

PS1 DURAPANELTM Delta 35

Pool Fencing & Fall Restraint Barriers

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.buildin.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 & 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	DPA653501 DPA653502 DPA653503
A - Domestic	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	Delta 35 is not suitable for this application, please use Titan Panel instead, contact us for more details
B & E - Offices & work areas including storage	Access walkways, stairs & landings	0.35kN/m	1.1m	DPA653501 DPA653502 DPA653503
B & E - Offices & work areas including storage	Areas including balconies, decks & terraces not susceptible to overcrowding	0.75kN/m	1.1m	Delta 35 is not suitable for this application, please use Titan Panel instead, contact us for more details
C - Areas without obstacles for moving people & where people might congregate	Areas including walkways, stairs & landings, balconeis, decks & terraces not susceptible to overcrowding, including parks and reserves	0.75kN/m	1.1m	Delta 35 is not suitable for this application, please use Titan Panel instead, contact us for more details

Post fixing details.

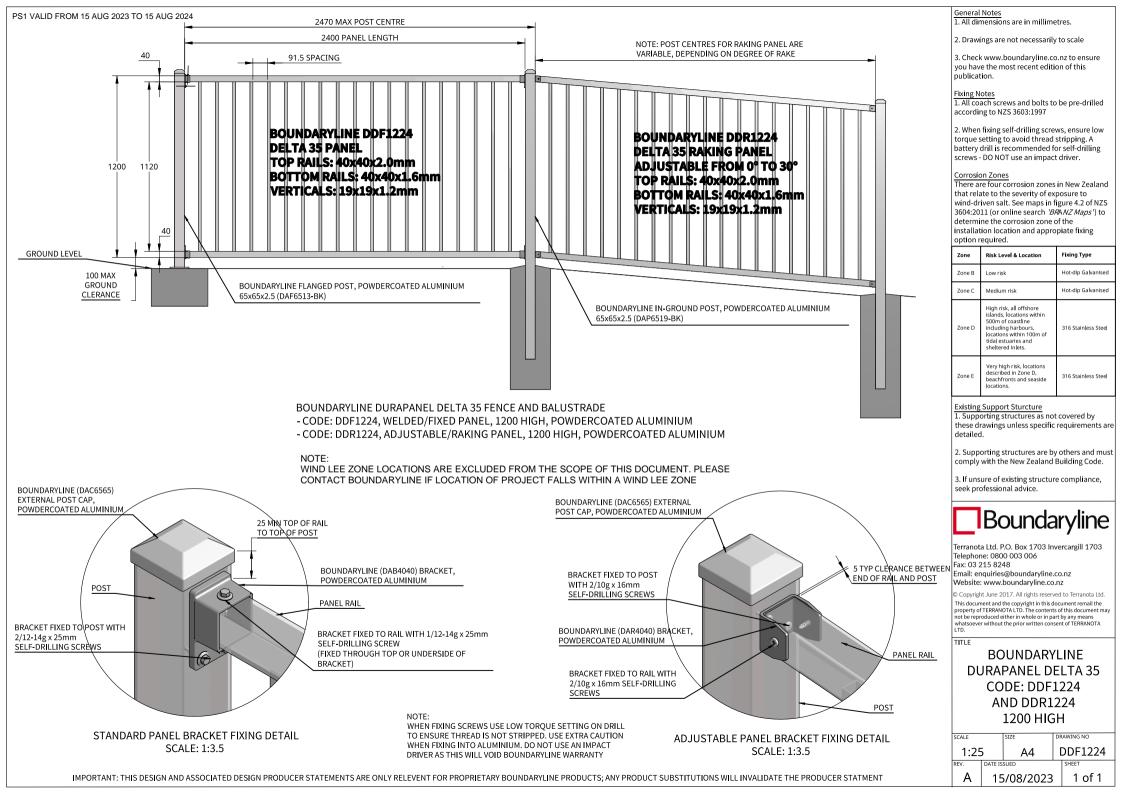
The following pages detail common and standardised methods for fixing the barrier to various structures. First determine the barrier loading using the table above and reference the correct drawing(s) for that particular design. If a variant to these standard installation methods is required, please contact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

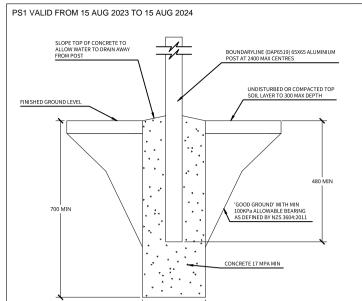
Fixing types

There are four corrosion zones in New Zealand that relate to the severity of exposure to wind-driven salt. To determine the corrosion zone 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





