

BARRIER PS1

Totara, Rata, Rimu
& Kauri Panel





association of consulting and engineering



PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S): [B1, B2, F4] **JOB NUMBER:** [669243]

ISSUED BY: [STRATUM CONSULTANTS LTD]
(Engineering Design Firm)

TO: [BARRIER IMPORTS LIMITED]
(Owner/Developer)

TO BE SUPPLIED TO: [LOCAL COUNCIL AUTHORITY]
(Building Consent Authority)

IN RESPECT OF: [ALUMINIUM BARRIER DESIGN_ TYPE A OCCUPANCY LOADS (0.35KN/m UDL + 0.6kN POINT LOAD)]
(Description of Building Work)

AT: [VARIOUS LOCATIONS]
(Address, Town/City)

LEGAL DESCRIPTION: [VARIOUS LOCATIONS] **N/A**

We have been engaged by the owner/developer referred to above to provide (Extent of Engagement):
ENGINEERING DESIGN OF PROPOSED DWELLING AS STATED IN DESIGN FEATURES REPORT
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/ AS1+VM1+VM4, B2/AS1, F4/AS1] and/or;
- Alternative solution as per the attached Schedule.

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

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

- Site verification of the following design assumptions: [GROUND CONDITIONS AS NOTED IN THE DFR]
- 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 3 level of construction monitoring.

I, (Name of Engineering Design Professional) STEPHEN BOS , am:

- CPEng number [154367] and hold the following qualifications NZCE, BE, CMEngNZ, CPEng

The Engineering Design Firm holds a current policy of Professional Indemnity Insurance no less than \$200,000
The Engineering Design Firm is not a member of ACE New Zealand.

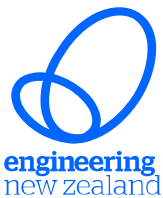
SIGNED BY (Name of Engineering Design Professional): STEPHEN BOS
(Signature below):

ON BEHALF OF (Engineering Design Firm): STRATUM CONSULTANTS LTD

Date: 10/02/2025

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.



CERTIFICATE OF DESIGN WORK MEMORANDUM FROM LICENSED BUILDING PRACTITIONER

Section 30C and Section 45, Building Act 2004

The Building			
Street address	Various		
Suburb		Town/city	
Postcode		Building consent no.	
The Owner			
Name(s)	Barrier Imports Limited		
Email		Phone	
Address			

Basis for providing this memorandum

I am providing this memorandum in my role as the **specialist** designer who carried out or supervised specific Primary structure elements of restricted building work (RBW) design work as described in this memorandum. Other designers will provide memoranda covering the remaining RBW design work. Refer also to the attached PS1.

Identification of restricted building work (RBW) design work

I, Stephen Bos carried out or supervised the following RBW design work:

Primary structure: B1

Design work that is RBW		Description (as required) and reference to plans and specifications	Carried out or supervised
Foundations and subfloor framing	✓	Cantilevered footing to support barrier fencing	Supervised
Retaining walls	✓	Barrier to retaining walls.	Supervised
Beams	✓	Aluminium barrier fencing	Supervised
Portal	✗		Supervised
Bracing	✗		Supervised
Other (primary)	✗		Supervised

Note: SED = Elements subject to Specific Engineering Design outside of the scope of NZS3604:2011, unless otherwise noted.

Initial SJB Date 10/02/2026

Waivers and modifications

Are waivers or modifications of the Building Code required?

No

If yes, please provide details of the waivers or modifications:

Building Code clause	Waiver/modification required
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Issued by

Name	STEPHEN BOS	Design entity/company	STRATUM CONSULTANTS LTD
Chartered status	CPEng	Chartered no.	154367
Email	stephen.bos@stratumnz.co.nz	Website	
Phone (daytime)	(07) 571 4500	Phone (after hours)	
Mobile			
Postal address	PO Box 13651, Tauranga 3141		
Physical address	Level 1, Rydal House, 29 Grey Street, Tauranga 3141		

Declaration

I, Stephen Bos, LBP state that I have applied the skills and care reasonably required of a competent design professional in carrying out or supervising the RBW described in this memorandum and that based on this, I certify that the RBW described in this memorandum:

- complies with the Building Code; or
- complies with the Building Code subject to any waiver or modification of the Building Code described in this memorandum.

