



30 September 2025

Bryan Easton

s7(2)(a)

Tēnā koe Bryan,

Request for Information – Local Government Official Information and Meetings Act (LGOIMA) 1987

We refer to your official information request dated 4 September 2025, seeking clarification on Council's assessment of Clause E2 compliance and written notice under section 115 of the Building Act in relation to building consent BC210296. Specifically, you requested:

- a) *Whether the Council assessed whether the existing roof on the building complied with Clause E2 of the building code when it processed building consent BC210296, and if so, what information was considered.*
- b) *Confirmation of whether written notice was provided to the owner under section 115(a) or (b), and identification of that notice.*

Answer:

Council assessed Clause E2 compliance as part of the building consent process for BC210296. The processing officer relied on the documents submitted with the building consent application, which can be accessed via Council's [Search Property and Building](#) tool using the property address. These include the application form and consent documentation.

Based on the processing checklist completed by the officer, a change of use was identified (page 2), and the E2 assessment begins on page 23. In relation to the roof, the checklist notes that no changes were proposed other than the

installation of skylights and vents, with installation details shown on sheets A38 and A18. These were considered acceptable. Specifications for the AURAE canopy were also provided and deemed satisfactory.

The application form (page 4) indicates that the building work would result in a change of use, with the proposed conversion of commercial units into residential apartments. The officer identified this change and used the Section 115 worksheet to assess compliance. The worksheet is attached to the checklist and confirms that the change of use was appropriately considered.

Written notice under section 115 was not separately issued to the owner, as the change of use was addressed through the building consent process and documented in the processing checklist and associated materials.

We are releasing both the building consent application form and the compliance checklist used to assess the consent. While only the application form is publicly available on the Council website, the checklist is being provided in full. No redactions have been made to either document, as the information does not raise privacy or commercial sensitivity concerns.

You have the right to seek an investigation and review by the Ombudsman of this response. Information about how to make a complaint is available at: [Office of the Ombudsman - Complaints](#), or freephone 0800 802 602.

Please note that this response to your information request may be published on Hutt City Council's website: [Proactive releases - Hutt City Council](#).

Ngā mihi nui



Rebekah van der Splinter

Senior Advisor, Official Information and Privacy

PROCESSES AND OUTCOMES BUILDING CONSENTS



COMMERCIAL

BC No: BC210296

BLD Officer: Lyall Huizer

Category: R3

P & D Officer: Lyall Huizer

Category: R3

Property Address: 221 High Street – Hutt Central

Complexity of Building where building work is happening:

Building Category: C1 Processing within Category: Confirmed Review required
 Plumbing Category: C1 Processing within Category: Confirmed Review required
 Restricted Building Work: Applicable Not Applicable
 Certificate(s) of design Checked and acceptable Not Applicable

WIND ZONES: Low Medium High Very High Extra High Specific Design

CORROSION ZONES: Zone B (2) Zone C (1) Zone D (Seaspray)

(Cross indicates assessed being part of processing activity)

A = Applicable to process N/A = Not applicable to process. Outcome attached to process)

PROJECT DESCRIPTION: Alter 2 story commercial building to include 6 new apartments and retain 2 GF retail units.

CLASSIFIED USE: HOUSING - Multi unit Dwelling **A** **N/A**

CERTIFICATE OF TITLE CHECKED: (and acceptable)

FIRE REPORT SUBMITTED: (and acceptable)

ACCESSIBILITY REPORT SUBMITTED: (and acceptable)

EARTHQUAKE PRONE BUILDING REGISTAR CHECKED

HISTORIC PLACES REGISTER

KNOWN HAZARDS: Section 72

Slippage Inundation Earthquake study fault line

Contaminated site Subsidence

BUILDING OVER 2 OR MORE ALLOTMENTS: Section 75

(ECB-FORM-297 and ECB-FORM-113 to accompany consent application)

FILL ON SITE:

Engineer Certified Bearing indicated
Penetrometer test report attached kPa.

BRACING CALCULATIONS:

Subfloor Walls Design by Engineer Complies NZS 3604:2011

PRODUCER STATEMENT CHECK

Structural Truss Garage

(Entered in register refer ECB-FORM-014)

| | | |
|--|-------------------------------------|---|
| CHANGE OF USE | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Identified outcomes using Section 115 work sheet attached | <input checked="" type="checkbox"/> | |
| ALTERATIONS TO EXISTING BUILDINGS | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Identified outcomes using Section 112(2) work sheet attached | <input checked="" type="checkbox"/> | |
| CABLE CARS | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SPECIFIED SYSTEMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Compliance Schedule requirements | <input type="checkbox"/> New | <input checked="" type="checkbox"/> Amended |

COMMUNICATIONS RECORD: - Cross - indicates part of procedure

Dialogue Record (Communications attached) Yes N/A

Proclaim: - Cross - indicates action in PROCLAIM procedure

| | | | | | |
|--|---|---|---|-----------------------------|--------------------------|
| <input checked="" type="checkbox"/> Copy of the energy work certificates | <input checked="" type="checkbox"/> "As -Built" drainage plan | <input type="checkbox"/> Certificate from Sprinkler Installer | <input checked="" type="checkbox"/> Membrane Applicator Certificates | Plumbing Inspections | 4 |
| <input checked="" type="checkbox"/> PS4 Structural Review | <input checked="" type="checkbox"/> Certificate from Fire Alarm Installer | <input type="checkbox"/> Mechanical Certificate and Manual | <input type="checkbox"/> Texture Coating Certificates | New connections | <input type="checkbox"/> |
| <input type="checkbox"/> Copy of Lift Certificate | <input type="checkbox"/> Ventilation System Certificate | <input type="checkbox"/> Monolithic wall cladding statement | <input type="checkbox"/> Memoranda from Trade LBP's | Water | <input type="checkbox"/> |
| <input type="checkbox"/> Copy of Lift Certificate | <input type="checkbox"/> Ventilation System Certificate | <input type="checkbox"/> Monolithic wall cladding statement | <input type="checkbox"/> Memoranda from Trade LBP's | Sewer | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Application CCC | <input type="checkbox"/> Emergency Lighting Certificate | <input type="checkbox"/> Back Flow Preventer | <input checked="" type="checkbox"/> Electrical Certificate for emergency lighting | Stormwater | <input type="checkbox"/> |

INSPECTIONS: - Cross - indicates action in PROCLAIM procedure

Building Inspections

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Siting | <input type="checkbox"/> Piles | <input type="checkbox"/> Foundations | |
| <input checked="" type="checkbox"/> Pre-slab building | <input checked="" type="checkbox"/> Pre-slab plumbing | <input type="checkbox"/> Sub floor | <input type="checkbox"/> Block fill |
| <input checked="" type="checkbox"/> Pre-wrap | <input checked="" type="checkbox"/> Pre-clad | <input type="checkbox"/> Half height brick | <input checked="" type="checkbox"/> Fire walls |
| <input type="checkbox"/> Weather tightness | <input checked="" type="checkbox"/> Pre-line building | <input checked="" type="checkbox"/> Pre-line plumbing | <input type="checkbox"/> Membrane & wet floor |
| <input checked="" type="checkbox"/> Post-line | <input checked="" type="checkbox"/> Drainage | | |

Retaining Walls

| | | | |
|---------------------------------------|--------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Siting | <input type="checkbox"/> Foundations | <input type="checkbox"/> Wall:(concrete or block) | <input type="checkbox"/> Wall: Timber |
| <input type="checkbox"/> Pre Backfill | | | |

Energy

| | | | |
|--|---------------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Solar Heating | <input type="checkbox"/> Freestanding | <input type="checkbox"/> In-built | <input type="checkbox"/> Wet back |
|--|---------------------------------------|-----------------------------------|-----------------------------------|

Final

| |
|---|
| <input checked="" type="checkbox"/> Code Compliance Certificate |
|---|

Building consent conditions/notes

- RBW
- Membrane
- SED Engineers inspections

David Lai of Focus Engineering Consultants Ltd 04 382 8678

1. **Steel Frame** Inspection of steel moment frames. (Estimated 2 inspections)
2. **Concrete Walls** Inspection of steel reinforcements before spraying concrete (Estimated 2 inspections)
3. **Roof braces** Inspection of steel cross braces and struts

| | | |
|---|----------------|---|
| 1 | Steel Frame | inspection of steel moment frames |
| 2 | Concrete Walls | inspection of steel reinforcements before spraying concrete |
| 3 | Roof Braces | inspection of steel cross braces and struts |

- Standard plumbing
- Standard drainage
- Standard Gas
- Dev cons quoted in BC see below:

Dev. Con. Calc. Current Price Index: 1294.53 GST rate: 15.00%

| | | Residential | | Catchment | |
|-----------------------------------|-------------------------------------|-----------------|--------------------|---|--|
| | | Fee per lot | Total fee | | |
| Number of additional lots | 5.5 | | | <input type="radio"/> Western Hills <input checked="" type="radio"/> Valley Floor <input type="radio"/> Stokes Valley <input type="radio"/> Wainuiomata <input type="radio"/> Eastbourne <input type="radio"/> Rural | |
| Roading & Traffic | <input checked="" type="checkbox"/> | 69.50 | 382.28 | | |
| Water Supply | <input checked="" type="checkbox"/> | 57.24 | 314.83 | | |
| Wastewater | <input checked="" type="checkbox"/> | 3,828.12 | 21,054.68 | | |
| Stormwater | <input checked="" type="checkbox"/> | 217.82 | 1,197.99 | | |
| Total | | 4,172.69 | 22,949.77 | | |
| Total fee | | | \$22,949.77 | | |
| GST | | | \$3,442.47 | | |
| Total contribution payable | | | \$26,392.24 | | |

| | | Commercial | | Industrial | | Retail | |
|---|-------------------------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|
| | | Fee per 100m ² | Total fee | Fee per 100m ² | Total fee | Fee per 100m ² | Total fee |
| Gross floor area (m ²) | 512 | | | | | | |
| New impervious surface area (m ²) | 0 | | | | | | |
| Roading & Traffic | <input checked="" type="checkbox"/> | 139.01 | 711.73 | 231.68 | 1,186.21 | 695.05 | 3,558.64 |
| Water Supply | <input checked="" type="checkbox"/> | 25.44 | 130.26 | 25.44 | 130.26 | 25.44 | 130.26 |
| Wastewater | <input checked="" type="checkbox"/> | 1,701.39 | 8,711.11 | 1,701.39 | 8,711.11 | 1,701.39 | 8,711.11 |
| Stormwater | <input checked="" type="checkbox"/> | 108.91 | 0.00 | 108.91 | 0.00 | 108.91 | 0.00 |
| Total | | 1,974.75 | 9,553.09 | 2,067.42 | 10,027.58 | 2,530.78 | 12,400.00 |
| Total fee | | | \$9,553.09 | | \$10,027.58 | | \$12,400.00 |
| GST | | | \$1,432.96 | | \$1,504.14 | | \$1,860.00 |
| Total contribution payable | | | \$10,986.05 | | \$11,531.71 | | \$14,260.00 |

Dev con calculations.

Based on the current retail usage of the building a development contribution credit is given for the 512 m² of retail space being converted to residential. \$14,250.00

6 dwellings are proposed.

5 are over 65m² (5 EHU's) and 1 is less than 65 m² (½ EHU) 5.5 new lots attract a development

contributions charge of \$26,392.24

\$26,392.24 (charge on 5.5 EHU's)
 -\$14,260.00 (credit on 512m²)
\$12,132.00 (Total development contribution to be charged)

Vehicle crossing

Design Memoranda:

General information

Building Classification: Not restricted building work - Non habitable

Designer: Tadworks Andrew Tong

Engineer: David Lai

BC No: 210296

Auditable Means of Compliance and Outcome process

ACCEPTABLE – meets the mandatory provisions for building work contained in the New Zealand Building Code (NZBC) which is the First Schedule to the Building Regulations 1992. These Provisions are: - Objective, Functional Requirement and Performance Criteria. Follow process, procedure to identify outcome of process and show reasonable grounds decision.

– Identified New Zealand Building Code Clause and /or Standard referenced by the applicant within their submitted documentation that you have fully assessed for compliance.

Specific Design (SED)

AS/NZS 1170 Alternative Solution B1/VM1

- Engineer CPEng
- If site or design elements are exposed or in sea spray zone is B2/NZBC covered in PS1 Statement (This must be considered and satisfied)
- Check IPENZ CPEng register for producer statements(Engineer deemed to be working within category of skill)
- PS2 deemed to be required n/a
- PS1 specific to address/property yes
- PS1 within a year old yes
- PS1 have Professional Indemnity Insurance to be no less than \$500,000 yes
- PS1 or specification note required inspections for monitor yes

Conditions

Scope of PS1 Design

Monitoring required

N/A

ACCEPTABLE

B1 Structure

B1/VM1 B1/VM2 B1/VM3 B1/VM4

B1/AS1 B1/AS2 B1/AS3 B1/AS4 NZS 3604 NZS 4223 NZS 4229 Alternative Solution

Check Memorandum LBP form (design) n/a

Geotech Engineer? n/a

Extensively check Resource Consent for any floor level requirements or anything else.

If inundation in Hutt views, send to GWRC and Wellington Water for any floor height requirements. If unsure, double check with Steve Mann n/a

Earthquake strengthening works – generally steel frames bolted to existing structure with lateral bracing to boundary walls – concrete sprayed to walls as infill panels. Small areas where slab built up to the entrance area to the apartments.

Site/ location

Location to two at least boundaries shown n/a all work internal

Fire walls required for external spread of fire if within 1m to boundary or soffit within 650mm – see section C

Drains in relation to building not affecting bearing or surcharge – double check to see any foundations/footings clear n/a any service pipes by at least 1.5m (double check with wellington water if in doubt) n/a

Scope

- Checked Under 10m high yes
- Checked Number of storeys 2
- Checked Concrete footings/piles/ring foundation in relation to storeys and loads existing covered by SED engineer in assessment for seismic strengthening
- Checked Floor loads ok (upper level residential loads)
- Checked foundations on site in relationship to sloping ground in compliance with NZS3604 fig 3.1 n/a
- Datum heights clearly shown on plans n/a
- In all wind and earthquake zones, buildings with a height (measured from the underside of the bottom plate of the lowest floor to the top of the roof) exceeding 1.7 times the width shall be attached to a continuous foundation wall around the entire perimeter. Refer to NZS3604 5.5.3.2n/a
- That this building is outside the scope of NZS3604 and therefore a NZS3604 pile subfloor can't be used, refer to the flow chart fig 1.1 and Fig 1.2n/a

Piles/Footings/Foundation Walls

- ~~Pile cross section size in compliance with NZS3604 cl 6.4.2~~
- ~~Pile height above FGL no less than 150 mm in compliance with NZS3604 cl 6.4.1.1~~
- ~~Pile height above CGL no more than 600mm for ordinary, 1.2m for cantilevered, 600mm to highest connection for anchor, 3m for timber ordinary and braced in compliance with NZS3604 cl 6.4.1.1 (b)~~
- ~~Pile footing sizes in compliance with NZS3604 cl 6.4.5.5~~
- ~~Pile connections have the correct kN capacity — 12kN for anchor and braced~~
- ~~Subfloor ventilation complies with NZS3604 cl 6.14~~
- ~~Foundation walls are reinforced in compliance with NZS3604 fig. 6.13, 6.14 and 6.15~~
- ~~Foundation wall laps for single storey in compliance with NZS3604 fig. 6.14~~
- ~~Foundation wall heights within scope of NZS3604 fig 6.14, 6.15~~
- ~~Subfloor ventilation (foundation wall vents) in place and located and sized in compliance with NZS3604 cl 6.14~~
- ~~Bottom plate fixings for external walls all ok as per NZS 3604 cl 7.5.12 / 6.11.9.1~~

- Concrete strength correct for zone

Block Work n/a

Retaining Wall n/a

Slab – small section of additional slab to entrance to the apartments. The slab poured over existing slab to create a flat floor - part has nib wall designed by SED engineer

- Check how existing to new slab / foundations are tied together – reinforcing bars? specified by the SED engineer.
- Slab DPM detailed
- Slab thickness as per NZS 3604 cl 7.5.8.2
- Granular fill 600 or less as per NZS3604 cl 7.5.3.1
- Slab thickenings footings to NZS3604 and or meet Engineers requirements
- Block work & thickenings/footings to NZS3604 or 4229 and or meet Engineer requirements
- >300mm of fill on site certification required
- Steel reinforcing detailed and compliant (supplementary bars, sizes, laps, centres) specified by the SED engineer.
- Construction cuts required and correctly located (shrinkage control)
- Slab Less than 24m between free joints
- Finished floor levels as per NZS cl 7.5.2 same as existing – check as becoming dwelling. (Question below)
- Please show the FGL adjacent the lower level apartments (Margaret street service lane) and demonstrate how compliance with E1 clause 2.0.1 is met: (Floor level above crown of road or above lowest point of site as per E1 2.0.1 a), b))
- If the required difference in level cannot be achieved please demonstrate how surface water is prevented from entering apartment 1 and 2.
- Concrete strength correct for zone 25MPA on SED specs
- Internal load bearing supports in place – no changes to the structural aspect of the building n/a
- bottom plate fixings for external walls all ok as per NZS 3604 cl 7.5.12 / 6.11.9.1 – check sighted M12 bolts and spacings
- Cast in anchors for external walls:
Cast in anchors for external walls where the slab edge is formed with masonry header blocks, anchors shall be set not less than 120 mm into the concrete, maintaining a minimum edge distance of 50 mm to the outside face of the blocks.

Bearers n/a

Joists n/a

Flooring – no additional flooring

Walls – only non - loadbearing walls are proposed.

- Bottom and Top plate fixings provided per NZS 3604 cl 7.5.12 ok
- Walls designed to NZS3604 requirements and or Engineers design – lower walls non load bearing stud height is approx. 3.9m SG8 studs 140x45@600 CRS – upper level stud height 3.0m 90x45 SG8 studs @ 400 crs. checked in NZ3604 - OK
- Stud sizes, spacing's, treatments specified to both load bearing and non-load bearing walls are as per within the requirements of NZS3604
- Proposed lintel sizes, treatments specified to walls with loads designed and covered by covered by NZS 3604 Table 8.10 for two storey 8.7 for one storey n/a no new openings apart from non loadbearing walls with internal doors.
- Sighted all structural connections required for up lift in place to top plates, purlin to truss, truss to top plates, top plates to studs. n/a
- Engineered lintel systems i.e. flitch beams and the like. Full details provided, span tables and manufacturers connection details n/a
- Stud to top plate fixings covered under eco ply wind barrier (RAB) See page 20 of their spec n/a

- Trimmer stud details per NZS3604 fig 8.5 n/a
- Sill and head trimmer sizes are all OK as per opening in compliance with NZS3604 table 8.15 n/a

Bracing – bracing of the building dealt with by SED engineer in earthquake strengthening calcs ps1 and plans supplied

- Distribution of bracing as per NZS3604 and or Engineers site specific calculations
- If there is subfloor bracing, check to see if bracing calculations have been supplied (cantilever, anchor, braced piles etc)
- EZY Brace/Quick brace/Specific bracing parameters for proprietary systems met
- BU Demand Confirmed
- Bracing lines are spaced no more than 6m apart
- Check Linings for BU's behind shower and or bath
- Ceiling diaphragm

Roof – additional skylights proposed to the existing roof structure. The SED engineer has provided details for strengthening of the existing roof structure.

Details within the plans of the supporting base and its exact location so compliance with NZS3604 13.4.1 can be seen

- If pitched/framed roof check to comply with NZS3604 limitations
- Rafter sizes, grade and spacing's comply with NZS3604 table 10.1
- Purlin spaces provided and compliant for roof cladding system
- Truss statement PS1 provided wind zoning is correct, connection details and layout provided
- Roof span max 10 metres if not engineered
- Check for any additional superimposed loads to roof structure i.e. mechanical plant. Engineering may be required to support additional loading
- Sighted required roof plane braces in place for a roof area 50sqm and less as per NZS3604 table 10.16
- Purlin forming gable verge can't be assessed as compliant
- Sighted durability /treatment requirements of soffit outriggers as ok as within sheltered areas
- Sighted outrigger fixing details to wall framing in compliance with NZS3604 table 10.10 or 10.11
- **Please amend the cross sections and or floor plans to show the extent of any proposed ceilings.**
- details within the plans of the supporting base for HWC / tank etc in roof space and its exact location so compliance with NZS3604 13.4.1 can be seen
- The plans show complete construction details of the proposed Skillion roof area in compliance with NZS3604
- Have supplied the manufacturer's proprietary partitioning systems specifications, literature and construction details.
- Have supplied the dropped ceilings manufacturer's specifications and details as well as the construction details of the proposed drop ceiling
- Has the SED seismic restraining of the drop ceilings been considered and show compliant with B1.3.3 (f).
- Has the SED design of the mechanical ventilation seismic restraining for extract, air supply, and other services been supplied showing compliant with B1.3.3 (f).

Post

- Please supply the post to veranda beam connection details so any uplift requirements can be clearly seen as achieved in compliance with NZS3604
- Please supply the proposed post to pile connection details so any uplift requirements can be clearly seen as achieved in compliance with B1 (calculations etc)
- Post heights, sizes
- Post/footing connections in compliance with NZS3604 fig 9.2

N/A

ACCEPTABLE

B2, Durability

B2/VM1 B2/AS1 B2/AS2 B2/AS3 NZS 3101 NZS 3602 NZS 3604 Alternative Solution

- Sighted all timber treatments proposed as compliant with (B2) Timber Treatment complies with NZS3602, B2/NZBC
- ~~Durability Requirements of Building Elements in compliance with B2/AS1 table 1~~
- ~~Sighted ground to floor heights as ok~~
- ~~Sighted pile top to ground height as ok~~
- ~~Sighted subfloor ventilation as being stated as 3500sqmm per sq. as required~~
- Sighted structural concrete exposed/not exposed as required by NZS 3604
- ~~Sighted all structural connections within 600mm of the ground being Stainless steel~~
- ~~Sighted all structural connections with zone D exposed and sheltered as being stainless steel as per NZS3604 table 4.1~~
- NZS3604 table 4.1 and table 4.3 supply fixing requirements to meet durability in certain areas
- ~~Sighted roof cladding as meeting durability requirements for zone building located in~~
- ~~All tanalised ply cladding or roofing (membrane roof substrates) need stainless steel fixings~~
- ~~Fixings to CCA treated timber need to be stainless steel (H3 or H3.2)~~
- ~~All H3.1 ply claddings need protective coating (stain, paint finish etc)~~

N/A

ACCEPTABLE

C1-6, Fire

C/AS1 C/AS2 C/AS3 C/AS4 C/AS5 C/AS6 C/AS7 Alternative Solution

C/VM1 C/VM2 NZFS FEU comments

Commercial

NZFS FEU comments 2 comments from FENZ report as below.

