

# Moduline SafeBarrier Pro Specification

## 1.0m high vertical bar type - Type 1g(ii) (Screw Fixings)

**Description:** 1000 mm high barrier side fixed with screws to timber pole retaining wall.

**Application:** Pole retaining wall – screwed connection.

### DRAWING NOTES

**Design Scope and Compliance:**

This specification covers the design of the Moduline barrier members and fixings and the timber retaining wall top rail only.

The contractor or building designer must ensure that the supporting retaining wall structure can support the barrier loads.

The barrier design complies with the New Zealand Building Code:

Sec. B1/ VM1 (structure)

- AS/NZS 1170.1 barrier cat. A, B, C3 & E

- NZS3604:2011 extra high wind zone ( 55m/s).

Sec. F4/AS1 (safety from falling).

**Notes:**

Screws and washers shall be 316 stainless steel.

Screws to be M10 Spax flat countersunk head, T-star fully threaded, Delta seal screws.

Screws to be embedded 70 min. into wall top rail and fully embedded into load spreader.

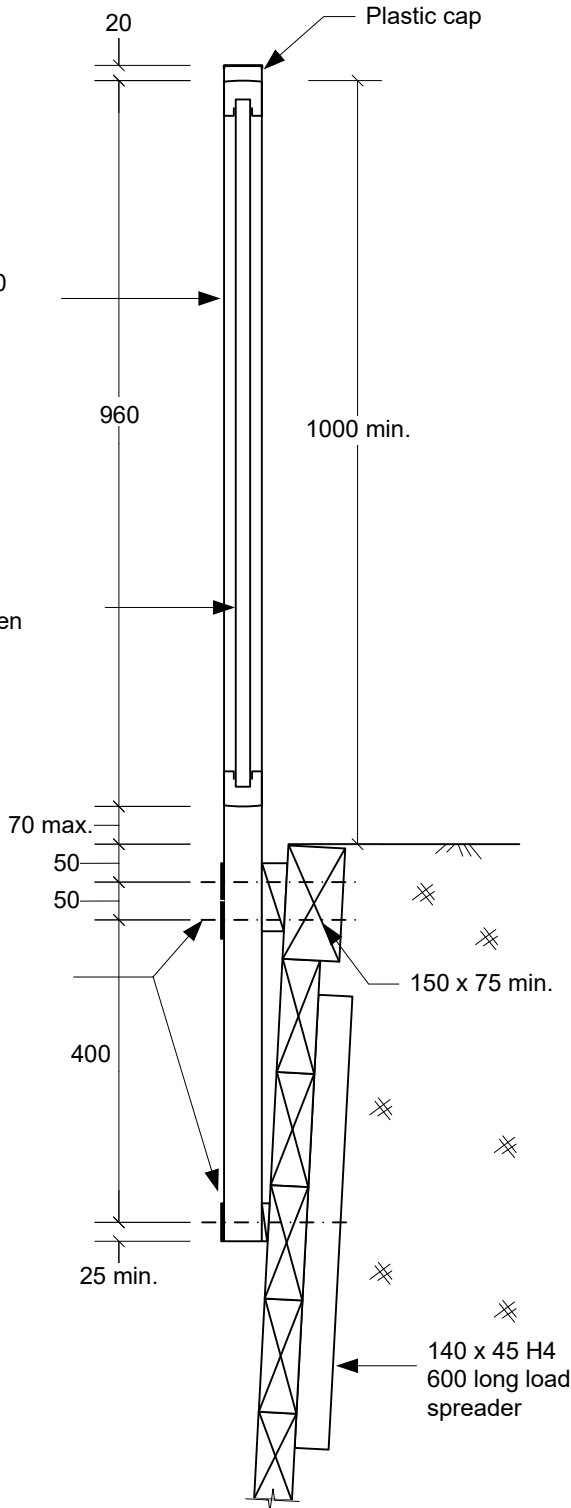
All measurements in mm unless stated otherwise.

Provide neoprene washers or DPC between washers & posts.

