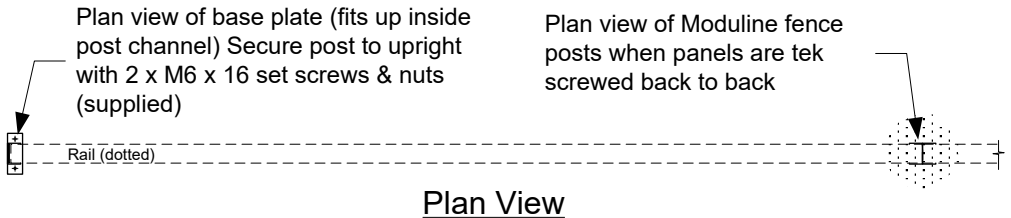
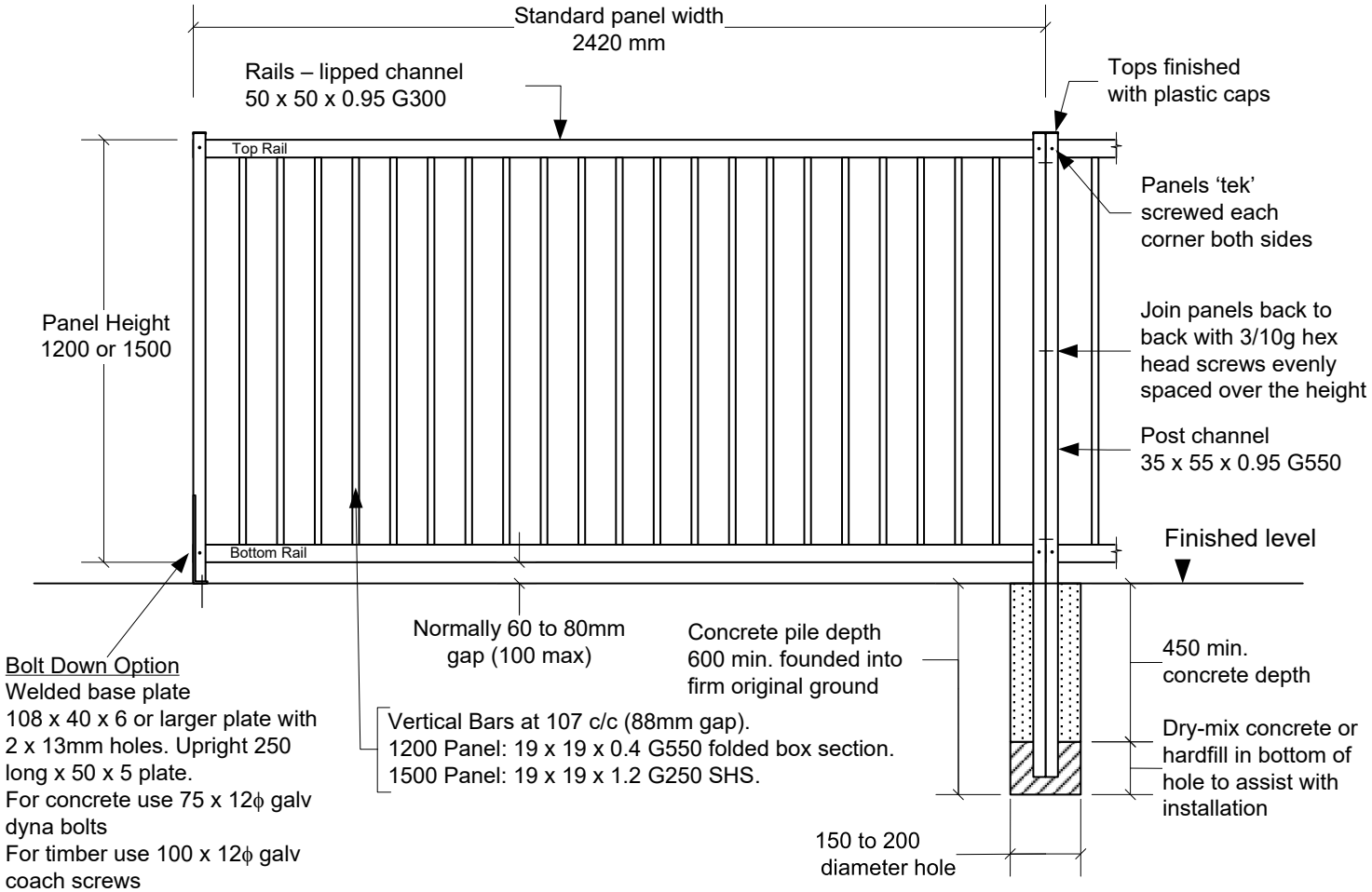
MODULINE POOLSIDE FENCING

