Boundaryline

PRODUCER **STATEMENT - PS1**

Issue Date: 21/06/2022

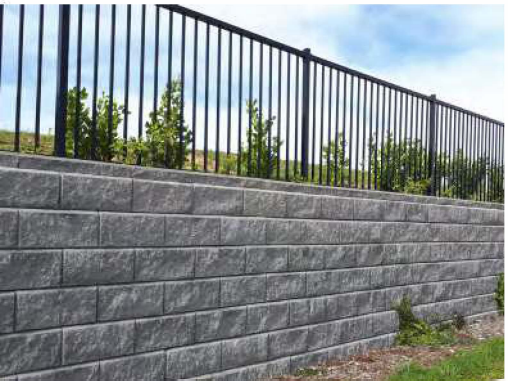
Revision No. 1.06

DURA**PANEL**™ **TITAN**

PS1

FOR: **POOL FENCING & FALL RESTRAINT BARRIERS**

Engineering Specifications and 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.

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	Specific use	Horizontal Design Loading	Minimum Overall Barrier Height	Installation Details (Drawing Number)
A - Domestic	Pool fence only.	0.33kN/m	1.2m	All fixing details are applicable.
A - Domestic	All areas serving one dwelling but excluding balconies, decks, and terraces. For example; walkways, stairs & landings and retaining walls, not adjacent to a deck or terrace.	0.35kN/m	1.0m 0.9m for stairs only	DPA653501 DPA653502 DPA653503
A - Domestic	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	DPA667501 DPA667502 DPA667503
B & E - Offices & work areas including storage	Access walkways, stairs and landings.	0.35kN/m	1.1m	DPA653501 DPA653502 DPA653503
B & E - Offices & work areas including storage	Areas including balconies, decks and terraces not susceptible to overcrowding	0.75kN/m	1.1m	DPA667501 DPA667502 DPA667503
C - Areas without obstacles for moving people and where people may congregate	Areas including walkways, stairs and landings, balconies, decks and terraces not susceptible to overcrowding, including parks and reserves.	0.75kN/m	1.1m	DPA667501 DPA667502 DPA667503

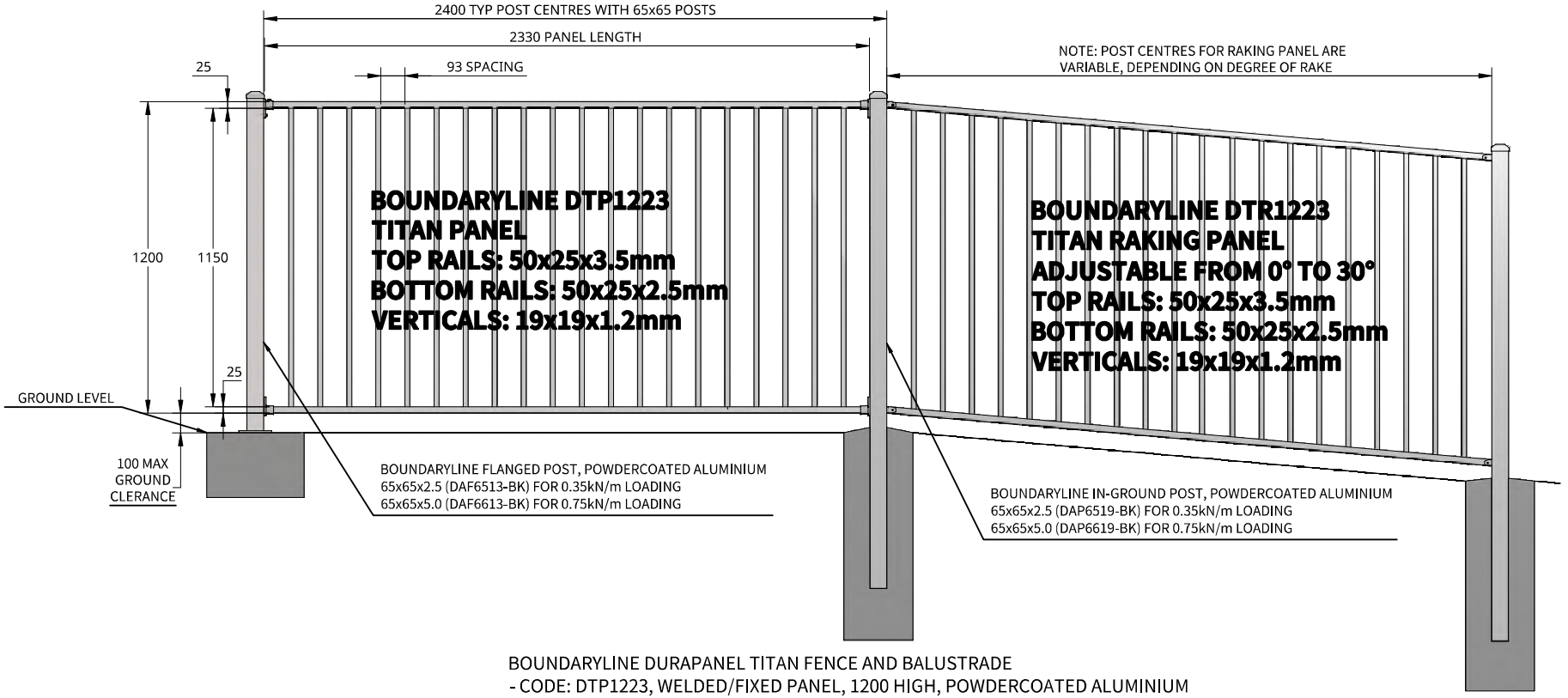
POST FIXING DETAILS

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

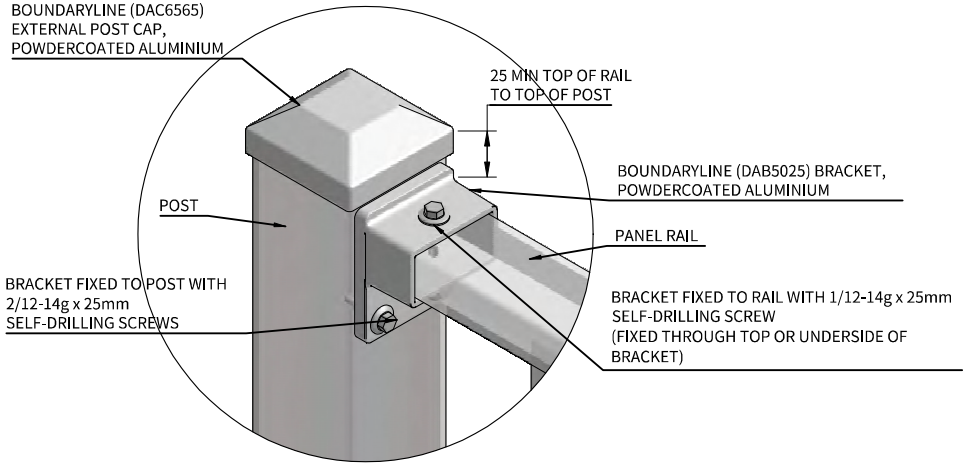
FIXING TYPES

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.