Signature



Date 10/02/2026

STRUCTURAL DRAWINGS

PROJECT STATUS:

ISSUED FOR
CONSENT



STRUCTURAL SHEET LIST			
Sheet Name	Sheet Number	Sheet issue date	Current Revision
INDEX COVER SHEET	500	13.12.2023	0
STANDARD NOTES	501	13.12.2023	0
TYPICAL SAFETY/FENCE DETAILS - RESIDENTIAL	502	05.03.2024	D

FENCING DETAILS

STANDARD FENCING

BARRIER FENCING



669243

ISSUED FOR
CONSENT

PANEL SUMMARY

THE NEW ZEALAND BUILDINGS CODE (AS/NZS 1170) CLASS 1 DESIGNATED SUBSTANTIAL OCCUPANCY TYPE IS REQUIRED. PLEASE REFER TO THE DRAWINGS ON PAGES 50-53 FOR FURTHER DETAILS. THE SCHEDULE OF MATERIALS, THE SCHEDULE OF FINISHES, THE SCHEDULE OF FIXINGS AND THE STRUCTURE THAT THE GALVANIZED FASTENERS IS BEING ATTACHED TO, THESE ARE SUMMARIZED IN THE BELOW TABLE REFER TO THE DRAWINGS ON PAGES 50-53 FOR FURTHER DETAILS. (AS/NZS 1170:2022, TABLE 3.1 OCCUPANCY REFERRED).

PANEL TYPE	OCCUPANCY TYPE	DESIGN LOAD	HORIZONTAL RAIL	VERTICAL RODS	POST	POST CENTERS (MAX)	APPLICATION	FIXING OPTIONS
TOTARA - 1.2M HEIGHT	N/A, BPS PROTECTION FROM FALLING	N/A	ALU 60 SHS x 2.0mm 6083-15	ALU 60 SHS x 2.0mm 6083-15	ALU 60 SHS x 2.0mm 6083-15	2.4m	IN GROUND	CAST INTO FOOTING
RAVIA - 1.2M HEIGHT	TYPE A	0.35kN/m / 0.6kN	ALU 60 SHS x 2.0mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	2.4m	TIMBER RETAINING WALL / FIXED AT BASE IN GROUND	BOLT OR COACH SCREW CAST INTO FOOTING
RIMU - 1.5M HEIGHT	TYPE A	0.35kN/m / 0.6kN	ALU 60 SHS x 2.0mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	1.0m	TIMBER RETAINING WALL / FIXED AT BASE IN GROUND	BOLT OR COACH SCREW CAST INTO FOOTING
KAURI - 1.5M HEIGHT	TYPE A	0.35kN/m / 0.6kN	ALU 60 SHS x 2.0mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	ALU 60 SHS x 2.5mm 6083-15	2.4m	TIMBER RETAINING WALL / FIXED AT BASE IN GROUND	BOLT OR COACH SCREW CAST INTO FOOTING

FASTENERS AND CORROSION ZONES

ENVIRONMENT	CORROSION CLASSIFICATION	EXPOSED	SHelterED
WITH IN 500M OF BREAKING SURF OR 50M OF DAM SALT WATER	C4	ALL FININGS 304 STAINLESS STEEL	ALL FININGS 304 STAINLESS STEEL
WITH IN 50M OF SALT WATER ON WEST OR SOUTH COAST OF SOUTH ISLAND OR WITH IN 5M OF BUILT UP COAST ON NORTH ISLAND	C3	ALL FININGS HOT DIP GALVANIZED OR 304 STAINLESS STEEL	ALL FININGS 304 STAINLESS STEEL
WITH IN 50M OF SALT WATER ON WEST OR SOUTH COAST OF SOUTH ISLAND OR WITH IN 5M OF BUILT UP COAST ON NORTH ISLAND	C2	ALL FININGS HOT DIP GALVANIZED OR 304 STAINLESS STEEL	ALL FININGS HOT DIP GALVANIZED OR 304 STAINLESS STEEL