Please provide evidence that Fire and Emergency have approved the proposed location for Multi Zone fire alarm panel as per NZS 4512:2010 Paragraph 403.1

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1. FIREFIGHTING NEEDS

1.1 Fire rated windows- Design Coordination

Section 1.3.5 of the fire report indicates that the windows in external walls are required to achieve a FRR of -/60/30 or -/120/30 and being fixed closed.

Fire and Emergency observes from the architectural plans that some of exterior glazing are identified as "FW". However, Fire and Emergency cannot verify that those glazing are fire rated as indicated in the fire report and observes that no details regarding the fire rated glazing is provided.

Fire and Emergency notes that the fire rated glazing requirements indicated in the fire report should be reflected in the architectural plans and specifications.

Fire and Emergency advises that the BCA requires the applicant to revise the design to address the issues identified above (as well as any others identified during design co-ordination) in order to satisfy the requirements of the fire design.

1.2 Fire Alarm Panel

The fire report indicates that a new fire alarm system (Type 4 & 5) is proposed to be installed under this consent.

Fire and Emergency notes that NZS 4512:2010, Paragraph 403.1 requires the location of multi-zone fire alarms to be approved by NZFS and, consequently, under s8(4) of the Fire and Emergency New Zealand Act 2017, by Fire and Emergency New Zealand. If this approval does not accompany the consent documentation, then any location proposed cannot be considered as a final location.

Fire and Emergency advises the BCA requires the applicant to demonstrate that the proposed location has been agreed with Fire and Emergency Operations.

- Fire Report; provided. Risk groups SM both levels and CA ground floor. And occupant load correctly identified.
- Fire cells sizes within limits of table 2.1 OK
- Requirements for fire cells from table 2.2a for SM type 1 system, for CA table 2.2b type 2 required. Cross check with Table 2.3 indicates SM type 2 and CA type 4(see below) then step 6 makes SM 5 and CA 4.

Buildings containing more than one firecell

2.2.3 Where there is more than one *firecell* the following design sequence shall be used to determine the *fire safety systems* for other *firecells* in the *building* (see Figure 2.1).

Step 1 Determine the *risk groups* associated with each *firecell* within the *building* (refer Table 1.1 and Paragraphs 1.2.1 and 1.2.2).

Step 2 Determine the *escape height* in metres of each *firecell*.

Step 3 Determine the *occupant load* for each *firecell* in accordance with Paragraph 1.4.

Step 4 Taking into consideration the notes within Tables 2.2a, 2.2b, 2.2c and 2.2d and Paragraph 2.2.2 determine the *fire safety systems* required to protect each *risk group*.

Step 5 For each *risk group*, insert the *fire safety system* ascertained in Step 4 into Table 2.3 column 1 and determine the *fire safety system* for the other *risk groups* in the *building* from Table 2.3 column 2.

2.2.4 For **risk group VP** *firecells* that require a *fire sprinkler system* (refer to Table 2.2d), the *fire sprinkler system* does not need to be extended throughout the remainder of the *building* where the **risk group VP** *firecells* are *fire separated* from the adjacent *firecells*. The *fire separation* between adjacent *firecells* is required to be provided with the greater of the *property rating* of the adjacent *firecells* (refer to Table 2.4).

Step 6 Based on the *fire safety systems* ascertained in Step 5, determine the most onerous requirements from Tables 2.2a, 2.2b, 2.2c, 2.2d and 2.3.

Table 2.3 Required types of fire safety systems for other firecells within the building
Read this table in conjunction with Paragraph 2.2.3

| Primary risk group and alarm type required by Tables 2.2a, 2.2b, 2.2c and 2.2d | Minimum type required within other firecells on the same or other floors within the building | | | |
|--|--|----------------|----------------|----------------|
| | SM | CA | WB | VP |
| | SM | 1, 2 | 4 ¹ | 4 ¹ |
| | 5 | 4 ¹ | 4 ¹ | 3 |
| | 7 | 7 ¹ | 7 ¹ | 6 ² |
| SI | 7 | 7 | 7 | 6 |
| CA | 2 | 2 ³ | 2 | 2 |
| | 3 | 3 ³ | 3 | 3 |
| | 4 | 4 ¹ | 4 ¹ | 3 |
| | 6 | 6 | 6 | 6 ² |
| | 7 | 7 ¹ | 7 ¹ | 6 ² |
| WB | 2 | 2 ³ | 2 | 2 |
| | 3 | 3 ³ | 3 | 3 |
| | 4 | 5 | 4 ¹ | 3 |
| | 6 | 5, 7 | 6 | 6 ² |
| | 7 | 5, 7 | 7 ¹ | 6 ² |
| WS | 6 | 5, 7 | 6 | 6 ² |
| | 7 | 5, 7 | 7 ¹ | 6 ² |
| VP | 2 | 2 ³ | 2 | 2 |
| | 3 | 3 ³ | 3 | 3 |
| | 6 | 5, 7 | 6 | 6 |

Notes:
The systems derived from this table show the minimum type of systems required as dictated by other risk groups within the building. Please read this table in conjunction with Tables 2.2a, 2.2b, 2.2c and 2.2d when defining the systems required within the building.

- Can be changed from a Type 4 to Type 3 system, or from a Type 7 to Type 6 system if the firecell is challenging for smoke detection where permitted in Tables 2.2b or 2.2c.
- Can be changed to a Type 3 if the risk group VP firecell is fire separated from the remainder of the building by the building's property rating in accordance with Paragraph 2.3.
- Refer to Table 2.2a for additional requirements system to be provided within risk group SM.

- Height to any floor less than 15m, and hose run 75m. Attendance point to front of building
- Length of run to upper apartment is less than 75m – yes – building length 30m – worse case length 40m to upper level far apartment (including stairs) OK
- Based on table 2.3 Type 4 required in CA and type 5 in SM fire cells – Fire report note this OK.

Proposed type 4 and type 5 alarm systems. Please provide a layout plan from a suitably qualified person showing all detectors by type, sounder locations, location of the manual call point/s and fire alarm panel. Please confirm the highlighted comments (see below) from the fire report are addressed in this plan. Please provide evidence that Fire and Emergency have approved the proposed location for Multi Zone fire alarm panel as per NZS 4512:2010 Paragraph 403.1

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1.1. Active fire safety systems

1.1.1. Provide a new Type 5 fire alarm system with local alarm in apartments and Type 4 building wide alarm in retail and common spaces in accordance with NZS4512 arranged as follows.

Activation of a smoke detector within an apartment is to provide local alarm only within the unit of origin and include hush buttons provided as per F7/AS1 1.2.5 b. Local sounding smoke detectors are not to automatically notify the brigade.

Activation of a smoke detector in common areas such as safe path stairs or corridors and retail tenancies are to latch and provide a building wide alarm and brigade notification.

Smoke detectors are not to be installed in areas where ambient environmental conditions are likely to result in nuisance alarms such as in kitchens and bathrooms.

The system is required to be a fully analogue addressable and is to be connected to the fire alarm panel and alerting devices throughout in accordance with NZS 4512.

- Fire resistance ratings: based on table 2.4 as below fire report OK

exitways 60

| Risk group | Unsprinklered | | Sprinklered | |
|------------|-----------------|-------------------------|-----------------|-----------------------|
| | Life | Property | Life | Property |
| SA | 60 | 60 | 30 | 30 |
| SI | n/a | n/a | 60 | 60 |
| CA | 60 ¹ | 120 | 30 ¹ | 60 |
| WA | 60 ¹ | 120 (180 ²) | 30 ¹ | 60 (90 ²) |
| WS | n/a | n/a | 60 ¹ | 180 |
| WP | 60 ¹ | 60 | 30 ¹ | 30 ³ |

Notes:

1. When the escape height is greater than 10 m the exitways shall have fire separations with an FRR meeting the property rating (refer to Paragraph 4.9.2).
2. Where the building is less than 15 m to the relevant boundary and the storage height is greater than 3.0 m the FRR shall be 90 minutes where sprinklered and 180 minutes where unsprinklered.
3. The sprinkler system can be substituted for cross ventilation in accordance with Paragraph 4.1.3.

The fire report covers fire separations in sections 1.3.1 through to 1.3.10
 Plan sheets A15 and A16 show the fire rated internal walls 9 using the above GIB systems.
 Cross sections show 2 internal fire rated wall systems 60 min GBTLIC60 from GIB noise control systems 2017 specs provided OK and 120 minute OK spec provided for the GBTL120 OK

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with. Stainless steel, decorative high pressure laminate, tiles, wallboards with painted or applied impervious coatings or films, are all suitable materials for these surfaces.

Interior Fit-out
Internal doors
 All internal door leaf widths as noted on floor plan, all heights 1980mm unless otherwise noted, refer Internal Joinery Schedule

Electrical Notes

Mechanical ventilation
 Extractor fans to be Manrose XF150 or similar, vent through wall or duct through roof with cowl as per manufacturer's installation instructions. Rangehood to be ducted and vent through wall and roof with cowl. Mechanical ventilation fan(s) must have a flow rate not less than below in accordance as NZBC G4: 25 L/s for showers and baths, and 50 L/s for cooktops.

Wall Legend - Underlay

JH Axon tpanel (timber grained) on Cavity on JH RAB board
 Selectec JH Axon panel (timber grained) over 45x18mm H3.1 timber cavity battens spaced @ 300crs on James Hardie 6.5mm RAB board. Ensure double studs & cavity battens are installed over vertical joints of cladding. Refer to manufacturers information & details for fixing and waterproofing requirements.

Flashclad Metal Cladding On Cavity On Existing Concrete Walls
 Selected Flashclad Euroline on Flashclad cavity batten @ 800crs max horizontally, refer manufacturer for fixings

Fire Rated Interior Wall (60min)
 2x10mm GIB Noiseline/Braceline on each side of wall framing with 90mm R2.2 Pinkbatts insulation to wall cavities. Furring channel applied to one side of wall as per Gib board technical manual detail GBTLIC60, refer details & read in conjunction with Fire Report by Fire engineer.

Spray Concrete Wall

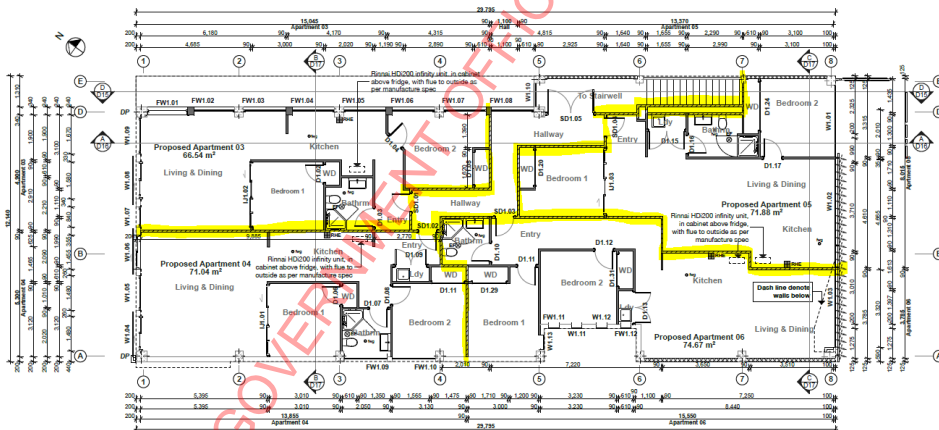
Spray concrete wall as Per Eng design, refer ENG drawings and PS1

Interior Wall - Ground Floor
 140x45mm @ 600 mm crs H1.2 SG8 KD gauged wall framing lined with 10mm GIB Aqualine or 13mm GIB Aqualine to wet areas.

Fire Rated Interior Wall (120mins)
 2x16mm GIB Fyrelite on each side of wall framing with 90mm R2.2 Pinkbatts insulation to wall cavities as per Gib board technical manual detail GBTL120, refer details & read in conjunction with Fire Report by Fire engineer.

Window and Door Note

External Joinery
 Powder coated aluminium joinery, use WANZ continuous support bar to suit cladding with location bracket, hardwood liners rebated for GIB, glazing to be safety toughen double glazed units to grade A safety and b suitable for stated wind pressure in accordance with NZS4223. Hardwares & Entrance door Panel style to be selected by owner
NOTE: MUST read in conjunction with other drawings. Require window restrictors to window sills are less than 760mm high (except ground floor joinery)

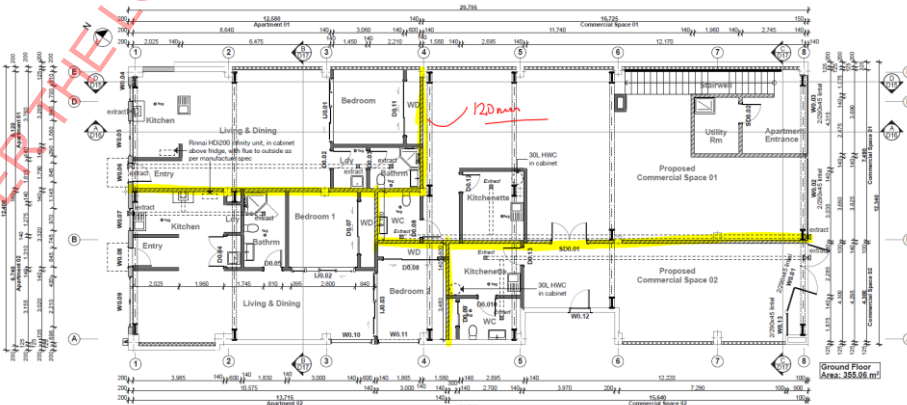


Proposed: First Floor Plan Wall Set-out 1:100

KEYNOTES
Electrical Notes
 Mechanical ventilation fan extract
 Extractor fans to be Manrose XF150 or similar, vent through wall or duct through roof with cowl as per manufacturer's installation instructions. Rangehood to be ducted and vent through wall and roof with cowl. Mechanical ventilation fan(s) must have a flow rate not less than below in accordance as NZBC G4: 25 L/s for showers and baths, and 50 L/s for cooktops.

Apartment Conversion
 Construction Documentation
 221 - 223 High St.
 Lower Hutt
TAD WORKS
 TAD works Ltd
 Level 1/85 Waterloo Road, Lower Hutt
 T: 04 - 856 9600 / M: 0273103404
 E: andrew@tadworks.co.nz

Refer to

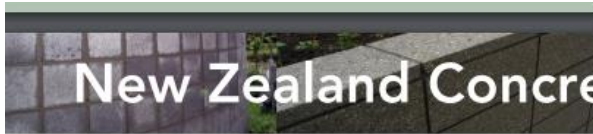


ANARP The fire

report indicates no fire separation between the 2 proposed commercial tenancies. However the

architectural plans do show a 120min fire wall. There are double doors between the 2 tenancies SD0.01 indicated on the plans.

- Application of fire ratings as per clause 2.3.
- 1.3.1 covers walls floor and stairs. Walls and ceilings ok stairs to be checked. Plans show the existing stairs are concrete and retained OK. The stairwell itself needs to be protected the upper level protected from apartments and shared hall by 60min separation. Lower level shown protected by 120 separation OK. Check on penetrations for risers at apartment and floor levels - **Please amend the plans to specify fire collars to both the stacks, plumbing wastes and other penetrations as required.** One stack shown outside the building the other within.
- I am satisfied that the existing slab is ANARP in terms of 120min fire rating OK. The addition of a 13mm GIB ceiling to ground floor retail spaces and apartments provides additional resistance especially as fire has to get through the GIB first before the concrete comes into play.



| Fire Resistance Rating (minutes) | Effective Thickness (mm) for Different Aggregate Types | | |
|----------------------------------|--|------------------|------------------|
| | Type A Aggregate | Type B Aggregate | Type C Aggregate |
| 30 | 50 | 45 | 40 |
| 60 | 75 | 70 | 55 |
| 90 | 95 | 90 | 70 |
| 120 | 110 | 105 | 80 |
| 180 | 140 | 135 | 105 |
| 240 | 165 | 160 | 120 |

Note: Aggregate types:

A - quartz, greywacke, basalt and all others not listed

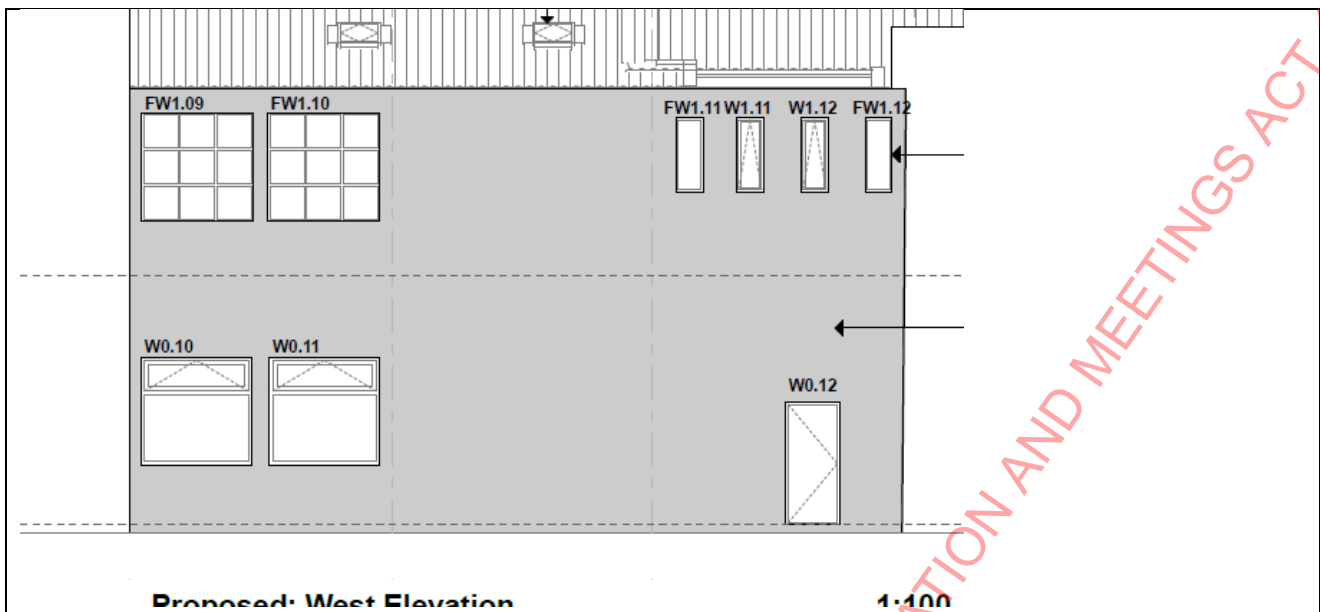
B - dacite, phonolite, andesite, rhyolite, limestone

C - pumice and selected lightweight aggregates

Source: NZS 4230:2004

- External fire separations are as below: The external walls are either existing or proposed 150 reinforced concrete. FW1.09 and FW1.10 are to be Fire Rated and as on the boundary. Can I argue ANARP that the as the existing windows are being replaced with fire rated windows the 120 min property rating is achieved. Windows to be 60 upstairs.

Spoke with David Putter for clarification and the adjacent buildings are taken as is therefore windows placed in walls on the boundary are OK and no consideration can be given to the neighbours building up to the boundary and blocking them out. Based on the plans supplied the wall in which these windows are located is offset from the boundary 1.4m – therefore this wall can have up to



Based on the plans supplied windows FW1.09, FW1.10, W0.10 and W0.11 are new replacement windows in walls within 1m of the boundary. Therefore please demonstrate how the proposed glazing is compliant with C/AS2 clause 5.2.4. Based on table 5.1 the maximum permitted size of fire resistant glazing is 1m² and figure 5.1 requires a separation distance between adjacent FR windows of at least the width of the wider window being installed.

Fire Rated windows and doors: Please provide manufacturers specifications for all external fire rated windows and doors. Please revise the window schedule to include the manufacturer of the windows, the particular model or type, and their proposed FRR ratings.

Please demonstrate how E2 compliance is to be achieved by providing FR window installation details including sill, head and jamb details.

Windows shown to apartment 6 upper level within the 1.4m offset are in a wall allowed 30% unprotected area. Area of openings less than 30% OK. For lower level 20% unprotected and max glazing size is 1m² – this is only complied with if the door W0.12 is fire rated. Please demonstrate how the door labelled W0.12 complies with C/AS2 table 5.3 which shows a maximum single unprotected opening (within 1.4m of relevant boundary) limited to 1m². Please revise to fire rated glazing accordingly. (Checked with David and these tables are such that 1.3m falls within 1-2m of boundary so OK.

East elevation – ground floor no openings upper floor apartments have glazing – 1.31m setback from boundary. Each fire cell assessed individually wrt the relevant boundary. Apartment 3 has 7 windows each close to 3m². These are all shown as fire rated however compliance with C/AS2 table 5.1 cannot be seen please revise accordingly. Either reduce the glazing area to less than 12m² or show the firecell as being sprinklered. (note a sprinklered fire cell can have unlimited glazing) (Checked with David and this level of glazing OK) The hallway ok.

Roof of lower apartment abuts wall of upper apartments – 100% protected upper walls (due wall cladding and fire rated windows) OK

North and South elevations both sit on the boundary with the south elevation facing the high street 19m to relevant boundary (100% unprotected for both risk groups OK) Margaret service lane is adjacent the North

elevation 6m to relevant boundary.(100% unprotected for SM risk groups).

