Moduline SafeBarrier Pro Specification Moduline

1.2m high vertical bar type - Type 2c(i)

Description: 1200 mm high barrier top fixed to 100 mm concrete slab.
Application: Concrete slab.

DRAWING NOTES

Design Scope and Compliance:
This specification covers the design of the barrier members and base fixing only, and does not cover the design of the supporting structure.
The contractor or building designer must ensure that the supporting structure can support the barrier loads.
Minimum concrete strength **20 MPa**

The barrier design complies with the New Zealand Building Code:
Section B1/ VM1 (structure)
   - AS/NZS 1170.1 barrier cat. A, B, C3 & E
   - NZS3604:2011 extra high wind zone (55m/s).
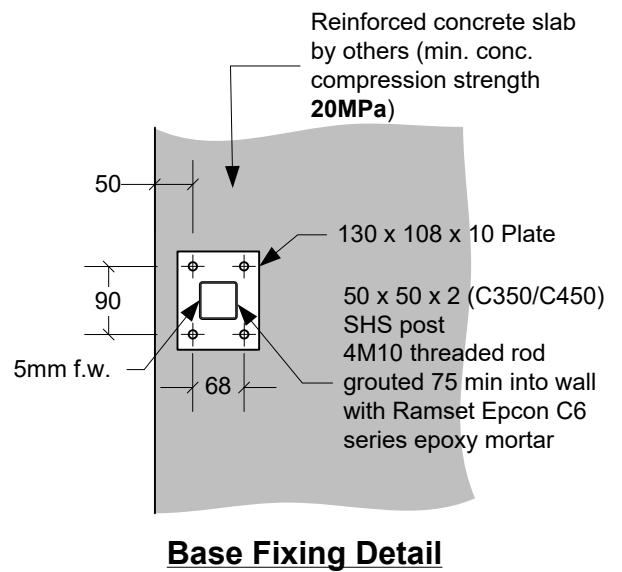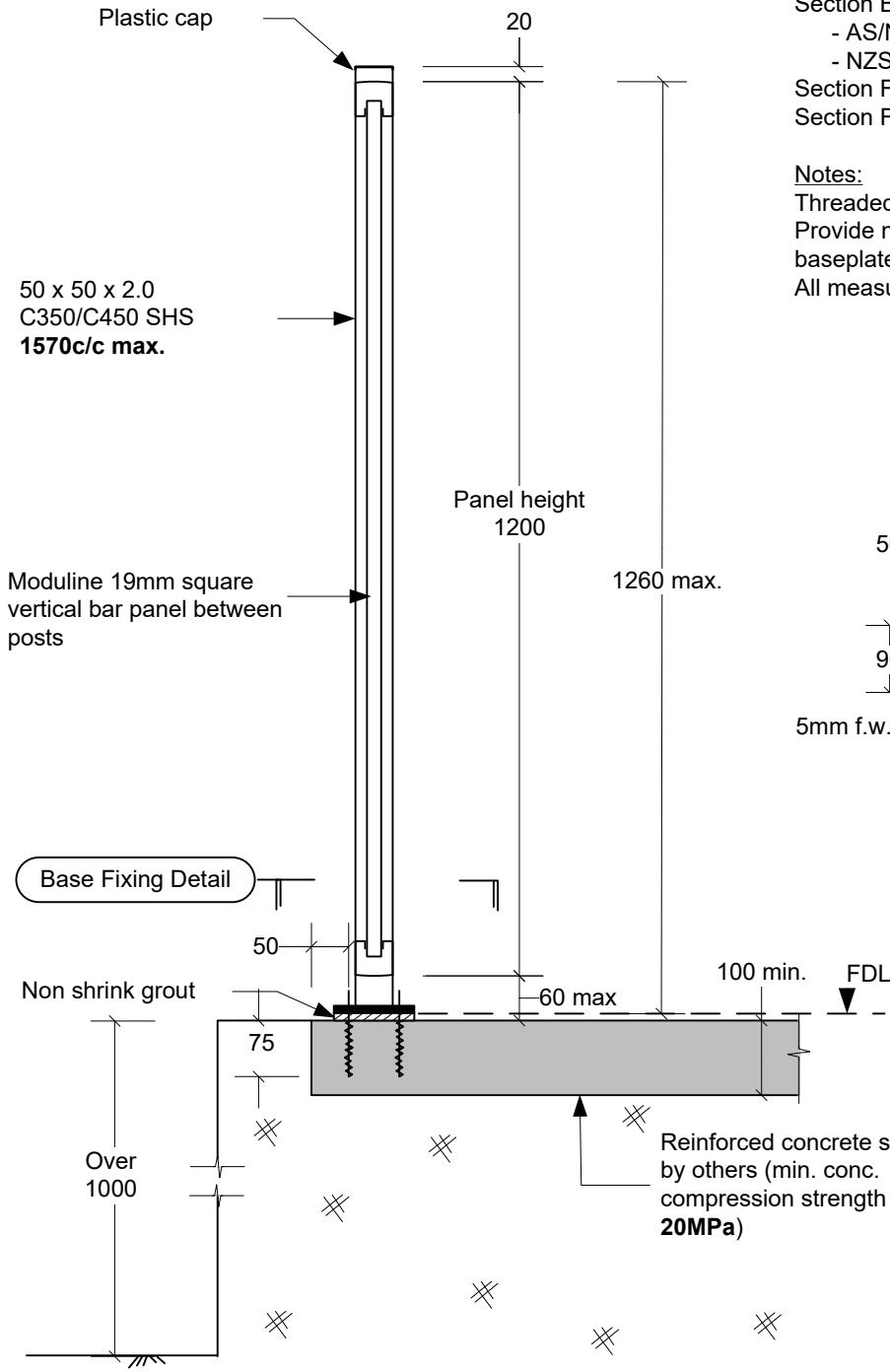Section F4/AS1 (safety from falling).
Section F9/AS1 (restricting access to residential pools).

