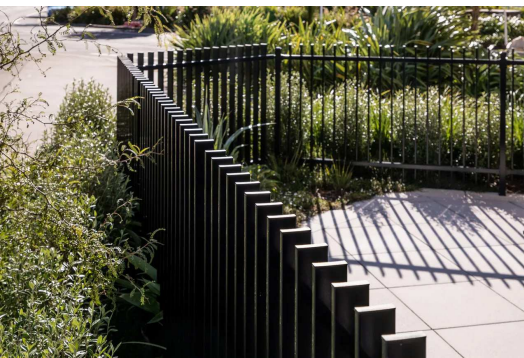
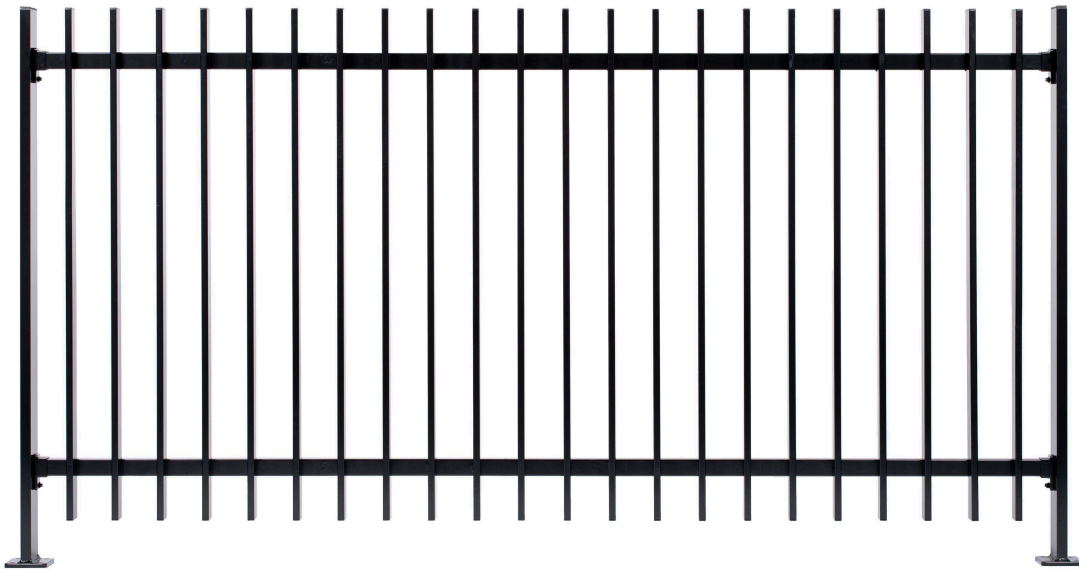


**Producer
Statement - PS1**



Paladin Panel PS1

FOR: Pool Fencing





Building Code Clause(s) B1

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY: Structural Engineers NZ Ltd
(Design Firm)

TO: Urban Group
(Owner/Developer)

TO BE SUPPLIED TO: Any Territorial Authority
(Building Consent Authority)

IN RESPECT OF: Structural Design of a Standard Aluminium Pool Fence
(Description of Building Work)

AT: Any location in New Zealand where the loading class stipulated on the drawings is applicable
(Address)

Town/City: **LOT** **DP** **SO**
(Address)

We have been engaged by the owner/developer referred to above to provide:

Structural Engineering

(Extent of Engagement)

services in respect of the requirements of Clause(s) B1 of the Building Code for:

All or Part only (as specified in the attachment to this statement), 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 B1/VM1 & B1/VM4 or
(verification method/acceptable solution)

Alternative solution as per the attached schedule.....