Part 5.7.1 Vertical fire spread. Other property is above other property therefore this clause relevant. Spandrels are required to all elevations, These shown on the fire report. And on the proposed elevations – they are shown as over 1500mm to be confirmed on site OK. Openings are retained or enlarged.

Do we need to see boundary/slip layers between proposed sprayed walls and existing walls. Checked with Natalie and no.

Part 3 means of escape.

Escape height 4m.

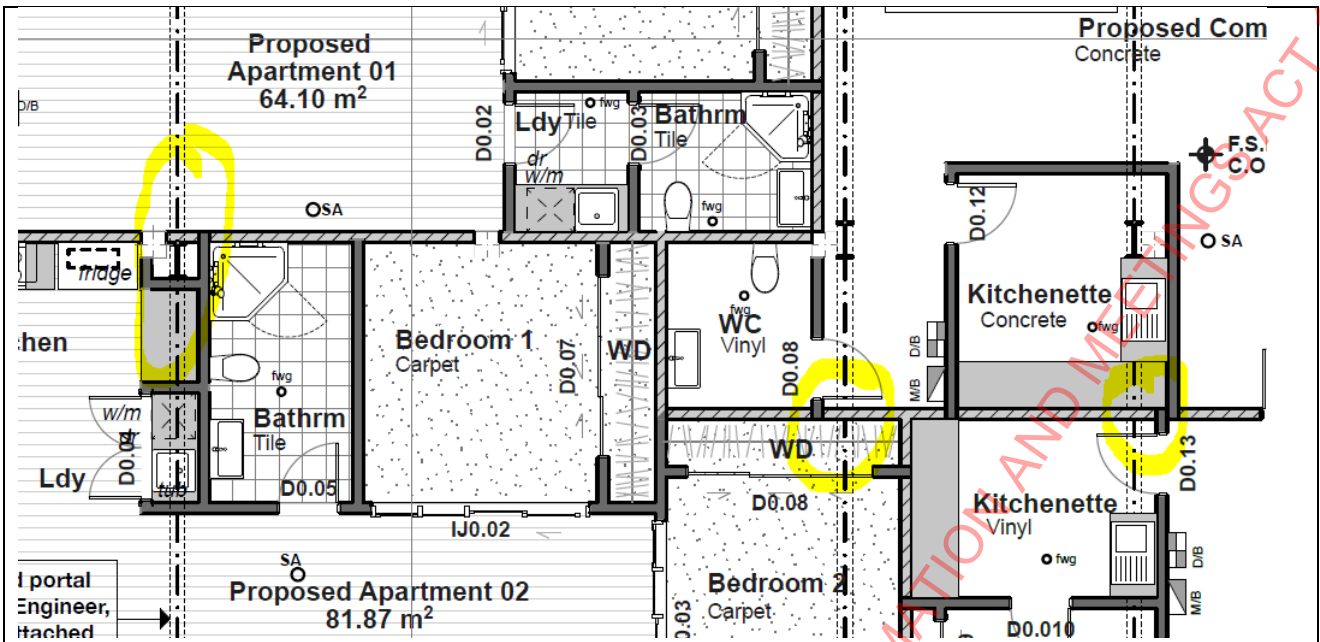
Upper level apartments have shared single escape route. Longest DEOP for apartments is 18m (table 3.2 states 30m) OK till shared escape reached(safe path) The safe path is fully protected till the exitway to outside TOP well less than limit. Other criteria for single escape path are: Occupancy less than 50 yes, escape ht less than 10m yes, no basement levels, smoke lobby top precede vertical escape path – n/a as the ground floor tenancies do not have access to the lobby at the bottom of the stairwell OK. other SM specific factors – people with disabilities less than 10 yes, the safepath must comply with 3.9.4 to 3.9.11 – check this, safe path is fire separated and less than max length of table 3.4 OK. Final exit door is a sliding door? Is this acceptable. In addition clause 3.9.9 requires a fire door between the safe path and the vertical safe path. Check

Doors SD1.01 to SD1.05: These are shown on the fire report as requiring a 60 minute fire rating. Please provide a manufacturers specification for all proposed fire doors including evidence of a -/60/60 fire rating. Please add this information to the door and window schedule. Please include manufacturers installation details for fire and smoke doors showing head and jamb details as required. Please revise the internal door schedule to include the manufacturer of the doors, the particular model or type, and their proposed FRR ratings.

Single escape path for retail and apartment tenancies OK

Please show on the plans all structural steelwork to be fire rated as per C/AS2 clause 2.3.4 . Please clearly state the particular fire rated system proposed and the FRR value this system provides. (FRR of 120 required)

Please provide details showing steelwork penetrations through fire separations (see below)



- assessment, NZBA Section 112 or NZBA Section 115
- DRU comment received and considered
- Peer review received and considered
- Fire/Smoke doors detailed on plan
- Property rating -Fire Ratings as per NZBC -docs (distance from boundary/s)
- Purpose group compliant/Risk group compliant
- Occupant load compliant
- Fire safety system
- Screen shot showing hydrants.



- Fire systems required to be added to Compliance Schedule
- Egress width compliant/door widths compliant, Door swings in direction of travel Ok for apartments need to check for commercial tenancies – W01 and W02 both show sliding doors are these acceptable? Based on 3.15.1a acceptable where occupancy less than 20. So ok for the retail tenancy 02. Final Exit for commercial space 01 Please revise W0.02 to show a

hinged door of the correct width so compliance with C/AS2 3.15.1 can be seen. (sliding door acceptable where the occupancy is less than 20)

- Check all finishes comply with fire report and NZBC C documents, group numbers
- Group values for walls and ceilings:
- All 2-3 or 3 except walls and ceiling of the shared apartment exitway needs to be 1S
Fire report contains schedule of wall and ceiling surface finishes. Wall finishes are painted GIB or exposed concrete. Resene paint systems fire ratings data sheet supplied all All gib board wall boards with various Resene painted finishes are 1-S OK
Exposed concrete walls and ceilings fine. Tiles OK.

Radiant flux values:

Floor finishes are specified all 2.2 apart from exitway which is 1.2

Exitway ground floor and upper floor shown as tiles OK

Apartments Upper floor shown as carpet in bedrooms need to see 2.2kW/m² asked – polished concrete and tiles the remainder OK

Apartments GF Vinyl and floor boards shown need to see 2.2kW/m². asked

Exposed concrete to commercial GF spaces OK

Please provide manufacturers documentation demonstrating the proposed carpet, vinyl and floor boards meet the minimum critical heat flux value of 2.2 see 2.2kW/m².

- Safe path DEOP detailed and compliant for purpose group yes
- Services penetrations – Penetrations through fire rated and acoustic rated walls/ceiling, Penetrations accessed and deemed not to compromise the integrity of overall fire rated system (being the ventilation system, phone & data cables and outlets, electrical wiring and outlets, sockets & switches, fire alarm wiring and call points, sprinkler pipes, plumbing pipes, drains and fixtures, and Down lights etc)
- Confirmation of preventing the spread of fire between cells through the ventilation system (dampers etc are there to be aircon systems with penetrations through separations. Check this Fire report 1.3.6 states penetrations in fire separations to be fire stopped – you have supplied testing reports for various Hilti products provided. Please add notes to the plans to clearly state which Hilti firestop / jacket products are to be used where on the plans. Please provide manufacturers specs for any proposed fire stops/ fire rated sealants.
- Fire systems required to be added to Compliance Schedule noted in letter supplied
- Type 18 building Hydrant required if fire hose reel within 75m Not required
- Exit signs clearly indicating all door giving access to final exits* At each point on a open path where door giving exit is not visible in normal use * clearly identify route of travel shown on fire report plans.
- Structural elements supporting the building achieve no less than 120/120/120 asked
- Evacuation scheme required under section 21(b, a,c) NZFS Act n/a

N/A

ACCEPTABLE

D1 Access Routes

D1/VM1 D1/VM2 D1/VM3 D1/AS1 NZS 4121 Alternative Solution

Building Comments:

Residential: Housing

- Sighted main entrance slip resistance as required by D1 Table 2 OK
- Sighted main access pitch, rise and tread as per D1 Fig 11 stairs are existing with a 280 tread and 190 rise OK there is a landing part way down the stairs and they are have emergency lighting. Light switches top and bottom need to see this.
- Sighted secondary access routes as being 200mm rise and less as required by D1 fig 11

- Sighted landings sized and located as per D1 cl 4.3 yes
- Sighted handrails in place as required by D1 cl 6.0 yes. New handrail proposed profiles provided.
- Sighted curved and tapered and spiralled stairways in compliance with D1 cl 4.4 n/a
- Open stairs have a space between treads less than 100mm sphere in areas frequented by children under 4 need to see closed risers walls either side no barrier required.
- Glazing within 2m of riser as per NZS4223 section 11 n/a glazing to entrance lobby checked in F2 Stair head height a minimum of 2.0 m head height from treads. Easily met

Commercial

CAR PARK

- ~~Not less than 1 accessible park is required for between 1 and 20 car parks n/a~~
- ~~Not less than 2 accessible parks are required for between 21 and 50 nominal car parks~~
- ~~For every additional 50 car parks or part of car parks over 50 not less than 1~~
- ~~Signage for the car parking spaces shall be readily visible from the vehicle at the entrance to the car park, or guide signs shall be provided to indicate the Direction of the space. The space shall have ground markings of the international symbol of access and may have directional signage~~
- ~~Car parks at 90 degrees to the footpath shall not be less than 3500mm wide~~
- ~~Any angled car parks shall have an operational width of 3500mm~~
- ~~Where the car park is parallel and adjacent to a marked footpath on the same level as the parking space, the width of the common footpath may form part of the parking~~
- ~~The car parking space length shall be no less than 5000mm~~
- ~~2500mm minimum height to be maintained from the entry of the car park to the accessible park~~
- ~~Car parks to provide a stable, firm, slip resistant flat surface with a slope not exceeding 1:50~~
- ~~People with disabilities shall not have to pass behind parked cars when moving to an accessible route, or when approaching an entrance~~
- ~~Flat access shall be provided whenever possible between the car park space and adjoining footpath alternatively kerb ramps are to be provided~~

BUILDING ENTRIES

- The entry doors are preferably to include no thresholds, or are to be less than 20mm. OK
- Auto doors are to remain open for greater than 5 seconds n/a
- 1200mm wide by 1200mm long manoeuvring areas are required both sides of the entry doors ok
- The doors and entrances to the commercial spaces are new. With doors at street level and a ramp within the space 1:10 rising up to FFL of the commercial spaces. Is this acceptable?
- Please show the height of door handles to W0.01 and W0.02. Door handles to be located between 900mm and 1200mm above the floor level and be lever action with the end of the handle returned upward toward the door check this is provided.
- Please confirm the door opening forces of no greater than 22N for interior hinged doors and 38N for exterior hinged doors check
- Provide a clear opening of not less than 760mm when the door is opened check sighted ok
- Double doors shall provide at least one leaf of 760mm clear opening n/a
- Glazing to be marked in accordance with NZS 4223.3 need to see this sighted OK
- Please show manifestation to windows W0.01, W0.02 and W0.03 so compliance with NZS4223.3 2016 clause 6 and clauses 2.2.2 can be seen.
- A minimum clear width of 1200mm to be provided within an accessible corridor ok
- Doors shall have a clear colour contrast with respect to their surroundings glazed doors shown.

LIFTS n/a only ground floor is commercial

- ~~Shall be clearly signposted and on an accessible route~~
- ~~An accessible route shall include a lift to upper floors where:

 - (a) ~~Buildings are four or more storeys high;~~
 - (b) ~~The upper floor(s) of any building are to be used as the public~~~~
- ~~Reception areas of:

 - (i) ~~Banks~~
 - (ii) ~~Central government offices or government agencies~~
 - (iii) ~~Regional government offices~~
 - (iv) ~~Local government offices and facilities.~~
 - (c) ~~The upper floor(s) are designed or intended to be used as:

 - (i) ~~Public areas of hospitals, medical consulting rooms, dental~~
 - (ii) ~~Surgeries, and other primary health care centres~~
 - (iii) ~~Places of public assembly for 250 or more people~~
 - (iv) ~~Public libraries.~~~~~~
- ~~Lifts shall be clearly signposted and on an accessible route~~
- ~~Lifts serving an accessible route shall have a minimum interior clear space of 1400 mm by 1400 mm as shown in figure 26. Refer NZS4121 cl 9.2.2.1~~
- ~~Lift doors shall be of a clear colour contrast with respect to their surroundings, refer to NZS4121 cl 9.2.3 (e)~~
- ~~Lift doors shall provide a minimum clear opening of 900 mm, and remain open for not less than 5 seconds before the passenger protective device becomes operative, refer to NZS4121 cl 9.2.3~~
- ~~Lift controls, whether in the lift lobby or in the lift car, shall be situated between 900—1350 mm above floor level, and be in braille refer NZS4121 figure 26.~~
- ~~The lift The alarm button or emergency telephone shall not be higher than 1350 mm above finished floor level refer to NZS4121 9.2.4~~

TOILET PROVISIONS (NZS 4121 section 10) 2 Unisex Accessible WCs are provided 1 per commercial tenancy. Alt to existing building so access and facilities for persons with disabilities should be to code or improved asap.

The original Ground floor tenancies had 2 and 3 WCs respectively . The proposed Ground floor commercial tenancies are less than half the floor area and each has 1 unisex bathroom.

Please provide a dimensioned floor plan and interior elevations of the proposed unisex accessible bathrooms showing the following:

- Be of sufficient size for the manoeuvring of wheelchairs to and within the cubicle
- Include an interior clear space of 1600mm by 1900mm
- Door must open out, but can open to bathroom if the bathroom big enough for the door arch not to intrude into the required 1500 turning circle (NZS4121 C10.5.5)
- Have a Handrail/ grab rail to inside of door
- Have the ability to wash hands while seated on the pan
- Have the ability to reach sanitary disposal bins while seated on the pan
- Have the ability for the wheelchair user to open the doors
- The toilet within the Accessible toilet to have a height to the top of the pan seat of 460mm refer NZS4121 10.5.6.1
- Have the ability for the wheelchair user to remain balanced on the pan whilst transferring to and from the pan
- Provided with appropriate washbasins and with lever operated mixers provided
- Toilet roll holder, and mirror located in correct position

Please amend the plans to show signage provided in sufficient locations to identify accessible routes and facilities provided for people with disabilities

Are the number of WC's appropriate. Check in G1.

- All 3 doors showing access to the Unisex wc's are 760 doors. OK
- Within the building there is required to be at least one all gender accessible Toilet facility. This is required to be located on the main entry level of the building on an accessible route

SHOWER FACILITIES Currently no showers – greatly reduced size of commercial space therefore OK check in G1 none required.

RAMPS, FOOTPATHS, STAIRS AND LANDINGS

- Ramps, footpaths and landings shall be at least 1200mm in width
- To include a level surface 1200mm by 1200mm at the top and base of the ramp
- Have a gradient of between 1:12 and 1:20 with a maximum run of 9m between landings
- To include an upstand of at least 75mm at its edges
- To include a complying profile handrails to both sides at a height of 840mm to 900mm above the ramp floor as well as safety rails between the handrail and the upstand
- Handrails shall extend 300mm into the top landing and 300mm at the bottom landing, unless they continuously wrap around the landing
- Footpaths shall be constructed in compliance with NZS4121 cl 6.1
- Surface finishes to ground, floor, ramps and stair surfaces per NZS4121 4.6
- Hazards and obstructions per NZS4121 cl 4.5.1
- Ramps, footpaths and landings shall be at least 1200mm in width
- To include a level surface 1200mm by 1200mm at the top and base of the ramp (Landing)
- Ramps require level platforms or landings at the top and bottom, wherever there is a change in direction, wherever doors open off them and at intervals not exceeding 9000 mm (see figure 11), for ramp layout suggestions, and the landings shall have a minimum dimension of 1200 mm.
- Have a gradient of between 1:12 and 1:20 with a maximum run of 9m between landings
- To include an upstand of at least 75mm at its edges
- To include a complying profile handrails with both sides at a height of 840mm to 900mm above the ramp floor as well as safety rails between the handrail and the upstand.
- Handrails to be to both sides of ramps and stairs refer to NZS4121 cl 8.6.1
- Handrails shall extend 300mm into the top landing and 300mm at the bottom landing, unless they continuously wrap around the landing
- 1200mm long landings, (including mid landings)
- Step visibility and contrast NZS4121 4.10.5
- Stairs shall not be open riser , (to allow for people with vision impairment or prosthetic devices to slide a a solid riser) refer NZS4121 C8.1.1
- Stairs shall be constructed in design per NZS4121 cl 8.1.2 and with consideration of :
 - 8.3.1 Pitch
 - 8.4.2 Risers and treads
 - 8.3.2 Height
 - 8.3.3 Top and bottom steps
 - 8.3.4 Encroachment into corridors
 - 8.3.5 Opening of doors
 - 8.4.1 Width of stairs
 - 8.4.3 Nosing's
- Is Provision of auditory and visual cues in place with strong colour contrast shall be provided at the head and foot of any internal flight of steps refer NZS4121 8.5.1 (see figure 22).
- As per D1 AS/1 4.1.7 any Leading edges of treads or *nosing's* (if any) on *accessible stairways* shall:
 - a) Be rounded to avoid a sharp edge (see Figure 13), and
 - b) Be colour contrasted with the rest of the tread.

INTERIOR ENVIRONMENT

- Within public facilities where the occupant loads is 250 or less no less than 2 accessible wheelchair spaces shall be provided.n.a
- In regards to wheel chair spaces within public facilities (public seating) where the occupant load is 250 or less no less than 2 accessible wheelchair spaces shall be provided. Refer NZS4121 12.2.1.n/a
- For every 250 thereof extra, an additional one space is required n/a
- Within a accessible route do the architectural plans, clearly confirm and stated at least a 300mm to the side of the door as per NZS4121 cl 7.1.5.2, and fig 19
- Do the plans clearly state the door handles required heights, along the asked above.
- Reception counters provided for public use shall be accessible with a maximum height of 755mm and a kneehole with a minimum height of 675mm and depth of 540mm, and have a width of no less than 900mm refer NZS4121 cl 11.1
- Other forms of counters and desks such as public bars, shops, supermarket checkouts shall also meet the requirements, of NZS4121 cl 11.1 and Fig 37
- Listening systems shall be provided in communal non-residential buildings occupied by more than 250 people and any cinema or public hall and assembly spaces in old people's homes occupied
- by more than 20 people refer to NZS4121 cl 12.2.2
- The light switches and plug socket outlets have been made accessible and usable. And be positioned between 500mm and 1200mm above finished floor level, refer to G5 Interior Environment.
- The food preparation and laundry facilities in camping grounds and accessible accommodation units in communal residential buildings have been made accessible, refer to NZS4121 cl 14.7.4n/a
- Consider where transparent glazing material may be mistaken for a door way or an unimpeded path of travel, the glazing is to be marked in accordance with the manifestation in order to make the glass visible asked
- Consider if the accessible route does have adequate activity space to enable a person in a wheelchair to negotiate the route while permitting an ambulant person to pass
- Consider if there are sufficient accessible accommodation units provided that meet the requirements for access and facilities for persons with disabilities
- Compliance seen with NZS4121 Appendix D3 in regards to all routes within an accessible building.
- Compliance seen with NZS4121 Appendix D3 in regards to wheel chair :
 - D3.3.4.2 Turning space
 - D3.3.4 Minimum clear floor space
 - D3.3.4.1 Clear width
 - D3.3.5 Reach
 - D3.3.6 Viewing range
 - Figures D12 to D18
- Compliance seen with NZS4121 Appendix D3 in regards to accessible fitting rooms within clothing shops having door locks,
- The door opening out
- The door having a Handrail/ grab rail to the inside of the door
- The room having the required clear turning space
- Coat hangers being at a max height of 1350, as per NZS4121 fig D16 (within Appendix D)

PLACES OF ASSEMBLY N/A ACCEPTABLE

D2 Mechanical Installation for Access

D2/AS1 NZS 4332 EN81 EN115 Alternative Solution

N/A

ACCEPTABLE

E1 Surface Water

E1/VM1 E1/AS1 AS/NZS 3500.3 Alternative Solution

No change to the amount of surface water collected or the way it is disposed.

However as a change in use to 2 residential apartments I have asked a question about floor levels.

- Flood zone, secondary flow path n/a
- Floor level above crown of road or above lowest point of site as per E1.2.0.1 a), b) asked in B
- ~~Storm water disposal Silt traps/sumps provided/compliant~~
- ~~Sighted number of outlets provided capable of services roof area as per E1/AS1 NZBC~~
- ~~down pipes sized and located to be compliant with E1 table 5~~
- ~~Please on the drainage plans clearly show the newly proposed impervious surfaces as having any storm water collected and discharged to an approved outlet before that storm water can become a nuisance to the house or any neighbouring properties as required by E1.2, note the storm water disposal Silt traps/sumps must be provided as per this to be proposed system and with the sumps sized per sumps sized as per E1 fig 8 and 9~~
- ~~Sighted type 1 and type 2 surface water sumps sized as per E1 fig 8 and 9~~
- ~~Sighted drains sized and located as per E1 AS/2 cl 3.2.2 and E1 AS/1 cl 3.1~~
- ~~Sighted all inspection points as required by E1 cl 3.7~~
- ~~Sighted compliant spreader in place spreading a load from a roof area of 20sqm and under as required by E2 8.1.6~~

N/A

ACCEPTABLE

E2 External Moisture

E2/VM1 E2/AS1 AS/NZS 3500.3 Alternative Solution

Recognised appraisals for systems have been provided – check the proposed use is wholly within the scope and limitations of these appraisals and manufacturers product literature.