Notes:
Threaded rod & washers shall be 316 stainless steel.
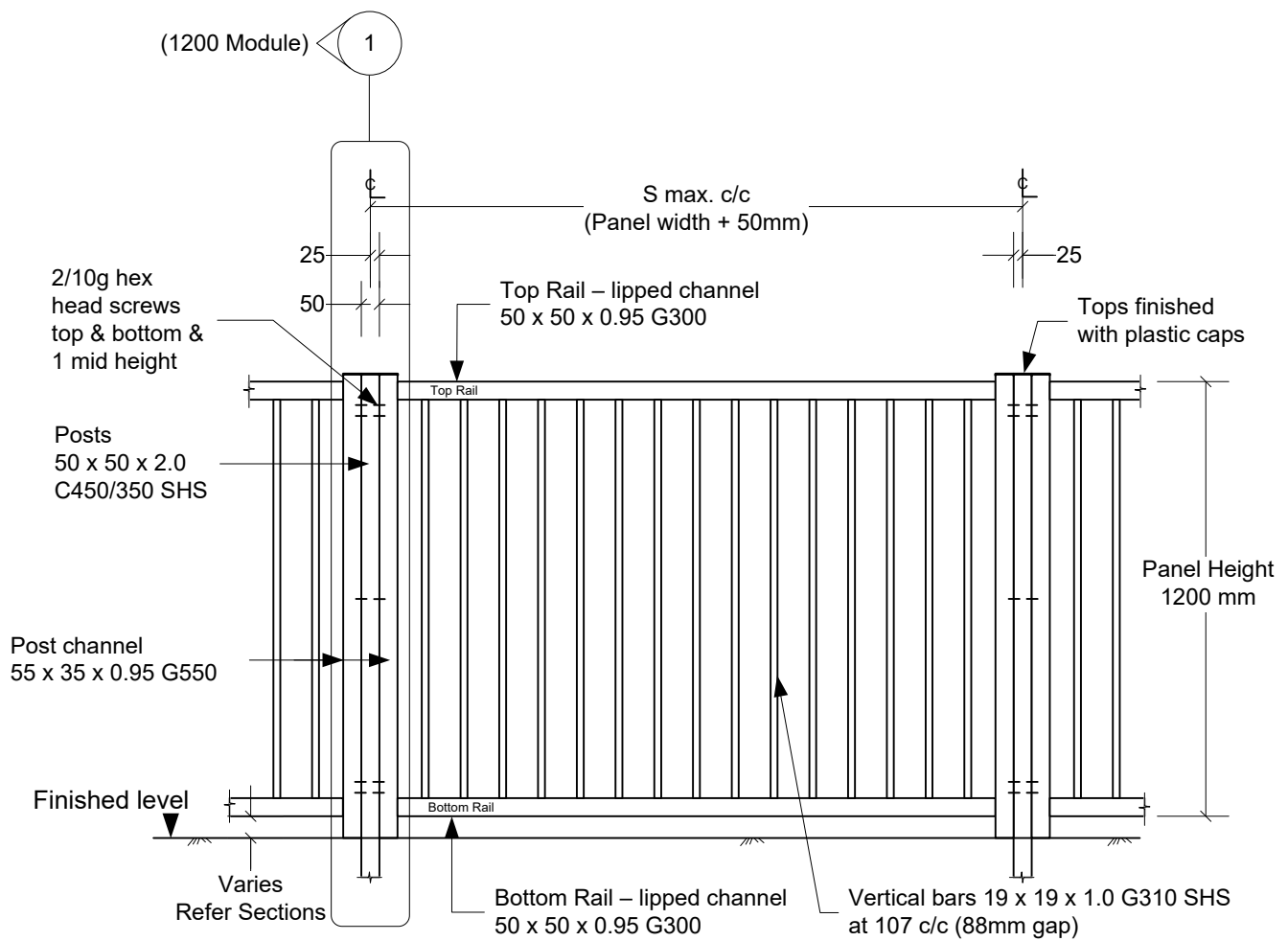Provide neoprene washers or DPC between washers and baseplate.
All measurements in mm unless stated otherwise.

