



PRODUCER STATEMENT – PS1 DESIGN

BUILDING CODE CLAUSE(S):	B1	JOB NUMBER: 666515	, J		
ISSUED BY:	STRATUM CONSULTANTS LTD				
(Engineering Design Firm) TO:	BELAIRE DESIGNER FENCING LTD		Y.		
(Owner/Developer)	BELAINE DESIGNER I ENGING ETD				
TO BE SUPPLIED TO:	NZ TERRITORIAL AUTHORIIES		Ť		
(Building Consent Authority)			1		
IN RESPECT OF:					
(Description of Building Work)					
AT:	VARIOUS LOCATIONS ACROSS NZ				
(Address, Town/City)					
LEGAL DESCRIPTION:		<u>, j</u>	N/A 🗹		
STRUCTURAL DESIGN REVIEW	owner/developer referred to above to OF FENCING SYSTEM POSTS, HORIZOI of the Clause(s) of the Building Code s ding work.	NTAL MEMBERS, INFILL, FIXINGS	, as specified in the		
The death of the state of the s					
_	as been prepared in accordance with:				
	ents issued by the Ministry of Busines	s, innovation & Employment (Verifi	1		
solution) NZBC B1 / V Alternative solution	n as per the attached Schedule.		and/or;		
■ Miternative solution	ras per trie attacheu schedule.				
	overed by this producer statement is d er documents set out in the Schedule.	<u> </u>	in the Schedule, together		
	Design Firm, and subject to: e following design assumptions: Groun cts meeting their performance specific		ound classificaton .		
I believe on reasonable groun	ds that:				
 the building, if construction Schedule, will comply 	ucted in accordance with the drawings with the relevant provisions of the Bue undertaken the design have the nece	uilding Code and that;	nts provided or listed in the		
I recommend the Choose one	level of construction monitoring.				
I, (Name of Engineering Design Professional) STEPHEN BOS					
and hold the following qu	alifications BE (hons), CPEng, CMEngN	IZ, NZCE (civil)			
The Engineering Design Firm h The Engineering Design Firm is	olds a current policy of Professional Ir not a member of ACE New Zeal		00,000		
SIGNED BY (Name of Engineering Design Professional): STEPHEN BOS (Signature below):					
	6Nho				

ON BEHALF OF (Engineering Design Firm):

STRATUM CONSULTANTS LTD

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.

Job Number <u>666515</u>...... PRODUCER STATEMENT PS1 Date: 08/05/2024

SCHEDULE to PS1

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

DESIGN VERIFICATION OF MEMBERS AND LAYOUT WITH LOADING CONDITIONS TO NZS 1170.1 - TABLE 3.3 TYPE A -DOMESTIC AND RESIDENTIAL ACTIVITIES. SINGLE UNIT DWELLING ONLY / CONPLIANCE WITH NZBC F4

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)

November 2021

⁴ PN01 Guidelines on Producer Statements

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



APPLICATIONS

THE NEW ZEALAND BUILDING CODE (AS/NZS 1170.1:2002) DESIGNATES DIFFERENT OCCUPANCY TYPES AND SPECIFIES THE LOAD RATINGS THAT THE SYSTEM MUST BE CAPABLE OF WITHSTANDING. THE SYSTEM COMPRISES OF THE PANEL, POST, FIXINGS AND THE STRUCTURE THAT THE BALUSTRADE IS BEING ATTACHED TO. THESE ARE SUMMARISED IN THE BELOW TABLE. REFER TO THE DRAWINGS ON PAGES S02-S03 FOR MORE DETAILS. (AS/NZS 1170.1:2002 TABLE 3.3 OCCUPANCY REFERENCE).

SETTING	APPLICATION	OCCUPANCY TYPE	design load	FENCE HEIGHT	POST CENTERS	POST	FIXING OPTIONS	DETAILS
SINGLE DWELLING RESIDENTIAL —	IN GROUND	А	0.35kN/m	1.0m	1.65m	ALU 60 SHS x 2.0mm 6063-T5 STEEL 60 SHS x 2.0mm	Base Plate / Ground plant	S02
SINGLE DWELLING RESIDENTIAL	IN GROUND	А	0.35kN/m	1.2m	1.65m	LU 60 SHS x 2.0mm 6063-T5 STEEL 60 SHS x 2.0mm	Base Plate / Ground plant	S02

FASTENERS AND CORROSION ZONES

NEW ZEALAND'S COASTAL CLIMATE MEANS THAT ATTENTION MUST BE PAID TO THE PROXIMITY TO SALT WATER WHEN CHOOSING WHAT FASTENERS TO USE. THE TABLE BELOW IS A GUIDE TO WHERE HOT DIP GALVANISED FASTENERS CAN BE USED. WHILE IT MAY SEEM COUNTER INTUITIVE THAT SHELTERED INSTALLATIONS REQUIRE STAINLESS STEEL FITTINGS EVEN WITHIN 5KM OF THE AREA, IT IS BECAUSE REGULAR EXPOSURE TO RAINFALL CLEANS THE FASTENERS AND PROLONGS THEIR LIFE.

ENVIRONMENT	CORROSION CLASSIFICATION	EXPOSED	SHELTERED
WITHIN 500m OF BREAKING SURF OR 50m OF CALM SALT WATER	C4	ALL FIXINGS 304 STAINLESS STEEL	ALL FIXINGS 304 STAINLESS STEEL
WITHIN 20KM OF SALT WATER ON WEST OR SOUTH COAST OF SOUTH ISLAND OR WITHIN 5KM OF SALT WATER ELSEWHERE	C3	ALL FIXINGS HOT DIP GALVANISED OR 304 STAINLESS STEEL	ALL FIXINGS 304 STAINLESS STEEL
MORE THAN 20KM OF SALT WATER ON WEST OR SOUTH COAST OF SOUTH ISLAND OR MORE THAN 5KM OF SALT WATER ELSEWHERE	C2	ALL FIXINGS HOT DIP GALVANISED OR 304 STAINLESS STEEL	ALL FIXINGS HOT DIP GALVANISED OR 304 STAINLESS STEEL

NOTE 1: WHILE HOT DIP GALVANISED FIXINGS ARE ACCEPTABLE IN INLAND LOCATIONS IT IS SAFER TO USE 304 STAINLESS STEEL.

