION: CONCRETE IN-GROUND
LOADING: F9, 0.35kN/m AND 0.75kN/m



DRAWING NO: SRB667524-B
APPLICATION: SIDE-FIX TO DOUBLE BOARD TIMBER RETAINING WALL
(POSTS ON OUTSIDE OF RETAINING WALL)
LOADING: F9, 0.35kN/m AND 0.75kN/m



DRAWING NO: SRA667524-A
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)
LOADING: F9, 0.35kN/m AND 0.75kN/m

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General Notes

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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 appropiate 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 Sturcture

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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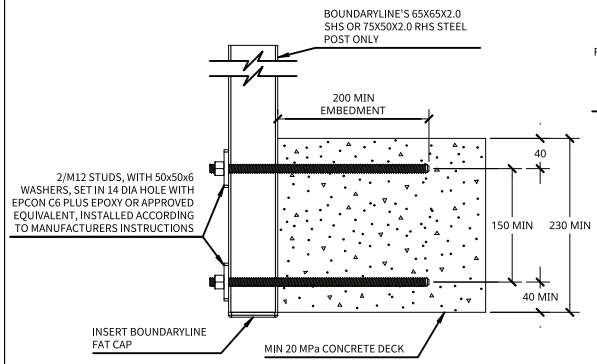
Website: www.boundaryline.co.nz

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

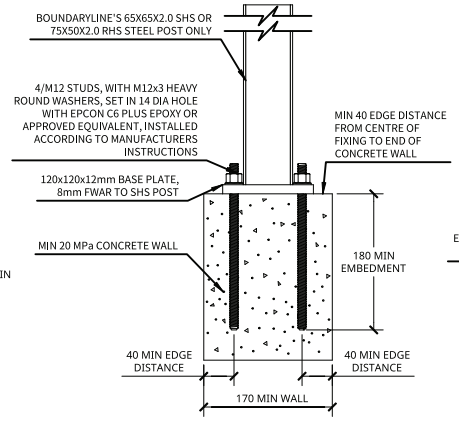
FOR 0.35 & 0.75kN/m HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:15	A4	PFD657501

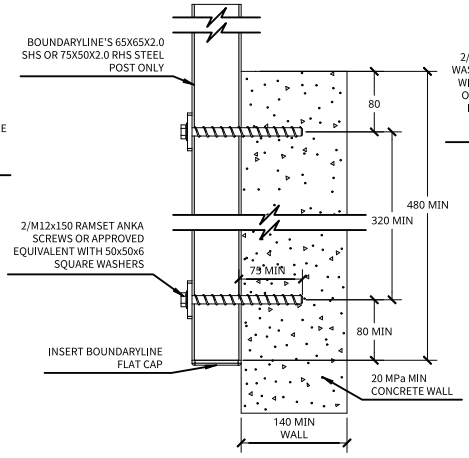
REV.	DATE ISSUED	SHEET
1.4	14/02/2025	10



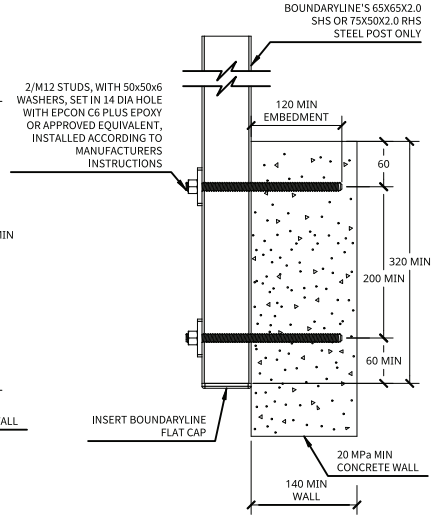
DRAWING NO: SDA667524-A
APPLICATION: SIDE-FIX TO CONCRETE DECK (230 min THICKNESS)
LOADING: F9, 0.35kN/m AND 0.75kN/m