Plastic cap

20

50 x 50 x 2.0
C350/C450 SHS
1570c/c max.

Panel height
1200

1260 max.

Moduline 19mm square vertical bar panel between posts

Base Fixing Detail

50

Non shrink grout

75

60 max

100 min. FDL

Over
1000

Reinforced concrete slab by others (min. conc. compression strength **20MPa**)

Reinforced concrete slab by others (min. conc. compression strength **20MPa**)

50

130 x 108 x 10 Plate

90

50 x 50 x 2 (C350/C450) SHS post
4M10 threaded rod grouted 75 min into wall with Ramset Epcon C6 series epoxy mortar

5mm f.w.

68

Base Fixing Detail

Section (1) (Scale 1:10)

Revision	Date
E	04/09/2024
D	12/01/2022
C	20/09/2019
B	14/12/2017
A	20/09/2016
-	24/03/2016

Revision	E

1

(1200 Module) — ① 1

S max. c/c
(Panel width + 50mm)

25

50

25

2/10g hex
head screws
top & bottom &
1 mid height

Top Rail – lipped channel
50 x 50 x 0.95 G300

Tops finished
with plastic caps

Top Rail

Posts
50 x 50 x 2.0
C450/350 SHS

Post channel
55 x 35 x 0.95 G550

Panel Height
1200 mm

Finished level

Bottom Rail

Varies
Refer Sections

Bottom Rail – lipped channel
50 x 50 x 0.95 G300

Vertical bars 19 x 19 x 1.0 G310 SHS
at 107 c/c (88mm gap)

Notes:
All measurements in mm unless stated otherwise.

1.2m high vertical bar type - Type 2
(See specification sheet for detail)
(Scale 1:20)

C	04/09/2024
B	20/09/2019
A	20/09/2016
-	24/03/2016
Revision	**Date**

Revision	**C**

2

Moduline SafeBarrier Pro Specification

1.2m high solid panel type - Type 2c(i)

Description: 1200 mm high barrier top fixed to 100 mm concrete slab.
Application: Concrete slab.