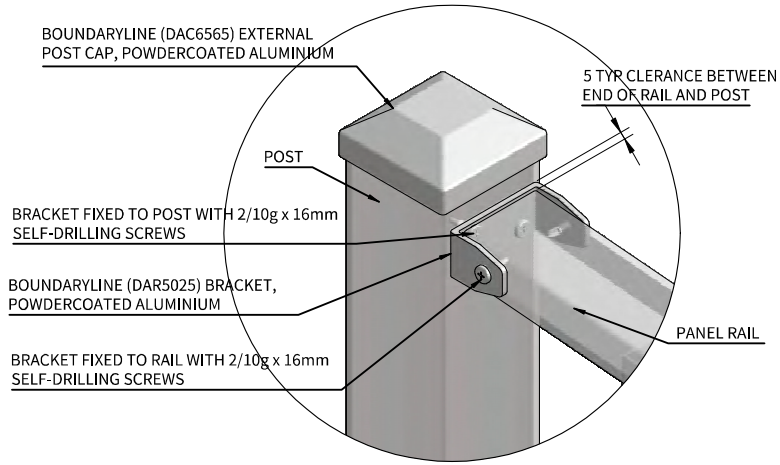
Zone	Risk Level & Location	Fixing Type
Zone **B**	Low risk	Hot-dip Galvanised
Zone **C**	Medium risk	Hot-dip Galvanised
Zone **D**	High risk, all offshore islands, locations within 500m of coastline including harbours, locations within 100m of tidal estuaries and sheltered inlets.	316 Stainless Steel
Zone **E**	Very high risk, locations described in Zone D, beachfronts and seaside locations.	316 Stainless Steel



BOUNDARYLINE DURAPANEL TITAN FENCE AND BALUSTRADE
- CODE: DTP1223, WELDED/FIXED PANEL, 1200 HIGH, POWDERCOATED ALUMINIUM
- CODE: DTR1223, ADJUSTABLE/RAKING PANEL, 1200 HIGH, POWDERCOATED ALUMINIUM



STANDARD PANEL BRACKET FIXING DETAIL
SCALE: 1:3.5



ADJUSTABLE PANEL BRACKET FIXING DETAIL
SCALE: 1:3.5

General Notes
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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.

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

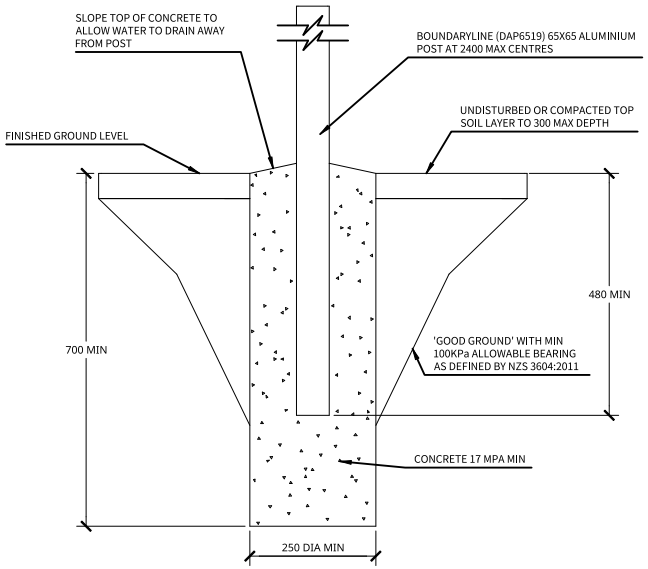
2. If unsure of existing structure compliance, seek professional advice.

