Boundaryline

PS1 DURAPANEL

Rev: 3.0

Issue Date: 11/12/2023



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.

How to use this document,

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.
- **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, note the maximum wind zone this can be installed in, 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

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
Table 1 - Barrier Loading Selection cont. on next page				



Occupancy type	Building code clause	Specific use	Horizontal design loading	Minimum overall barrier height
A - Domestic	F4	External balcony, decks, terraces, retaining walls & walkways in a multi-dwelling application, including open public spaces	0.75kN/m	1.0m single dwelling 1.1m multi dwelling
B & E - Offices & work areas including storage	F4	Access walkways, stairs & landings	0.35kN/m	1.1m
B & E - Offices & work areas including storage	F4	Areas including balconies, decks & terraces not susceptible to overcrowding	0.75kN/m	1.1m
C - Areas without obstacles for moving people & where people might congregate	F4	Areas including walkways, stairs & landings, balconeis, decks & terraces not susceptible to overcrowding, including parks and reserves	0.75kN/m	1.1m
Table 1 - Barrier Loading Selec	ction			

Barrier Panel Selection

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

Table 2 - Barrier Panel Selection

^{*}See Page 11 for typical pool fence installation and requirements

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 comply with a specified wind zone, you can find the maximum wind zone for each panel and install scenario on the Panel drawing pages (4 to 9) in this document. 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.

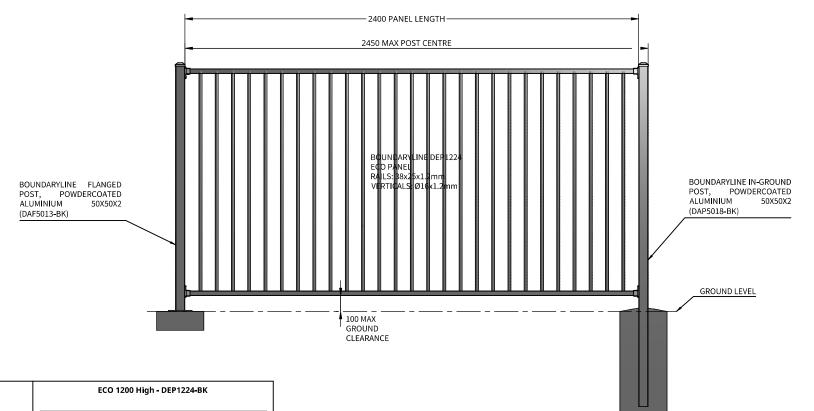
For properties that fall into a high or very high wind zone, but are in a built-up area, it may be beneficial to engage a Professional Engineer to calculate the specific wind zone for your site, as terrain and adjacent structures can impact the wind zone applicable to your particular site. A means of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

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 galvinised		
Zone C	Medium risk	Hot dip galvinised		
Zone D	High risk, all offshore locations within 500m of coastline, including harbours, locations within 100m of tidal estuaries & sheltered inlets	316 stainless steel		
Zone E	Very high risk, locations described in Zone D, beachfronts & seaside locations	316 stainless steel		
Table 3 - Fixing Types				

BOUNDARYLINE DURAPANEL ECO FENCE FOR F9 (POOL FENCE) APPLICATIONS



Panel Type F4 - 0.35kN/m F4 - 0.75kN/m Loadings F9 (Pool Fence) (Fall Restraint) (Fall Restraint) **Max Post Centres** 2450mm N/A N/A 50x50mm **In-Ground Post Options** N/A N/A DAP5018 50x50mm Flanged Post Options N/A N/A DAF5013 Medium Wind **Maximum Wind Loading** N/A N/A Loading - 37m/s DPA503301 Applicable Fixing DPA503302 N/A N/A DPA503303

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
High risk, all offshore islands, locations within 500m of coastline Induding 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