DRAWING NOTES
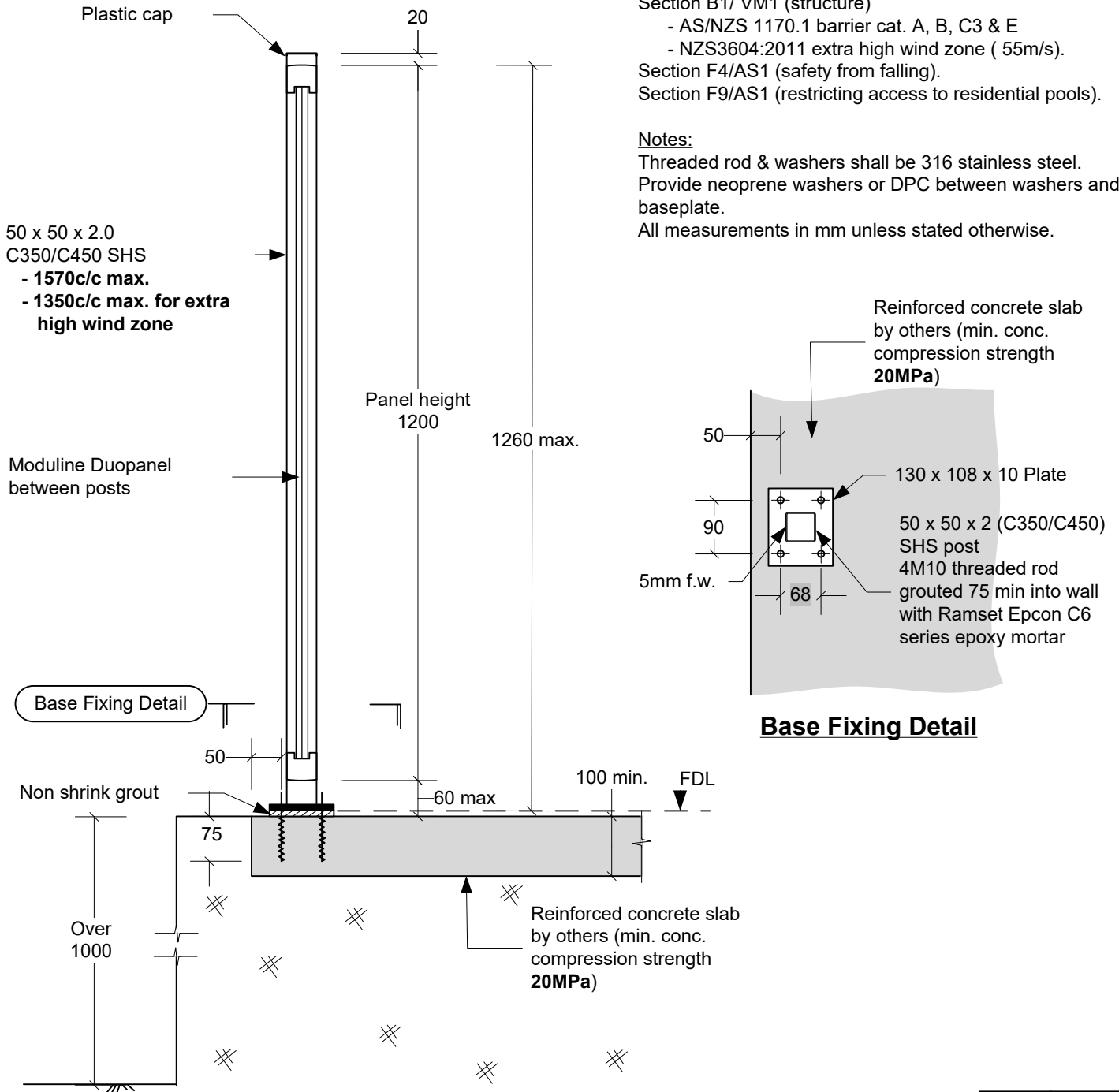
Design Scope and Compliance:
This specification covers the design of the barrier members and base fixing only, and does not cover the design of the supporting structure.
The contractor or building designer must ensure that the supporting structure can support the barrier loads.
Minimum concrete strength **20 MPa**