NOTE 1: WHERE HOT DIP GALVANIZED FININGS ARE ACCEPTABLE IN NAVAL LOCATIONS IT IS SPECIFIED TO USE 304 STAINLESS STEEL.

NOTE 2: THE TABLE ABOVE IS ONLY A GUIDE. PLEASE REFER TO AS/NZS 1170:2022, TABLE 3.1 FOR SPECIFIC CORROSION AMPS FOR FURTHER GUIDANCE.

IN SECTION AND MAINTENANCE SCHEDULE

TIMEFREAME	INSPECTION / MAINTENANCE
1/2 YEARLY	WASH DOWN ALL EXPOSED METALWORK INCLUDING PANELS, POSTS AND FININGS
10 YEARLY	CHECK PANELS, POSTS AND FININGS FOR SIGNS OF CORROSION. REPAIR PROTECTIVE COATINGS OR REPLACE AS REQUIRED.
20 YEARLY	INSPECT ALL EXPOSED EXTERNAL REINFORCED CONCRETE FOR SIGNS OF CRACKING AND THE RESULTING EXPOSED REINFORCING FOR CORROSION. REPAIR OR REPLACE AS REQUIRED.
FOLLOWING SEISMIC SHAKING - SLT EVENT	INSPECT AND REPAIR AS PER THE 10:25 YEARLY REQUIREMENTS.

THIS SCHEDULE OF ONGOING MAINTENANCE OF STRUCTURAL ELEMENTS SHALL BE INCLUDED WITH THE OAM MANUALS AND PROVIDED TO THE OWNER/BODY CORPORATE AND BUILDING MANAGERS.

No.	Date	Drawn	Approved	Issue/Revised	FOR CONSENT
01	27/09/23	MB			
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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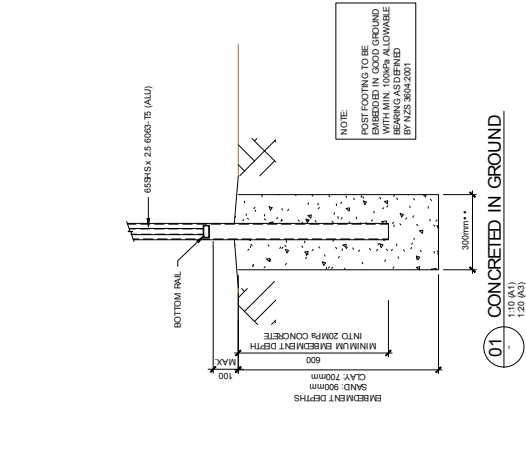
BARRIER FENCING
STANDARD FENCING