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

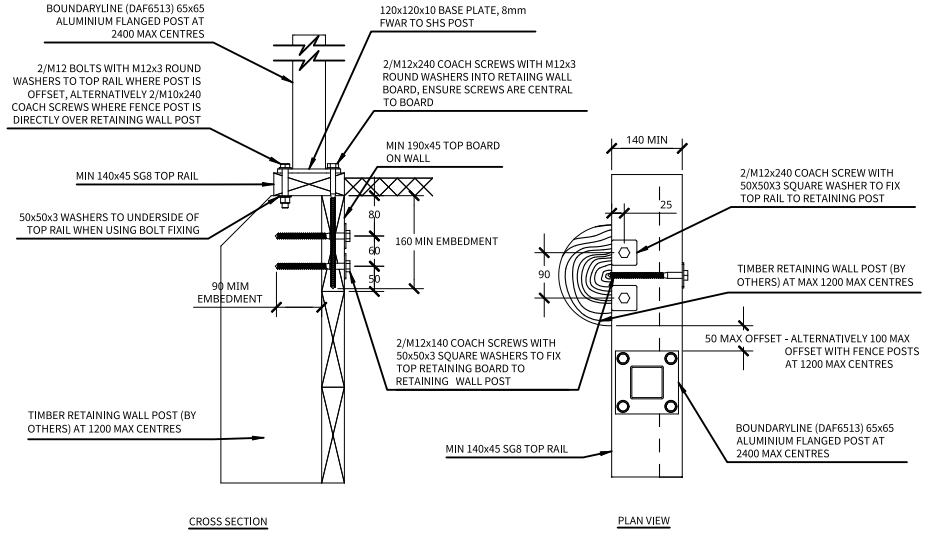
TITLE
BOUNDARYLINE DURAPANEL TITAN CODE: DTP1223 AND DTR1223 1200 HIGH

SCALE	SIZE	DRAWING NO
1:25	A4	DTP1223

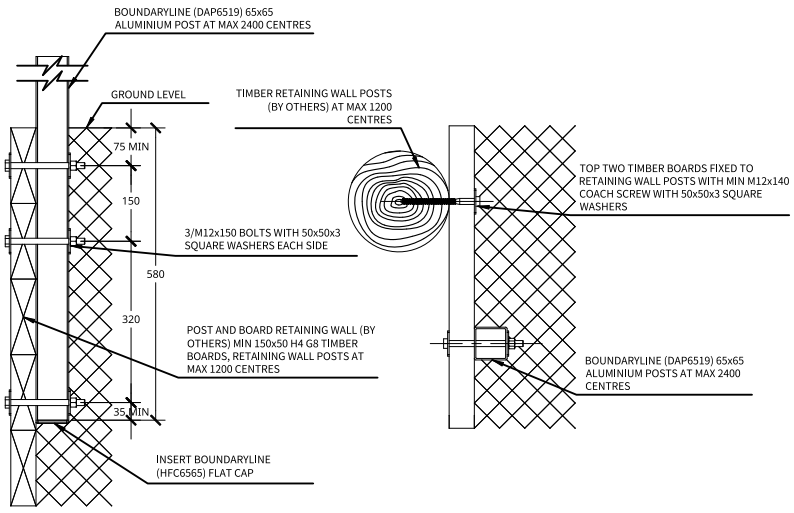
REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1



DRAWING NO: ICA653524
APPLICATION: CONCRETE IN-GROUND
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES

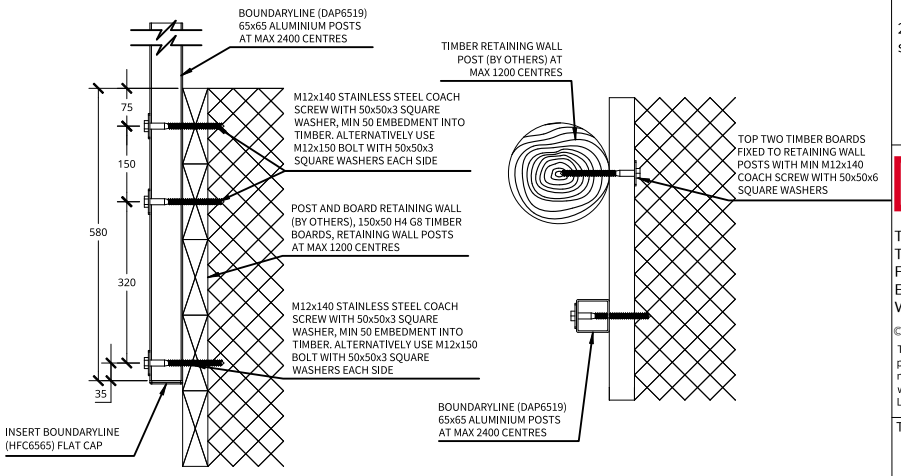


DRAWING NO: TRA653524
APPLICATION: TOP-FIX TO TIMBER RETAINING WALL
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



NOTES:
IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST BOLT LENGTH TO SUIT, ALL INGROUND FIXINGS TO BE STAINLESS STELL OR GALVANISED WITH DPM PROTECTION

DRAWING NO: SRA653524-A
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



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

DRAWING NO: SRA653524-B
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES

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

General Notes

1. All dimensions are in millimetres.

2. Drawings are not necessarily to scale

3. Check www.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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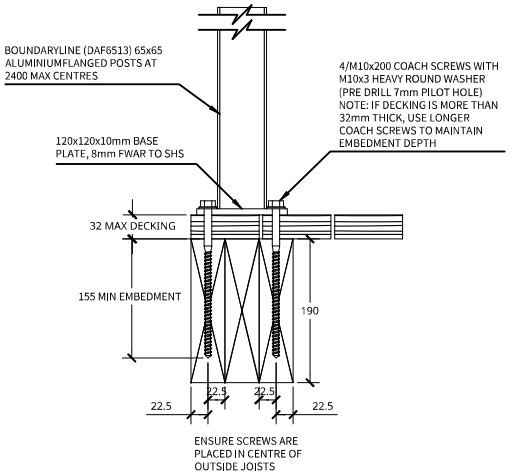
Website: www.boundaryline.co.nz

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

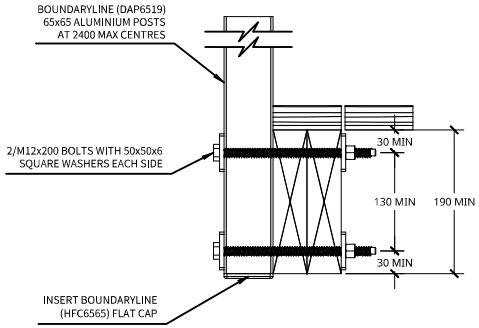
FOR 0.35kN/m HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:15	A4	DPA653501

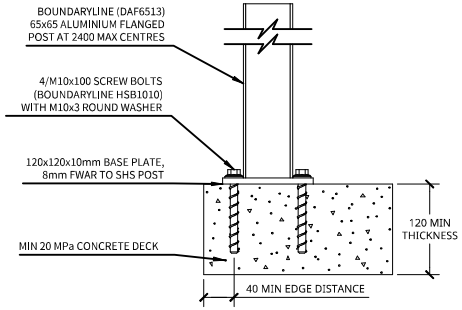
REV.	DATE ISSUED	SHEET
A	08-08-2022	1 of 1



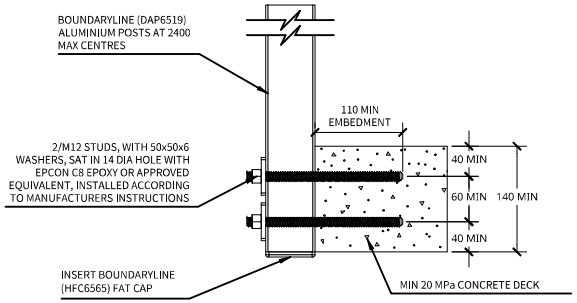
DRAWING NO: TTA653524
APPLICATION: TOP-FIX TO TIMBER DECK
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



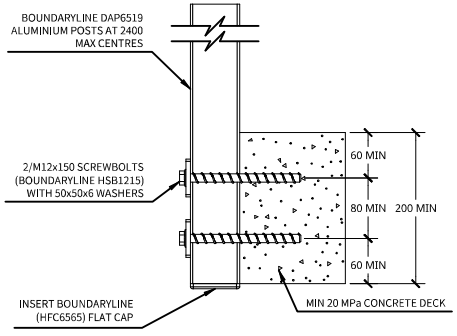
DRAWING NO: STA653524
APPLICATION: SIDE-FIX TO TIMBER DECK
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