SPECIFICATION FOR STANDARD RESIDENTIAL POOL SAFETY FENCING
1200 – 1500 Height



Plan View



Notes:

- Fence components comply with NZBC F9 tests in accordance with NZS 8500 Appendicies C, D & E
- Nogging under the deck may be required. Coach screws must screw into solid timber
- Strength of the supporting structure is not covered by this specification. Post fixing strength may be confirmed by loan test load test in accordance with NZS 8500:2006 Appendix 'C' + 'D'
- All measurements in mm unless stated otherwise.

Pool Gate Support Post and Base Fixing:

Pool gate support post: 50 x 50 x 1.55 C250 SHS
Bolted Baseplate: 133 x 133 x 6 plate, 4 x 13ϕ fixing holes, welded to bottom of post. Or Embedded post as per pile detail shown above.

Revision	Date
C	20/09/2019
B	25/01/2019
A	19/01/2018
-	20/12/2017

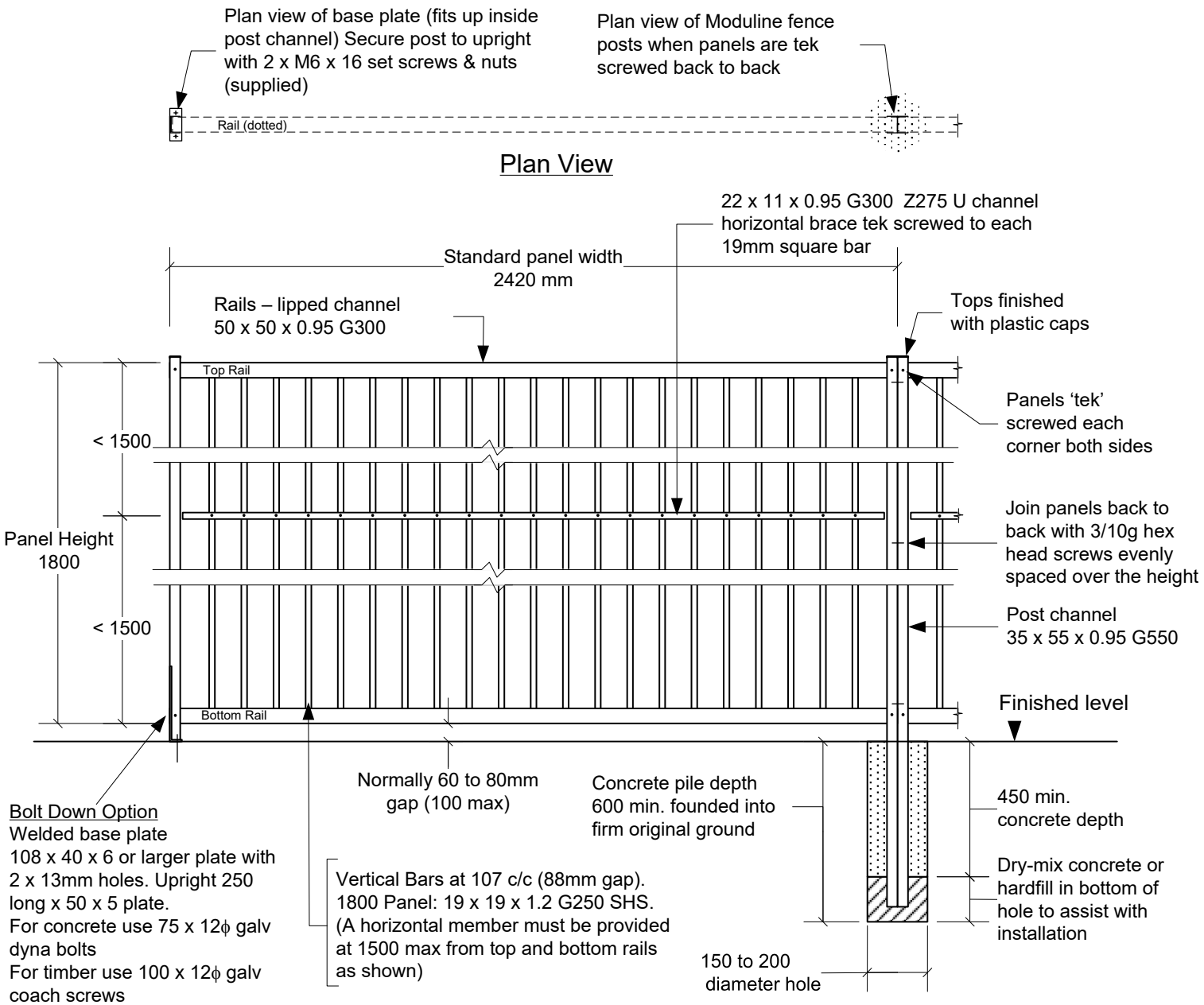
(Scale 1:20)