All cladding/waterproofing/tanking:

Timber Treatment and Grading

- Treatment complies with NZS3602
- Grading complies with NZS3604

FFL clearance

All ok as required by E2/AS1

Risk Matrix

Wall cladding – some existing walls are concrete which are to have additional cladding over the top – the proposed cladding to be Flashclad metal cladding on a cavity with Flashman cavity system Branz appraisals provided OK

James Hardies Axon panel horizontal to the south elevation. Manufacturers specs provided.

You have provided details for windows installed over James Hardie Hardieflex cladding – please show this cladding location on the elevations.

- Cladding selection appropriate:
- Product information provided, details, specifications, quality assurance check sheet
- Does the drained cavity comply with the general requirements of Section 9?
- Are EIF and flush finished fibre cement claddings on a cavity regardless of risk matrix
- Is Extra high wind zone on a cavity with a ridged wall underlay
- Window head flashing in very high and Extra high wind zone must have seal between underside of head flashing and top of window flange as per E2/AS1 cl 9.1.10.4 and fig 71(c)
- If Extra High wind zone: Does it have the flashing upstand dimension as required by E2/AS1 table 7 (with a hem/hook) and been increased by 25mm to (60 mm) as required by cl 4.5.1 and 9.1 (c)
- Do any decorative elements etc attached to any EIF and flush finished fibre cement claddings have a 10 degree slope to allow water to drain off
- Sheet ply wood and fibre cement can only be direct fixed as per risk matrix table IF have horizontal joints flashed and vertical joints with a cover batten and or h jointer
- Head, sill and jamb flashing details supplied and show compliance with E2.3.2
- Direct fixed cladding must clearly show jamb battens H3.2 in place
- Check sill tray for direct fixed windows
- Window support bars to all windows over 600mm on cavity systems
- Sighted vermin-proofing above window and door heads and at the base of a drained cavity in compliance with E2/AS1 fig 66
- Joinery compliant with NZS 4211 and correct wind loading
- Proprietary system with appraisal and/or Combined Councils Approval List, codemark product
- Meter box flashing details supplied and show compliance with E2.3.2 as being met
- Exterior Cladding to soffit detail supplied and show compliance with E2.3.2 as being met
- Exterior wall to gable junction detailed supplied and show compliance with E2.3.2 as being met
- Exterior cladding joints detailed and show compliance with E2.3.2 as being met
- Exterior cladding joints and junctions with dis similar products and show compliance with E2.3.2
- Exterior Cladding to apron flashing between wall and roof detail supplied and show compliance with E2.3.2
- Penetrations through exterior wall details supplied and show compliance with E2.3.2
- Wall cladding to parapet junction details supplied and show compliance with E2/AS1 fig 12
- Cantilevered deck junction with wall details supplied and show compliance with E2/AS1 Fig 18
- Sighted all brick veneer vents in place as required by E2 to bottom and top of veneer and openings greater than 2.4
- roof pitch for masonry or metal tile roof as within scope of E2 AS/1
- Underlay to tiled roof required check table
- Sighted Concrete Block Wall waterproof membrane in place.
- Are control joints located and in correct placement by E2/AS1 for concrete, brick walls

- Brick veneer max 220kg/m², min thickness 70mm
- Max height above FGL for 1 storey 4m, 2 storey 7m – E2/AS1 fig 73b

Roof cladding

No changes to the existing roof other than installing skylights and vents – installation details shown sheets A38 and A18 OK

AURAE canopy specs provided. OK

You have shown a proposed canopy over entry doors to ground floor apartments. Please amend the plans to show where stormwater collected discharges .

- ~~Cladding system in compliance with E2/AS1:~~
- ~~Proprietary system with appraisal~~
- ~~Internal gutters as per E2/AS1 and cladding type~~
- ~~Roof flashing detailed at eave for VH wind zone~~
- ~~Roof underlay to concrete tiles in very high extra high wind zone~~
- ~~Roof underlay runs horizontally on slopes less than 10 degrees~~
- Skylight flashing details provided and compliant sighted
- ~~Solar Panel connections meet E2/AS1~~
- ~~Roof cladding ridge details supplied and show compliance with E2.3.2 and as per cladding type, metal or corrugate~~
- ~~Roof to wall ridge as per E2/AS1 fig 45 and flashing dimensions as per table 7~~
- ~~Roof cladding Barge details supplied and show compliance with E2.3.2 and flashing cover as per table 7~~
- ~~Roof cladding parallel apron details supplied and show compliance with E2.3.2~~
- ~~Roof cladding wall to gutter junction details supplied and show compliance with E2.3.2~~
- ~~Roof cladding eaves flashing details supplied and show compliance with E2/AS1 fig 45 as being met for:~~
 - ~~All roofs under 10 degrees~~
 - ~~All soffits widths under 100mm~~
 - ~~All roofs in very high extra high areas~~
- Sighted roof and pipe penetrations compliant with E2/AS1 cl 8.4.17 sighted
- ~~Sighted valleys details supplied and show compliance with E2.3.2~~
- ~~Membrane roof minimum pitch 2 degree~~
- ~~Hidden gutters minimum slope of 8 degrees~~
- ~~Membrane gutters without crooks seams metal must have welded joints~~

Deck details no deck

N/A

ACCEPTABLE

E3 Internal Moisture

E3/VM1 E3/AS1 Alternative Solution

- Sighted containment and a floor waste provided for accidental overflow as required by E3 cl 2.0 Ground floor assessed first. All wet areas have a FWG
- Upper floor all wet areas except laundries have FWG.
- How are you protecting other property from the possible overflow of laundry tubs located in the 6 apartments? If you are relying on integrated overflow to laundry tubs then Please confirm and note on the plans the laundry tub has an overflow with a 25l per minute capacity. Please provide

manufacturer's confirmation that this flow rate has been tested and verified in accordance with BS EN 274 .

And, please add a note to the plans stating that either The maximum flow rate from the inlet tap(s) is less than 25l per minute, or b) The water supplies to the inlet tap(s) for that laundry tub are fitted with proprietary flow restrictors (such as cartridges) to limit the tap flow rate to less than 25l per minute.

- Containment of accidental overflow: Please add notes to plans to clearly state whether impervious floor coverings are to be sealed or covered. Are the ground floor kitchens to have tiles or floor boards? Please amend the plans so one option is shown.
- Details on sheet A44 are given for both a tiled and acrylic showers – please highlight any tiled showers on the floor plans and provide manufacturers specifications and Branz appraisal for any pre- tiling membrane to be used.
- Sighted wet areas floors in compliance with E3 cl 3.3.1 n/a
- Sighted wet areas walls in compliance with E3 cl 3.3.1 n/a
- Sighted shower floors without enclosure or upstand as having within a 1500 radius from rose head a floor slope of 1.50 n/a appears to be proprietary showers
- Sighted junctions of shower trays to wall linings as per E3 cl 3.3.4 sheet A44
- Sighted enclosures to showers being impervious and at least 1.8m high or 50mm above the rose head in compliance with E3/AS1 cl 3.3.3. proprietary showers shown OK
- Sighted all water splash areas wall and floors in compliance with E3 cl 3.0
- Sighted all details of junctions of bath to wall and basin to wall as having a 150mm impervious lining upstand as the splashback, in compliance with E3/AS1 fig 3 detail shown sheet A44 OK
- Please amend the plans to show surfaces finishes to wall linings experiencing watersplash and thereby show compliance with E3/AS1 clause 3.1.2

N/A

ACCEPTABLE

F1 Hazardous Agents on Site

F1/VM1 F1/AS1 Alternative Solution

- Proposal includes storage handling of hazardous agents. Compliant proposal
- GIS/Edocs (address), SLUR checked for information relating historic hazardous agents on site

N/A

ACCEPTABLE

F2 Hazardous Building Materials

F2/VM1 F2/AS1 NZS 4223 Alternative

- Large glazed panels with no mid-rail, 500mm require manifestation markings asked
- Possible asbestos on site to be removed, OSH requirements met – sighted note below
- Sighted glazing as specified where subject to human impact to be compliant with NZS4223 yes
- Sighted any glazing within a wet area within 2000mm of floor as being A grade safety NZS 4223.3 2016 Section 8.1 – Proprietary showers to bathrooms ok
- Double check any references on plans to be now **NZS4223.3 2016 not 1999 sighted**
- Mirror and glass wall cladding with 200mm of the floor shall be safety glass unless glass is fully backed and completely adhered to a solid material. NZS 4223.3 2016 Section 17 n/a
- F2 NZBC NZ4223, Section 3 sighted OK

- Glazing within 2m of riser as per NZS4223.3 2016 Section 11 ok
- Please note NZS 4223.3 cl 9.1 (4) and Cl 2.2 of which were, transparent glazing material may be mistaken for a door way or an unimpeded path of travel, the glazing is to be marked in accordance with NZS 4223.3 cl the 2.2 manifestation, in order to make the glass visible. Therefore so as compliance with the above codes can be seen supply the compliant information clearly on the plans. Refer to NZS 4223.3 Cl 2.2.2, 6.6.2 (definition of low level glazing capable of being mistaken for an unimpeded path of travel, and Appendix C of which is referred to throughout the standard)

Questions if Asbestos on site

- The Health and Safety in Employment Act 2015 sets out a number of duties that are to be fulfilled in order to ensure that no employee suffers avoidable harm while working, and that no other person suffers harm because of the work being performed. In meeting its commitment to fulfil those duties so as compliance with F2AS/1 and F5AS/1 can be seen please supplies an ASBESTOS REMOVAL MANAGEMENT PLAN.

Conditions/Notes for consent if Asbestos identified

- The business/entity responsible for removing asbestos to have the appropriate licence under the WorkSafe NZ requirements related to the Health and Safety at Work (Asbestos) Regulations 2016, except for exclusions and transitional matters allowed under the Regulations. A supervisor, named on the licence, to be provided when required by the Regulations.
- No licence is required under the Regulations for ≤10m² (cumulative for site) of non-friable asbestos or ACM, and related or minor ACD.
- For Class A or B work provide copy of appropriate asbestos removal licence to the contract administrator before removal starts.
- Appropriately notify the WorkSafe NZ of licensed asbestos removal to the Health and Safety at Work (Asbestos) Regulations 2016, at least 5 days before starting the work.
- Provide an independent licensed Asbestos Assessor or equivalent under the Health and Safety at Work (Asbestos) Regulations 2016, for Class A and Class B work.
- Comply with the Health and Safety at Work Act 2015 in general, NZBC F5/AS1, WorkSafe NZ requirements including WorkSafe Management and Removal of Asbestos (Approved CoP), and Health and Safety at Work (Asbestos) Regulations 2016. Holders of a Class A removal licence to have a certified safety management system (SMS) to WorkSafe NZ requirements.

Note: Building inspection of asbestos MUST be completed by a qualified assessor prior any works starts. Asbestos testing must be performed by registered specialist. Asbestos management Plan must be provided and Procedure of handling asbestos must comply with NZBC F2 and Procedures for encapsulation in accordance to the Occupational Safety and Health section of the Department of Labour.

N/A

ACCEPTABLE

F3 Hazardous Substances & Processes

F3/VM1 F3/AS1 Alternative Solution

N/A

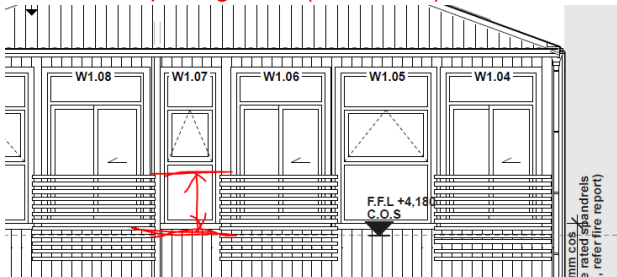
ACCEPTABLE

F4 Safety from Falling

F4/VM1 F4/AS1 Act Alternative Solution

Note barriers must meet F4 and B1 NZBC requirements

- Timber balustrade complies with NZS 3604, DBH guide to barrier design or DBH simple house design n/a
- Barrier Timber balustrade sizes spacing's and treatment complies with NZS 3604, n/a
- Barriers to opening doors(see below)



- Please dimension the height of the barrier above FFL. Please provide construction details and show fastening details to the building, and label materials to be used. Please demonstrate how these barriers comply with F4 as the gaps in horizontal members appears to allow for climbing.
- If a proprietary system please provide product information (including installation details) and include a PS1(issued within 12 months) from the manufacturer.

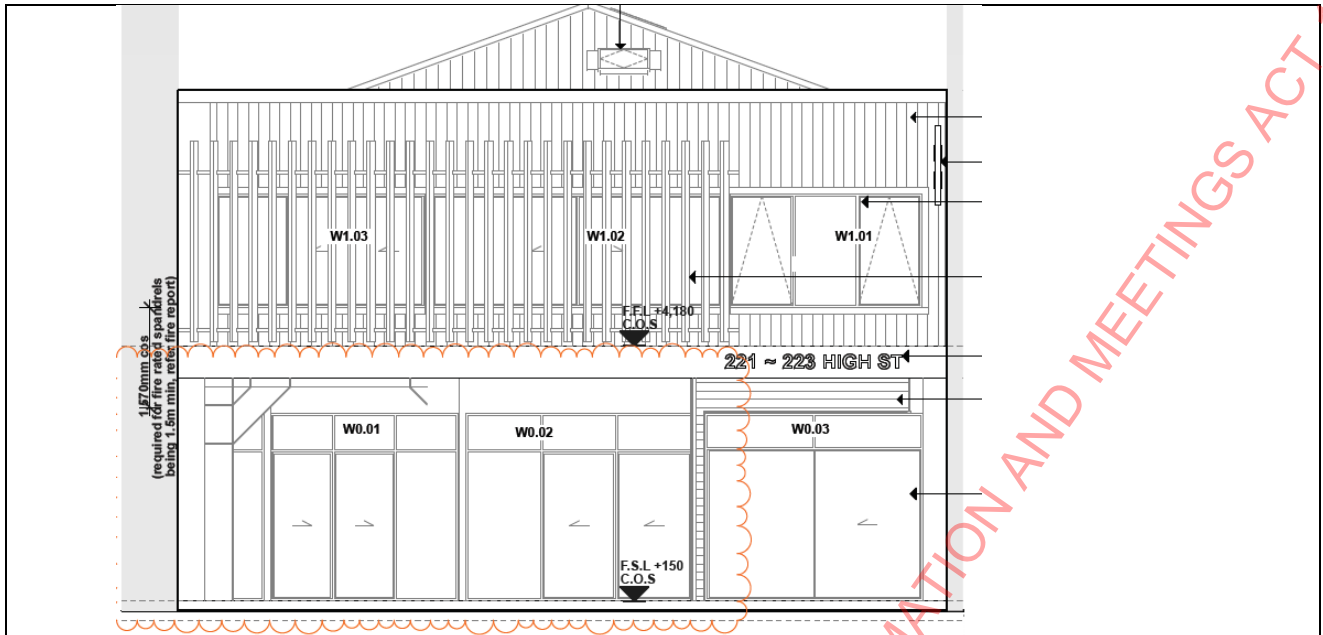
Based on the Southern elevation (see below) sliding windows to apartments 5 and 6 open more than 100mm and protection from falling is provided by aluminium louvres. Is this correct? Please demonstrate how these louvres provide an F4 compliant barrier in particular show a Dia100mm sphere would be unable to be dropped from these open windows. Check this one as the veranda is there if you fell.

Please provide manufacturers specifications for the louvres including installation instructions and details.

Please amend the plans to show a specification for the finish to the exposed section of portal frame.

Please confirm the portal frame and W0.01 do not occupy the same space.

Please amend the plans to show the wall cladding above W0.01 and W0.02.



- N/A
- Check max 100mm sphere on deck balustrades and barriers – n/a stairs solid no internal barriers
- Check decks over 1000mm in height, 1100mm commercial
- Barriers fitted above retaining walls to B1/F4 NZBC
- Check Max 150mm sphere on stairs
- Possible height of fall from an open window is more than 1000mm, a restrictor must be fitted in compliance with either F4/AS1 cl 2.1.1 (b) for children frequency, or cl 2.1.3 (b) for no children sighted restrictors in place.

N/A

ACCEPTABLE

F5 Construction Demolition Hazards

F5/VM1 F5/AS1 Alternative Solution

- Gantry's constructed to B1/AS1 requirements
- Barriers required for site location, high levels of pedestrian traffic, (i.e. in CB D), and dwellings over 2 storeys above ground, where specific hazards exist.
- Design meets/provides details of managing construction and demolition hazards on site
- Fencing details provided and compliant – no details provided on plans for the fencing off of the stairs.
- CPU required for construction or occupation?

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221 -223

HIGH ST

Proposed temporary access with door with digital lock and door closer, with stairs.

Hatch denotes scaffold tray with min 2.4m head clearance above public footpath over existing veranda to provide protection to public.

Dashed line denotes existing roof and veranda

Note:

- Off-street parking will be provided to contractors.
- All gantries must comply with NZBC F5 section 1.3

N/A ACCEPTABLE

F6 Lighting for Emergency

F6/VM1 F6/AS1 Alternative Solution

- Emergency Lighting, installation details provided and compliant
- Emergency lighting shown – Please provide a construction layout from a suitably qualified person specifying all luminaires and signage by manufacturer and product code. Please provide a PS1 from the emergency lighting designer.
- Light in accordance with specific purpose group (Type 1-7 Alarm)
- Consideration of NZBC F6 requirement that the entire escape route needs to have emergency lighting provided, and this includes the need for within all exit ways and at change of levels along/on the escape route, as the escape route ends once a safe place has been arrived at, which is also then at the end of the steps and ramp to the exterior if they are leading out from the fire designs proposed escape (emergency lighting along the ramp and on the steps, so as people rushing out of the building will not trip because of poor lighting, until they are at least at their designated safe point).

N/A ACCEPTABLE

F7 Warning Systems

F7/VM1 F7/AS1 AS/NZS 1668 NZS 4512 NZS 4515 NZS 4541 Alternative Solution

- Fire Alarm system complies with C/NZBC and fire report asked for specs in C section
- Domestic smoke alarm Type 1
- Smoke detectors within 3 m of escape of bedrooms as per F7 3.3.1
- Smoke alarms located so that an alarm is given before the escape route from any bedroom becomes blocked by smoke, This includes those parts of escape routes on other floors as per F7 3.3.1
- Sighted smoke detectors at the top and bottom of escape route (ie internal stairways)

N/A ACCEPTABLE

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F8 Signs F8/VM1 F8/AS1 Alternative Solution

- Must meet requirement of F8 NZBC i.e.
- Escape routes yes
- Emergency related features n/a
- Potential hazards
- Consider if Accessible signs throughout the accessible route for people with disabilities have been provided. Considered the entire journey starting from the first sign showing where to park their car all the way into every accessible part/ route of the building.

 N/A ACCEPTABLE **F9 Restricting access to residential pools** F9/AS1 F9/AS2 Alternative Solution N/A ACCEPTABLE **G1 Personal Hygiene** G1/VM1 G1/AS1 AS/NZS 3500. 5 Alternative Solution

- **Apartments all 6 comply as below**
- At least one door located between toilet and kitchen/food storage G1/AS1 cl 3.2.1 sighted
- Basin located in toilet or in an immediately adjacent space G1/AS1 cl 3.3.1 in bathrooms
- If there is only a single door provided between the kitchen and toilet, a basin must be located in the same space as the toilet G1/AS1 cl 3.3.1 sighted
- Number of WC,WHB, Urinals, showers requirements met sighted met
-
- **Commercial spaces:**
- At least one door located between toilet and kitchen/food storage G1/AS1 cl 3.2.1 yes
- Basin located in toilet or in an immediately adjacent space G1/AS1 cl 3.3.1 yes
- If there is only a single door provided between the kitchen and toilet, a basin must be located in the same space as the toilet G1/AS1 cl 3.3.1 yes
- Number of WC,WHB, Urinals, showers requirements met – Check the number of WCs, urinals, basins and accessible facilities as being compliant with G1 AS/1 4.2.1 and tables 1 & 2 check floor areas are 112 and 57m2 – Basically for all user groups 2 are required per occupancy. Can I accept that there is only 1 unisex WC provided?
- Please provide an additional unisex WC for each commercial fitout.
- Check can we allow this
- No showers required OK
-
- Accessible facilities meet layout requirements of G1?AS1 NZBC asked questions in D1 section
- Consider line of sight, from the access or accessible route, refer to G1 AS/1 6.1.1
- Consider G1 AS/1 fig 10 in regards to if the space will be defined as a separate cubicle or not. A separate cubicle (accessible toilet does not have to consider line of sight as one person goes in and locks the door , that no one can now come along and open door and see within the toilet area) refer to G1 AS1 6.2.1 and 6.3.1.

| | |
|--|--|
| <input type="checkbox"/> N/A | <input type="checkbox"/> ACCEPTABLE |
| <input checked="" type="checkbox"/> <u>G2 Laundering</u> | |
| <input type="checkbox"/> G2/VM1 <input checked="" type="checkbox"/> G2/AS1 <input type="checkbox"/> Alternative Solution | |
| <ul style="list-style-type: none"> Sighted laundering facilities provided as required by G2 cl 1.0.1 Sighted laundry facilities provided with service connections as required by G2 cl 1.1 Check the Laundry floor space shall be no less than shown in Figure 1. Each apartment has a laundry | |
| <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> ACCEPTABLE |
| <input checked="" type="checkbox"/> <u>G3 Food Preparation</u> | |
| <input type="checkbox"/> G3/VM1 <input type="checkbox"/> G3/AS1 <input type="checkbox"/> Alternative Solution | |
| <ul style="list-style-type: none"> Sighted cooker provided as per G3 cl 1.2 Sighted refrigerated storage per G3 cl 1.3 Sighted a provided food preparation area and surface in compliance as per G3 cl 1.1.3 Sighted wall linings adjacent to appliances and facilities as having surfaces that can be kept clean and hygienic as per G3 cl 1.6 sighted sheet 16 | |
| <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> ACCEPTABLE |
| <input checked="" type="checkbox"/> <u>G4 Ventilation</u> | |
| <input type="checkbox"/> G4/VM1 <input checked="" type="checkbox"/> G4/AS1 <input type="checkbox"/> AS 1668.2 <input type="checkbox"/> Alternative Solution | |
| <p style="color: red;"><u>Ventilation of Apartment 1:</u> Bedroom 1 :Please revise how the bedroom is ventilated. It cannot be ventilated by the adjacent habitable space as this space has a kitchen, and none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.</p> <p style="color: green;">Mechanical ventilation to bathroom met OK</p> <p style="color: red;">Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.</p> <p style="color: red;">Entry, Kitchen, Living and Dining. Please revise calculation highlighted below the operable window area is well less than required.</p> | |

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G4 Ventillation Calculation**Apartment 1****BATHROOM**

Room Size: 4m²
 Req'd min. Opening Area (5%)
 = 4m² x 0.05 = **0.2 m²**

FAN Calculation

4m² x 3.9 m height = **15.6m³**
 15.6m³ x 15 ARCH = **234m³/hr**
 234m³/hr / 3.6 = **65 l/s**

FAN: 150mm Manrose Axial
 105 l/s, 380m³/hr

BEDROOM 1

Room Size: 12.3 m²
 Req'd min. Opening Area (5%)
 = 12.3 m² x 0.05 = **0.62 m²**

Total Opening Area:
 IJ0.01 = 2.90 m² = **COMPLIES**

ENTRY, KITCHEN, LIVING & DINING

Room Size: 41.1 m²
 Req'd min. Opening Area (5%)
 = 41.1 m² x 0.05 = **2.1 m²**

Total Opening Area:
 W0.04 = 0.65 m²
 W0.05 = 0.76 m²
TOTAL = 2.3 m² = COMPLIES

Ventilation of Apartment 2:

Bathroom mechanical ventilation OK

Bedroom 1 and Bedroom 2 both appear to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.