50 x 50 x 2.0 C350/C450  
SHS - 1000c/c

Moduline 19mm square  
vertical bar panel between  
pos

Screws (refer notes) &  
50 x 50 x 3 washers



### Retaining Wall Assumptions

Top rail size : 150 x 75 No.1 Framing

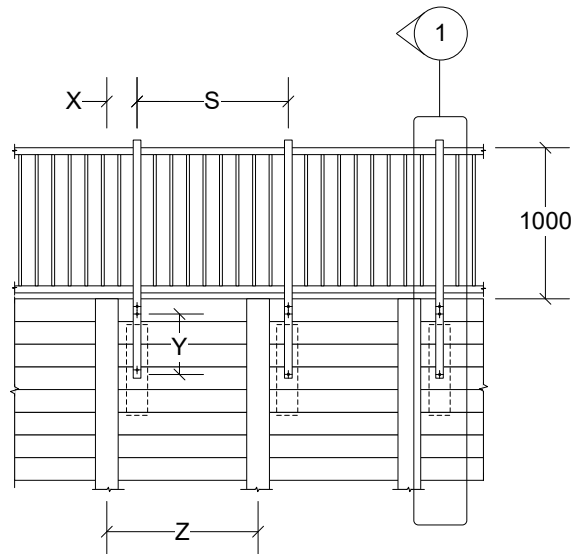
S = 1000c/c max. (Barrier post spacing )

Z = 1000c/c max. (Retaining wall pole spacing)

Y = 400c/c (Screw spacing)

X = 200 max.

(If the retaining wall specification does not meet these requirements, the wall structure must be checked by a chartered engineer to confirm the wall can support the barrier loads).