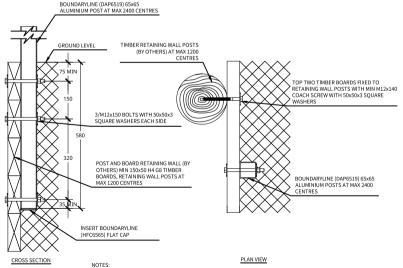


DRAWING NO: ICA653524 APPLICATION: CONCRETE IN-GROUND LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

250 DIA MIN

DRAWING NO: SRA653524-A

LOADING: 0.35kN/m AT MAX 2470 POST CENTRES



INSERT BOUNDARYLINE (HFC6565) FLAT CAP IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL AND ADJUST BOLT LENGTH TO SUIT, ALL INGROUND FIXINGS TO BE STAINLESS STELL OR GAI VANISED WITH DPM PROTECTION APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON INSIDE OF RETAINING WALL)

DRAWING NO: SRA653524-B APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL (POST ON OUTSIDE OF RETAINING WALL)

IF WALL IS SLOPING, PACK FENCE POSTS TO VERTICAL

AND ADJUST COACH SCREW LENGTH TO SUIT, ALL

BOUNDARYLINE (DAP6519) 65x65 ALUMINIUM POSTS

PLAN VIEW

AT MAX 2400 CENTRES

CROSS SECTION

LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

WIND LEE ZONE LOCATIONS ARE EXCLUDED FROM THE SCOPE OF THIS DOCUMENT. PLEASE CONTACT BOUNDARYLINE IF LOCATION OF PROJECT FALLS WITHIN A WIND LEE ZONE IMPORTANT: THIS DESIGN AND ASSOCIATED DESIGN PRODUCER STATEMENTS ARE ONLY RELEVENT FOR PROPRIETARY BOUNDARYLINE PRODUCTS; ANY PRODUCT SUBSTITUTIONS WILL INVALIDATE THE PRODUCER STATMENT

BOUNDARYLINE (DAE6513) 65x65

2/M12 BOLTS WITH M12x3 ROUND WASHERS TO TOP RAIL WHERE POST IS

DIRECTLY OVER RETAINING WALL POST

50x50x3 WASHERS TO UNDERSIDE OF TOP RAIL WHEN USING BOLT FIXING

TIMBER RETAINING WALL POST (BY

OTHERS) AT 1200 MAX CENTRES

OFFSET, ALTERNATIVELY 2/M12x240 COACH SCREWS WHERE FENCE POST IS

ALUMINIUM FLANGED POST AT

MIN 140x45 SG8 TOP RAIL

EMBEDMENT

CROSS SECTION

320

120x120x10 BASE PLATE, 8mm FWAR TO SHS POST

MIN 190x45 TOP BOARD

175 MIN EMBEDMENT

2/M12x240 COACH SCREWS WITH M12x3

ROLIND WASHERS INTO RETAIING WALL

BOARD, ENSURE SCREWS ARE CENTRAL TO BOARD

2/M12x140 COACH SCREWS WITH 50x50x3 SQUARE WASHERS TO FIX

MIN 140x45 SG8 TOP RAIL

APPLICATION: TOP-FIX TO TIMBER RETAINING WALL

TIMBER RETAINING WALL

POST (BY OTHERS) AT

MAX 1200 CENTRES

LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

TOP RETAINING BOARD TO

RETAINING WALL POST

DRAWING NO: TRA653524

M12x140 STAINLESS STEEL COACH SCREW WITH 50x50x3 SQUARE

TIMBER, ALTERNATIVELY USE

M12x150 BOLT WITH 50x50x3 SQUARE WASHERS EACH SIDE

POST AND BOARD RETAINING WALL

(BY OTHERS), 150x50 H4 G8 TIMBER BOARDS, RETAINING WALL POSTS

M12x140 STAINLESS STEEL COACH

WASHER MIN 50 EMBEDMENT INTO

TIMBER, ALTERNATIVELY USE M12x150

SCREW WITH 50x50x3 SQUARE

BOLT WITH 50x50x3 SQUARE

AT MAX 1200 CENTRES

BOUNDARYLINE (DAP6519 65x65 ALUMINIUM POSTS AT MAX 2400 CENTRES

140 MIN

0

PLAN VIEW

2/M12x240 COACH SCREW WITH

50X50X3 SQUARE WASHER TO FIX TOP RAIL TO RETAINING POST

TIMBER RETAINING WALL POST (BY

50 MAX OFFSET - ALTERNATIVELY 100 MAX

BOUNDARYLINE (DAF6513) 65x65 ALUMINIUM FLANGED POST AT

2400 MAY CENTRES

OTHERS) AT MAX 1200 MAX CENTRES

OFFSET WITH FENCE POSTS AT 1200 MAX CENTRES

TOP TWO TIMBER BOARDS

COACH SCREW WITH 50x50x6

FIXED TO RETAINING WALL POSTS WITH MIN M12x140

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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BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