DRAWING NO: TDA653524
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



DRAWING NO: SDA653524-A
APPLICATION: SIDE-FIX TO CONCRETE DECK (140 min THICKNESS)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES



DRAWING NO: SDA653524-B
APPLICATION: SIDE-FIX TO CONCRETE DECK (200 min THICKNESS)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRES

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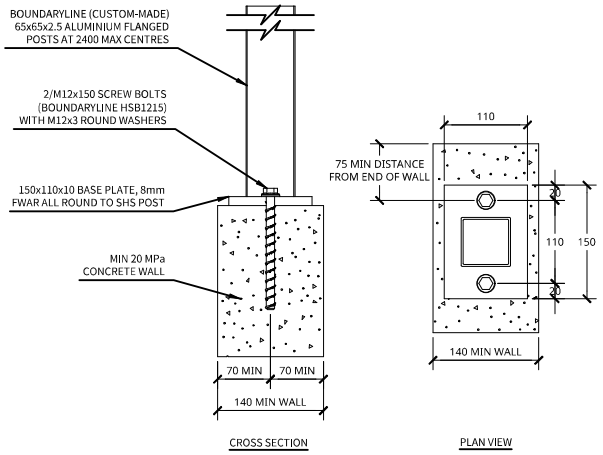
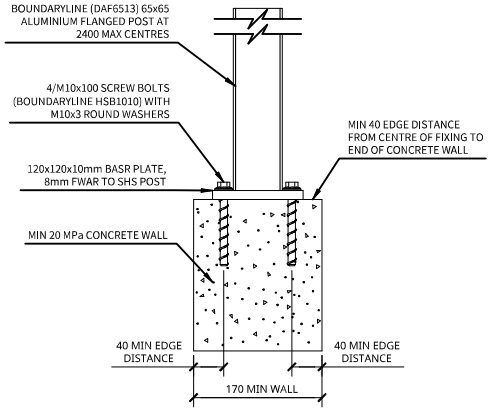
TITLE:
BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:
- TIMBER DECK
- CONCRETE DECK
FOR 0.35kN/m HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	DPA653502

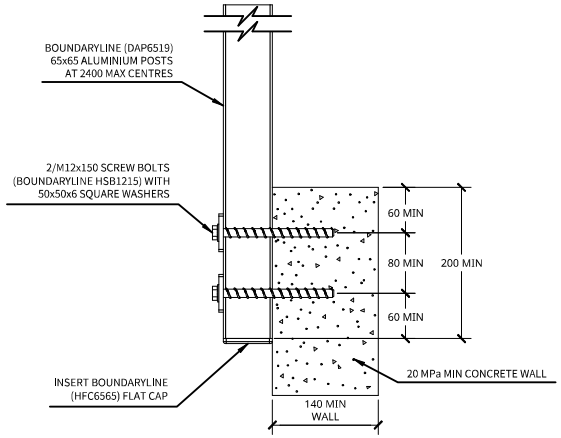
REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1



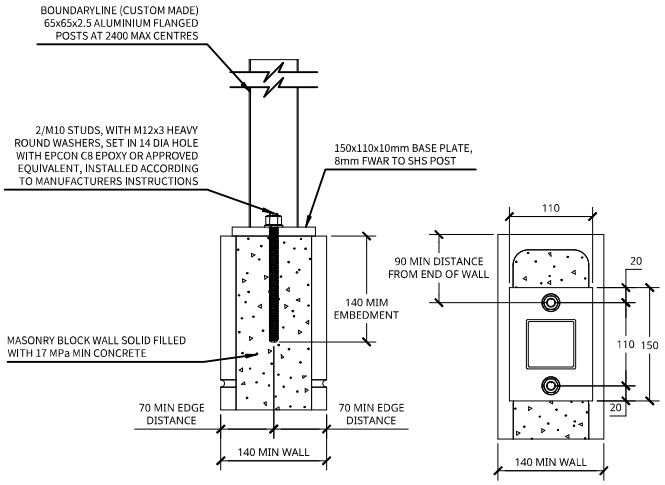
DRAWING NO: TWA653524-A
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE



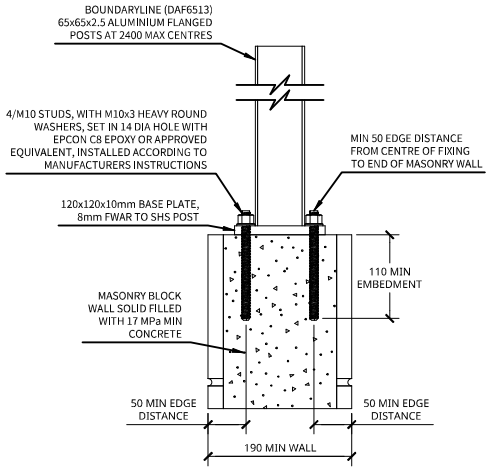
DRAWING NO: TWA653524-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE



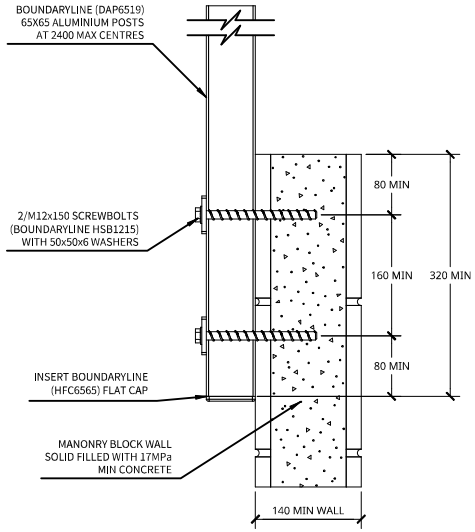
DRAWING NO: SWA653524
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE



DRAWING NO: TMA653524-A
APPLICATION: TOP-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE



DRAWING NO: TMA653524-B
APPLICATION: TOP-FIX TO MASONARY WALL (20 SERIES)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE



DRAWING NO: SMA653524
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.35kN/m AT MAX 2400 POST CENTRE