Open plan living space has correctly sized operable windows.

Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Ventilation of Apartment 3:

Is there a laundry tub proposed for apartment 3? If so please show on the floor plan.

Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Bathroom ventilation mechanical OK

Bedroom 1 appears to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.

Bedroom 2 operable skylight OK

Kitchen living dining calcs show OK

Ventilation of Apartment 4:

Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Bathroom ventilation mechanical OK

Bedroom 1 appears to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.

Bedroom 2 operable skylight OK

Kitchen living dining calcs show OK

Ventilation of Apartment 5:

Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Bathroom ventilation mechanical OK

Bedroom 2 appears to be ventilated via another habitable space. Plus the skylight operable area of skylight enough OK

Bedroom 1 operable skylight OK

Kitchen living dining calcs show OK

Ventilation of Apartment 6:

Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Bathroom ventilation mechanical and skylight OK

Bedroom 1 appears to be ventilated via another habitable space. Plus the skylight operable area of skylight enough OK

Bedroom 2 ventilation via windows – area OK

Kitchen living dining calcs show OK

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Habitable spaces ventilated via another habitable space

1.3.4 *Habitable spaces* without openings to the exterior must be ventilated via another *habitable space* by:

- a) providing from the other *habitable space* to outside, openable windows and/or other openings of *net openable area* of no less than 5% of the combined floor area of the combined *habitable spaces*, and
- b) providing high and low level *trickle ventilators* located on the external wall (see Paragraph 1.3.5 for *trickle ventilators*), sized according to the combined floor area, and
- c) providing an area of *permanent opening* between the two spaces of no less than 5% of the combined floor area of the *habitable spaces*, and
- d) having a combined distance of the *habitable spaces*, measured between the external wall and furthest opposing wall, of less than 6 metres.

COMMENT:

Habitable spaces must not be naturally ventilated via an adjacent space that is a bathroom, kitchen, toilet or laundry.

- Sighted habitable rooms with openings to the outside that are at least 5% of the room floor area, or mechanical ventilation in place that meets requirements of G4
- Mechanical ventilation manufacturers details, plans, specification, calculations and PS1 submitted. Please provide construction details to show the ventilation vents through the exterior wall, including head, jamb and sill details. To be checked.

N/A

ACCEPTABLE

G5 Interior Environment

G5/MM1 G5/AS1 Alternative Solution

- Accessible counter required not sure of occupancies as yet
- An adequate, controlled interior temperature shall apply only to habitable spaces, bathrooms and recreation rooms in old people's homes and early childhood centres

N/A

ACCEPTABLE

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G6 Airborne and impact sound

G6/VM1 G6/AS1 Alternative Solution

- G6/AS1 NZBC sound ratings between inter-floor/inter-tenancy walls/floors comply with STC required- Habitable spaces
- Upper and lower level apartments are separated from each other OK with the GIB GBTLIC60 system OK

Two way FRR — timber frame wall — acoustic resilient mount

| Specification number | Performance | Specifications |
|----------------------|--------------|---|
| GBTLIC 60 | STC 62 | Lining 2 x 10mm GIB Braceline®/GIB Noise LB/NLB Load bearing Partition 170-175mm wide |
| | Rw 60 | |
| | FRR 60/60/60 | |

- The existing first floor is 100mm concrete slab over beams – I am satisfied that the required IC rating for this floor is sufficient. In addition ceilings are shown as lined with 13mm GIB board over GIB rondo ceiling battens OK Based on this additional layer I am satisfied that ANARP the code requirement for an IIC of 55 is being complied with. The additional on ceiling insulation might also help – is this happening.
- G6 compliance. You have indicated polished concrete floors to the upper apartments – please demonstrate how the required Impact Insulation Class rating of 55 or higher is achieved where upper level apartments are above habitable spaces in lower level apartments.
- Proposed fire separations between upper level apartments as below OK

Two way FRR — timber frame wall — acoustic resilient mount

| Specification number | Performance | Specifications |
|----------------------|--------------|---|
| GBTLIC 60 | STC 62 | Lining 2 x 10mm GIB Braceline®/GIB Notselline® each side LB/NLB Load bearing Partition 170-175mm wide |
| | Rw 60 | |
| | FRR 60/60/60 | |

- Proposed fire separations to ground floor are all shown as having the GBTL120 system with R2.2 pink batts. Please demonstrate how the required STC ratings are achieved between tenancies on the ground floor. The GBTL 120 system indicated has an STC rating of 45.

Two way FRR — timber frame

| Specification number | Performance | Specifications |
|----------------------|-----------------|--|
| GBTL 120 | FRR 120/120/120 | Lining 2 layers 16mm GIB Fyrelline® each side LB/NLB Load bearing |
| | STC 45 | |
| | Rw 45 | |

REQUIREMENTS OF NZBC CLAUSE G6

The minimum requirements in NZBC Clause G6 between occupancies to 'prevent undue noise transmission from other occupancies or common spaces to household units' are:

- Sound Transmission Class (STC) for walls, floors and ceilings of no less than 55.
- Impact Insulation Class (IIC) for floors of no less than 55.

In this literature, systems that are designed to achieve compliance with this requirement are called 'Intertenancy' systems. Those that are suitable for non-building code applications i.e. partitions within the same tenancy, are called 'Sub-Intertenancy' systems.

 N/A

 ACCEPTABLE

 G7 Natural Light
 G7/MM1 G7/AS1 Alternative Solution

Assessment undertaken individually for each apartment.

Apartment 1: This apartment has just 1 external wall with windows.

Please demonstrate (by providing a cross section showing window heights) how the bedroom (habitable space) complies with the requirement for visual awareness of the outside environment.

Please demonstrate (by providing a cross section showing window heights) how the head height for windows complies with G7/AS1 part C. Please note a window area in excess of 10% of the floor area may be necessary.

Please also demonstrate whether the no sky condition applies for external glazing. If it does please provide a schedule of surface finishes for the floor ceiling and walls so high reflectance surfaces can be seen as per G7/AS1 clauses 1.02 to 1.04

Apartment 2:

Please demonstrate how both the proposed bedrooms meet G7. Please demonstrate how the required levels of natural light and an awareness of the outside environment are met.

The living area assessed and OK. – well over 10% floor area. This answers

Apartment 3:

Bedroom 2: Please demonstrate how bedroom 1 meets the requirements of G7 for an awareness of the outside environment. Please include the size of the skylight in G7 calcs on sheet A37.

Bedroom 1 Please demonstrate how bedroom 1 meets the requirements of G7 for natural light. (borrowed light from windows W1.07, W1.08 and W1.09 provide daylight to this bedroom) Please show compliance with G7/AS1 clauses 1.02 to 1.04, please include any cross sections, schedule of floor ceiling and wall finishes showing surface reflectance's as required. An awareness of the outside environment via living dining windows OK.

Living area has enough glazing for 80m2 easily meets G7.

Apartment 4:

Please add a G7 assessment of apartment 4 to sheet A37. Please include the size of the skylight in G7 calcs on sheet A37.

Living dining kitchen areas. W1.04-W1.06. enough glazing for 100m2 OK

bedroom 1 meets the requirements of G7 for an awareness of the outside environment.

Bedroom 1 Please demonstrate how bedroom 1 meets the requirements of G7 for natural light. (borrowed light from windows W1.04 and W1.05 provide daylight to this bedroom) Please show compliance with G7/AS1 clauses 1.02 to 1.04, please include any cross sections, schedule of floor ceiling and wall finishes showing surface reflectance's as required.

Living area has enough glazing for 80m2 easily meets G7.

Apartment 5:

Compliant for both daylight and awareness of the outside environment.

Apartment 6:

Compliant for both daylight and awareness of the outside environment.

Check Bedroom 210m2 – Only light provided by FW1.11 W1.11 W1.12 and FW1.12 4x0.45=1.8m2 OK

N/A

ACCEPTABLE

G8 Artificial Light

G8/VM1 G 8/AS1 NZS 6703 Alternative Solution

- Residential dwellings must have minimum LUX requirements outlined in G8/AS1 NZBC

N/A

ACCEPTABLE

G9 Electricity

G9/VM1 G9/AS1 Alternative Solution Certificate Required pre-CCC

- Electrical certificate to be supplied
- ~~In Buildings intended for use by persons with disabilities, light switches and socket outlets shall be horizontally aligned with the door handles. The toggle, rocker, push pad, or push button control of light switches shall project clear of the switch plate~~

N/A

ACCEPTABLE

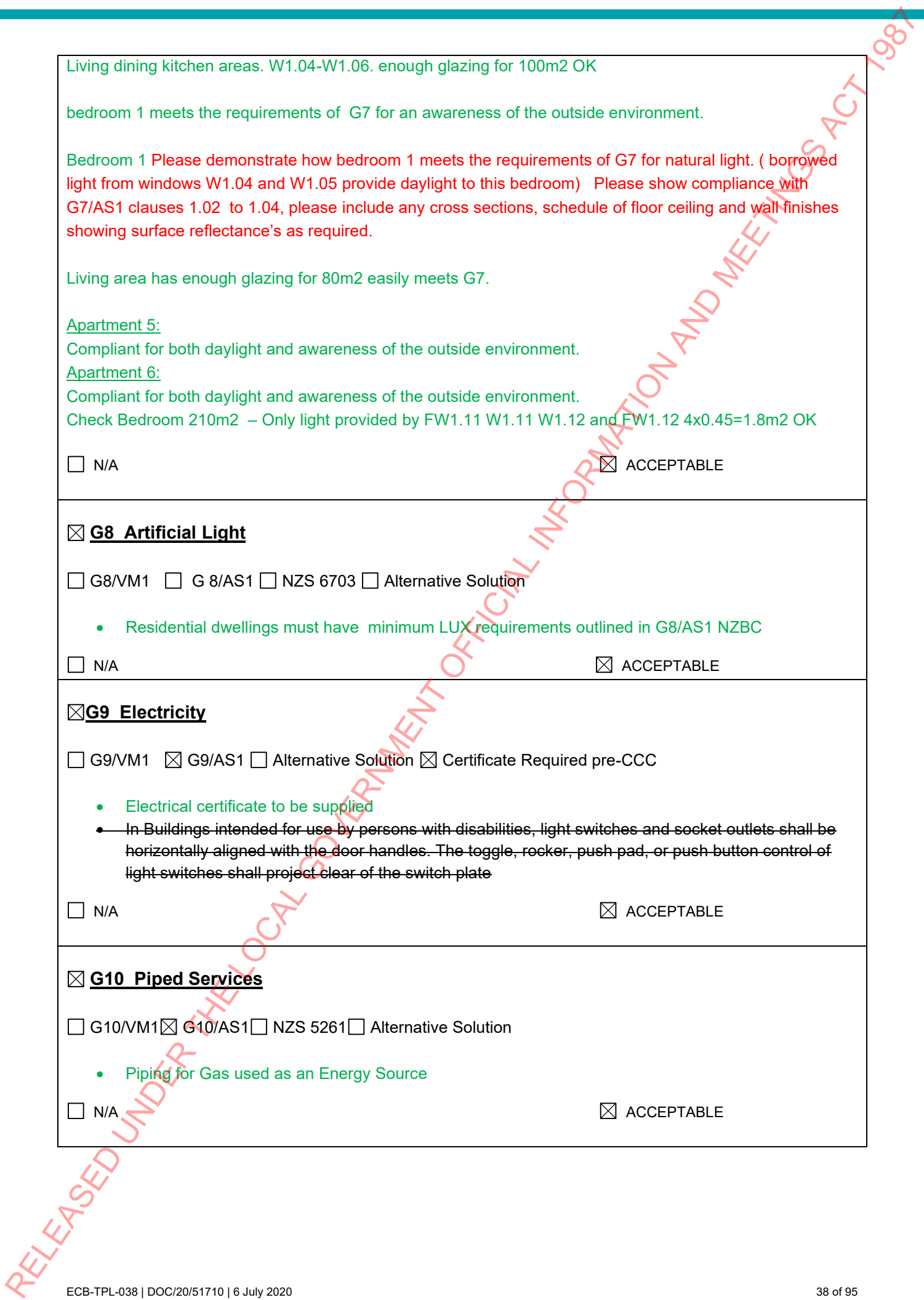
G10 Piped Services

G10/VM1 G10/AS1 NZS 5261 Alternative Solution

- Piping for Gas used as an Energy Source

N/A

ACCEPTABLE



G11 Gas as an Energy Source G11/VM1 G11/AS1 Alternative Solution Certificate Required pre-CCC

- Please show the location for the existing gas meter.
- Gas Meters shall not be located in:
 - A lift-well or lift machine room
 - A space containing electrical switch gear
 - Vertical safe path or riser ducts, or
 - A position that obstructs escape routes in the event of an emergency
- The gas infinity system can be located as proposed refer NZS5261 fig3 and table 16
- Rinnai HDi200 infinity units to apartments OK specs supplied and flue installation instructions.
- The gas bottles can be located as proposed refer NZS5261 G2-G4 (page 150- 154)

 N/A ACCEPTABLE **G12 Water Supplies** G12/VM1 G12/AS1 AS/NZS 3500. 1 AS/NZS 3500. 5 Alternative Solution

- Distance from HWC to Kitchen compliant assess when gas heaters shown. OK
- Potable water supply - as a fee simple subdivision is proposed individual supply for each lot will be required. Please provide a water supply plan showing locations of all water feeds to the 6 apartments and 2 commercial spaces. Please show all pipe sizes. Please show locations for water meters and tobies. And please show location of the backflow prevention device.

Please revise notes referring to VT26 gas water heaters as a Rinnai HDi200 infinity is shown for each apartment

- sanitary fixtures as being tempered and less than 55 degrees in residential homes in gas water heater specs
- Sighted water supply pipe work to all new fixtures sized as per G12 table 3 &4
- Please on the construction plans clearly show/state a safe tray below each Hot Water Cylinders in the roof space as per G12 5.2.3 which requires water to be prevented from penetrating another household unit within the same building, as per E33.2 requirements. n/a external gas water heater.s
- Sighted hot water supply to supply to sanitary fixtures as being tempered and less than 45 degrees in early childhood centres, schools, old people's homes, and institutions for people with psychiatric or physical disabilities, hospitals n/a
- the plans or in the specification show any the required backflow device as required by G12 cl 3.4.1 and the back flow proposed compliant with hazard requirements of table 2 (spa pools swimming pools etc) n/a for apartments
- HWC specifications and valved set up supplied and shows compliance with G12
Please on the construction plans supply HWC schematic drawings showing the setup and locations of all valving and including the relief drain and if it is a combined relief clearly show the required tarnishing (clear 25mm separation) and its location, so compliance with G12 can be seen established.
- HWC seismic restrained yes HWC's shown to lower floor commercial tenancies.
- Consider Copper or polybute under concrete floor n/a HW supply near ceiling so pipework can be run up and down if required.

~~Please have noted that the water supplies to the island bay kitchen is polybutylene, please as polybutylene piping only has only a 15 year durability life and as B2 requires pipe work under structural concrete slabs to have a 50 year life, supply details of how this will be achieved?, perhaps~~

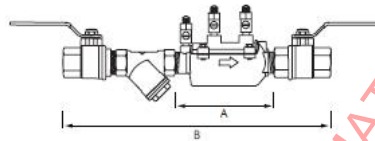
by a 65mm UPVC duct pipe that is set up in a way that allows any possible failure of the polybutylene water to be recognised, and then the water supply replaced within this 65mm sleeve.

1. Please show on the plans the concrete floor pipe details, as B2 requires pipework under structural concrete slabs to have a 50 year life (min). Perhaps by installing a uPVC duct pipe that is set up in a way that allows any possible failure of the water pipe to be recognised, and then the water pipe replaced within this sleeve

350 (SMALL)

DOUBLE CHECK VALVE ASSEMBLY
20MM - 50MM

WILKINS



2.

N/A

ACCEPTABLE

G13 Foul Water

G13/VM1 G13/AS1 AS/NZS 3500.2 AS/NZS 3500.5 Alternative Solution Trade Waste
 Env. Health

Please clarify whether you are re using any existing sewer or stormwater laterals.

If you are planning on reusing either lateral please show how you will achieve compliance with AS/NZS 3500.2:2015 clause 3:16 re-use of existing sanitary drains n/a all new

- Plumbing schematic layout compliant (required if a two storey house) one supplied OK
- Are existing stormwater or sewer laterals being used? If so show compliance with AS/NZS3500.2:2015 cl 3.16 – reuse of existing sanitary drains – plumbing plans show totally new foulwater drainage system up to council main
- Anchoring of drains required? see AS/3500 part 2 fig 3.2 n/a
- Trench shared with other services? is the sewer water drain in correct location AS/3500 part 2 fig 3 Water services not shown.
- Silt traps/sumps provided/compliant n/a
- Overflow relief for sewer drain (private) correct height above the ground check G13 AS/2 cl 3.3.1 and AS3500 part 2 cl 4.6.5
- Terminal vents size 80mm G13 and 50mm AS3500 part 2 sighted 2 vents both 50mm above highest connection. OK
- Sighted drain terminal vent in place, correctly sized and on the wet , and open vented – AS/NZS 3500.2 cl 6.8.5 2 TV's both DN50 OK
- Branch vent size and located per G13 table 5 AS3500 part 2 fig 3.6 OK
- Please amend the plans to show all inspection points as required (before drains travel under building/SLAB, at all WC connection to drain)
- Sighted gully traps charged – ORG to be charged by tap- noted - OK
- Main drains sized and graded as per AS/NZS3500.2:2015 section 3 or G13/AS2 – yes DN150 grade to be
- Please show the proposed minimum gradient for the DN150 drain.
- Please note you have shown a DN150 stack connecting to a DN100 drain please revise so a larger pipe does not connect to a smaller pipe.
- Unvented branch drains are shown as DN100 min gradient 1.65% 1:60 OK, Max 2 WC's and 30DU's

per branch drain. Checked all GF branch drains less than 10m and none have over 30DU'd or 2 WC's.

- Main drains no less than 100mm dia, branch drains shall be 65mm dia – see AS/NZS3500.2:2015 section 3
- Plumbing drains sized and graded as per AS/NZS3500.2:2015 table 6.5.1
- Base of stacks and restriction zones in compliance with AS/NZS 3500.25 cl 6.6-6.7
- Anchoring of drains to AS/NZS 3500.2 fig 3.4.4
- Height of gully above ground in compliance with AS/NZS 3500.2 cl 4.6.6.6
- Connections to base of stack and near base of stack in compliance with AS/NZS 3500.2 fig 6.6.3.2 and fig 6.7.1 – sighted restricted areas in the form of notes on the plans.
- Back Flow prevention

As there is potential for the two commercial units to become food outlets/cafes etc. Please consider running a greasy waste line alongside the sewer line that they are putting in for either or both of the two units to be able connect up to. Please also consider installing a communal grease trap at the rear of the building.

Trade waste, grease trap (commercial site where it has a commercial Kitchen) Comment from Wayne.

Good morning Lyall,

As there is potential for the two commercial units to become food outlets/cafes etc. I suggest that they run a greasy waste line alongside the sewer line that they are putting in for either or both of the two units to be able connect up to. Should also consider installing a communal grease trap at the rear of the building.

Cheers

Wayne

•

N/A

ACCEPTABLE

G14 Industrial Liquid waste

G14/VM1 G14/AS1 Alternative Solution Trade Waste Env. Health

N/A

ACCEPTABLE

G15 Solid waste

G15/VM1 G15/AS1 Alternative Solution

Upper apartments have a space for rubbish – not labelled,– Ground floor units have external space to keep bins OK

- Please label the Location of safe hygienic holding prior to disposal, of solid waste arising from the intended use of the building on the plan.
- Based on the plans supplied you are providing a ground floor rubbish area for the upper level apartments. Please amend the plans as follows:
- Please label the ground floor rubbish area on the plan.
- Please demonstrate how the ground floor rubbish area is to be adequately ventilated to the open air in compliance with NZBC G4.
- Please confirm the concrete floor will be graded at 1 in 50 to a floor drain. FI
- finishes to Walls in spaces where storage bins are likely to receive food wastes and are subject to spillage shall be constructed of concrete, galvanised sheet steel, vinyl or similar material.
- How is the FWG in the ground floor rubbish area to be charged?
A. A water supply tap, complying with NZBC G12, shall be provided for washing down common

waste storage areas.