- 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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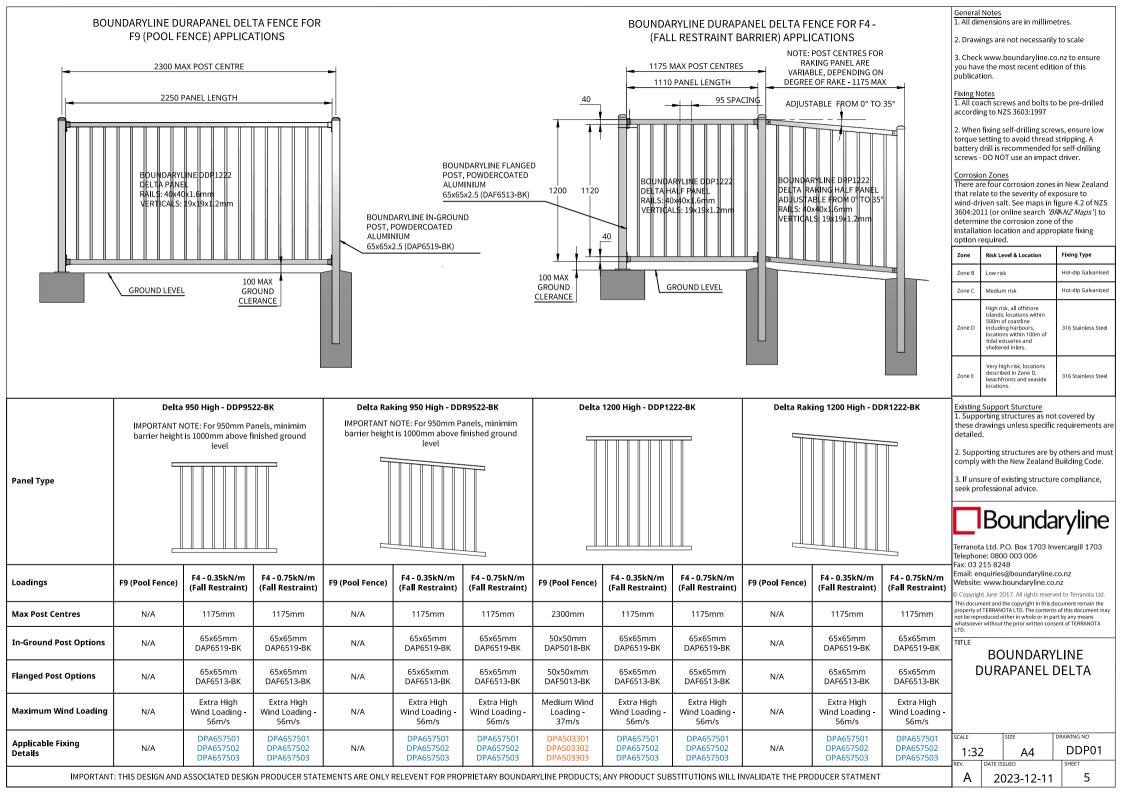
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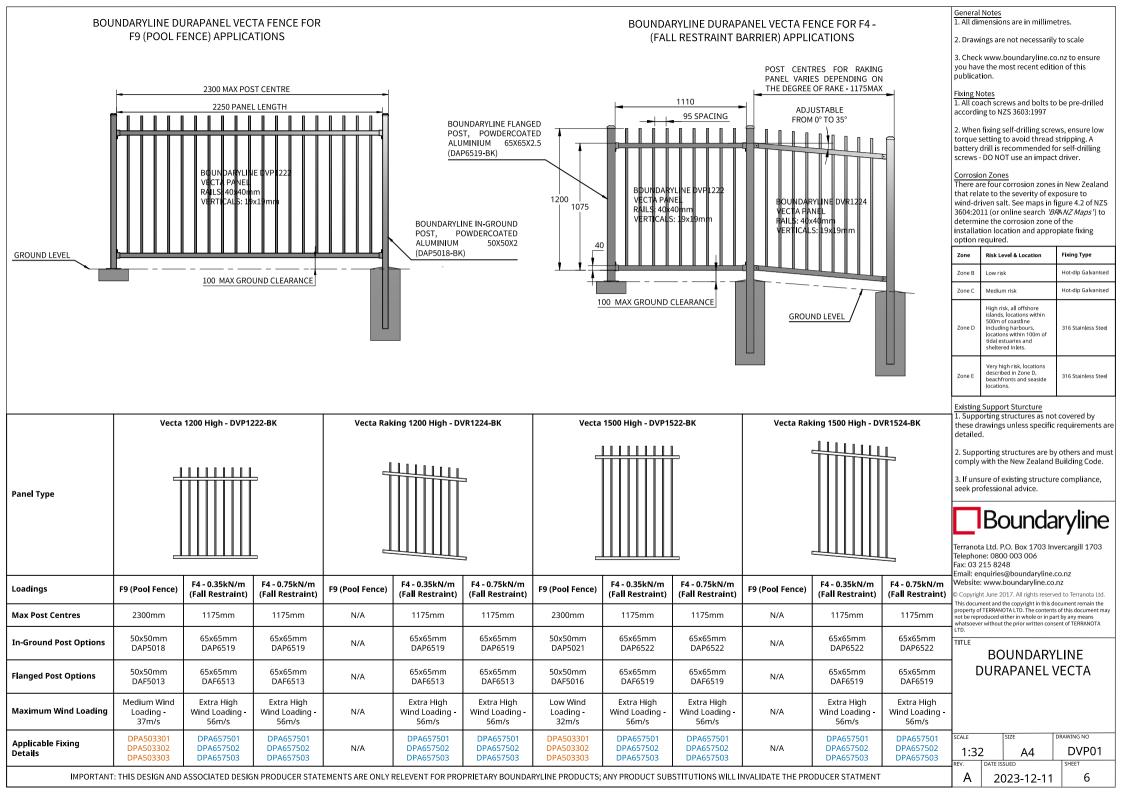
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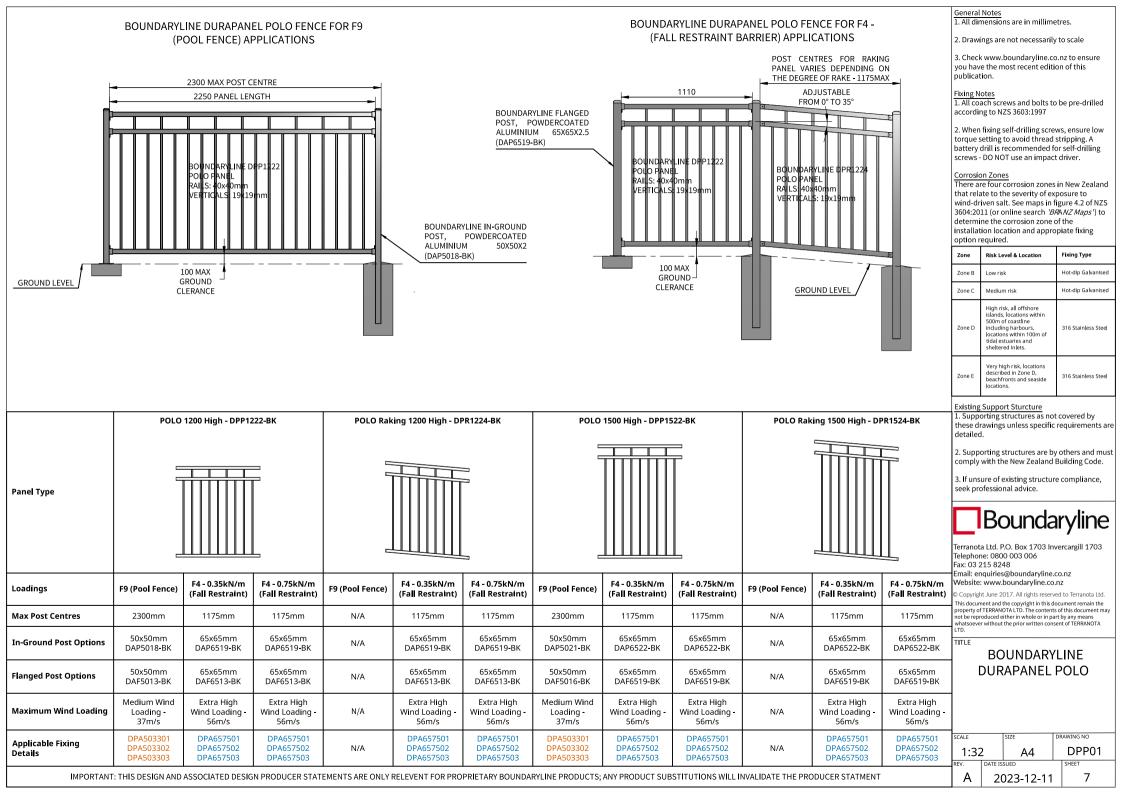
TITLE

BOUNDARYLINE DURAPANEL ECO

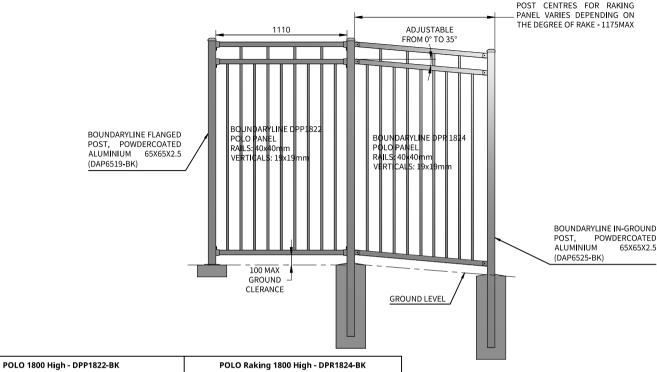
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1:20)	A4		DEP01
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Α	20	023-12-11		4