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Existing Support Sturcture

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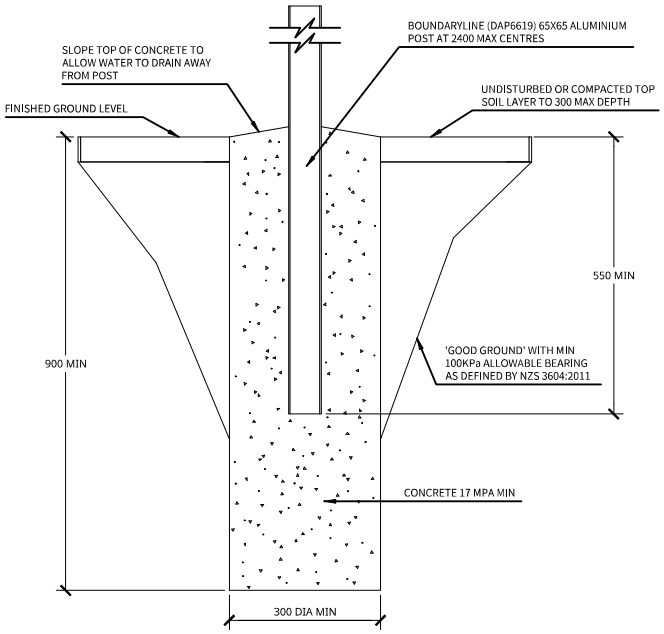
TITLE
BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:
- CONCRETE WALL
- MASONARY WALL

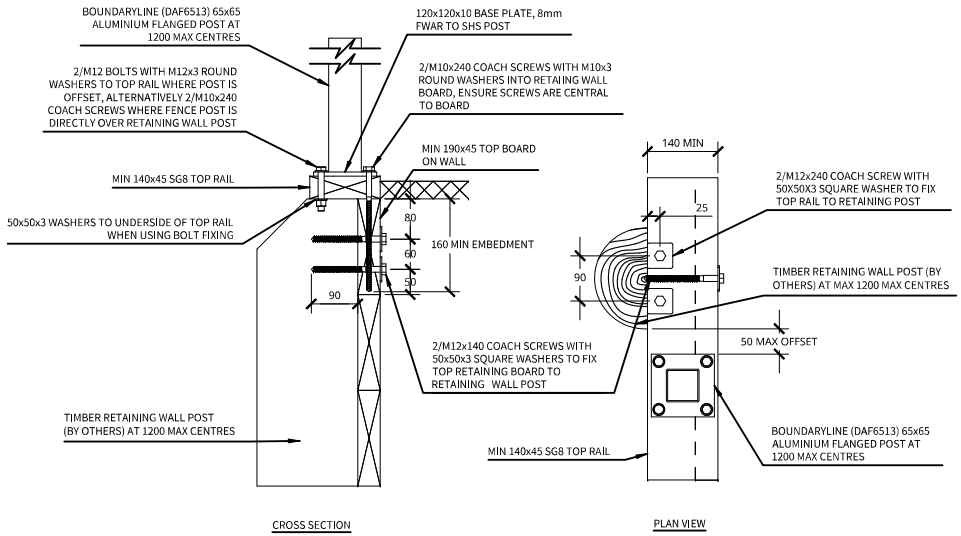
FOR 0.35kN/m
HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	DPA653503

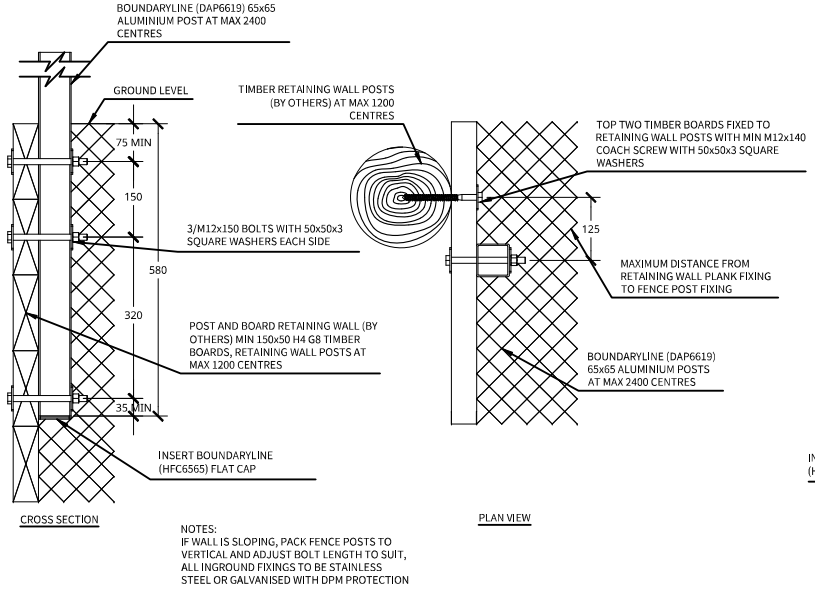
REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1



DRAWING NO: ICA667524
APPLICATION: CONCRETE IN-GROUND
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES

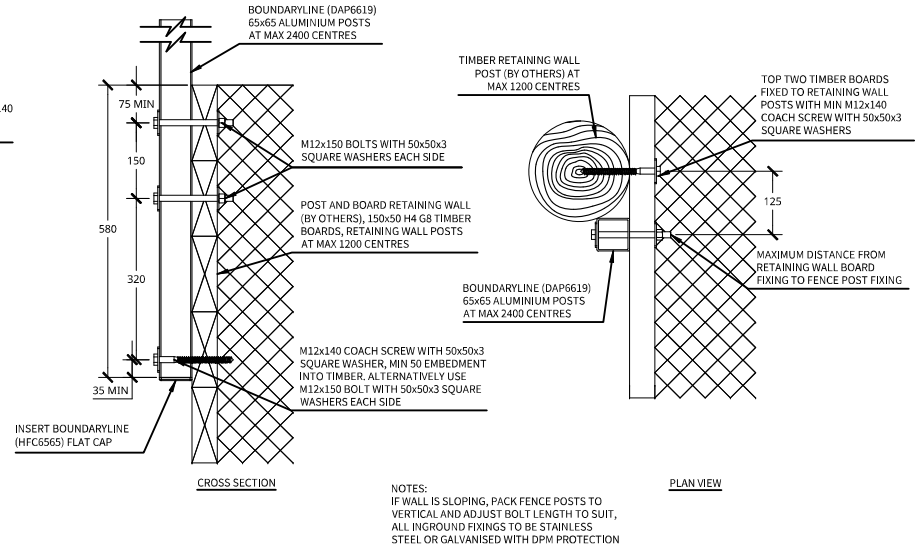


DRAWING NO: TRA657512
APPLICATION: TOP-FIX TO TIMBER RETAINING WALL
LOADING: 0.75kN/m AT MAX 1200 POST CENTRES
(NOTE: 0.75kN/m AT MAX 2400 POST CENTRE SUBJECT TO SPECIFIC ENGINEERING DESIGN)