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

Refer to attached schedule and numbered Refer to attached schedule ;
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 Refer to attached schedule
- (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:

CM1 CM2 CM3 CM4 CM5 (Engineering Categories) or as per agreement with owner/developer (Architectural)

I, Sadeer Kattan am: CPEng 1013983 # Reg Arch #
(Name of Design Professional)

I am a member of: Engineering New Zealand NZIA and hold the following qualifications: BE (Hons) CPEng CEng

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 Sadeer Kattan (Signature) Sadeer Kattan Digitally signed by Sadeer Kattan
Date: 2022.07.07 13:34:06 +1200
(Name of Design Professional)

ON BEHALF OF Structural Engineers NZ Ltd Date: 07/07/2022
(Design Firm)

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 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.
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA

SCHEDULE

*From Page 1:

On behalf of the design firm and subject to site verification of the following design assumptions:

1. The supporting structure, as designed by others, is able to withstand the applied loads. This must be effectively communicated with the building owner or manager. SENZ takes no responsibility should this not be followed.
2. The installation of the pool fence is in accordance with the limits and specifications as set out on the drawing listed below.
3. The pool fence has only been designed against the loads outlined in section 4 and Appendices D & E of NZS 8500:2006. I.e., the fence is not suitable as a fall prevention barrier.
4. The pool fence is limited to areas up to "High" wind zone only, as defined in NZS 3604:2011. Purchaser shall be responsible for verifying the site wind zone. SENZ shall be notified should the client be uncertain about the wind zoning of the site. SENZ and Urban Group takes no responsibility should this not be followed.

DRAWINGS:

Drawing Number	Sheet	Revision	Date	Description
055-057-SK01	1	2	07/07/2022	1200H PALADIN POOL FENCING



Structural Engineers New Zealand

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• +64 275 6029 (Day) • +64 9 8899 350 (Evening)

Ferguson Stewart
Urban Group (NZ) Ltd

07 July 2022

By email

Re: Urban Group Paladin Pool Fence – Review against Clause B2 of the Building Code.

Structural Engineers New Zealand (SONZ) were requested to carry out a review of the Urban Group Standard Paladin Pool Fence against clause B2 (Durability). SONZ have carried out a full structural design check of the balustrades to meet clause B1 of the Building Code against the design loads as listed in NZS 8500:2006. The structural design works are detailed in Urban Group drawings 055-057-SK01 rev 2.

With regards to clause B2 – Durability, SONZ believe that the aluminium pool fence will inherently have the required corrosion resistance. The aluminium will be powder coated as an additional level of protection. All fixing specified are either Stainless Steel, or isolated from aluminium with rubber isolation.

A handwritten signature in black ink, appearing to read 'Sadeer Kattan', is positioned above the typed name.

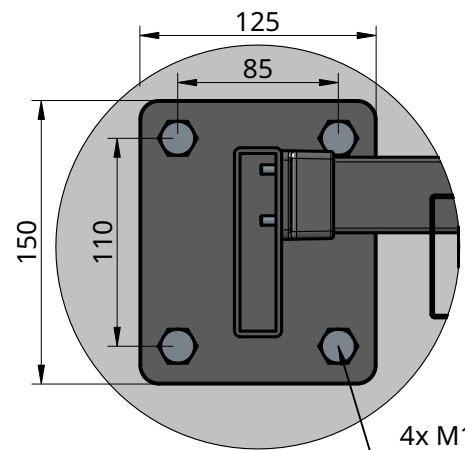
Sadeer Kattan BE (Hons) CPEng CMEngNZ

Chartered Professional Engineer

Structural Engineers NZ Ltd

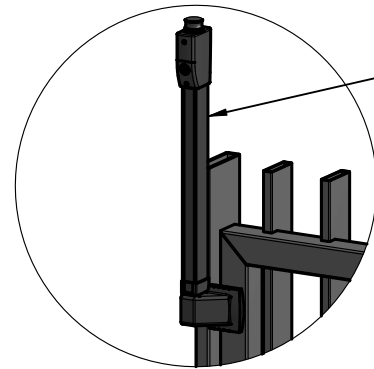
- NOTES
1. Pool fence shall be aluminium alloy 6060 T5, non welded except where the vertical balusters welding unless noted otherwise.
 2. Isolation rubber or similar shall be provided between aluminium and galvanised steel.
 3. All connections shall be stainless steel or hot dip galvanised.
 4. Existing structure is assumed to be adequate to resist the applied handrail loads.
 5. Existing or new concrete footings shall have a minimum 17.5 mpa compressive strength.
 6. Design of piles is based on "good ground" soil conditions as defines in NZS3604.
 7. The fence is suitable for wind loading up to "high" wind zones.