- CONCRETE IN-GROUND
- TIMBER RETAINING WALL

FOR 0.35kN/m HORIZONTAL LOADING (REFER TO BARRIER SPECIFICATION GUIDE FOR

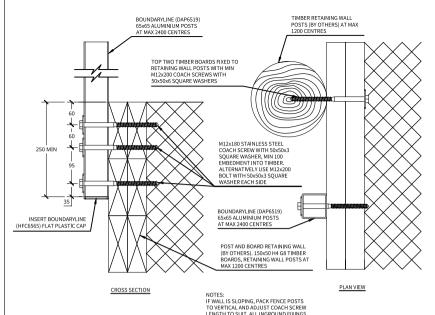
RELEVANT OCUPANCY TYPES) SCALE

DPA653501 1:15

Α 15/08/2023

1 of 1





DRAWING NO: SRB653524-B APPLICATION: SIDE-FIX TO TIMBER RETAINING WALL - DOUBLE BOARD (POST ON OUTSIDE OF RETAINING WALL) LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

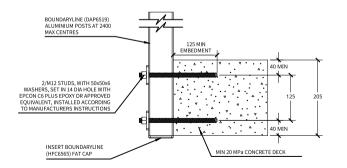
TO BE STAINLESS STELL

ALLIMINIUM ELANGED POSTS AT 4/M12x220 COACH SCREWS WITH M12x3 HEAVY ROUND WASHER (PRE DRILL 9mm PILOT HOLE) NOTE: IF DECKING IS MORE THAN 32mm THICK, USE LONGER COACH SCREWS TO MAINTAIN BOLINDARYLINE (DAP6519) 120x120x10mm BASE EMBEDMENT DEPTH AT 2400 MAX CENTRES PLATE, 8mm FWAR TO SHS 32 MAX DECKING 2/M12x200 BOLTS WITH 50x50x6 SOUARE WASHERS EACH SIDE 175 MIN EMBEDMENT INSERT BOLINDARYLINE (HFC6565) FLAT CAP ENSURE SCREWS ARE PLACED IN CENTRE OF

DRAWING NO: TTA653524 APPLICATION: TOP-FIX TO TIMBER DECK LOADING: 0.35kN/m AT MAX 2470 POST CENTRES DRAWING NO: STA653524 APPLICATION: SIDE-FIX TO TIMBER DECK LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

BOLINDARYLINE (DAE6513) 65x65 ALUMINIUM FLANGED POST AT 2400 MAX CENTRES 4/M12x100 RAMSET ANKA SCREW OR APPROVED EQUIVALENT WITH M12x3 ROUND WASHER 120x120x10mm BASE PLATE, 8mm FWAR TO SHS POST 120 MIN MIN 20 MPa CONCRETE DECK 40 MIN EDGE DISTANCE

DRAWING NO: TDA653524 APPLICATION: TOP-FIX TO CONCRETE DECK LOADING: 0.35kN/m AT MAX 2470 POST CENTRES



DRAWING NO: SDA653524-A APPLICATION: SIDE-FIX TO CONCRETE DECK (180 min THICKNESS) LOADING: 0.35kN/m AT MAX 2470 POST CENTRES

NOTE: WIND LEE ZONE LOCATIONS ARE EXCLUDED FROM THE SCOPE OF THIS DOCUMENT. PLEASE CONTACT BOUNDARYLINE IF LOCATION OF PROJECT FALLS WITHIN A WIND LEE ZONE

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 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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BOUNDARYLINE DURAPANEL BARRIER FIXING DESIGNS FOR:

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

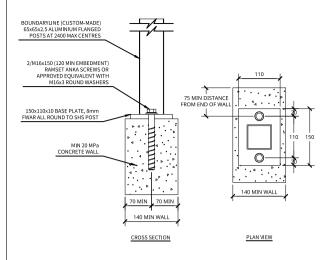
FOR 0.35kN/m HORIZONTAL LOADING (REFER TO BARRIER SPECIFICATION GUIDE FOR RELEVANT OCCUPANCY TYPES)

SCALE DPA653502 1:10

Α 15/08/2023

1 of 1

PS1 VALID FROM 15 AUG 2023 TO 15 AUG 2024



DRAWING NO: TWA653524-A APPLICATION: TOP-FIX TO CONCRETE WALL LOADING: 0.35kN/m AT MAX 2470 POST CENTRE BOUNDARYLINE (DAF6513) 65x65 ALLIMINIUM FLANGED POST AT 2400 MAX CENTRES 4/M12x100 RAMSET ANKA SCREWS OR APPROVED EQUIVALENT WITH M12x3 MIN 40 EDGE DISTANCE ROUND WASHERS FROM CENTRE OF FIXING TO END OF CONCRETE WALL 120x120x10mm BASE PLATE 8mm FWAR TO SHS POST MIN 20 MPa CONCRETE WALL 40 MIN EDGE 40 MIN EDGE DISTANCE DISTANCE 170 MIN WALL