Revision	C

METAL ROLLFORMING LIMITED
39 THOMAS PEACOCK PL, PANMURE, PO BOX 18-217, AUCKLAND 1743, PHONE (09)527-7897, FAX (09) 527-7896

MODULINE POOLSIDE FENCING

SPECIFICATION FOR STANDARD RESIDENTIAL POOL SAFETY FENCING
1800 mm Height



Notes:

- Fence components comply with NZBC F9 tests in accordance with NZS 8500 Appendicies C, D & E
- Nogging under the deck may be required. Coach screws must screw into solid timber
- Strength of the supporting structure is not covered by this specification. Post fixing strength may be confirmed by loan test load test in accordance with NZS 8500:2006 Appendix 'C' + 'D'
- All measurements in mm unless stated otherwise.

Pool Gate Support Post and Base Fixing:

Pool gate support post: 50 x 50 x 1.55 C250 SHS
Bolted Baseplate: 133 x 133 x 6 plate, 4 x 13ϕ fixing holes, welded to bottom of post. Or
Embedded post as per pile detail shown above.

-	20/09/2019
Revision	**Date**

(Scale 1:20)

Revision	-

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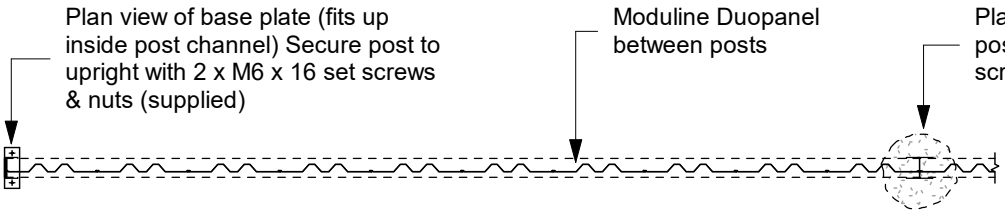
MODULINE POOLSIDE FENCING