NOTE 2: THE TABLE ABOVE IS ONLY A GUIDE. PLEASE REFER TO SNZ TS 3404:2018, FIGURES 1 TO 7 FOR SPECIFIC CORROSIVITY MAPS FOR FURTHER GUIDANCE.

INSPECTION AND MAINTENANCE SCHEDULE

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

TIMEFRAME 1/2 YEARLY 10 YEARLY		INSPECTION / MAINTENANCE
		WASH DOWN ALL EXPOSED METALWORK INCLUDING PANELS, POSTS AND FIXINGS
		CHECK PANELS, POSTS AND FIXINGS FOR SIGNS OF CORROSION. REPAIR PROTECTIVE COATINGS OR REPLACE AS REQUIRED.
	FOLLOWING SEISMIC SHAKING> SLS1 EVENT	INSPECT AND REPAIR AS PER THE 10 YEARLY REQUIREMENTS.

INO.	Date	Drawn	Approved	ISSUE/REVISION
0	May 24	MB	-	FOR CONSENT
	i			

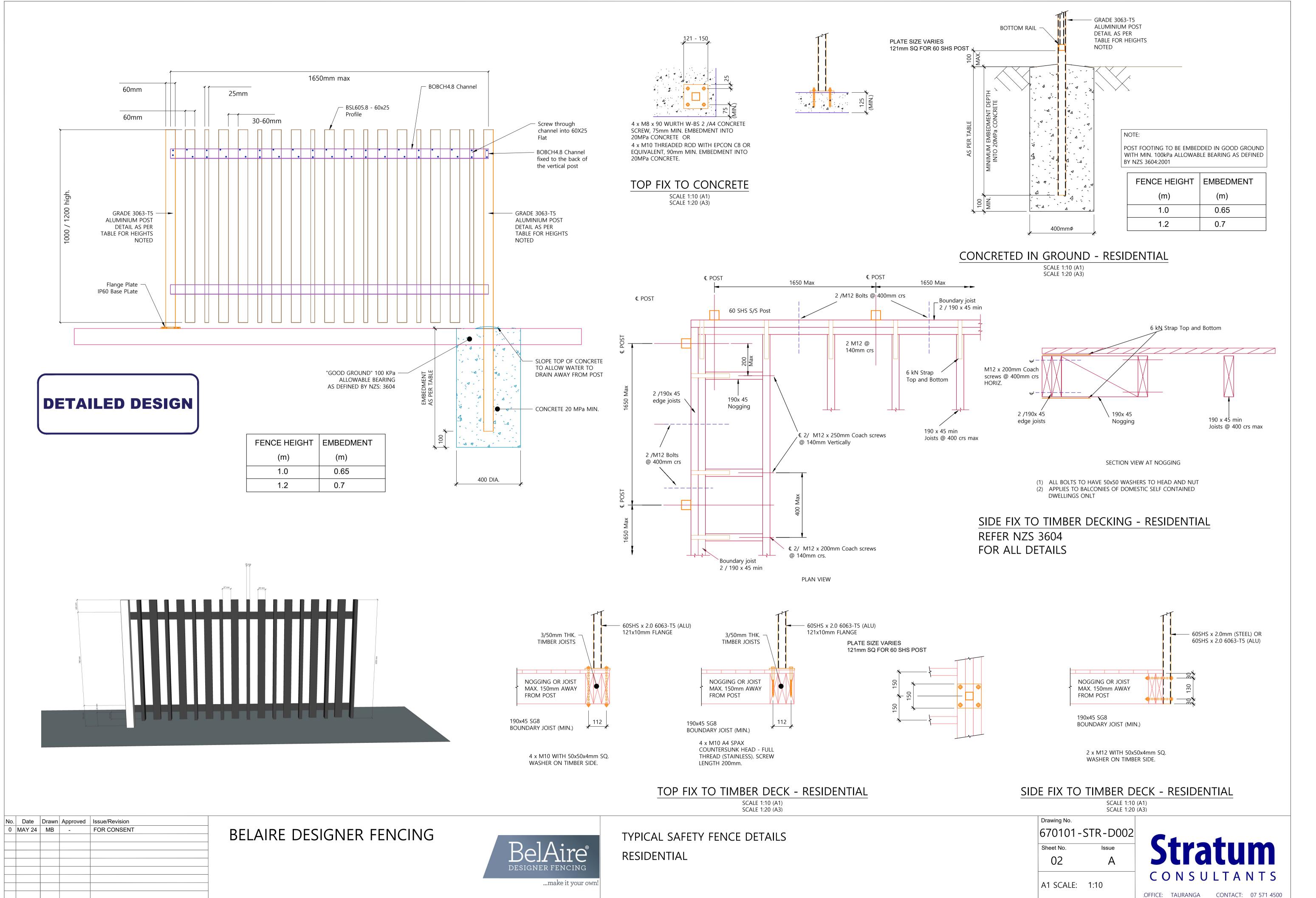
BELAIRE DESIGNER FENCING



STANDARD NOTES

Drawing No.
670101 - STR - D002
Sheet No. Issue
01 A
A1 SCALE: NTS





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