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



Panel Type	

Loadings

Options

Loading

Details

Max Post Centres

In-Ground Post

Maximum Wind

Applicable Fixing



General Notes

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- 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 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 Sturcture

- 1. Supporting structures as not covered by these drawings unless specific requirements are
- 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

BOUNDARYLINE DURAPANEL POLO

SCALE		SIZE	DF	RAWING NO
1:3	2	A4		DPP02
REV.	DATE IS	SUED		SHEET
A	20	023-12-11		8

General Notes 1. All dimensions are in millimetres. **BOUNDARYLINE DURAPANEL AXIS FENCE FOR F9** BOUNDARYLINE DURAPANEL AXIS FENCE FOR F4 -(POOL FENCE) APPLICATIONS (FALL RESTRAINT BARRIER) APPLICATIONS 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 2275 MAX POST CENTRE according to NZS 3603:1997 2250 PANEL LENGTH BRACKET FIXING DETAIL **BOUNDARYLINE STEEL** 2. When fixing self-drilling screws, ensure low POST, 50X25X2 torque setting to avoid thread stripping. A (DSF5213-BK) 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 1200 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. BOUNDARYLINE IN-GROUND STEEL POST, 50X25X2 Risk Level & Location Fixing Type Zone (DSP5218-BK) GROUND LEVEL Zone B Hot-dip Galvanised Zone C Medium risk Hot-dip Galvanised **GROUND LEVEL** 100 MAX GROUND CLEARANCE High risk, all offshore 100 MAX GROUND CLEARANCE 500m of coastline including harbours, locations within 100m of 316 Stainless Steel tidal estuaries and sheltered inlets. Very high risk, locations described in Zone D, beachfronts and seaside 316 Stainless Steel locations. **Existing Support Sturcture** AXIS 1200 High - DXP1222-BK 1. Supporting structures as not covered by BOUNDARYLINE (HEC5025-BK) these drawings unless specific requirements are 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. **Panel Type** BRACKET FIXED TO POST Boundaryline SELF-DRLLING SCREWS Terranota Ltd. P.O. Box 1703 Invercargill 1703 Telephone: 0800 003 006 PANEL RAIL POST Fax: 03 215 8248 Email: enquiries@boundaryline.co.nz Website: www.boundaryline.co.nz F4 - 0.35kN/m F4 - 0.75kN/m Loadings F9 (Pool Fence) Copyright June 2017. All rights reserved to Terranota Ltd. (Fall Restraint) (Fall Restraint) This document and the copyright in this document remain the property of TERRANOTA LTD. The contents of this document may not be reproduced either in whole or in part by any means Max Post Centres 2275mm 1075mm 1075mm

RAIL FIXED TO BRACKET WITH

2/10g x16mm SELF DRILLING SCREWS

BRACKET FIXING DETAIL

1:2

Α

1:32 **A4**

DXP01

9

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BOUNDARYLINE DURAPANEL AXIS

TITLE

SCALE

BOUNDARYLINE (DXB2525-BK) BRACKET. POWDERCOATED ALUMINUM

2023-12-11

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

50x25mm

DAP5218-BK

50x25mm

DAF5213-BK

Medium Wind

Loading -

37m/s

DPA527501

DAP527503

In-Ground Post Options

Flanged Post Options

Maximum Wind Loading

Applicable Fixing

Details

50x25mm

DSP5218-BK

50x25mm

DSF5213-BK

Very High Wind

Loading -

50m/s

DPA657501

DPA657503

50x25mm

DSP5218-BK

50x25mm

DSF5213-BK

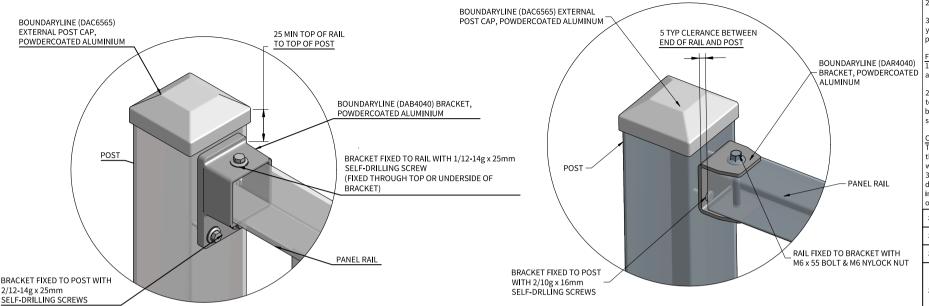
Very High Wind

Loading -

50m/s

DPA657501

DPA657503

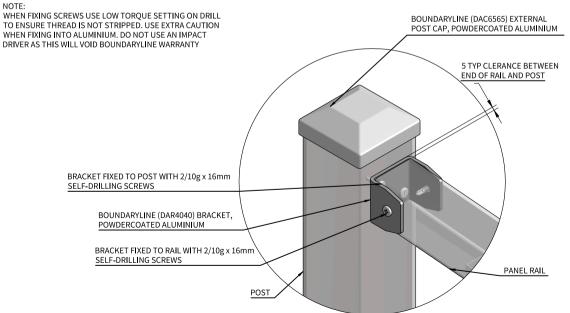


STANDARD PANEL BRACKET FIXING DETAIL

SCALE: 1:3.5

1:3

1:3



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

DIRECTIONAL PANEL BRACKET FIXING DETAIL SCALE: 1:3.5

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 appropriate fixing

option r	equirea.	
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

- Supporting structures as not covered by these drawings unless specific requirements are detailed.
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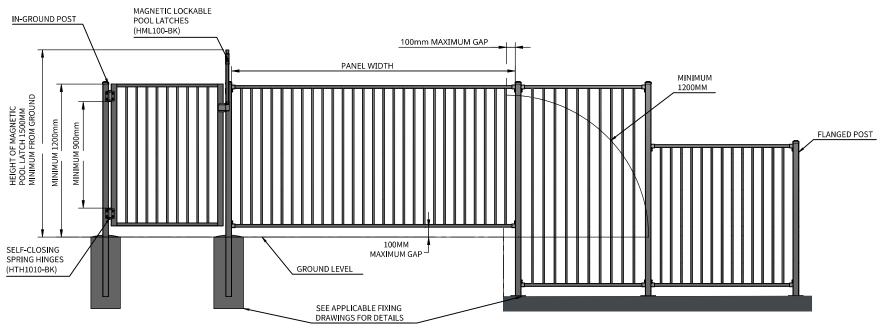
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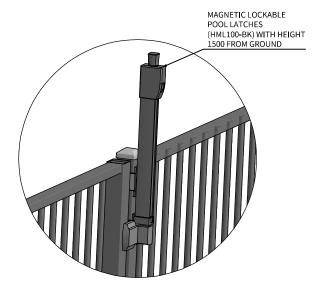
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BOUNDARYLINE DURAPANEL DELTA RAIL BRACKET DETAILS

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BOUNDARYLINE DURAPANEL FENCE FOR F9 (POOL FENCE) APPLICATIONS





MAGNETIC LOCKABLE LATCHES (HML100-BK) 1:10

General Notes

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- 2. Drawings are not necessarily to scale
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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.