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

DRAWING NO: SRA667524-A
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES



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

DRAWING NO: SRA667524-B
APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL)
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES

General Notes

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Website: www.boundaryline.co.nz

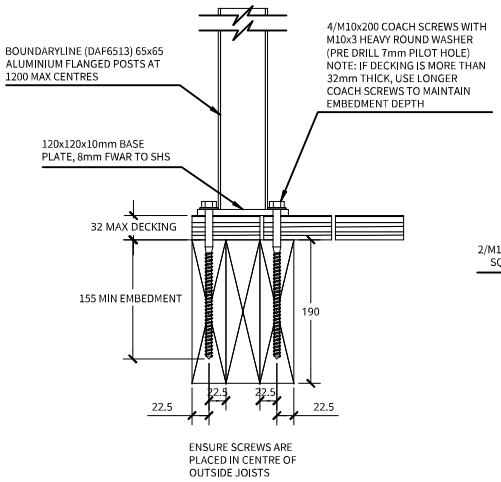
TITLE
BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:
- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

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

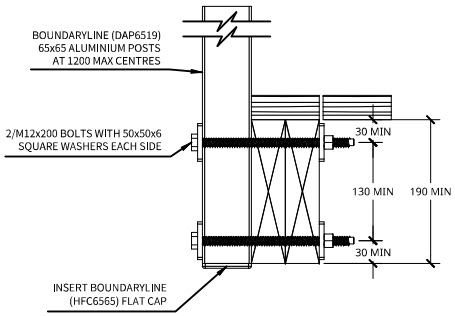
SCALE	SIZE	DRAWING NO
1:15	A4	DPA667501

REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1

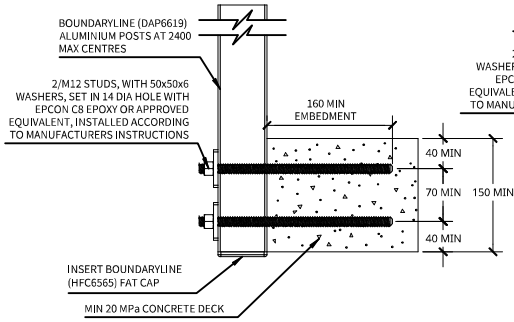
IMPORTANT: THIS DESIGN AND ASSOCIATED DESIGN PRODUCER STATEMENTS ARE ONLY RELEVENT FOR PROPRIETARY BOUNDARYLINE PRODUCTS; ANY PRODUCT SUBSTITUTIONS WILL INVALIDATE THE PRODUCER STATMENT



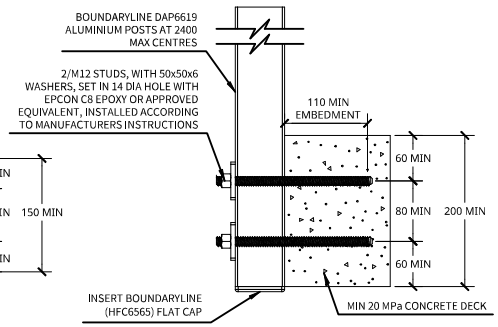
DRAWING NO: TTA657512
APPLICATION: TOP-FIX TO TIMBER DECK
LOADING: 0.75kN/m, AT MAX 1200 POST CENTRES
(NOTE: 0.75kN/m AT MAX 2400 POST CENTRE SUBJECT TO SPECIFIC ENGINEERING DESIGN INCLUDING SUPPORTING STRUCTURE)



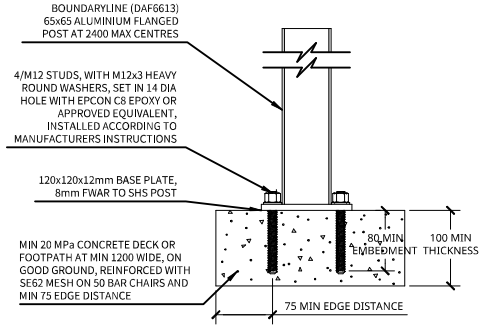
DRAWING NO: STA657512
APPLICATION: SIDE-FIX TO TIMBER DECK
LOADING: 0.75kN/m, AT MAX 1200 POST CENTRES
(NOTE: 0.75kN/m AT MAX 2400 POST CENTRE SUBJECT TO SPECIFIC ENGINEERING DESIGN OF SUPPORTING STRUCTURE)



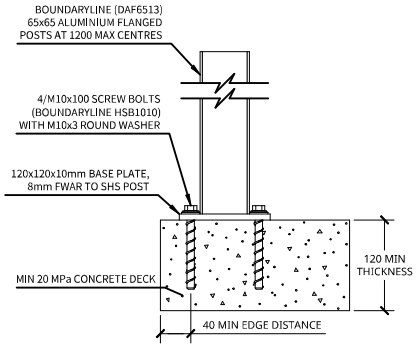
DRAWING NO: SDA667524-A
APPLICATION: SIDE-FIX TO CONCRETE DECK (150 min THICKNESS)
LOADING: 0.75kN/m, AT MAX 2400 POST CENTRES



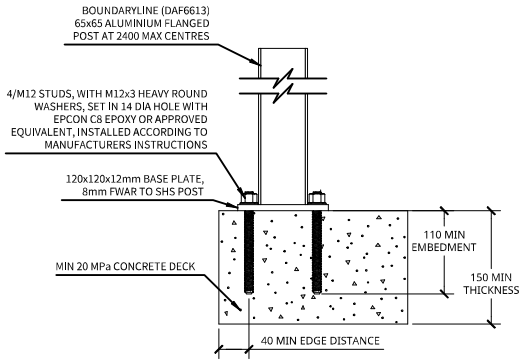
DRAWING NO: SDA667524-B
APPLICATION: SIDE-FIX TO CONCRETE DECK (200 min THICKNESS)
LOADING: 0.75kN/m, AT MAX 2400 POST CENTRES