N/A

ACCEPTABLE

H1 Energy Efficiency

H1/VM1 H1/AS1 NZS 4214 NZS 4218 NZS 4243 NZS 4214 NZS 4305 NZS 4859
 Alternative Solution Solar unit ALF Design

Thermal Insulation

Please clearly show the extent of

- Hot water supply to kitchen insulated as per H1 sec 5 if longer than 12m yes
- HWC distribution pipes thermally insulated within the first 2m of the cylinder, as per NZS4305 3.7 yes
- R Values meet the requirements of NZS4218 table 2 Ceiling R3.2 pink batts OK
- Walls R2.8 Pink Batt's Ultra OK
- H1 report supplied calculated in accordance with NZS4218 cl 1.1.2 with compliant heat loss Yes
- The H1 calcs show the overall building performs better than the reference building (less heat loss)
- Garage/habitable space area clearly defined as insulated? n/a
- Is there a min gap of 25mm between the roof underlay and the insulation? As per NZS4246 cl6.2.10 and Fig23 no skillion OK
- If the commercial building under 300sqm with window areas of less than 30% to its walls then the schedule Method OK modelling used.

Based on the details for installation of replacement joinery in concrete block walls you are strapping and lining internal walls and installing 45mm expol insulation. Please amend the wall framing notes to clearly show the full extent of this additional strapping and lining on the proposed floor plans for both levels.

How have you determined that condensation will not occur between the expol and the external concrete walls.

Please confirm the only timber framed external walls are to the Southern Elevation. Please add notes to the plans to state the framing specs and any insulation added to this external wall.

Schedule Scope

~~Total area (including north elevation) less than 30% total glazing coverage (schedule)~~

~~Residential less than 300sqm's~~

- ~~Zone 2~~
- ~~Ceilings R2.9~~
- ~~Walls R1.9~~
- ~~Floor R1.3~~
- ~~Vertical Glazing 0.26~~
- ~~Skylights, double glazed~~

N/A

ACCEPTABLE

-
-
-
-

N/A - these New Zealand Building Code clauses were considered, but not relevant to this consent application to demonstrate compliance.

Collective evidence referred to can be found in Consent Document Container in TRIM

Attachments:

Cross - indicates the box related to all additional sheets used to record assessment decision. For each additional sheet, write the number of sheets attached where there is more than one.

| | |
|---|---|
| <input checked="" type="checkbox"/> Work Sheets | <input checked="" type="checkbox"/> Alteration – section 112(2) |
| <input checked="" type="checkbox"/> Change of use - section 115 | <input type="checkbox"/> Dialogue Record |
| <input type="checkbox"/> Waiver Modification | <input checked="" type="checkbox"/> Compliance Schedule changes |
| <input checked="" type="checkbox"/> Checklist for Producer statements | <input type="checkbox"/> Collective evidence |
| <input type="checkbox"/> Revised documents received and assessed | <input type="checkbox"/> section 72 and hazards |
| <input checked="" type="checkbox"/> Alternative solutions | <input checked="" type="checkbox"/> Approved for Granting and issuing |

I have assessed the documentation submitted with this application inclusive of subsequent further information and I am satisfied, on reasonable grounds, that the provisions of the building code would be met if the building work is completed in accordance with the approved stamped documentation.

Assessed by:

Name: **Lyall Huizer**

Signature:



Date: 1/5/2021

Name:

Signature:

Date:

Form of Review Required: Technical Internal Audit not required

Reviewer's Comments

Notes:

Indicate Building Code clause and NZ Standard addressed. Identify what was assessed, what you assessed it against and once satisfied on reasonable grounds indicate your outcome.

Processing check pre RFI (13/4/2021)**Initial Property/PIM check**

- Legal – ownership, property, value = *checked and confirmed by BO*
- Site factors = *checked and confirmed by BO, RFI on floor levels*
- Hazards – natural, HAIL, EPB, Heritage = *checked and confirmed by BO*
- Infrastructure *n/a*
- Compliance Schedule, BWoF = *The CS is to be completed and signed off for each section*
- Prior consents, existing buildings = *n/a*
- Planning, subdivision, sect-37 = *n/a*
- Dev Con's = *checked and confirmed by BO, calculations completed correctly*

- Others – TW, EH, RT = *n/a*

Comments

*Inspections and Proclaim boxes in 038 form not completed
Ditto in CI, not entered into CI*

BC processing – General

- General form headers, description = *yes. Bracing calculations checked yes but nor means of compliance*
- Competency = *yes*
- RBW/LBP checks = *yes, na to this project*
- Dialogue = *dialogue record not completed*
- Has all documentation been saved using the appropriate naming conventions? *Noted:*
Doc 10 should be SPECIFICATIONS, product data?
Doc 11 is CALCS Architectural (not structural)
Doc 21 & 22 are not specifications (SBCO issue in naming conventions)
Doc 49 – is a FENZ document, provision made for that in naming

NZBC clauses:

Key risk areas (discuss) Structure – the engineer has stated that 70%NBS is being achieved ANARP. But there is no discussion as to what the limiting factors are, and why greater than 70%NBS can't be achieved. No reasonable argument made for ANARP. No discussion on probable mode of failure, in a ULS event will sleeping occupants be able to escape OK?

Additional question added to RFI.

BC processing – supplemental Worksheets

- Producer Statement checks = *ok Noted that legal description not provided*
- Alternative Solutions = *ok section completed (but is provided twice)*

- Natural Hazards sect-71/72 *N/A*
- Waiver/modification = *NA*

Producer statements

- (a) Has the accept procedure for producer statements for design been followed? *yes*

Requests for further information

Have RFIs been clearly articulated? *Yes, questions are clear and information provided*

BC processing – Pre Approval

- Requests for further information

- (a) Have all RFIs been addressed and accounted for on the processing checklist? *yes*
- (b) Have superseded drawings, if there were any, been removed from the Consent – APPROVED set? *NA*

- 038 clearly recorded, signed, dated, *yes*
- Ci Proclaim completed correctly = *yes/no*

The next section only relates to commercial applications

Sect-118 Accessibility requirements = *Discussed by BO, and RFI raised*

Sect-112 Alter Existing = *Refer discussion re NBS above*

Sect-115 Change of Use = *Sect-115(a) (new households) G6 noted for ANARP, however no demonstration of tested systems has been offered for ITC55? (discuss)*

(C1-C6 Extra commercial consideration: *Fire protection well covered, good picking up on the fire window issue (discuss)*


Have all the features for the protection from fire been clearly shown in the approved plans and specifications?
Comment below:

Sect-100+ Compliance Schedule & Spec Systems = *The CS section needs to be completed and identified that the standards are appropriate*

Further Actions

Process issues needing action, record

Were there any training needs identified and if so, record below what type of training will be required:
(Send email to Quality Assurance Manager if formal train required) No specific training suggested, fire training is being developed shortly.

Assessed by (Senior Officer) Name: **Natalie Shearer** Signature: 

Date: 4/5/21

- Decision to grant (discuss)

Lyll has addressed all the matter raised in the pre RFI review this consent can now be granted

Consent cover letter and Form 5

- Cover Letter = yes

- Form-5 Consent, conditions yes

- Attachments = yes

- BC approval notes = yes

- Required inspections = yes

- Required documentation = ok

Statutory clock

-Has the statutory clock been stopped and started appropriately? The clock need to be updated before issue to reflect the time taken

Assessed by (Senior Officer) Name: **Mike Humphrey** Signature: 

Date: 4/11/21

Issues to be resolved as per RFI #1

Date sent:

Response received:

1. B1: structure - you have provided earthquake strengthening calculations and drawings bringing the building up to 70%NBS - Please provide a statement from the Seismic Engineer showing why this is the highest level of compliance possible based on an "ANARP" analysis. RFI1 response received 14/7/2021 contains a response from the structural engineer giving clear reasons for limiting the seismic

strengthening to 70%. See below – I agree with this reasoning and accept that this level of strengthening is ANARP for this building and can be accepted under BA115 part (a) In particular paragraph b highlights the fact that due the age of construction(1950's) all structural elements might need to be replaced for 100%NBS – clearly which would possibly involve a rebuild of the whole building not reasonable practicable for financial reasons.

- a) Steel sections for the ground floor strengthening will be bigger if we aimed higher than 70%NBS and this will mean less usable space for the proposed use of the building.
- b) We are estimating that the building was constructed during the 1950's. If a higher level of compliance is needed, say 100%NBS, the rest of structural items need to be strengthened/upgraded as well due to the building age. The cost involved in strengthening/upgrading the rest of the structural items will significantly outweigh the benefits that will be gained.
- c) Once the strengthening works are in place, the structural system of the building will be quite regular for earthquake loading. The strengthening involves providing new concrete walls at the longitudinal side walls and new steel moment resisting frame at a regular spacing in the transverse direction. With these new structural elements in place, the performance of the building under earthquake loading will be balanced and the risk will be relatively low. Regular buildings generally performed quite well during the earthquakes as observed in Christchurch in 2011.

2. Please include in this statement the mode of failure for the building before and after the proposed earthquake strengthened work has been completed. In particular a statement covering the steps taken to ensure that in a ULS event sleeping occupants be able to escape. RFI1 response received 14/7/2021 contains a response from the structural engineer below – confirming that the building will not collapse and occupants can escape answering Q2

The mode of failures of the structure before strengthening is flexural yielding of the existing concrete columns at Level 1 in the longitudinal direction and having a limited number of shear walls at both levels in the longitudinal direction. While in the transverse direction, we are expecting pounding actions to the neighbouring buildings since the existing concrete moment resisting frames at the ground floor are relatively flexible and the reinforcing confinement does not meet the current code standard. These modes of failures are considered as non-ductile failures. Once the limited ductile ($\mu=3.0$) strengthening works are in place, we are expecting

the failure to happen at Level 1 existing concrete columns in the transverse direction and ductile yielding of the new steel frames. The type of failure will be flexural yielding in a ductile manner. Since the 70%NBS strengthening design can achieve a limited ductile failure, we can say that the structure may suffer damage but will not collapse in this considered ULS event design level (70%NBS), so that occupants can escape the building.

3. Building consent application form : Section 7 – Please amend the proposed classified use to Commercial and Housing. RFI1 response received 14/7/2021 contains a revised BC application form sheet 7 now corrected answering Q3
4. PS1 from SED engineer : Please enter the Lots and DP number into the PS1 as supplied. RFI1 response received 14/7/2021 contains a revised PS1 answering Q4
5. Please show the FGL adjacent the lower level apartments (Margaret street service lane) and demonstrate how compliance with E1 clause 2.0.1 is met. (Floor level above crown of road or above lowest point of site as per E1 2.0.1 a), b)) RFI1 response received 14/7/2021 contains a note stating that the FFL is the minimum 150 above the crown of the road. Making Q6 moot.
6. If the required difference in level cannot be achieved please demonstrate how surface water is prevented from entering apartment 1 and 2. See above question is moot. OK
7. Please amend the cross sections and floor plans to show the extent and construction details of any proposed ceilings. RFI1 response received 14/7/2021 contains revised sections now showing ceiling construction details. Ref sheets A14,16,21,22, and 23 These show the Ground floor FR ceiling above apartments 1 and 2, (GBSJA45 2/13mm fyreline on metal clip ceiling battens) and notes specify ceilings types to the upper level (13mm GIB on steel battens) answering Q7.

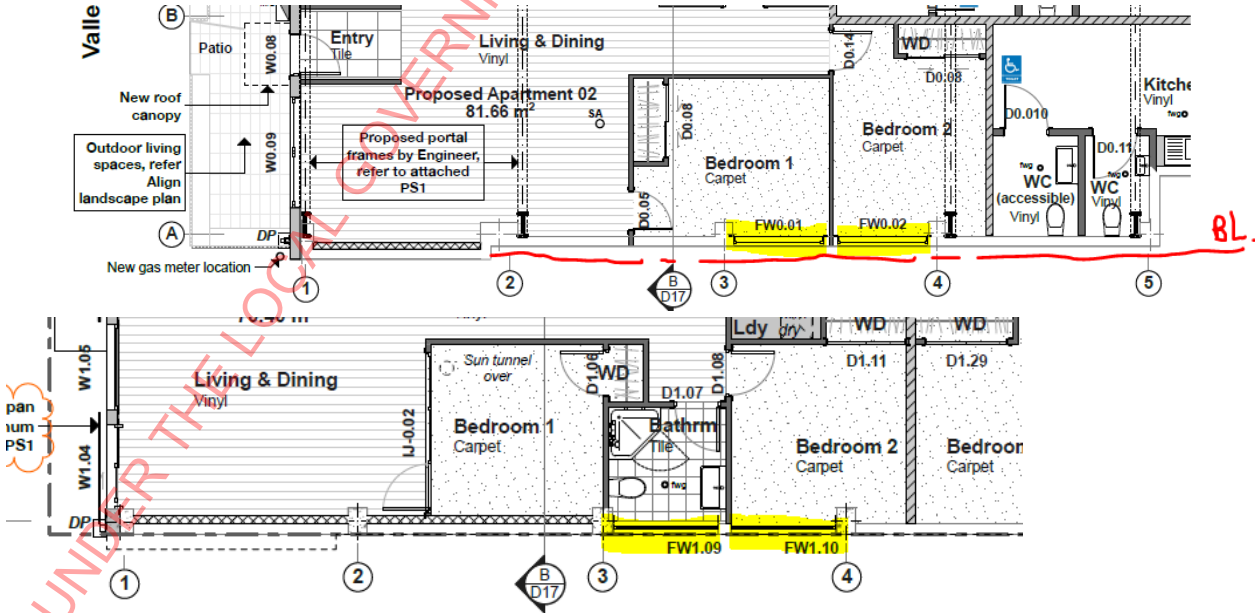
8. Proposed type 4 and type 5 alarm systems. Please provide a layout plan from a suitably qualified person showing all detectors by type, sounder locations, location of the manual call point/s and fire alarm panel. Please provide evidence that Fire and Emergency have approved the proposed location for Multi Zone fire alarm panel as per NZS 4512:2010 Paragraph 403.1 Not answered by the fire engineer - need to see the design and FENZ approval.
9. Please amend the plans to specify fire collars to both the stacks, plumbing wastes and other penetrations as required. RFI 1 response received 14/7/2021 contains a general note added to the plans see below - and a further note regarding inspection of collars etc by an independent person has been provided. Follow up phone call confirming who has specified the collars etc. The fire engineer will provide a PS4 covering all penetrations. Test results have been provided however there are no data sheets for the proposed FR collars foams or sealants please provide.

FRR Penetration - Steel Portal
 All Steel Portal Frame to be fire stopped with **Hilti 606 sealant** at penetration to FRR walls. Refer assessment for instruction.

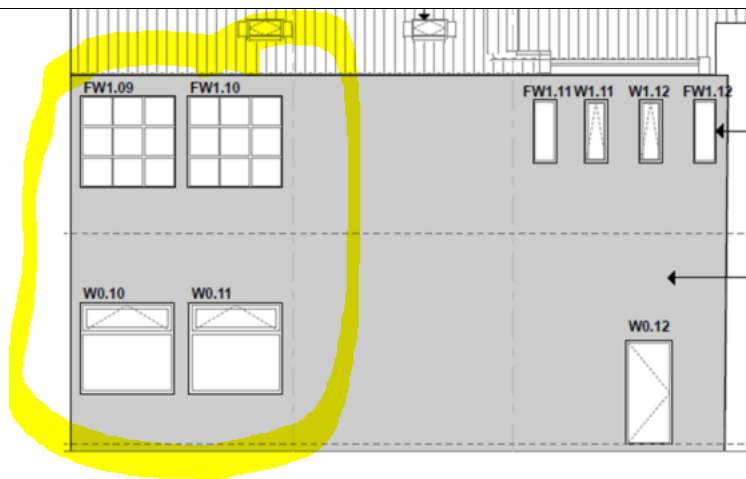
FRR Penetration - pipes
 All pipes to be fire stopped with **Hilti fire collar CFS-C** penetration to FRR walls.

FIRE STOPPINGS MONITORING:
 Coordination and construction monitoring of all fire design elements will be provided on site by a suitably qualified person to ensure the design and final construction adequately meet the fire design report with an associated Producer Statement confirming compliance.
 Fire Stoppings location to be documented, information & specification to be provided to fire engineer to review.

10. Based on the plans supplied windows FW1.09, FW1.10, W0.10 and W0.11 are new replacement windows in walls within 1m of the boundary. Therefore please demonstrate how the proposed glazing is compliant with C/AS2 clause 5.2.4. Based on table 5.1 the maximum permitted size of fire resistant glazing is 1m² and figure 5.1 requires a separation distance between adjacent FR windows of at least the width of the wider window being installed. (see below) Question not answered by Fire Engineer in a way I can understand. Phone call to designer. Please note windows FW1.09 and FW1.10, W0.10 and W0.11 are located on or not far from the boundary.



RELEASED UNDER THE OFFICIAL INFORMATION AND FREEDOM OF INFORMATION ACT 1987



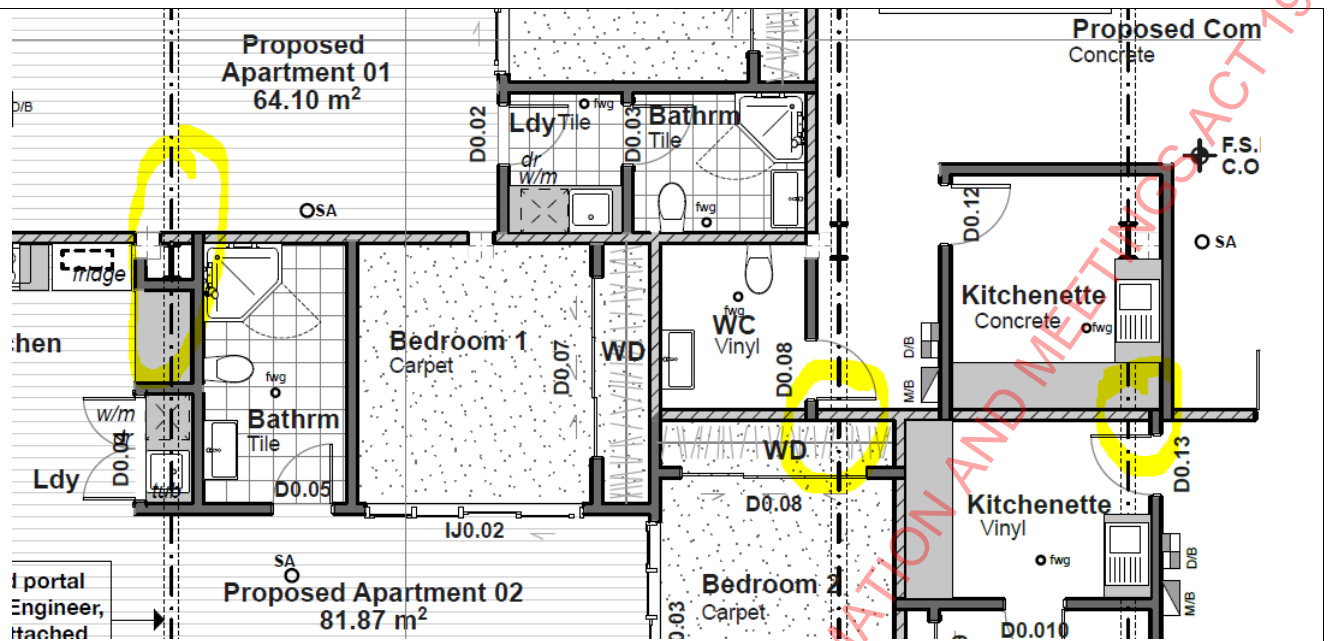
11. Fire Rated windows and doors: Please provide manufacturers specifications for all external fire rated windows and doors. Please revise the window schedule to include the manufacturer of the windows, the particular model or type, and their proposed FRR ratings. RF1 response received 14/7/2021 contains a revised door and window schedule now stating the actual FR windows and doors to be installed. (sheet 28) with details for installation on sheet 49 OK Specs not provided and they need to include door sets for internal doors.
12. Please demonstrate how E2 compliance is to be achieved by providing details for the installation of fire rated windows including sill, head and jamb details. RF1 response received 14/7/2021 contains these details to sheet 49 – FR windows are set into concrete – details provided with Fire retardant sealant to gaps is shown OK
13. Doors SD1.01 to SD1.05: These are shown on the fire report as requiring a 60 minute fire rating. Please provide a manufacturers specification for all proposed fire doors including evidence of a -/60/60 fire rating. Please add this information to the door and window schedule. Please include manufacturers installation details for fire and smoke doors showing head and jamb details as required. Please revise the internal door schedule to include the manufacturer of the doors, the particular model or type, and their proposed FRR ratings. RF1 response received 14/7/2021 contains specs for the FR doors - The -60/60/sm rating is confirmed in specs and on the plans OK Need to see the spec for hardware
14. Please show on the plans all structural steelwork to be fire rated as per C/AS2 clause 2.3.4 . Please clearly state the particular fire rated system proposed and the FRR value this system provides. (FRR of 120 required) RF1 response received 14/7/2021 contains a note from the SED engineer confirming that the new steelwork itself does not need a fire rating as additional steelwork is providing bracing not gravity load support answering this part of Q14. OK

Hi Andrew,

We can confirm that the ground floor portal frames don't need to be fully fire rated. The main gravity supports are still the existing concrete beams and columns. If the portal frames were damaged by fire, it will not cause any stability issue.

Thanks.

15. Please provide details showing steelwork penetrations through fire separations in particular how the integrity of the fire separation is to be maintained. (see below) RF1 response received 14/7/2021 contains a note stating that HILTI 606 fire stopping sealant to be used where steel penetrates the GIB FR walls – need to see data sheet for the HILTI 606 sealant. Does the ceiling to apartments 1 and 2 means that the beam penetration through the walls is within this protected area? is the purpose of the GIB 45min ceiling to mean the beam penetrations through the walls above this ceiling do not need to be fire rated?