Urban Group has taken care to design and create this drawing based on our interpretation of information provided by the customer. Sole responsibility sits with the customer to review and approve this drawing and to ensure that the finished product will be suitable for use as intended. No liability sits with Urban Group if the product is made as per the details shown on the drawing and is then not suitable for use. Any changes in measurements, quantities, sizing, colour must be captured on this drawing and a new revision created. The final revision is then approved by the customer prior to manufacture. At this point the customer accepts responsibility that the information is correct. Any changes during the design stages that we not originally allowed for, eg adding a rake or changing materials, may be chargeable. If the drawing has been completed and the order is cancelled or does not proceed, a drawing and design fee of \$300 + GST may be chargeable. All measurements are shown in millimetres, drawings are shown from the outside looking in.



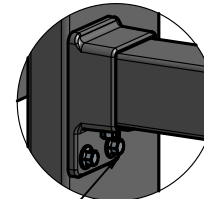
A
1:4

4x M10x75 Screw Bolts, Minimum 60mm From Edge Of Concrete
10mm Thick 5052 H32 Baseplate



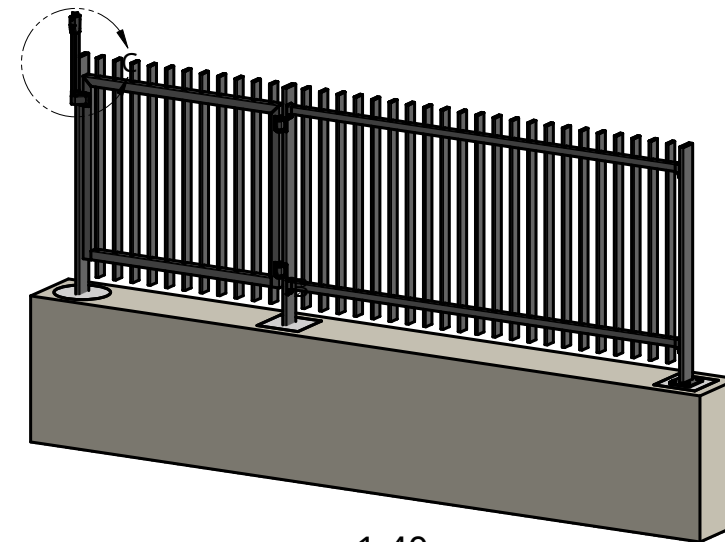
C
1:12

Vertical Top Pull Latch

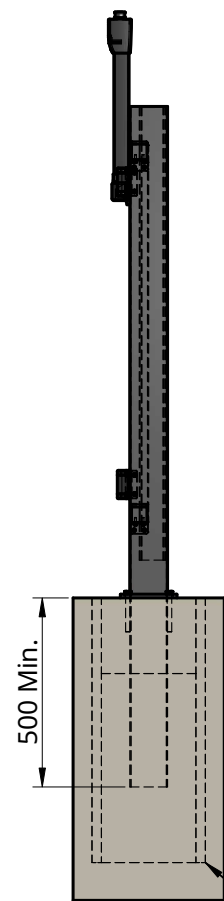
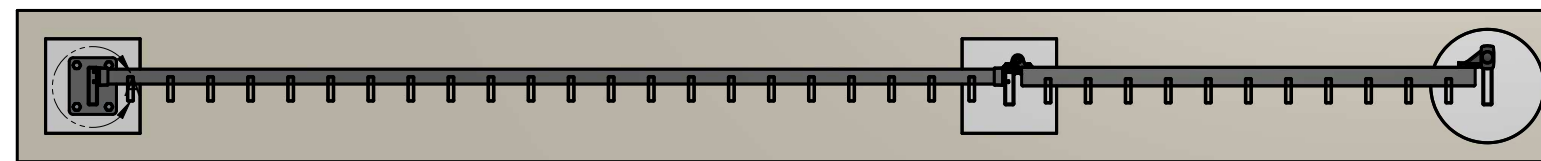


B
1:4

Panels Fixed With Rail Bracket With 2 x 10G Tek Screws Into Post & 2 x 10G Tek Screws Into 40x2 SHS Horizontal



1:40



300 Dia. Or 250 Sq. Concrete For Each Post, 700mm Deep Into "Good Ground"