Zone	Risk Level & Location	Fixing Type		
Zone B	Low rijsk	Hot-dip Galvanised		
Zone C	Medium risk	Hot-dip Galvanised		
Zone D	High risk, all offshore islands, locations within 500m of coastline induding 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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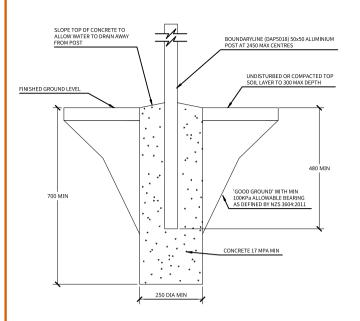
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TITLE

BOUNDARYLINE **DURAPANEL TYPICAL POOL FENCE INSTALL**

SCALE		SIZE	DF	RAWING NO
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DRAWING NO: ICA503324

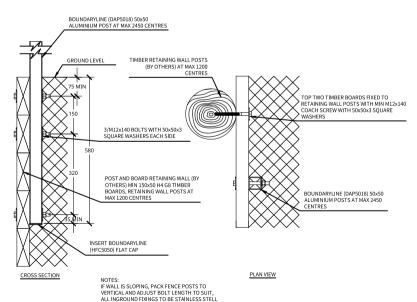
APPLICATION: CONCRETE IN-GROUND

LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES

MAX WINDZONE = MEDIUM 37m/s

LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

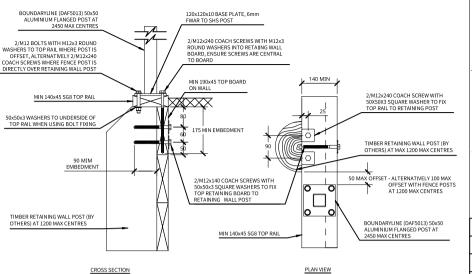
MAX WINDZONE = LOW 32m/s



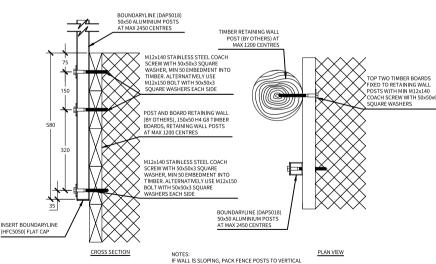
DRAWING NO: SRA503324-A

APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL) LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s

OR GAI VANISED WITH DPM PROTECTION



DRAWING NO: TRA503324 APPLICATION: TOP-FIX TO TIMBER RETAINING WALL LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s



DRAWING NO: SRA503324-B

APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL) LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s

AND ADJUST COACH SCREW LENGTH TO SUIT, ALL

INGROUND FIXINGS TO BE STAINLESS STELL

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 3603:1993

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.

Boundaryline

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TITLE BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

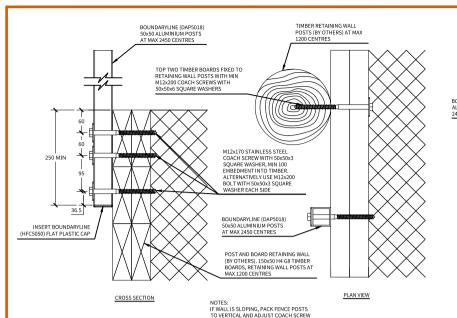
FOR 0.33kN POINT LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR

RELEVANT OCUPANCY TYPES) SCALE DPA503301

12

2023-12-11



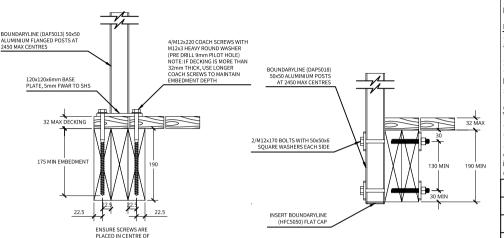
DRAWING NO: SRB503324-B APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL) LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

MAX WINDZONE = LOW 32m/s

LENGTH TO SUIT, ALL INGROUND FIXINGS

BOLINDARYLINE (DAES013) 50x50 ALUMINIUM FLANGED POST AT 2450 MAX CENTRES 4/M12x100 RAMSET ANKA SCREW OR APPROVED EQUIVALENT WITH M12v3 DOLIND WASHED 120x120x6mm BASE PLATE, 5mm FWAR TO SHS POST 120 MIN MIN 20 MPa CONCRETE DECK 40 MIN EDGE DISTANCE

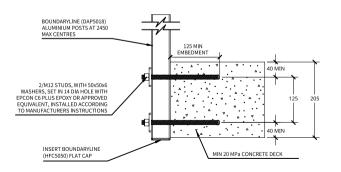
> DRAWING NO: TDA503324 APPLICATION: TOP-FIX TO CONCRETE DECK LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONF = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s



DRAWING NO: TTA503324 APPLICATION: TOP-FIX TO TIMBER DECK LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s

DRAWING NO: STA503324 APPLICATION: SIDE-FIX TO TIMBER DECK LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONE = MEDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES

MAX WINDZONF = LOW 32m/s



DRAWING NO: SDA503324-A APPLICATION: SIDE-FIX TO CONCRETE DECK (205mm THICKNESS) LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES MAX WINDZONF = MFDIUM 37m/s LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES MAX WINDZONE = LOW 32m/s

General Notes

1. All dimensions are in millimetres.

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- 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 3603:1993

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 Zone C Medium risk		Hot-dip Galvanised
			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.