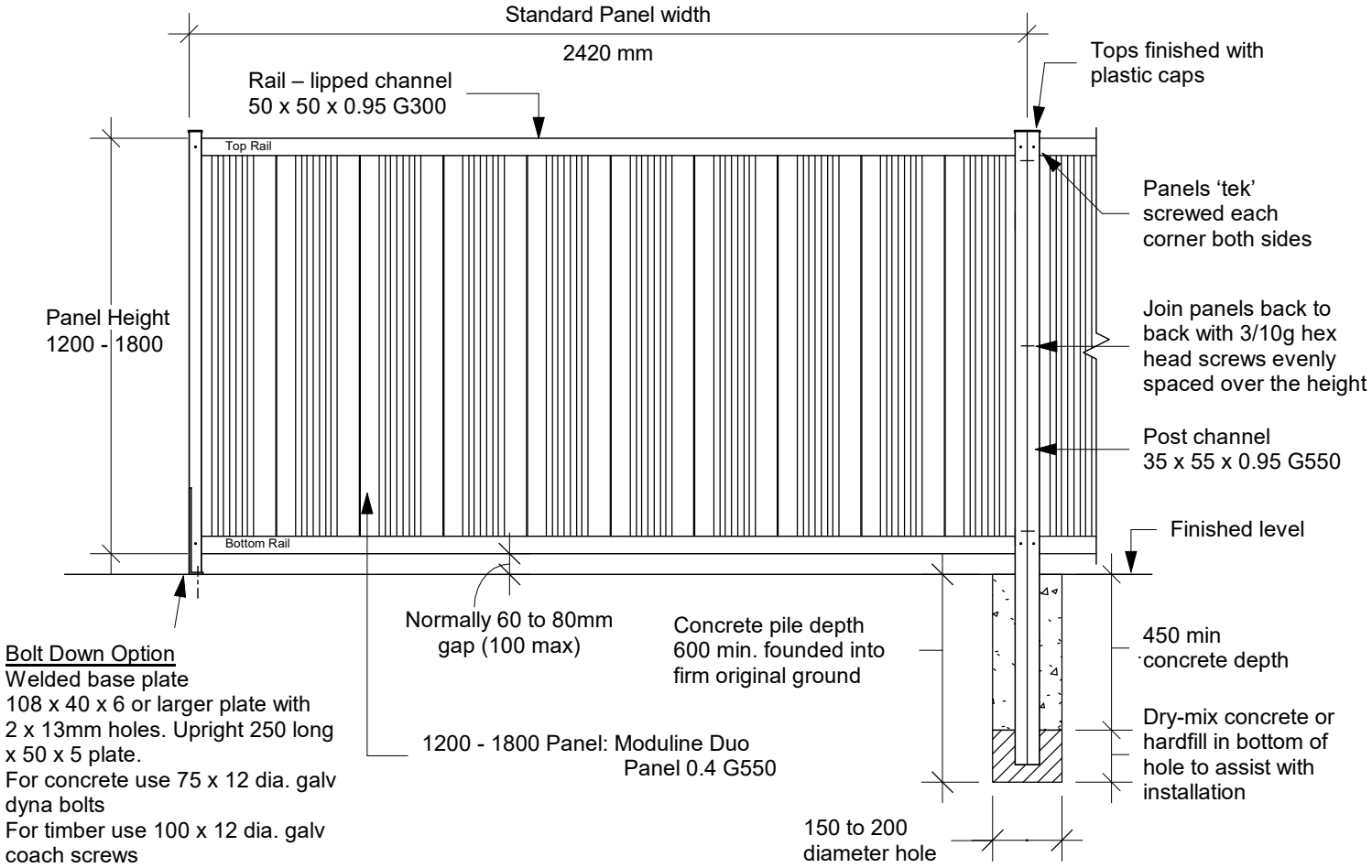
SPECIFICATION FOR COLORSCREEN RESIDENTIAL POOL SAFETY FENCING

(1200 - 1800 Height)