16. Final Exit for commercial space 01: Please revise W0.02 to show a hinged door of the correct width so compliance with C/AS2 3.15.1 can be seen. (sliding door acceptable where the occupancy is less than 20) RFI1 response received 14/7/2021 contains a revised door layout with a hinged door in place – answering Q16
17. Please provide manufacturers documentation demonstrating the proposed carpet, vinyl and floor boards meet the minimum critical heat flux value of 2.2 see 2.2kW/m². RFI1 response received 14/7/2021 contains a note stating there is no selection made as yet - not acceptable the actual products must be specified and product data in support of the minimum critical radiant flux supplied.
18. Fire report 1.3.6 states penetrations in fire separations to be fire stopped – you have supplied testing reports for various Hilti products provided. Please add notes to the plans to clearly state which Hilti firestop / jacket products are to be used where on the plans. Please provide manufacturers specs for any proposed fire stops/ fire rated sealants. RFI1 response received 14/7/2021 contains the notes added however No data sheets or installation specs please supply data sheets for all Hilti products expected to be used on site.
19. Please show the height of door handles to W0.01 and W0.02. RFI1 response received 14/7/2021 contains revised joinery layouts showing the heights of handles answering Q19
20. Please confirm the door opening forces of no greater than 22N for interior hinged doors and 38N for exterior hinged doors(you have indicated 2 sliding doors as final exits) RFI1 response received 14/7/2021 contains this note added to the plans answering Q20
21. Please show manifestation to windows W0.01, W0.02 and W0.03 so compliance with NZS4223.3 2016 clause 6 and clauses 2.2.2 can be seen. RFI1 response received 14/7/2021 contains revised joinery layout now showing manifestation as required and answering Q21
22. Please provide a dimensioned floor plan and interior elevations of the proposed unisex accessible bathrooms showing the following: RFI1 response received 14/7/2021 contains revised plans and interior elevations as requested.
 - They are of sufficient size for the manoeuvring of wheelchairs to and within the cubicle
 - Include an interior clear space of 1600mm by 1900mm – sighted for both
 - Door must open out, but can open to bathroom if the bathroom big enough for the door arch not to intrude into the required 1500 turning circle (NZS4121 C10.5.5) door opens out for both
 - Have a Handrail/ grab rail to inside of door sighted for both
 - Have the ability to wash hands while seated on the pan sighted for both

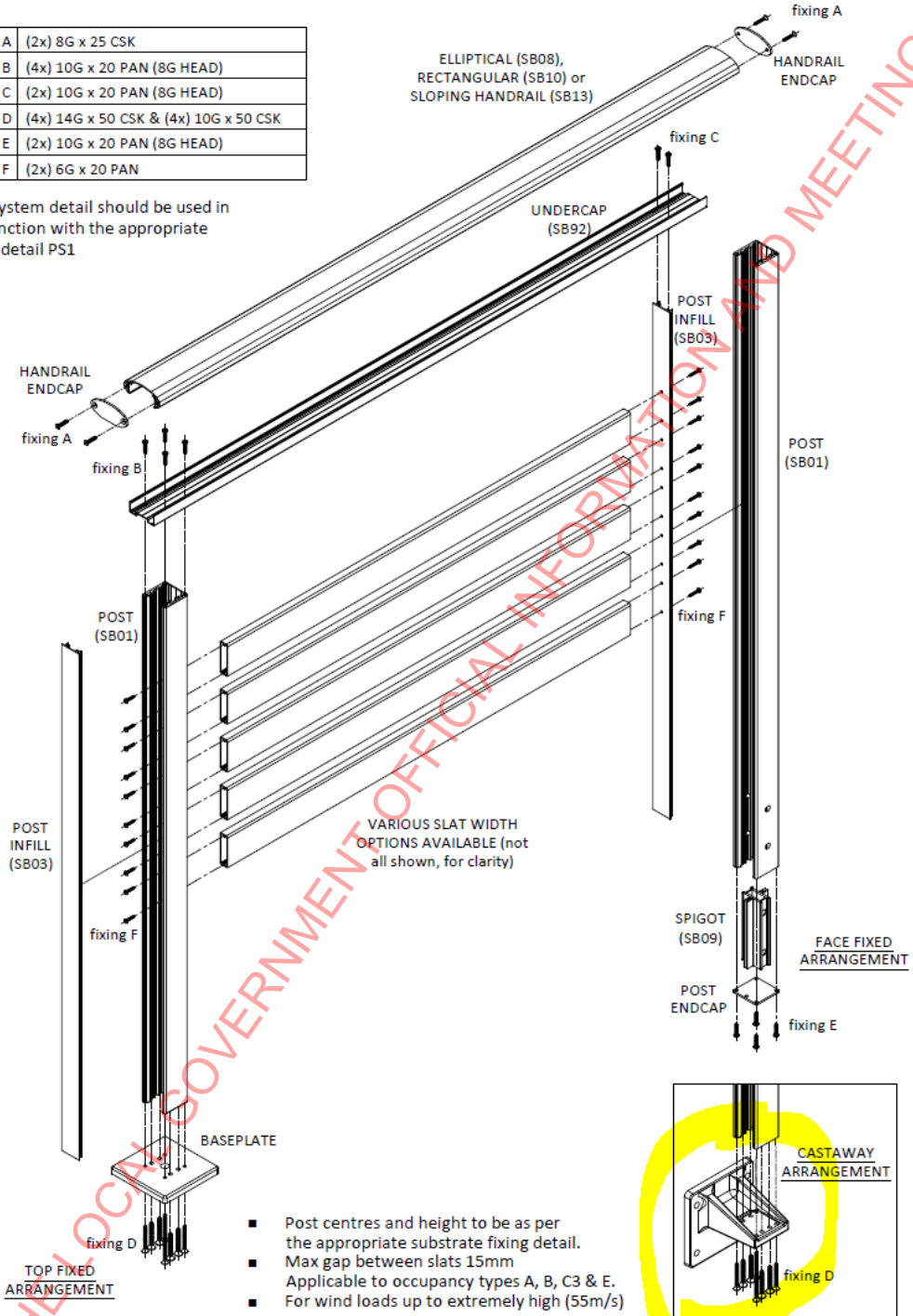
- Have the ability to reach sanitary disposal bins while seated on the pan sighted for both in that there is space for bin adjacent the pan
 - Have the ability for the wheelchair user to open the doors sighted for both
 - The toilet within the Accessible toilet to have a height to the top of the pan seat og 460mm refer NZS4121 10.5.6.1 sighted dimensioned for both
 - Have the ability for the wheelchair user to remain balanced on the pan whilst transferring to and from the pan makes no sense.
 - Provided with appropriate washbasins and with lever operated mixers provided sighted for both
 - Toilet roll holder, and mirror located in correct position sighted for both
23. Please amend the plans to show signage provided in sufficient locations to identify accessible routes and facilities provided for people with disabilities. RF11 response received 14/7/2021 contains amended plans with signage sighted for both WC's
24. You have provided details for windows installed over James Hardie Hardieflex cladding – please show this cladding location on the elevations. RF11 response received 14/7/2021 contains a note stating this cladding removed.
25. You have shown a proposed canopy over entry doors to ground floor apartments. Please amend the plans to show where stormwater collected in these canopies discharges . RF11 response received 14/7/2021 contains specs for the canopies and they have a drain hole – see below. Basically this unit sits over the front doors of units 1 and 2 – based on the plans it is sized as 0.9 x1.2m. and would drip into the only outdoor space available. Can I accept this – there is s DP available.
26. How are you protecting other property from the possible overflow of laundry tubs located in the 6 apartments? If you are relying on integrated overflow to laundry tubs then Please confirm and note on the plans the laundry tub has an overflow with a 25l per minute capacity. Please provide manufacturer's confirmation that this flow rate has been tested and verified in accordance with BS EN 274 . And, please add a note to the plans stating that either The maximum flow rate from the inlet tap(s) is less than 25l per minute, or b) The water supplies to the inlet tap(s) for that laundry tub are fitted with proprietary flow restrictors (such as cartridges) to limit the tap flow rate to less than 25l per minute. RF11 response received 14/7/2021 contains a note and revised plans stating that the laundry tubs are removed answering Q26
27. Containment of accidental overflow: Please add notes to plans to clearly state whether impervious floor coverings are to be sealed or coved. Are the ground floor kitchens to have tiles or floor boards? Please amend the plans so one option is shown. RF11 response received 14/7/2021 contains a note and revised plans stating that the floor covering to be vinyl. Plan sheets A14 and A16 has a note stating the vinyl to be 150mm upstand to floor wall junctions answering Q27
28. Details on sheet A44 are given for both a tiled and acrylic showers – please highlight any tiled showers on the floor plans and provide manufacturers specifications and Branz appraisal for any pre- tiling membrane to be used. RF11 response received 14/7/2021 has revised notes and details only proprietary showers with an acrylic liner to be used.
29. Please amend the plans to show surfaces finishes to wall linings experiencing watersplash and thereby show compliance with E3/AS1 clause 3.1.2 RF11 response received 14/7/2021 contains a note stating that the kitchen and laundry to have tiled splashback OK
30. Barriers to opening doors(see below) Please dimension the height of the barrier above FFL. Please provide construction details and show fastening details to the building, and label materials to be used. Please demonstrate how these barriers comply with F4 as the gaps in horizontal members appear to allow for climbing. RF11 response received 14/7/2021 contains the dimension added as requested max gap between gaps noted as 15mm Height(checked F4/AS1 ok) shown as 1000mm above FFL (household unit of multi unit dwellings) – checked F4 – OK Ares pecs , PS1 and installation detail appropriate. Please provide fixing details for the Clearspan infill and the exterior wall. The PS1 supplied

and sheet BL.2.1.9 does not specify this fixing.

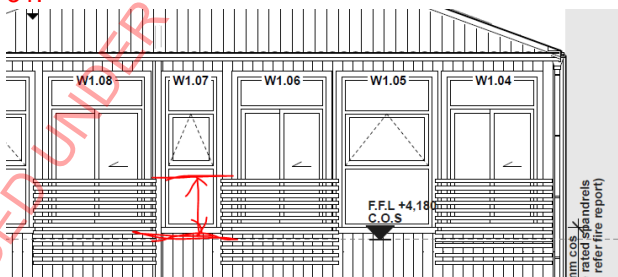
CLEARSPAN SLAT PANEL ASSEMBLY - HORIZONTAL SLAT INFILL

| | |
|----------|---------------------------------------|
| fixing A | (2x) 8G x 25 CSK |
| fixing B | (4x) 10G x 20 PAN (8G HEAD) |
| fixing C | (2x) 10G x 20 PAN (8G HEAD) |
| fixing D | (4x) 14G x 50 CSK & (4x) 10G x 50 CSK |
| fixing E | (2x) 10G x 20 PAN (8G HEAD) |
| fixing F | (2x) 6G x 20 PAN |

This system detail should be used in conjunction with the appropriate fixing detail PS1

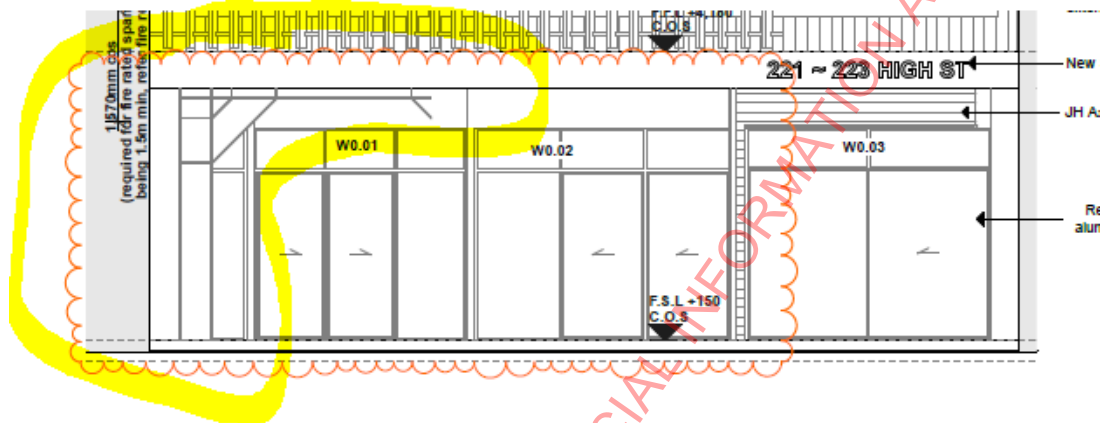


31.



32. If the above barrier is a proprietary system please provide product information (including installation

- details) and include a PS1(issued within 12 months) from the manufacturer.
33. Based on the Southern elevation sliding windows to apartments 5 and 6 open more than 100mm and protection from climbing out onto the veranda below is provided by aluminium louvres. Is this correct? Please demonstrate how these louvres provide an F4 compliant barrier in particular show a Dia100mm sphere would be unable to be dropped from these open windows. RF11 response received 14/7/2021 contains a note stating that these windows do not open and are all fixed panes – therefore not acting as a F4 barrier Q32 answered
34. Please provide manufacturers specifications for the louvres including installation instructions and details. RF11 response received 14/7/2021 contains a PS1 and installation specs for this system OK
35. Please have the SED engineer provide a paint specification for the finish to the exposed section of portal frame. (see below) RF11 response received 14/7/2021 contains revised plans show showing the portal frame enclosed with flashclad on cavity over rab board answering Q34



36. Please confirm the portal frame and W0.01 do not occupy the same space. RF11 response received 14/7/2021 contains revised plans with the window removed answering Q35
37. Please amend the plans to show the wall cladding above W0.01 and W0.02. RF11 response received 14/7/2021 has the cladding changed to flashclad answering Q36. Branz appraisal is provided for the flashclad cladding – need the referenced installation specs
38. Emergency lighting shown – Please provide a construction layout from a suitably qualified person specifying all luminaires and signage by manufacturer and product code. Please provide a PS1 from the emergency lighting designer. RF11 response received 14/7/2021 contains plans and PS1 from a lighting designer showing the layout for emergency lighting. PS1 from Kerry Highsted of Electrical Supply Corp along with plans, and product specifications. I am satisfied the escape routes for both commercial occupancies are less than 20m Answering Q37
39. Please provide an additional unisex WC for each commercial fitout. So compliance with G1/AS1 table 1 number of sanitary facilities can be seen.(please note 1 accessible bathroom per commercial space is acceptable) RF11 response received 14/7/2021 contains notes and revised plans now showing a second WDC to both commercial tenancies answering Q38.

G4: Ventilation Questions 39 – 50 covers ventilation of apartments by mechanical ventilation – Please provide a PS1 or letter from a suitable qualified person covering the design of the proposed DVS systems for the residential apartments and confirming the proposed system meets the requirements of G4. Please also demonstrate how G4 is to be met for the 2 retail tenancies.

Ventilation of Apartment 1:

40. Bedroom 1 :Please revise how the bedroom is ventilated. It cannot be ventilated by the adjacent habitable space as this space has a kitchen, and none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met. (see below) RF11 response received 14/7/2021 contains a note stating that a ventilation system is to be installed. Extract through roof still shown – mechanical ventilation for kitchen and bathrooms.

Habitable spaces ventilated via another habitable space

1.3.4 *Habitable spaces* without openings to the exterior must be ventilated via another *habitable space* by:

- a) providing from the other *habitable space* to outside, openable windows and/or other openings of *net openable area* of no less than 5% of the combined floor area of the combined *habitable spaces*, and
- b) providing high and low level *trickle ventilators* located on the external wall (see Paragraph 1.3.5 for *trickle ventilators*), sized according to the combined floor area, and
- c) providing an area of *permanent opening* between the two spaces of no less than 5% of the combined floor area of the *habitable spaces*, and
- d) having a combined distance of the *habitable spaces*, measured between the external wall and furthest opposing wall, of less than 6 metres.

COMMENT:

Habitable spaces must not be naturally ventilated via an adjacent space that is a bathroom, kitchen, toilet or laundry.

41. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering. RF11 response received 14/7/2021 contains a note stating that the dryer is to be self condensing and shows that the laundry tub is to be removed. Can I accept this. OK I consider it acceptable for occupants to have only a self condensing dryer. This answers Q40.
42. Entry, Kitchen, Living and Dining. Please revise calculation highlighted below the operable window area is well less than required.

G4 Ventillation Calculation

| |
|--|
| Apartment 1 |
| BATHROOM Room Size: 4m ² Req'd min. Opening Area (5%) = 4m ² x 0.05 = 0.2 m² |
| FAN Calculation 4m ² x 3.9 m height = 15.6m³ 15.6m ³ x 15 ARCH = 234m³/hr 234m ³ /hr / 3.6 = 65 l/s |
| FAN: 150mm Manrose Axial 105 l/s, 380m ³ /hr |
| BEDROOM 1 Room Size: 12.3 m ² Req'd min. Opening Area (5%) = 12.3 m ² x 0.05 = 0.62 m² |
| Total Opening Area: UJ0.01 = 2.90 m ² = COMPLIES |
| ENTRY, KITCHEN, LIVING & DINING Room Size: 41.1 m ² Req'd min. Opening Area (5%) = 41.1 m ² x 0.05 = 2.1 m² |
| Total Opening Area: W0.04 = 0.65 m ² W0.05 = 0.76 m ² TOTAL = 2.3 m² = COMPLIES |

Ventilation of Apartment 2:

43. Bedroom 1 and Bedroom 2 both appear to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.
44. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Ventilation of Apartment 3:

45. Is there a laundry tub proposed for apartment 3? If so please show on the floor plan.
46. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.
47. Bedroom 1 appears to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.

Ventilation of Apartment 4:

48. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.
49. Bedroom 1 appears to be ventilated via another habitable space. Please revise as none of the requirements of G4/AS1 clause 1.3.4 a-d appear to be met.

Ventilation of Apartment 5:

50. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

Ventilation of Apartment 6:

51. Please demonstrate how moisture generated from laundering the performance clause G4.3.3 which requires buildings to have a means of collecting or otherwise removing the following from the spaces in which they are generated – in this case b) moisture from laundering.

G6 compliance.

- 52. You have indicated polished concrete floors to the upper apartments – please demonstrate how the required Impact Insulation Class rating of 55 or higher is achieved where upper level apartments are above habitable spaces in lower level apartments. RFI 1 response received 14/7/2021 contains amended plans now showing vinyl flooring to the upper level and a GIB system GBSJA45 to be installed to the ceiling below the system is shown on the plans is supporting documentaiton supplie yes – I am satisfied that this added below the existing concrete block wall achieves an ANARP IIC rating – It is worth noting that there are 2 layers of 13mm GIB Fyreline required to the ceiling
- 53. Please demonstrate how the required STC ratings are achieved between tenancies on the ground floor. The GBTL 120 system indicated has an STC rating of 45. RFI 1 response received 14/7/2021 contains amended plans now showing a composite system as per the letter from GIB below – Drawings may be required to explain how this system is to work.
RFI 1 response received 14/7/2021 contains amended plans now showing - as this solution is from GIB themseives I will accept it however I Please provide drawings/details as required to clearly show how the proposed GIB wall system is to be constructed – This system has been recommended by GIB to achieve a STC rating of 55 between the commercial and residential tenancies

However it is possible with the ST-001 clip as long as furring channels are run vertically to support the plasterboard sheet joints.

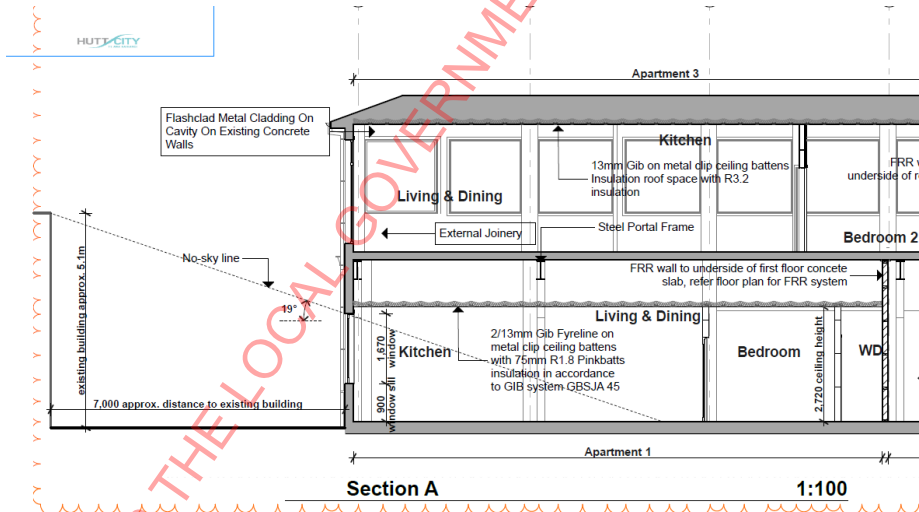
Refer to two-way FRR – steel frame wall – acoustic resilient mount GBSIC 45a system page 53 GIB® Noise Control Systems 2017 manual but replace the linings with 2/16mm GIB Fyreline® fixed as per two-way FRR – steel frame GBS 120a system page 42 of attached GIB® Fire Rated Systems 2018 manual.

54.

G7: Natural light

Apartment 1: This apartment has just 1 external wall with windows.

- 55. Please demonstrate (by providing a cross section showing window heights) how the bedroom (habitable space) complies with the requirement for visual awareness of the outside environment. RFI 1 response received 14/7/2021 contains a cross section showing the room see below I cannot see how G7 is met for this bedroom.



- 56. Please demonstrate (by providing a cross section showing window heights) how the head height for windows complies with G7/AS1 part C. Please note a window area in excess of 10% of the floor area may be necessary. See above
Please also demonstrate whether the no sky condition applies for external glazing. If it does please provide a schedule of surface finishes for the floor ceiling and walls so high reflectance surfaces can be seen as per G7/AS1 clauses 1.02 to 1.04 See above

57. Apartment 2:

Please demonstrate how both the proposed bedrooms meet G7. Please demonstrate how the required levels of natural light and an awareness of the outside environment are met. RFI 1 response received 14/7/2021 contains a revised floor plan layout now each bedroom has an exterior window - The living area assessed and OK. – well over 10% floor area. This answers Q56

Apartment 3:

58. Bedroom 2: Please demonstrate how bedroom 1 meets the requirements of G7 for an awareness of the outside environment. Please include the size of the skylight in G7 calcs on sheet A37. RFI 1 response received 14/7/2021 contains a revised floor plan layout with skylight removed.