Boundaryline

Terranota Ltd. P.O. Box 1703 Invercargill 1703 Telephone: 0800 003 006 Fax: 03 215 8248

Email: enquiries@boundaryline.co.nz Website: www.boundaryline.co.nz

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BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

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

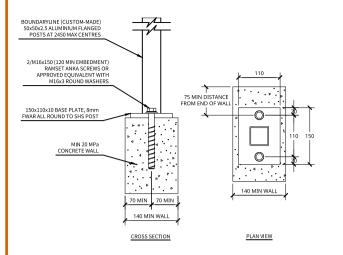
FOR 0.33kN POINT LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE DPA503302 1:10 Α4

2023-12-11

13



BOUNDARYLINE (CUSTOM MADE)

50x50x2.5 ALUMINIUM FLANGED

2/M12 STUDS WITH M12v3 HEAVY

WITH EPCON C6 PLUS EPOXY OR

INSTRUCTION

70 MIN EDGE

DISTANCE

ROUND WASHERS, SET IN 14 DIA HOLE

APPROVED EQUIVALENT, INSTALLED ACCORDING TO MANUFACTURERS

MASONRY BLOCK WALL SOLID FILLED

POSTS AT 2450 MAX CENTRES

DRAWING NO: TWA503324-A
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 1200H: 0.335M POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.335M POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s

20 110 150

DRAWING NO: TMA503324-A
APPLICATION: TOP-FIX TO MASONARY WALL (15 SERIES)
LOADING: 1200H: 0.334N POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.334N POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s

8mm FWAR TO SHS POST

120 MIM

EMBEDMENT

70 MIN EDGE

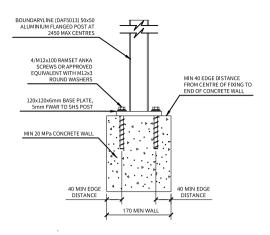
DISTANCE

140 MIN WALL

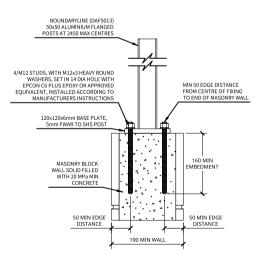
90 MIN DISTANCE

(

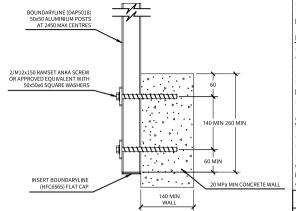
140 MIN WALL



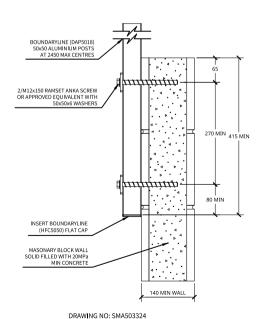
DRAWING NO: TWA503324-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 1200H: 0.33kH POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.33kH POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s



DRAWING NO: TMA503324-B
APPLICATION: TOP-FIX TO MASONARY WALL (20 SERIES)
LOADING: 12000H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s



DRAWING NO: SWAS03324
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s



DRAWING NOT: SMA903324
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: 1200H: 0.33kN POINT LOAD AT MAX 2450 POST CENTRES
MAX WINDZONE = MEDIUM 37m/s
LOADING: 1500H: 0.33kN POINT LOAD AT MAX 2300 POST CENTRES
MAX WINDZONE = LOW 32m/s

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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.

op com.	poorrogeneer		
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.

Boundaryline

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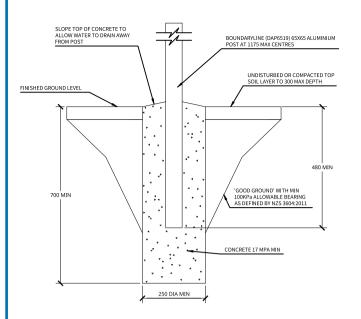
TITLE

BOUNDARYLINE DURAPANEL BARRIER
FIXING DESIGNS FOR:

- CONCRETE WALL
- MASONARY WALL

FOR 0.33kN POINT LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)



DRAWING NO: ICA657512

APPLICATION: CONCRETE IN-GROUND

LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s

LOADING: 0.75kN/m AT MAX 1175 POST CENTRES,

MAX WINDZONE = EXTRA HIGH 56m/s

HEIGHTS: 1200, 1500, 1800

DRAWING NO: SRA657512-A

HEIGHTS: 1200, 1500, 1800

BOUNDARYLINE (DAP6519) 65x65 ALUMINIUM POST AT MAX 1175 CENTRES TIMBER RETAINING WALL POSTS GROUND LEVEL (BY OTHERS) AT MAX 1200 TOP TWO TIMBER BOARDS FIXED TO RETAINING WALL POSTS WITH MIN M12x140 COACH SCREW WITH 50x50x3 SQUARE 3/M12x150 BOLTS WITH 50x50x3 SOLIARE WASHERS EACH SIDE POST AND BOARD RETAINING WALL (BY BOARDS, RETAINING WALL POSTS AT BOUNDARYLINE (DAP6519) 65x65 ALUMINIUM POSTS AT MAX 1175 CENTRES NSERT BOUNDARYLINE (HEC6565) FLAT CAP CROSS SECTION PLAN VIEW

IF WALL IS SLOPING, PACK FENCE POSTS TO

OR GAI VANISED WITH DPM PROTECTION

VERTICAL AND ADJUST BOLT LENGTH TO SUIT, ALL INGROUND FIXINGS TO BE STAINLESS STELL

APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)

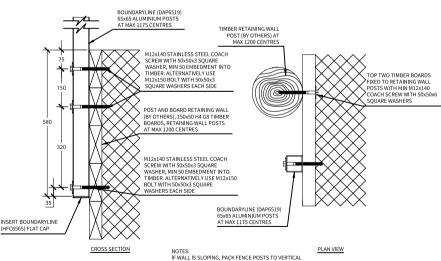
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s

LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s

BOUNDARYLINE (DAE6513) 65x65 120x120x10 BASE PLATE, 8mm FWAR TO SHS POST ALUMINIUM FLANGED POST AT 2/M12x240 COACH SCREWS WITH M12x3 2/M12 BOLTS WITH M12x3 ROUND WASHERS TO TOP RAIL WHERE POST IS ROLIND WASHERS INTO RETAIING WALL BOARD, ENSURE SCREWS ARE CENTRAL TO BOARD OFFSET, ALTERNATIVELY 2/M12x240 COACH SCREWS WHERE FENCE POST IS DIRECTLY OVER RETAINING WALL POST 140 MIN MIN 190x45 TOP BOARD 2/M12x240 COACH SCREW WITH MIN 140x45 SG8 TOP RAIL 50X50X3 SQUARE WASHER TO FIX TOP RAIL TO RETAINING POST 50x50x3 WASHERS TO UNDERSIDE OF TOP RAIL WHEN USING BOLT FIXING 190 MIN EMBEDMENT TIMBER RETAINING WALL POST (BY OTHERS) AT MAX 1200 MAX CENTRES EMBEDMENT 100 MAX OFFSET 2/M12x140 COACH SCREWS WITH 50x50x3 SQUARE WASHERS TO FIX TOP RETAINING BOARD TO RETAINING WALL POST TIMBER RETAINING WALL POST (BY BOUNDARYLINE (DAF6513) 65x65 ALUMINIUM FLANGED POST AT OTHERS) AT 1200 MAX CENTRES MIN 140x45 SG8 TOP RAIL 1175 MAX CENTRES

> DRAWING NO: TRA657512 APPLICATION: TOP-FIX TO TIMBER RETAINING WALL LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800

PLAN VIEW



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, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800

AND AD JUST COACH SCREW LENGTH TO SUIT ALL

CROSS SECTION

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 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 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.