Plan View

(Top and Bottom Rails shown dotted)



Bolt Down Option
Welded base plate
108 x 40 x 6 or larger plate with 2 x 13mm holes. Upright 250 long x 50 x 5 plate.
For concrete use 75 x 12 dia. galv dyna bolts
For timber use 100 x 12 dia. galv coach screws

Notes:

- Fence components comply with NZBC F9 tests in accordance with NZS 8500 Appendicies C, D & E
- Nogging under the deck may be required. Coach screws must screw into solid timber
- Strength of the supporting structure is not covered by this specification. Post fixing strength may be confirmed by loan test load test in accordance with NZS 8500:2006 Appendix 'C' + 'D'
- All measurements in mm unless stated otherwise.

Pool Gate Support Post and Base Fixing:

Pool gate support post: 50 x 50 x 1.55 C250 SHS
Bolted Baseplate: 133 x 133 x 6 plate, 4 x 13dia. fixing holes, welded to bottom of post. Or
Embedded post as per pile detail shown above.

-	20/09/2019
Revision	Date

(Scale 1:20)

Revision	-

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Building Code Clause(s) B1,F9

PRODUCER STATEMENT - PS1 - DESIGN

ENG REF: 7327 Pool

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 Pool Fence***
(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,F9 of the Building Code for

☐ All or ☑ Part only (as specified in the attachment to this statement, ref: 7327 pool), 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, NZS3404), F9/AS1***

☐ Alternative solution as per the attached schedule

The proposed building work covered by this producer statement is described on the drawings titled ***Moduline Poolside Fencing*** and numbered ***1, 2, 3***

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 (observation by Council)

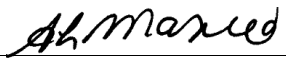
I, ***Anthony Lewis Marino*** am *CPEng No* ***69890***

I am a member of Engineering New Zealand 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 **15/12/2021**

57 Stace Hopper Drive, One Tree Point, 0118
(09) 489-1263 (Phone) *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.

Residential Pool Fences
Means of Compliance - NZBC section F9 - AS1 (April 2017)

Testing in acordance with F9-AS1 cl.2.4 (NZS8500 Appendices C,D,E)

Test 1 - Appendix C - Strength and rigidity of barrier / fence openings

CONE TEST - test stiffness of 19*19 infill panel members

Taken at mid height
Load 15Kg
Measure Cone cannot pass through

panel height	Gauge		Pass/Fail
1.2 standard G550 folder shs	0.40		**pass**
1.2 HD G310 SHS	1.00		**pass**
1.5 HD G250 SHS	1.20		**pass**
1.8 HD G250 SHS	1.60		**Fail**
1.8 HD G250 SHS	1.60	rail at 1500 height max	**pass**
Duo panel	0.40	Not	Applicable

Test 2 - Appendix D - Strength tests for posts

Flat end of cone 105mm dia	load height	defln	
Fence post in ground Std channel back to back	1.2		**pass**
Fence post bolted down	1.2	16mm	**pass**
50x50x2.0 square post in ground	1.2		**pass**
50x50x2.0 square post bolted down	1.2	11mm	**pass**

Gate post - gate to close when load applied to post
Load 33Kg

Test 3 - Appendix E - Strength tests for rigid barrier/fence components

Flat end of cone 105mm dia
Rail at mid span
19m square bars at mid point
Load [i] 25Kg inspect for permanent deformation
[ii] 33Kg Inspect for signs of fracture or loosening
permanent deformation < 10mm

panel height	Gauge	[i]	[ii]
1.2 standard G550 folder shs	0.40	pass	pass
1.2 HD G310 SHS	1.00	pass	pass
1.5 HD G250 SHS	1.20	pass	pass
1.8 HD G250 SHS	1.60	not tested failed test 1	
Duo panel 1.2m - 1.8m	0.40	pass	pass

Gate
Load 33Kg check gate can close when load applied
result= **pass**