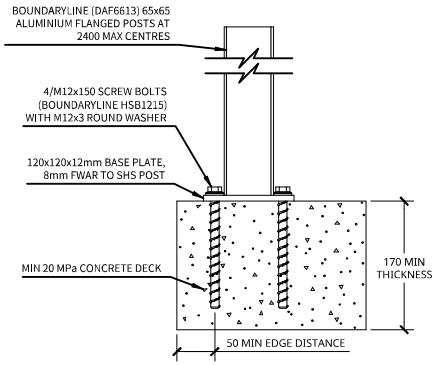
DRAWING NO: TDA667524-A
APPLICATION: TOP-FIX TO CONCRETE PATH OR DECK (MIN 1.2m WIDE)
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES



DRAWING NO: TDA657512
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: 0.75kN/m AT MAX 1200 POST CENTRES



DRAWING NO: TDA667524-B
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES



DRAWING NO: TDA667524-C
APPLICATION: TOP-FIX TO CONCRETE DECK
LOADING: 0.75kN/m AT MAX 2400 POST CENTRES

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

General Notes

1. All dimensions are in millimetres.

2. Drawings are not necessarily to scale

3. Check www.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 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.

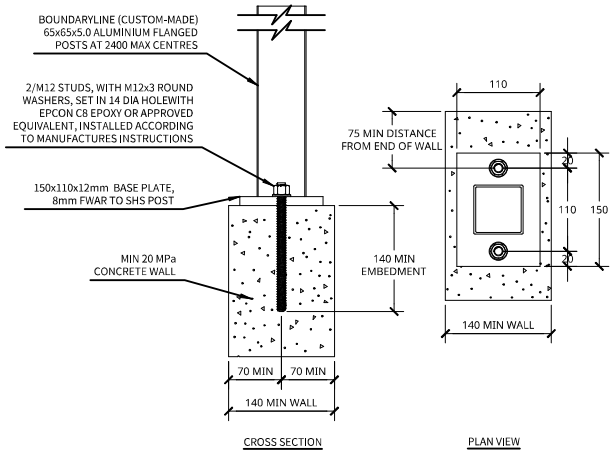
Boundaryline
Terranota Ltd. P.O. Box 1703 Invercargill 1703
Telephone: 0800 003 006
Fax: 03 215 8248
Email: enquiries@boundaryline.co.nz
Website: www.boundaryline.co.nz

TITLE:
BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:
- TIMBER DECK
- CONCRETE DECK

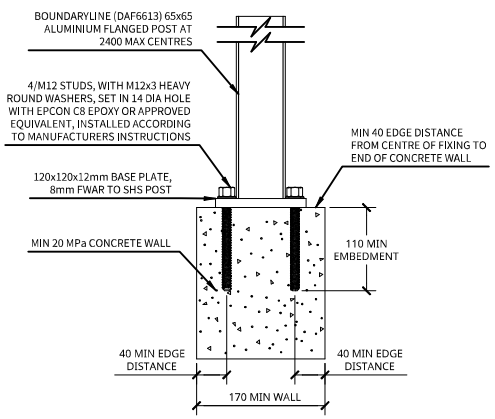
FOR 0.75kN/m HORIZONTAL LOADING
(REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE	SIZE	DRAWING NO
1:10	A4	DPA667502

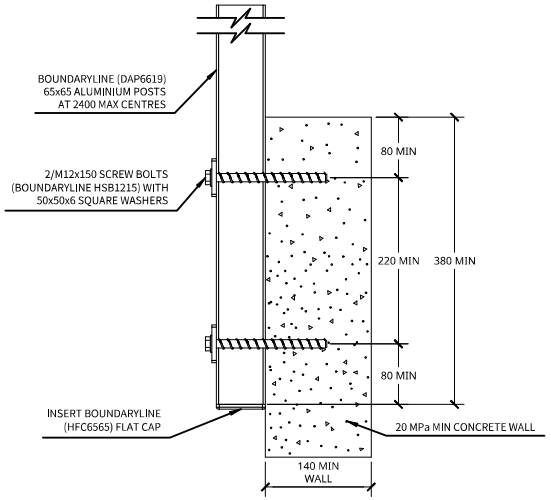
REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1



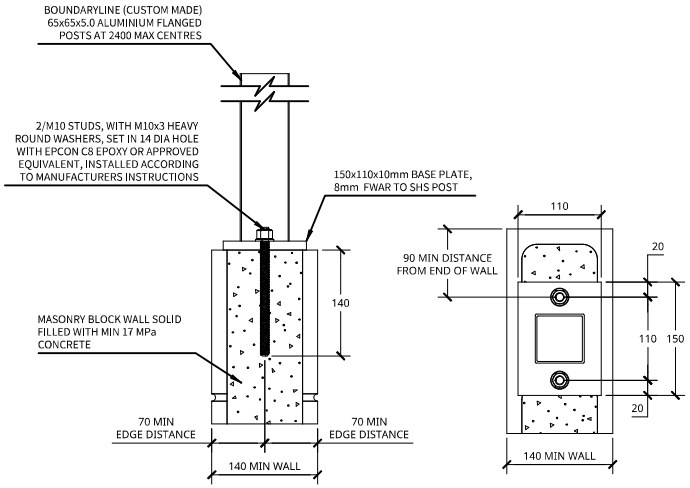
DRAWING NO: TWA667524-A
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.75kN/m AT MAX 2400 POST CENTRE



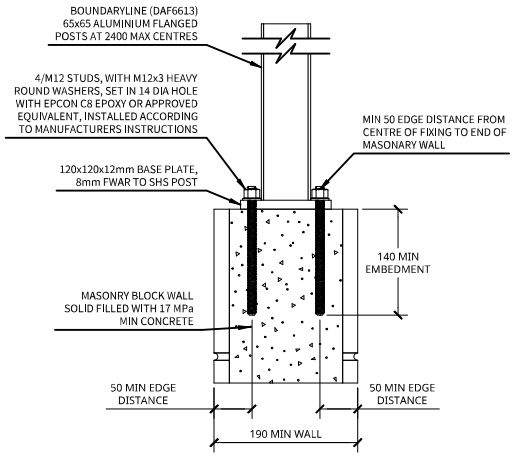
DRAWING NO: TWA667524-B
APPLICATION: TOP-FIX TO CONCRETE WALL
LOADING: 0.75kN/m, AT MAX 2400 POST CENTRE