Boundaryline

Terranota Ltd. P.O. Box 1703 Invercargill 1703 Telephone: 0800 003 006 Fax: 03 215 8248

Email: enquiries@boundaryline.co.nz Website: www.boundaryline.co.nz

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TITLE

BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

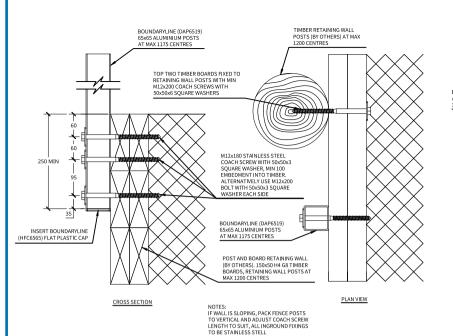
FOR 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR

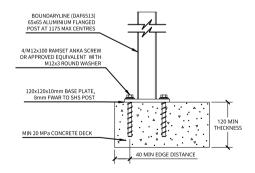
RELEVANT OCUPANCY TYPES) SCALE DPA657501 1:15

15

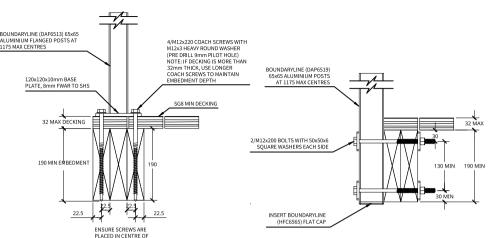
Α 2023-12-11



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, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800

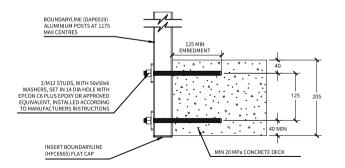


DRAWING NO: TDA657512 APPLICATION: TOP-FIX TO CONCRETE DECK LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800



DRAWING NO: TTA657512 APPLICATION: TOP-FIX TO TIMBER DECK LOADING: 0.35kN/m AT MAX 1175 POST CENTRES. MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES. MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800

DRAWING NO: STA657512 APPLICATION: SIDE-FIX TO TIMBER DECK LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s 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, MAX WINDZONE = EXTRA HIGH 56m/s LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX WINDZONE = EXTRA HIGH 56m/s HEIGHTS: 1200, 1500, 1800

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 appropriate fixing ontion required

	option	equireu.		
	Zone	Risk Level & Location	Fixing Type	
1	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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TITLE:

BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

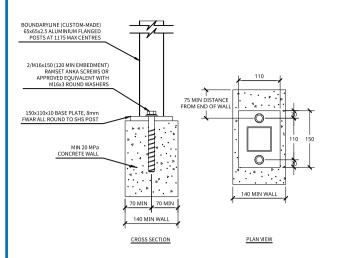
- TIMBER RETAINING WALL (DOUBLE BOARD)
- TIMBER DECK

CONCRETE DECK

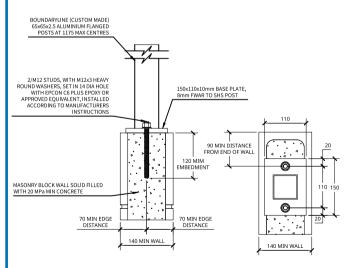
FOR 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT

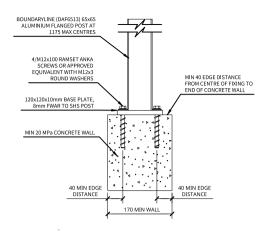
OCCUPANCY TYPES) DRAWING NO SCALE DPA657502 1:10 A4 Α 2023-12-11 16



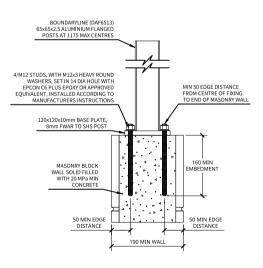
DRAWING NO: TWA657512-A
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200, 1500, 1800



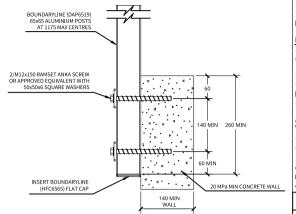
DRAWING NO: TMA657512-A
APPLICATION: TOP-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200. 1500, 1800



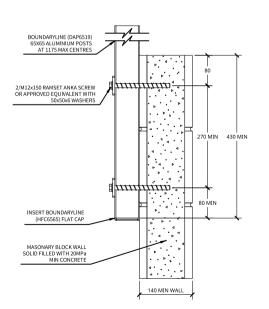
DRAWING NO: TWA657512-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200, 1500, 1800



DRAWING NO: TMA657512-B
APPLICATION: TOP-FIX TO MASONARY WALL (20 SERIES)
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200. 1500. 1800



DRAWING NO: SWA657512
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT WAX 1175 POST CENTRES,
MAX WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200, 1500, 1800



DRAWING NO: SMA657512
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.35kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
LOADING: 0.75kN/m AT MAX 1175 POST CENTRES, MAX
WINDZONE = EXTRA HIGH 56m/s
HEIGHTS: 1200, 1500, 1800

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option required.			
	Zone	Risk Level & Location	Fixing Type
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TITLE

BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

- CONCRETE WALL
- MASONARY WALL

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

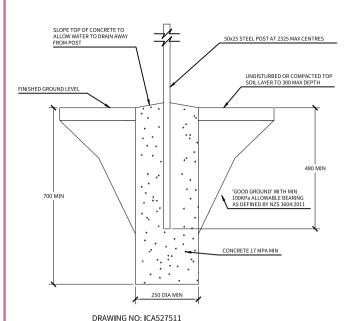
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE SIZE DRAWING NO