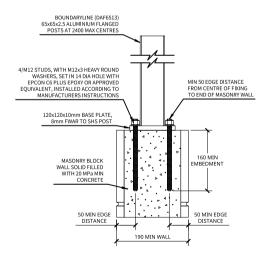
> DRAWING NO: TWA653524-B APPLICATION: TOP-FIX TO CONCRETE WALL LOADING: 0.35kN/m AT MAX 2470 POST CENTRE

BOUNDARYLINE (DAP6519) 65x65 ALUMINIUM POSTS AT 2400 MAX CENTRE 2/M12x150 RAMSET ANKA SCREW OR APPROVED EQUIVALENT WITH 50x50x6 SQUARE WASHERS 60 MIN -wwwwwi . . 140 MIN 260 MIN -aimhamh INSERT BOUNDARYLINE 20 MPa MIN CONCRETE WALL (HFC6565) FLAT CAP 140 MIN WALL

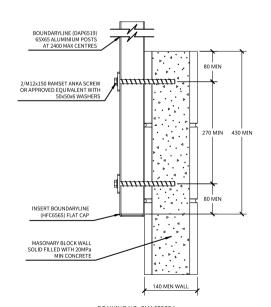
> DRAWING NO: SWA653524 APPLICATION: SIDE-FIX TO CONCRETE WALL LOADING: 0.35kN/m AT MAX 2470 POST CENTRE

BOUNDARYLINE (CUSTOM MADE) 65x65x2.5 ALUMINIUM FLANGED POSTS AT 2400 MAX CENTRES 2/M12 STLIDS WITH M12v3 HEAVY ROUND WASHERS, SET IN 14 DIA HOLE 150x110x10mm BASE PLATE, WITH EPCON C6 PLUS EPOXY OF 8mm FWAR TO SHS POST APPROVED EQUIVALENT, INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTION 90 MIN DISTANCE 120 MIM 0 EMBEDMENT MASONRY BLOCK WALL SOLID FILLED **(** 70 MIN EDGE 70 MIN EDGE DISTANCE DISTANCE 140 MIN WALL 140 MIN WALL

DRAWING NO: TMA653524-A APPLICATION: TOP-FIX TO MASONARY WALL (15 SERIES) LOADING: 0.35kN/m AT MAX 2470 POST CENTRE



DRAWING NO: TMA653524-B APPLICATION: TOP-FIX TO MASONARY WALL (20 SERIES) LOADING: 0.35kN/m AT MAX 2470 POST CENTRE



DRAWING NO: SMA653524 APPLICATION: SIDE-FIX TO MASONARY WALL (15 SERIES) LOADING: 0.35kN/m AT MAX 2470 POST CENTRE

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

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)

DRAWING NO SCALE DPA653503 1:10 A4

Α 15/08/2023

1 of 1





PRODUCER STATEMENT - PS1 DESIGN

BUILDING CODE CLAUSE(S):	JOB NUMBER:
ISSUED BY: (Engineering Design Firm)	
TO:	
(Owner/Developer)	ı
TO BE SUPPLIED TO:	
(Building Consent Authority)	1
IN RESPECT OF:	
(Description of Building Work) AT:	
(Address, Town/City)	I
LEGAL DESCRIPTION:	N/A □
We have been engaged by the owner/developer referred to above	to provide (Extent of Engagement):
in respect of the requirements of the Clause(s) of the Building Code Schedule, of the proposed building work.	e specified above for Choose an item., as specified in the
The design carried out by us has been prepared in accordance with	:
 Compliance documents issued by the Ministry of Busine solution) 	ess, Innovation & Employment (Verification method/acceptable and/or;
 □Alternative solution as per the attached Schedule. 	julia, oi,
The proposed building work covered by this producer statement is with the specification, and other documents set out in the Schedul	
On behalf of the Engineering Design Firm, and subject to:	1
 Site verification of the following design assumptions: All proprietary products meeting their performance specification. 	fication requirements;
I believe on reasonable grounds that:	
Schedule, will comply with the relevant provisions of the I	
 the persons who have undertaken the design have the ne 	cessary competency to do so.
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 Professional	Indemnity Insurance no less than \$200,000
The Engineering Design Firm Choose one a member of ACE New Zea	·
SIGNED BY (Name of Engineering Design Professional): (Signature below):	
	15/08/24 VALID
ON BEHALF OF (Engineering Design Firm):	Date: TILL 14/08/25

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:

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



Auckland

43 Noel Burnside Road 09 250 1144

Christchurch

22 Islington Avenue 03 347 3191

Invercargill

60 Basstian Street 03 211 5145

0800 003 006 boundaryline.co.nz