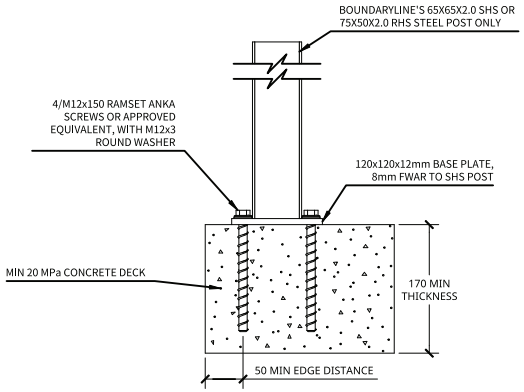
DRAWING NO: TWA667524-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: F9, 0.35kN/m AND 0.75kN/m



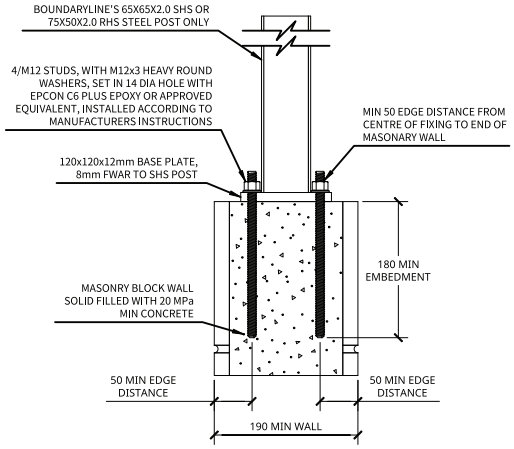
DRAWING NO: SWA667524-A
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: F9, 0.35kN/m AND 0.75kN/m



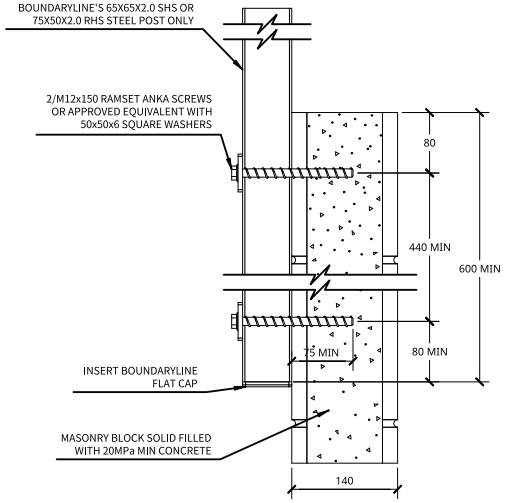
DRAWING NO: SWA667524-B
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: F9, 0.35kN/m AND 0.75kN/m



DRAWING NO: TDA667524-C
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: F9, 0.35kN/m AND 0.75kN/m



DRAWING NO: TMA667524
APPLICATION: TOP-FIX TO MASONARY WALL
LOADING: F9, 0.35kN/m AND 0.75kN/m



DRAWING NO: SMA667524
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: F9, 0.35kN/m AND 0.75kN/m

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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 appropiate 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 Sturcture

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

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Website: www.boundaryline.co.nz

TITLE:
BOUNDARYLINE PICKETPANEL 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	PFD657502

REV.	DATE ISSUED	SHEET
1.4	14/02/25	11

PRODUCER STATEMENT – PS1
DESIGN

BUILDING CODE CLAUSE(S): B1 F4 F9 **JOB NUMBER:** S89-0242
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 FENCING (PICKETPANEL)
(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 PICKETPANEL 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 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 the CM 2 level of **construction monitoring**.

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):

01/03/25 EXPIRES
ON BEHALF OF *(Engineering Design Firm)*: STUDIO89 GROUP PTY LTD Date: 28/02/26

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 01 MARCH 2025 TO 28 FEBRUARY 2026

P.1 - Cover Page
P.2 - Barrier specification selection guide
P.3 - Specification (Wind, Fixing Types)
P.4 to P.11 - Drawings and Details
P.12 to P.14 - PS1

Boundaryline

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