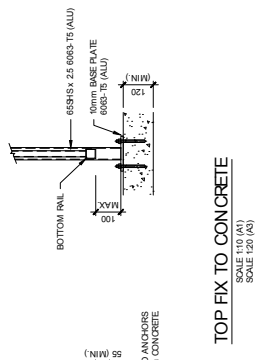
STANDARD NOTES

Drawing No	669243-STR-D001
Sheet No.	01
Issue	A
A1 SCALE	NTS

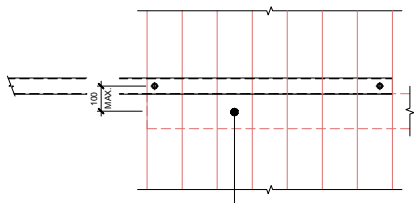
ISSUED FOR
CONSENT



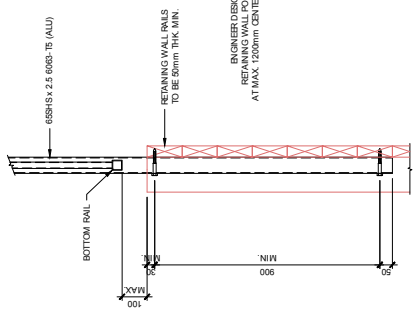
01 CONCRETED IN GROUND
SCALE 1:20 (A3)
SCALE 1:20 (A1)



TOP FIX TO CONCRETE
SCALE 1:20 (A3)
SCALE 1:20 (A1)

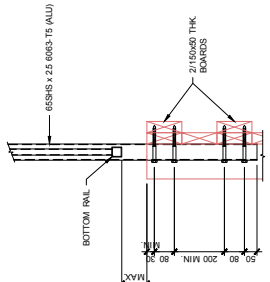


TYPE 2
2 x M12 COACH SCREWS WITH SPANLESS FINNINGS TO BE DRIVEN INTO TIMBER
SCALE 1:10 (A1)
SCALE 1:20 (A3)



TYPE 3
4 x M12 COACH SCREWS WITH SPANLESS FINNINGS TO BE DRIVEN INTO TIMBER
SCALE 1:10 (A1)
SCALE 1:20 (A3)

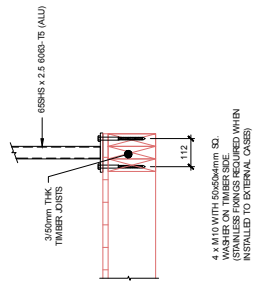
WHEN AN OUTDOOR DECK IS TO BE CONSTRUCTED ALONGSIDE THE BARRIER THIS IS TO BE CONFIRMED BY THE DESIGN ENGINEER.



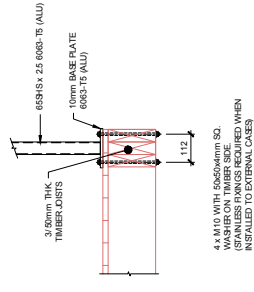
TYPE 1
2 x M12 COACH SCREWS WITH SPANLESS FINNINGS TO BE DRIVEN INTO TIMBER
SCALE 1:10 (A1)
SCALE 1:20 (A3)

SIDE FIX TO TIMBER RETAINING WALL - RESIDENTIAL
SCALE 1:10 (A1)
SCALE 1:20 (A3)

WHERE DECKS ARE LESS THAN 1.0m ABOVE GROUND LEVEL AND ARE NOT TO BE PROTECTED FROM FALLING, THIS NOTE DOES NOT APPLY.



TOP FIX TO TIMBER DECK - RESIDENTIAL
SCALE 1:20 (A3)
SCALE 1:20 (A1)



TYPE 4
4 x M10 WITH 150x40mm SQ. WASHER ON TIMBER SIDE. (SPANLESS FINNINGS REQUIRED WHEN INSTALLED TO EXTERNAL CASES)
SCALE 1:10 (A1)
SCALE 1:20 (A3)



BARRIER FENCING
STANDARD FENCING

TYPICAL SAFETY FENCE DETAILS
RESIDENTIAL

Drawing No.	669243-STR-D001
Sheet No.	02
Issue	D
A1 SCALE	1:10

Stratum
CONSULTANTS
OFFICE - TAURANGA CONTACT: 07 271 4500

No.	Date	Drawn	Reviewed	Issue/Revised
A	27.09.23	MM	MM	FOR CONSENT
B	05.03.24	MM	MM	BASE PLATE ADDITION
C	10.05.24	MM	MM	ADDITION OF DECK
D	10.02.26	MM	MM	DETAIL UPDATE
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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Premium Fence Solutions

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