1:10 A4 DPA657503

REV. DATE ISSUED SHEET

A 2023-12-11 17



APPLICATION: CONCRETE IN-GROUND LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY

LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY

TOP TWO TIMBER BOARDS FIXED TO

HIGH 50m/s HEIGHT: 1200 ONLY

INSERT BOUNDARYLINE

BOUNDARYLINE (CUSTOM-MADE) 50x25 RETAINING WALL POSTS WITH MIN M12×140 STEEL POST AT MAX 2325 CENTRES COACH SCREW WITH 50x50x3 SQUARE WASHERS GROUND LEVEL TIMBER RETAINING WALL POSTS
(BY OTHERS) AT MAX 1200 150x70x5mm FLANGE PLATE 8mm FWES TO RHS POST 3/M12x100 BOLTS WITH 50x50x3 SQUARE WASHERS EACH SIDE POST AND BOARD RETAINING WALL (BY OTHERS) MIN 150x50 H4 G8 TIMBER OARDS, RETAINING WALL POSTS AT BOUNDARYLINE (CUSTOM-MADE) 50x25 STEEL POSTS AT MAX 2325 CENTRES

DRAWING NO: SRA527511-A

CROSS SECTION

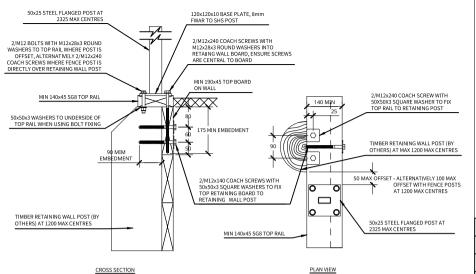
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY

IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST BOLT LENGTH TO SUIT

OR GALVANISED WITH DPM PROTECTION

ALL INGROUND FIXINGS TO BE STAINLESS STELL

PLAN VIEW



DRAWING NO: TRA527511

APPLICATION: TOP-FIX TO TIMBER RETAINING WALL

LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX

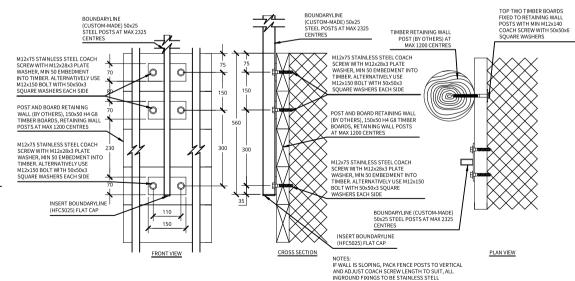
WINDZONE = MEDUM 37m/s

LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY

HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY

HIGH 50m/s

HEIGHT: 1200 ONLY



DRAWING NO: SRA527511-B

APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY

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 3603:1993

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.

Boundaryline

Terranota Ltd. P.O. Box 1703 Invercargill 1703 Telephone: 0800 003 006 Fax: 03 215 8248

Email: enquiries@boundaryline.co.nz Website: www.boundaryline.co.nz

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TITLE BOUNDARYLINE DURAPANEL AXIS BARRIER FIXING DESIGNS FOR:

- CONCRETE IN-GROUND

TIMBER RETAINING WALL

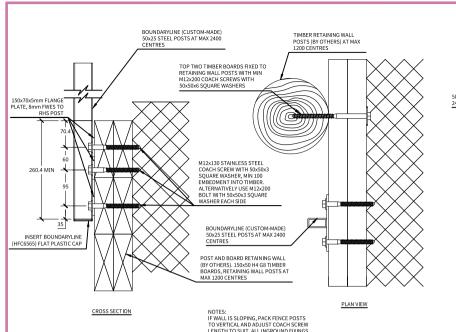
FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING (REFER TO BARRIER SPECIFICATION GUIDE FOR

RELEVANT OCUPANCY TYPES) SCALE DPA527501

1:15 18

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2023-12-11



DRAWING NO: SRB527511-B

APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL)

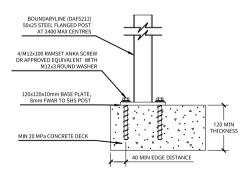
TO BE STAINLESS STELL

LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s

LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH

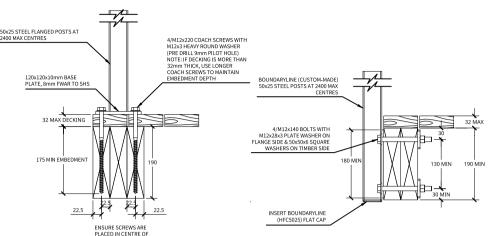
LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH

HEIGHT: 1200 ONLY



DRAWING NO: TDA527511 APPLICATION: TOP-FIX TO CONCRETE DECK LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

HEIGHT: 1200 ONLY



DRAWING NO: TTA527511 APPLICATION: TOP-FIX TO TIMBER DECK

LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s

LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

HEIGHT: 1200 ONLY

DRAWING NO: STA527511

APPLICATION: SIDE-FIX TO TIMBER DECK

LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s

LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

HEIGHT: 1200 ONLY

General Notes

publication.

Fixing Notes

Corrosion Zones

1. All dimensions are in millimetres.

according to NZS 3603:1993

2. Drawings are not necessarily to scale

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

1. All coach screws and bolts to be pre-drilled

2. When fixing self-drilling screws, ensure low

torque setting to avoid thread stripping. A

screws - DO NOT use an impact driver.

battery drill is recommended for self-drilling

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.

There are four corrosion zones in New Zealand

	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

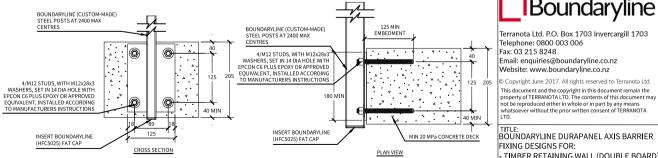
Existing Support Sturcture

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

Boundaryline

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



DRAWING NO: SDA527511-A APPLICATION: SIDE-FIX TO CONCRETE DECK (180 min THICKNESS) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY

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

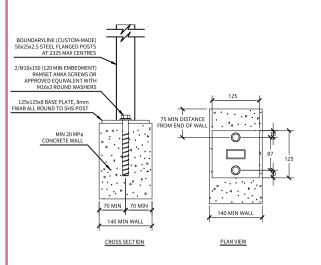
FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING (REFER TO BARRIER SPECIFICATION GUIDE FOR