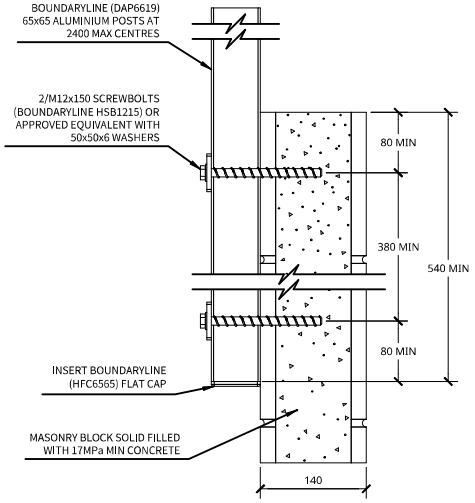
DRAWING NO: SWA667524
APPLICATION: SIDE-FIX TO CONCRETE WALL
LOADING: 0.75kN/m, AT MAX 2400 POST CENTRE



DRAWING NO: TMA657512
APPLICATION: TOP-FIX TO MASONARY WALL
LOADING: 0.75kN/m, AT MAX 1200 POST CENTRE (NOTE: 0.75kN/m AT MAX 2400 POST CENTRE NOT POSSIBLE TO TOP-FIX ON 15 SERIES MASONARY WALL)



DRAWING NO: TMA667524
APPLICATION: TOP-FIX TO MASONARY WALL
LOADING: 0.75kN/m AT MAX 2400 POST CENTRE



DRAWING NO: SMA667524
APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES)
LOADING: 0.75kN/m AT MAX 2400 POST CENTRE

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Website: www.boundaryline.co.nz

TITLE:
BOUNDARYLINE DURAPANEL 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	DPA667503

REV.	DATE ISSUED	SHEET
A	12-04-2021	1 of 1

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

PRODUCER STATEMENT – PS1
DESIGN

BUILDING CODE CLAUSE(S): B1, F4, F9 **JOB NUMBER:** 213679
ISSUED BY: Hadley Consultants Limited
(Engineering Design Firm)
TO: Terranota Limited
(Owner/Developer)
TO BE SUPPLIED TO:
(Building Consent Authority)
IN RESPECT OF: Boundaryline Durapanel Titan Balustrades as per attached schedule
(Description of Building Work)
AT:
(Address, Town/City)
LEGAL DESCRIPTION: **N/A** ☑

We have been engaged by the owner/developer referred to above to provide *(Extent of Engagement)*:
Structural design checks for the Boundaryline Durapanel Titan barrier and fixing design, refer attached schedule.
in respect of the requirements of the Clause(s) of the Building Code specified above for Part only , as specified in the Schedule, of the proposed building work.

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

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

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

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

- Site verification of the following design assumptions: refer attached schedule .
- 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 1 level of **construction monitoring**.

I, *(Name of Engineering Design Professional)* Andrew Duncan Morris , am:

- ☑ CPEng number 237078

and hold the following qualifications BE (Hons), CMEngNZ, CPEng

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

SIGNED BY *(Name of Engineering Design Professional)*: Andrew Duncan Morris
(Signature below):

ON BEHALF OF *(Engineering Design Firm)*: Hadley Consultants Limited Date: 21/06/2022

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:

Description of Building Works Designed:

Structural design checking for the Boundaryline Durapanel Titan Balustrades for loading up to 0.35kN/m and 0.75kN/m (excluding areas susceptible to overcrowding) at various locations throughout New Zealand, subject to the below schedule and BCA verification of the location and applicability.

Note: BCA & address details on PS1 above not entered by Hadley Consultants Limited.

This balustrade is also suitable for pool fencing provided the top of the fence is 1200mm minimum from adjacent ground level at any angle.

The applicable requirements of the New Zealand Building Code, in particular, Clauses B1, F4 & F9 have, where the provisions of these Clauses are applicable, been met in the design. The structural design has been prepared using the following New Zealand Standards as Verification Methods and/or Acceptable Solutions as set out in the Building Code. These New Zealand Standards are NZS1170, NZS3404, NZS3603 and general engineering principles.

B2 Durability:

The design life of structural elements is 50 years. There is no effective verification method for B2 contained within the Building Code. Durability provisions of structural elements covered under B1 are achieved as follows:

Concrete: Supporting concrete structures by others with covers to be in accordance with NZS 3101, Part 1, Section 3.
Timber: Supporting timber structure by others with treatment to NZS3602.
Steel: All structural members are 6063 T5 aluminium and all fixings are stainless steel if in corrosion zone D or E otherwise hot dip galvanised.

Schedule of Documentation:

Boundaryline Durapanel Titan Barrier Selection Specification Guide
One general arrangement drawing numbered: DTP 1223 , dated 12.04.2021
Six fixing detail drawings numbered: DPA 653501, 653502, 653503, 667501, 667502, 667503, dated 12.04.2021

Conditions:

The attached PS1 is also subject to;

1. This statement is based on generic design of the specified products, without specific knowledge of the location or intended use of the product at the site referred to. The Owner/Developer and Building Consent Authority must be satisfied the specified product and the corresponding Producer Statement and manufacturer's specifications are applicable to the situation in which the product is to be used,
2. Any structure supporting the balustrade to be in accordance with the Building Code Acceptable Solutions or subject to Specific Engineering Design,
3. The work covered by this statement being carried out in accordance with the manufacturer's installation specifications,
4. The work covered by this statement being inspected at appropriate times during construction by an approved Council Building Inspector as part of typical inspection regime,

GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website
https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/

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

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

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

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

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

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

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

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

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

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

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

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

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

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

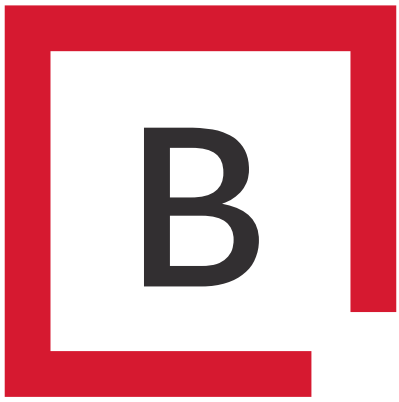
Professional Services during Construction Phase
There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1-CM5 for engineers[3]). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm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

Requirement to provide Producer Statement PS4
Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Refer Also:

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

www.acenz.org.nz
www.engineeringnz.org



Boundaryline

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