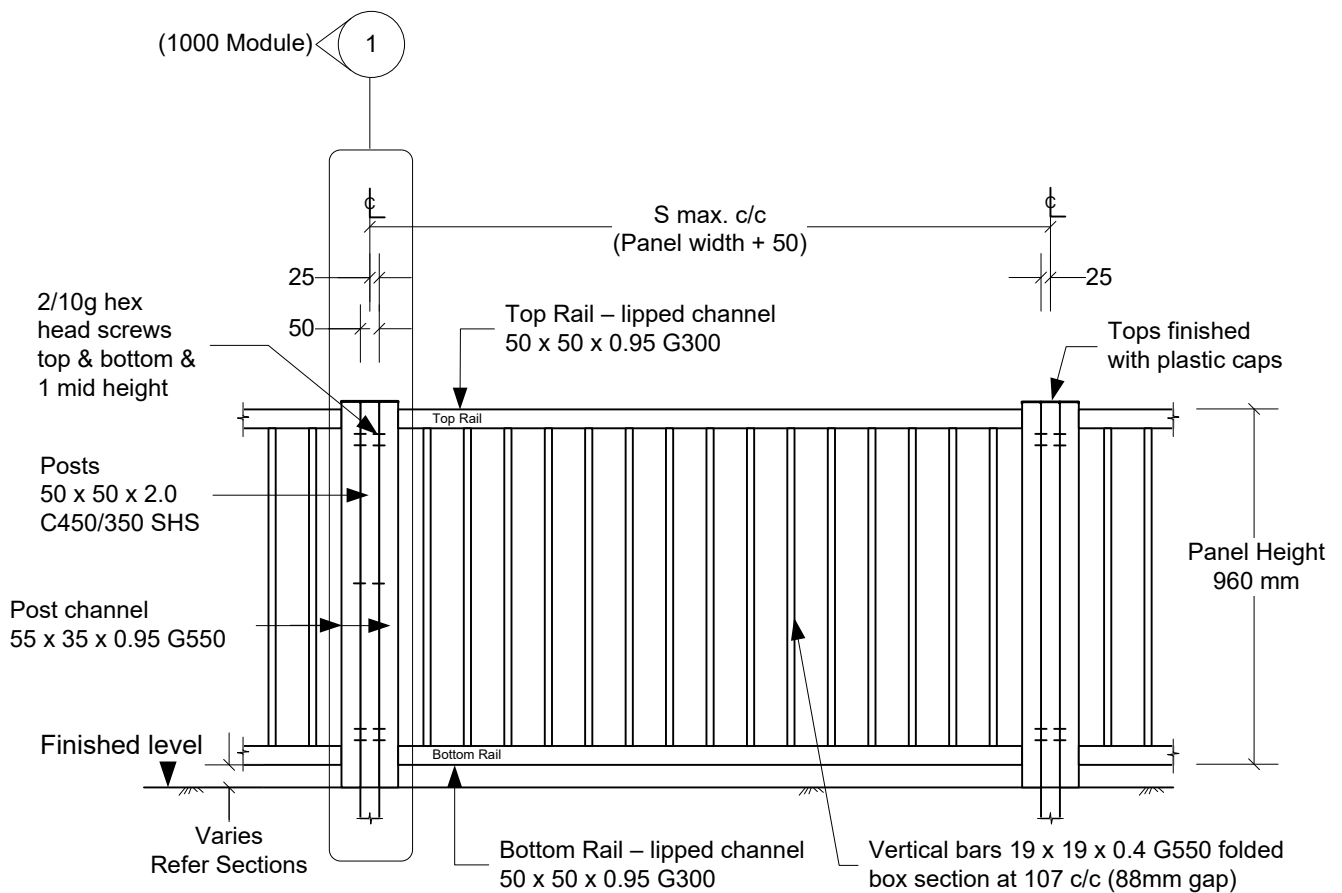


**Elevation**  
(Scale 1:50)

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

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

Revision	E
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**Notes:**

All measurements in mm unless stated otherwise.

**1.0m high vertical bar type - Type 1**  
(See specification sheet for detail)  
(Scale 1:20)

B	04/09/2024
A	20/9/2019
-	24/03/2016
<b>Revision</b>	<b>Date</b>

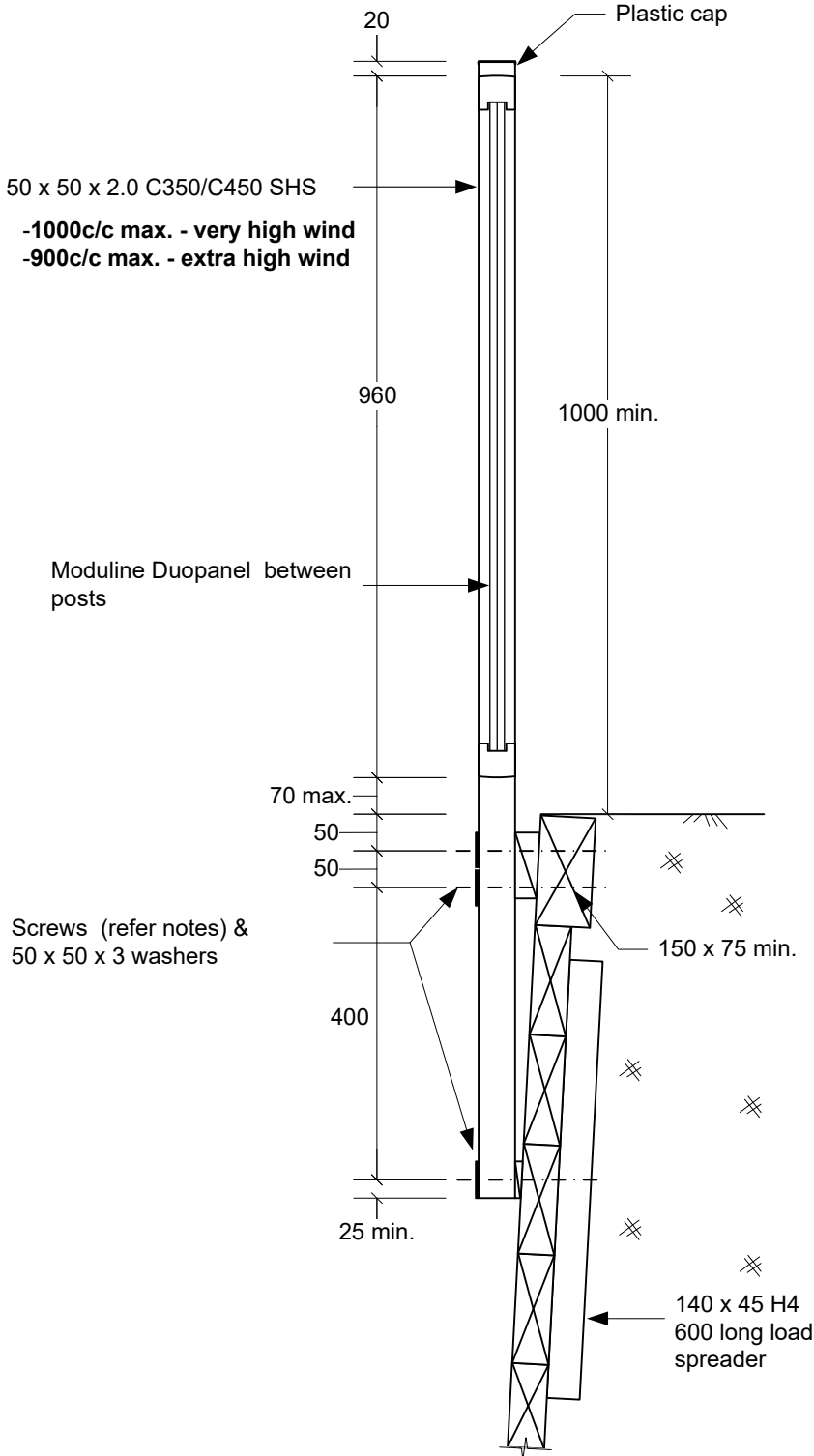
<b>Revision</b>	<b>B</b>
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# Moduline SafeBarrier Pro Specification