RELEVANT OCCUPANCY TYPES) SCALE

> DPA527502 1:10 Α4

> > 19

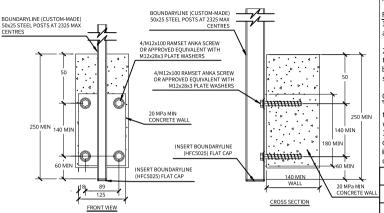
Α 2023-12-11



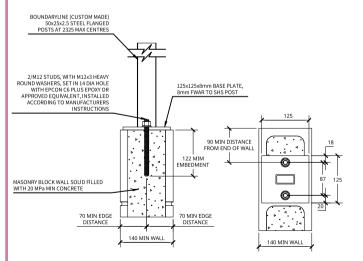
DRAWING NO: TWA527511-A APPLICATION: TOP-FIX TO CONCRETE WALL LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES. MAX WINDZONE = MEDIIM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY

50x25 STEEL FLANGED POST AT 2325 MAX CENTRES 4/M12x100 RAMSET ANKA EOUIVALENT WITH M12x3 ROUND WASHERS MIN 40 EDGE DISTANCE FROM CENTRE OF FIXING TO 125x125x8mm BASE PLATE, 8mm FWAR TO RHS POST END OF CONCRETE WALL MIN 20 MPa CONCRETE WALL 41 MIN EDGE 41 MIN EDGE DISTANCE DISTANCE 170 MIN WALI

> DRAWING NO: TWA527511-B APPLICATION: TOP-FIX TO CONCRETE WALL LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES. MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY



DRAWING NO: SWA527511 APPLICATION: SIDE-FIX TO CONCRETE WALL LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES. MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s HEIGHT: 1200 ONLY



DRAWING NO: TMA527511-A APPLICATION: TOP-FIX TO MASONARY WALL (15 SERIES) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

HEIGHT: 1200 ONLY

50x25x2.5 STEEL FLANGED POSTS AT 2325 MAX CENTRES 4/M12 STUDS WITH M12x3 HEAVY ROUND WASHERS, SET IN 14 DIA HOLE WITH MIN 50 EDGE DISTANCE EPCON C6 PLUS EPOXY OR APPROVED EQUIVALENT, INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS FROM CENTRE OF FIXING TO END OF MASONRY WALL 125v125v8mm BASE PLATE 8mm FWAR TO SHS POST 157 MIN MASONRY BLOCK WALL SOLID FILLED WITH 20 MPa MIN CONCRETE 48 MIN FDGE 53 MIN EDGE DISTANCE 190 MIN WALL

> DRAWING NO: TMA527511-B APPLICATION: TOP-FIX TO MASONARY WALL (20 SERIES) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

BOLINDARYLINE (CLISTOM-MADE) 50x25 STEEL POSTS AT 2325 MAX CENTRES uliuuu 4/M12x100 RAMSET ANKA SCREW OR APPROVED EQUIVALENT WITH M12x28x3 WASHERS 150x70x5mm FLANGE PLATE 415 MIN 8mm FWES TO RHS POS ainma INSERT BOUNDARYLINE (HFC5025) FLAT CAP MASONARY BLOCK WALL SOLID FILLED WITH 20MPa 140 MIN WALI

> DRAWING NO: SMA527511 APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES) LOADING: 0.33kN POINT LOAD AT MAX 2325 POST CENTRES, MAX WINDZONE = MEDUM 37m/s

LOADING: 0.35kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

LOADING: 0.75kN/m AT MAX 1075 POST CENTRES, MAX WINDZONE = VERY HIGH 50m/s

HEIGHT: 1200 ONLY

General Notes

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- 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 3603:1993

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
L	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.

Boundaryline

Terranota Ltd. P.O. Box 1703 Invercargill 1703 Telephone: 0800 003 006 Fax: 03 215 8248

Email: enquiries@boundaryline.co.nz Website: www.boundaryline.co.nz

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TITLE

BOUNDARYLINE DURAPANEL AXIS BARRIER FIXING DESIGNS FOR:

- CONCRETE WALL - MASONARY WALL

FOR 0.33kN POINT LOAD, 0.35kN/m & 0.75kN/m HORIZONTAL LOADING

(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

DRAWING NO SCALE DPA527503 1:10 A4

20

Α 2023-12-11

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

HEIGHT: 1200 ONLY





PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S):	JOB NUMBER:	
ISSUED BY:		
(Engineering Design Firm)		,
TO:		
(Owner/Developer)		1
TO BE SUPPLIED TO:		
(Building Consent Authority)		1
IN RESPECT OF:		
(Description of Building Work)		1
AT:		
(Address, Town/City) LEGAL DESCRIPTION:]	N/A □
LEGAL DESCRIPTION.		N/A 🗆
We have been engaged by the owner/developer referred to above	e to provide (Extent of Engagemen	nt):
in respect of the requirements of the Clause(s) of the Building Cod	e specified above for Choose an	item., as specified in the
Schedule, of the proposed building work.	·	, ,
The design carried out by us has been prepared in accordance with	ո։	
 Compliance documents issued by the Ministry of Busin 	ess, Innovation & Employment (V	erification method/acceptable
solution)		and/or;
 Alternative solution as per the attached Schedule. 		
The proposed building work covered by this producer statement is	.	fied in the Schedule, together
with the specification, and other documents set out in the Schedu	le.	
On habit of the Forting with Basin Since and subject to		
On behalf of the Engineering Design Firm, and subject to:		1
Site verification of the following design assumptions: All proprietory products magazing their performance specification.	ification requirements.	j.
All proprietary products meeting their performance speci-	incation requirements;	
I believe on reasonable grounds that:		
the building, if constructed in accordance with the drawing.	ngs, specifications, and other doc	uments provided or listed in the
Schedule, will comply with the relevant provisions of the		
 the persons who have undertaken the design have the ne 		
I recommend the Choose one level of construction monitoring .		
I, (Name of Engineering Design Professional)		, am:
□ CPEng number		
and hold the following qualifications		
The Engineering Design Firm holds a current policy of Professiona	I Indemnity Insurance no less that	n \$200.000
The Engineering Design Firm Choose one a member of ACE New Ze	•	
SIGNED BY (Name of Engineering Design Professional):		
(Signature below):		
ON BEHALF OF (Engineering Design Firm):		Date:
Note: This statement has been prepared solely for the Building Consent Authority liability in relation to this statement accrues to the Engineering Design Firm only. A		

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

relation to this building work, whether in tort or otherwise, is limited to the sum of \$200,000.

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

SCHEDULE to PS1

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

Job Number PRODUCER STATEMENT PS1

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 2011²

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 engineers³). 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:

- Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- ² NZIA Standard Conditions of Contract SCC 2011
- 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 www.engineeringnz.org



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