The barrier design complies with the New Zealand Building Code:
Section B1/ VM1 (structure)
   - AS/NZS 1170.1 barrier cat. A, B, C3 & E
   - NZS3604:2011 extra high wind zone (55m/s).
Section F4/AS1 (safety from falling).
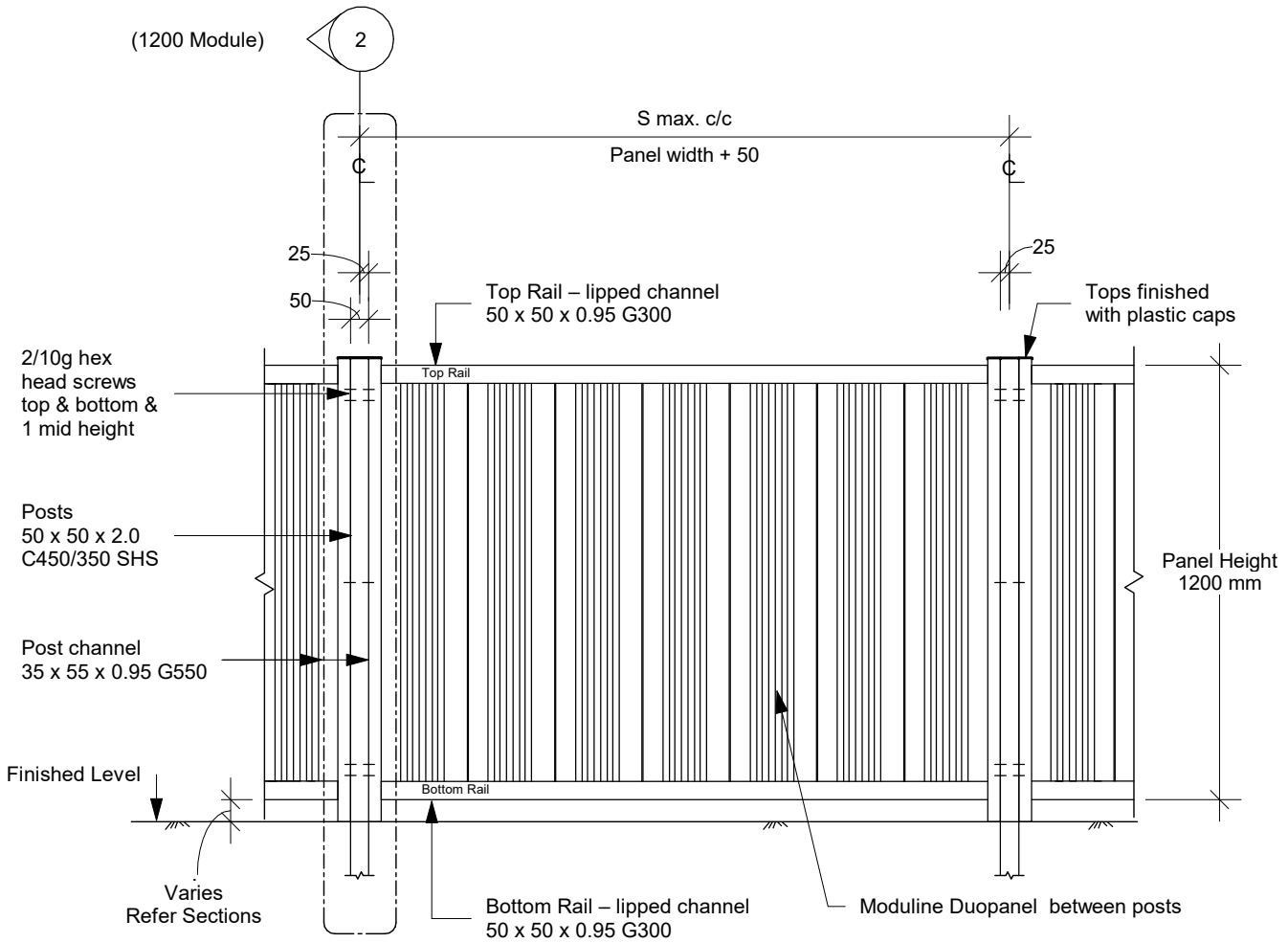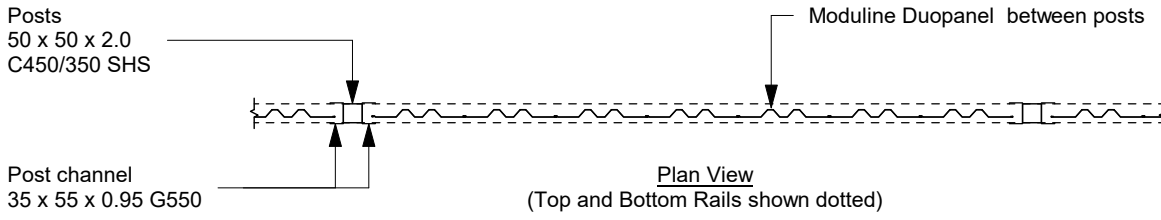Section F9/AS1 (restricting access to residential pools).