## 1.0m high solid panel type - Type 1g(ii) (Screw Fixings)

**Description:** 1000 mm high barrier side fixed with screws to timber pole retaining wall.

**Application:** Pole retaining wall – screwed connection.



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

### DRAWING NOTES

**Design Scope and Compliance:**

This specification covers the design of the Moduline barrier members and fixings and the timber retaining wall top rail only.

The contractor or building designer must ensure that the supporting retaining wall structure can support the barrier loads.

The barrier design complies with the New Zealand Building Code:

Sec. B1/ VM1 (structure)

- AS/NZS 1170.1 barrier cat. A, B, C3 & E

- NZS3604:2011 extra high wind zone ( 55m/s).

Sec. F4/AS1 (safety from falling).

**Notes:**

Screws and washers shall be 316 stainless steel.

Screws to be M10 Spax flat countersunk head, T-star fully threaded, Delta seal screws.

Screws to be embedded 70 min. into wall top rail and fully embedded into load spreader.

All measurements in mm unless stated otherwise.

Provide neoprene washers or DPC between washers & posts

**Retaining Wall Assumptions**

Top rail size : 150 x 75 No.1 Framing

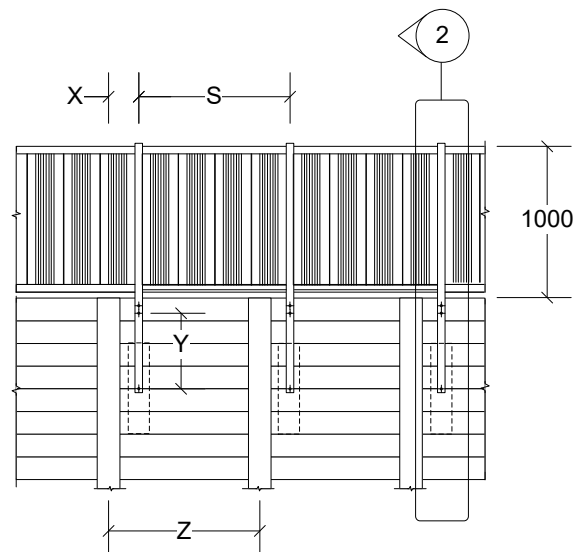
S = 900 - 1000c/c max. (Barrier post spacing - varies )

Z = 1000c/c max. (Retaining wall pole spacing)

Y = 400c/c (Screw spacing)

X = 200 max.

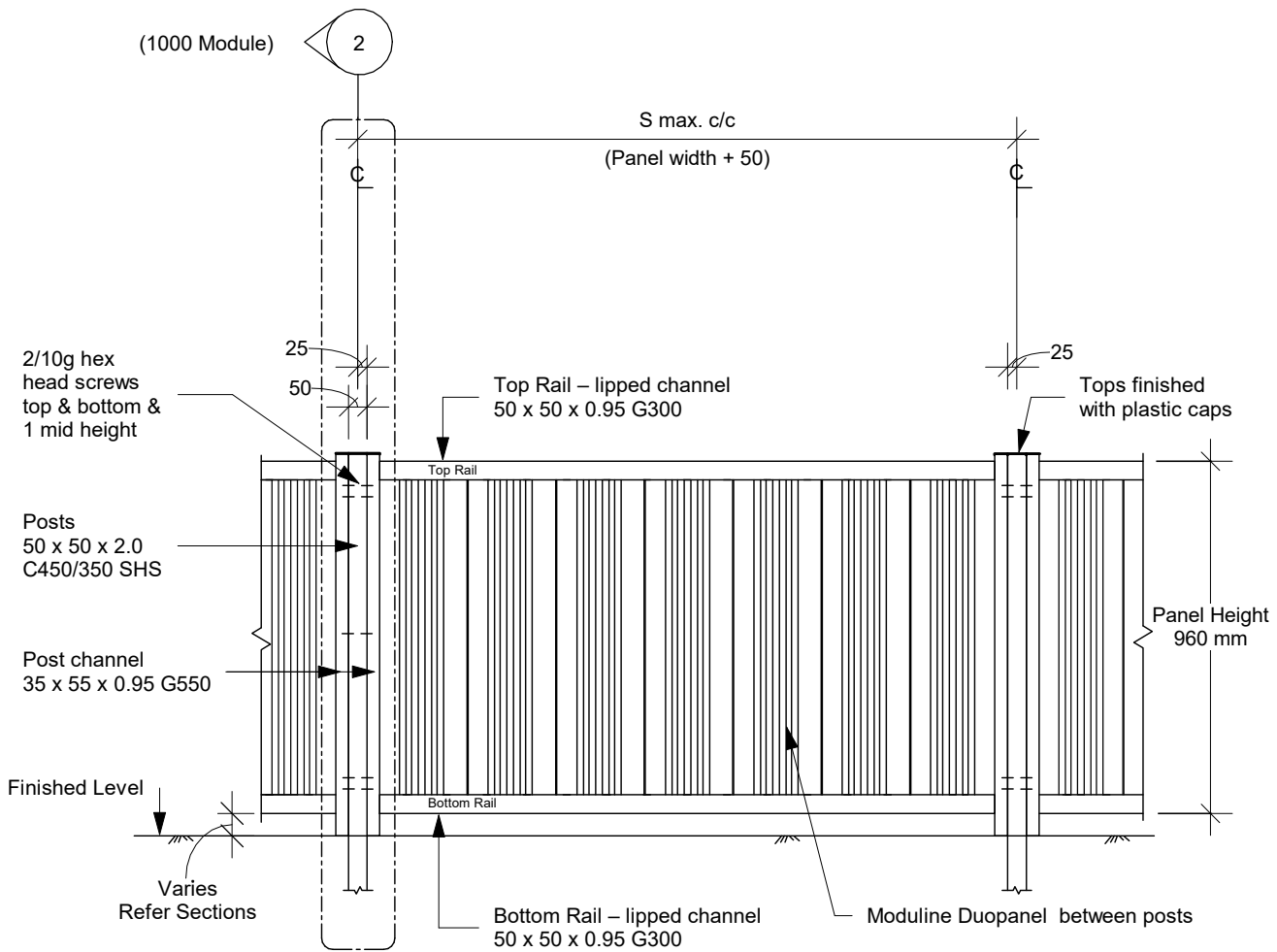
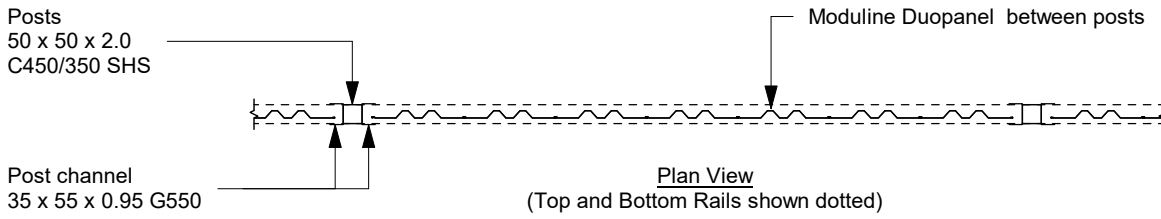
(If the retaining wall specification does not meet these requirements, the wall structure must be checked by a chartered engineer to confirm the wall can support the barrier loads).



**Elevation**  
(Scale 1:50)

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

Revision	B
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**Notes:**  
All measurements in mm unless stated otherwise.

**1.0m high solid panel type - Type 1**  
(See specification sheet for detail)

(Scale 1:20)

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

Revision	A
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# PRODUCER STATEMENT - PS1 - DESIGN

ENG REF: 7327 Type 1g(ii)

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 1.0m high - Type 1g(ii)  
(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 1g(ii) ), 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 \_\_\_\_\_

The proposed building work covered by this producer statement is described on the drawings titled Moduline SafeBarrier Pro 1.0m high - Type 1g(ii) 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 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.

Anthony Marino 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.