Notes:
Threaded rod & washers shall be 316 stainless steel.
Provide neoprene washers or DPC between washers and baseplate.
All measurements in mm unless stated otherwise.

Plastic cap

20

50 x 50 x 2.0
C350/C450 SHS
 - **1570c/c max.**
 - **1350c/c max. for extra high wind zone**

Panel height 1200

1260 max.

Moduline Duopanel between posts

Reinforced concrete slab by others (min. conc. compression strength **20MPa**)

50

130 x 108 x 10 Plate

90

50 x 50 x 2 (C350/C450) SHS post
4M10 threaded rod grouted 75 min into wall with Ramset Epcon C6 series epoxy mortar

5mm f.w.

68

Base Fixing Detail

Base Fixing Detail

50

100 min.　FDL

Non shrink grout

75

60 max

Over 1000

Reinforced concrete slab by others (min. conc. compression strength **20MPa**)

B	04/09/2024
A	12/01/2022
-	20/09/2019
Revision	**Date**

Revision	**B**

Section (**2**) (Scale 1:10)

3

Posts
50 x 50 x 2.0
C450/350 SHS

Moduline Duopanel between posts

Post channel
35 x 55 x 0.95 G550

Plan View
(Top and Bottom Rails shown dotted)

(1200 Module)

2

S max. c/c
Panel width + 50

C

C

25

25

50

Top Rail – lipped channel
50 x 50 x 0.95 G300

Tops finished
with plastic caps

2/10g hex
head screws
top & bottom &
1 mid height

Top Rail

Posts
50 x 50 x 2.0
C450/350 SHS

Panel Height
1200 mm

Post channel
35 x 55 x 0.95 G550

Finished Level

Bottom Rail

Varies
Refer Sections

Bottom Rail – lipped channel
50 x 50 x 0.95 G300

Moduline Duopanel between posts

Notes:
All measurements in mm unless stated otherwise.

1.2m high solid panel type - Type 2
(See specification sheet for detail)

(Scale 1:20)

A	04/09/2024
-	20/09/2019
Revision	Date

Revision	A

4

Building Code Clause(s)   B1, F4

PRODUCER STATEMENT - PS1 - DESIGN

ENG REF: **7327 Type 2c(i)**

ISSUED BY   **Anthony Marino (for Marino Consultants and Associates Ltd)**
(Design Firm)

TO: **Metal Rollforming Ltd**
(Owner/Developer)

TO BE SUPPLIED TO: **Various**
(Building Consent Authority)

IN RESPECT OF: **Moduline SafeBarrier Pro 1.2m high - Type 2c(i)**
(Description of Building Work)

AT: **Non-Specific,**
(Address)

LOT: **DP:**   **SO:**

We have been engaged by the owner/developer referred to above to provide specific structural design services in respect of the requirements of Clause(s)   B1, F4   of the Building Code for

☐ All   or   ☑ Part only (as specified in the attachment to this statement, ref: 7327 Type 2c(i)), 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 and Employment
       B1/VM1 (NZS3603, AS/NZS1170, NZS3404), F4/AS1

☑ Alternative solution as per the attached schedule   **Ramset Specifiers Anchoring Resource Book 2015**

The proposed building work covered by this producer statement is described on the drawings titled

Moduline SafeBarrier Pro 1.2m high - Type 2c(i)   and numbered   **1, 2, 3, 4**

together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

       (i) Site verification of the following design assumptions:
              Strength of supporting structure by others

       (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b) the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:
              - Not required

I, **Anthony Lewis Marino**   am   *CPEng No* **69890**

I am a member of Engineering New Zeaaland and hold the following qualifications: **BEHons., CPEng.**

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than $200,000.
The Design Firm is a member of ACENZ: ☐

SIGNED BY   **Anthony Marino (B.E.(hons), CPEng (Civil and Structural), CMEngNZ, SESOC)**

ON BEHALF OF   **Marino Consultants and Associates Ltd.**

DATE   **09/09/2024**

57 Stace Hopper Drive, One Tree Point 0118
(021) 518 171 (Mobile)
anthony.marino@outlook.co.nz (Email)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to $200,000

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