59. Bedroom 1 Please demonstrate how bedroom 1 meets the requirements of G7 for natural light. (borrowed light from windows W1.07, W1.08 and W1.09 provide daylight to this bedroom) Please show compliance with G7/AS1 clauses 1.02 to 1.04, please include any cross sections, schedule of floor ceiling and wall finishes showing surface reflectance's as required. RFI 1 response received 14/7/2021 contains a revised floor plan layout now showing a sun tunnel providing daylight to this room how does the sun tunnel provide the same daylight as a window that is 10% of the floor area – does the borrowed light make up a difference – an argument needs to be made. Please confirm the floor top ceiling glazing in IJ0.01 to provide an awareness of the outside.

Apartment 4:

60. Please add a G7 assessment of apartment 4 to sheet A37. Please include the size of the skylight in G7 calcs on sheet A37. Where is the assessment? You cannot just write complies. RFI 1 response received 14/7/2021 contains a revised floor plan layout now showing the skylight has been deleted.

61. Bedroom 1: Please demonstrate how bedroom 1 meets the requirements of G7 for natural light. (borrowed light from windows W1.04 and W1.05 provide daylight to this bedroom) Please show compliance with G7/AS1 clauses 1.02 to 1.04, please include any cross sections, schedule of floor ceiling and wall finishes showing surface reflectance's as required. RFI 1 response received 14/7/2021 contains a revised floor plan layout now showing a sun tunnel to bedroom 1 how does the sun tunnel provide the same daylight as a window that is 10% of the floor area – does the borrowed light make up a difference – an argument needs to be made. Please confirm the floor top ceiling glazing in IJ0.01 to provide an awareness of the outside.

62. F5:– no details provided on plans for how members of the public are prevented from climbing the stairs. RFI 1 response received 14/7/2021 contains a revised floor plan layout now showing a temp access door with digital lock – I am satisfied that access is restricted this answers Q61

63. Please show the location for the existing gas meter. RFI 1 response received 14/7/2021 contains a revised floor plan layout now showing location of the gas meter on the southern end of the service lane elevation and answers Q62

64. Potable water supply - as a fee simple subdivision is proposed individual supply for each lot will be required. Please provide a water supply plan showing locations of all water feeds to the 6 apartments and 2 commercial spaces. Please show all pipe sizes. Please show locations for water meters and tobies. And please show location of the backflow prevention device. RFI 1 response received 14/7/2021 contains a note stating that Envelope Engineering will be engaged to work on subdivision services, this will be applied as a separate application to council and wellington water for approval – Please provide finalised drawings from envelope for the finalised 3 waters as discussed.

65. Please revise notes referring to VT26 gas water heaters as a Rinnai HDi200 infinity is shown for each apartment RFI 1 response received 14/7/2021 contains a note stating this answering Q64

66. Please amend the plans to show all inspection points as required (before drains travel under building/SLAB, at all WC connection to drain) RFI 1 response received 14/7/2021 contains a note stating that Envelope Engineering will be engaged to work on subdivision services, this will be applied as a separate application to council and wellington water for approval
67. Please show the proposed minimum gradient for the DN150 drain. RFI 1 response received 14/7/2021 contains a note and revised plan the drain is to be DN100 – gradient shown as 1.65%
68. Please note you have shown a DN150 stack connecting to a DN100 drain please revise so a larger pipe does not connect to a smaller pipe. RFI 1 response received 14/7/2021 contains a note and revised plumbing plan the stack is DN100 not DN150
69. As there is potential for the two commercial units to become food outlets/cafes etc. Please consider running a greasy waste line alongside the sewer line that they are putting in for either or both of the two units to be able connect up to. Please also consider installing a communal grease trap at the rear of the building. Thank you for the suggestion, I think we will just leave it to the future owner to decide, so for this consent, we will not include the greasy waste and trap. OK
70. Based on the plans supplied you are providing a ground floor rubbish area for the upper level apartments. Please amend the plans as follows: RFI 1 response received 14/7/2021 contains responses to the points below and answers Q69 – check on the correct size required. 4 Apartments to use this room. Carry distance acceptable. Size acceptable 2m2 floor area by 1m high required
- Please label the ground floor rubbish area on the plan. Sighted amended plans showing clearly labelled rubbish room
 - Please demonstrate how the ground floor rubbish area is to be adequately ventilated to the open air in compliance with NZBC G4. Vent added to this room up through ceiling an extracts via rood acceptable
 - Please confirm the concrete floor will be graded at 1 in 50 to a floor drain. Sighted amended plans showing clearly labelled rubbish room floor graded
 - finishes to Walls in spaces where storage bins are likely to receive food wastes and are subject to spillage shall be constructed of concrete, galvanised sheet steel, vinyl or similar material. Sighted amended plans showing vinyl flooring and wall covering OK
 - How is the FWG in the ground floor rubbish area to be charged? Mop sink to discharge to it OK
71. Based on the details for installation of replacement joinery in concrete block walls you are strapping and lining internal walls and installing 45mm expol insulation. Please amend the wall framing notes to clearly show the full extent of this additional strapping and lining on the proposed floor plans for both levels. RFI Please revise sheets A14 and A16 to show walls to be strapped and lined.
72. How have you determined that condensation will not occur between the expol and the external concrete walls. RFI 1 response received 14/7/2021 contains a letter from Expol confirming the details as provided will prevent condensation on the concrete wall faces. Answering Q71 C/AS2 section 4.17.2 does this system have a group number as per C/AS2 table 4.3 and does the expanded foam. Check Natalie.
73. Please confirm the only timber framed external walls are to the Southern Elevation. Please add notes to the plans to state the framing specs and any insulation added to this external wall. RFI 1 response received 14/7/2021 contains a revised plan with clarification on location of new wall framing.

RFI2: sent 31 July 2021

Original RFI Question 4: Proposed type 4 and type 5 alarm systems. Please provide a layout plan from a suitably qualified person showing all detectors by type, sounder locations, location of the manual call point/s and fire alarm panel. Please provide evidence that Fire and Emergency have approved the proposed location for Multi Zone fire alarm panel as per NZS 4512:2010 Paragraph 403.1 This question not answered.

Please provide a layout plan from a suitably qualified person showing all detectors by type, sounder locations, location of the manual call point/s and fire alarm panel. Ask discussed with fire Engineer, It is intended to undertake the fire alarm install on a design build basis as is typical for projects of this scale. The fire alarm will be subject to

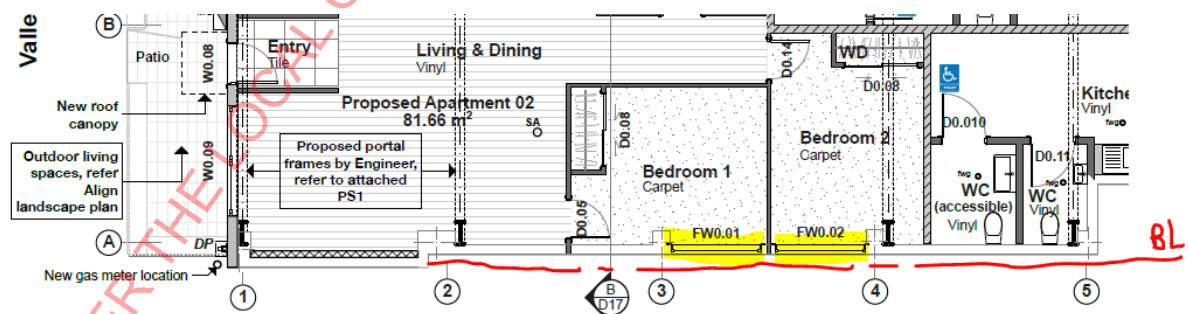
independent certification of the design and install. Please provide evidence that Fire and Emergency have approved the proposed location for Multi Zone fire alarm panel as per NZS 4512:2010 Paragraph 403.1 RFI2 response received 23/9/2021 contains a Fenz approved plan showing Fire Alarm Panel location provided.

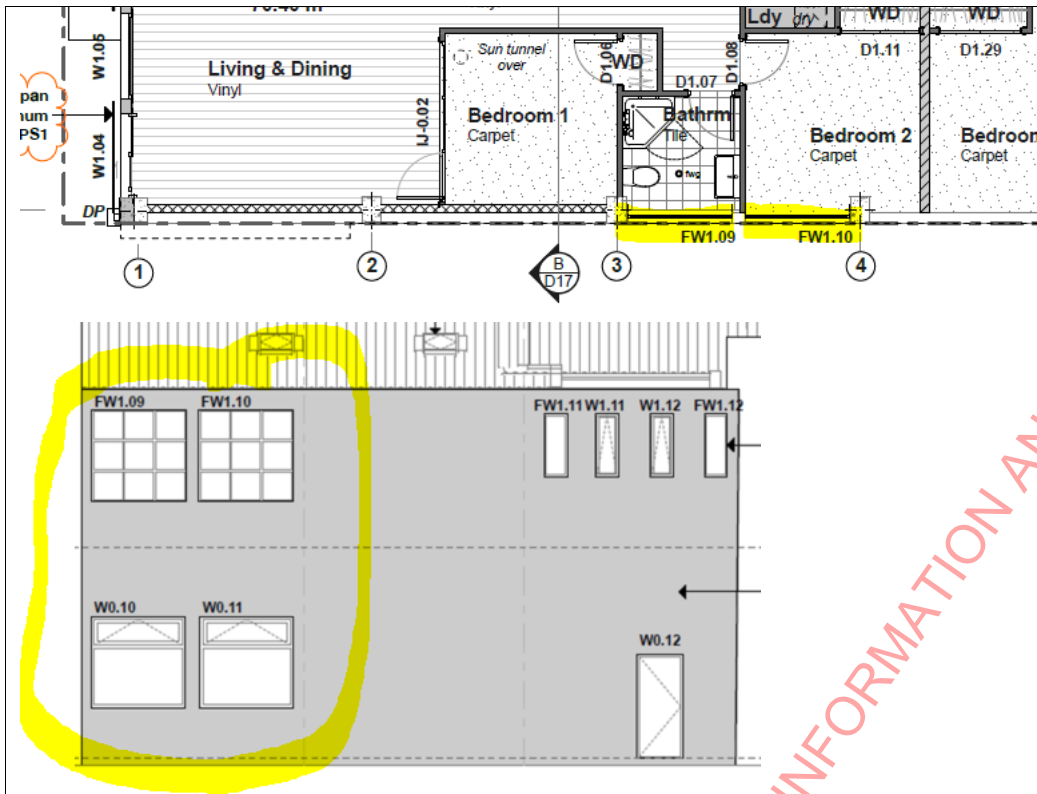
Original RFI Question 9. Please amend the plans to specify fire collars to both the stacks, plumbing wastes and other penetrations as required. Notes have been added to plans stating Hilti Collars and Sealant to be used for fire stopping penetrations . You have provided test results

Further question: Please provide relevant data sheets for the proposed Hilti fire collars and Hilti 606 sealants. Not really answered. Checked website and the installation details supplied are the same as provided – actual instruction sheets are single page pictographic instructions and don't add anything to the documents supplied. I am satisfied that the enough information for installation of the fire collars has been supplied answering Original Q9.

Original RFI Question 10. Based on the plans supplied windows FW1.09, FW1.10, W0.10 and W0.11 are new replacement windows in walls within 1m of the boundary. Therefore please demonstrate how the proposed glazing is compliant with C/AS2 clause 5.2.4. Based on table 5.1 the maximum permitted size of fire resistant glazing is 1m² and figure 5.1 requires a separation distance between adjacent FR windows of at least the width of the wider window being installed. (see below)

Please note windows FW1.09 and FW1.10, W0.10 and W0.11 are located on or not far from the boundary (well within 300mm) and as such C/AS2 clause 5.2.4 is appropriate. Therefore please demonstrate how the proposed glazing is compliant with C/AS2 clause 5.2.4 Spoke with fire engineer and agreed that the question was moot. As discussed with fire Engineer, The windows in this case are to be fire rated window systems achieving an integrity and insulation rating. The referenced clause 5.2.4 deals with fire resistive glazing which is restricted as noted. However this is glazing which does not achieve an insulation rating (refer clause 5.4.2) and would be restricted as they could still cause fire spread via radiation from the window panel. But as stated this is not the system proposed and the intention is to install fire rated windows (i.e. achieving both integrity and insulation ratings), as similar to any door in an external wall etc.





Original RFI Question 11. Fire Rated windows and doors: Please provide manufacturers specifications for all external fire rated windows and doors. Please revise the window schedule to include the manufacturer of the windows, the particular model or type, and their proposed FRR ratings.

Your response contains a revised door and window schedule now stating the actual FR windows and doors to be installed. (sheet 28) with details for installation of FR windows and doors added to sheet 49. Product information from Pacific doors has been supplied for the following window and door sets:

- Pacific PFW60 Fuego-Light Steel Fire Window -/60/30
- Pacific VP120 Hinged Door Set -/120/60sm
- Pacific VP60A Door Set -/60/60sm

Further 3 questions:

- **Regarding FW0.03 Please show an insulation rating of 60min for this door on the door and window schedule. Sighted 60min for insulation OK**
- **Please also amend the door and window schedule so hardware for all doors is specified. Noted on plans now and specs supplied answering original Q11**
- **Please provide manufacturers specs for this hardware. Noted on plans now and specs supplied answering original Q11**

Original RFI Question 17. Please provide manufacturers documentation demonstrating the proposed carpet, vinyl and floor boards meet the minimum critical heat flux value of 2.2 see 2.2kW/m². Your response indicates no flooring selections have been made as yet -

Further question: the flooring products must be specified and product data in support of the minimum

critical radiant flux supplied. RFI1 response received 23/9/2021 contains specifications for various flooring products as follows:

Amor Classic Laminate plank flooring – 6.1kW/m2 OK.

Empire Direct stick carpet 6.5 kW/m2

Cable bay over underlay 2.7 kW/m2

Original Q17 answered

Original RFI Question 30: Barriers to opening doors(see below) Please dimension the height of the barrier above FFL. Please provide construction details and show fastening details to the building, and label materials to be used. Please demonstrate how these barriers comply with F4 as the gaps in horizontal members appear to allow for climbing.

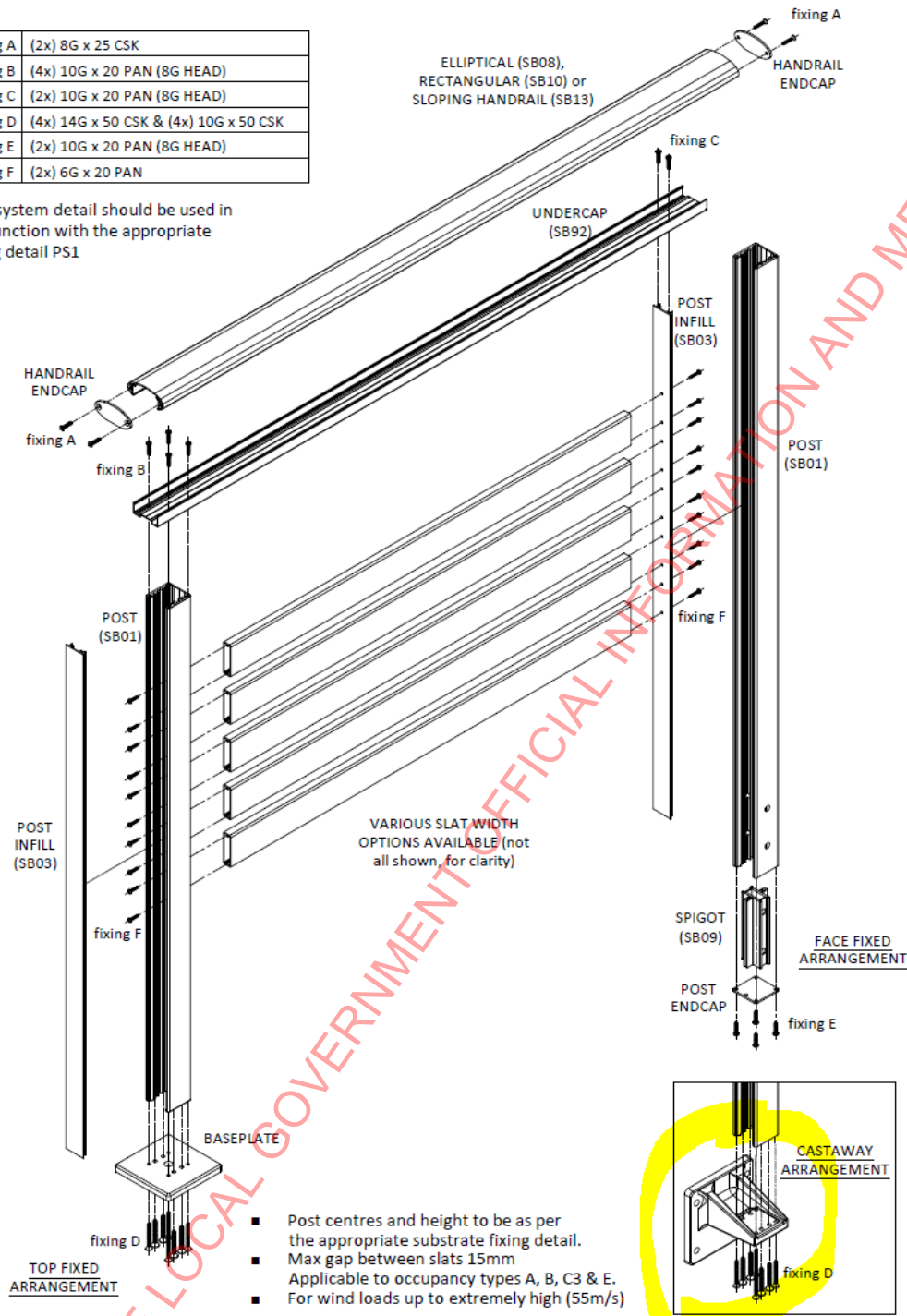
You have shown the barrier height and provided product data including a PS1 for the infill balustrade system.

Further Question: Please provide fixing details for the Clearspan infill and the exterior wall. The PS1 supplied and sheet BL.2.1.9 does not specify this fixing. RFI1 response received 23/9/2021 contains a fixing detail and (generic) PS1 to cover this detail for the fixing of the cast away bracket. The generic PS1's supplied for the entrance canopy and the horizontal slat system state they are valid for a BC issued 2 years after date on the PS1's which are 2020 so acceptable however the PS1 for the castaway bracket is dated 16/8/2019 and should be updated.

CLEARSPAN SLAT PANEL ASSEMBLY - HORIZONTAL SLAT INFILL

| | |
|----------|---------------------------------------|
| fixing A | (2x) 8G x 25 CSK |
| fixing B | (4x) 10G x 20 PAN (8G HEAD) |
| fixing C | (2x) 10G x 20 PAN (8G HEAD) |
| fixing D | (4x) 14G x 50 CSK & (4x) 10G x 50 CSK |
| fixing E | (2x) 10G x 20 PAN (8G HEAD) |
| fixing F | (2x) 6G x 20 PAN |

This system detail should be used in conjunction with the appropriate fixing detail PS1



G4: Ventilation Questions 39 – 50 covers ventilation of apartments by mechanical ventilation – A combination of DVS systems and operable windows now shown to the 6 apartments. This answers Q39-50.

New Question: Please also demonstrate how the ventilation requirements of G4 are to be met for the 2 retail tenancies. RFI1 response received 23/9/2021 contains a quote for a DVS system for the commercial tenancies. Based on the size of the 2 office spaces the system can deliver air at the required l/s from Table 2 of NZS4303:1990 Table checked for office space and OK – no separate reception areas are shown

on the floor plans – if retail then the unit might need to run at slightly higher than 70% to achieve 1.5l/s for the 102m² space. However the occupancy stated is office not retail so accepted. Separate extraction is shown for the bathrooms and kitchens OK. Positive pressure will be maintained for both office spaces Accepted.

Original RFI Q53: Please demonstrate how the required STC ratings are achieved between tenancies on the ground floor. The GBTL 120 system indicated has an STC rating of 45. Your response contains amended plans now showing a composite system as per the letter from GIB below – Drawings may be required to explain how this system is to work.

Further Question: Please provide drawings/details as required to clearly show how the proposed GIB wall system is to be constructed – This system has been recommended by GIB to achieve a STC rating of 55 between the commercial and residential tenancies. RFI2 response received 23/9/2021 contains this detail noted answering Q53.

However it is possible with the ST-001 clip as long as furring channels are run vertically to support the plasterboard sheet joints.

Refer to two-way FRR – steel frame wall – acoustic resilient mount GBSIC 45a system page 53 GIB® Noise Control Systems 2017 manual but replace the linings with 2/16mm GIB Fyrelino® fixed as per two-way FRR – steel frame GBS 120a system page 42 of attached GIB® Fire Rated Systems 2018 manual.

Original RFI1 Questions 55, 56 and 57 relate to achieving G7 compliance to apartment 1.

Please make an ANARP argument outlining measures taken to achieve the best possible daylight levels and awareness of the outside for bedroom 1 within this apartment.

Please note any increase in existing windows to the exterior wall, any internal joinery allowing for a view through to the outside and any high reflectance paint finishes that are proposed in your ANARP argument. RFI2 response received 23/9/2021 contains the following response - *Apartment 1 Bedroom room has been relocated to be closer to the northern side window to ensure daylight access through internal window/door to as practical as possible, please refer A14, and A22 – Accepted. The change in layout brings the bedroom closer to the windows in external walls OK. Need to see the actual ANARP argument.*

Apartment 3 bedroom 1 and Apartment 4 bedroom 1: achieving G7 compliance to apartments 3 and 4

For both these bedroom please make an ANARP argument for G7 compliance in terms of daylight levels and an awareness of the outside. Please note any increase in existing windows to the exterior wall, any internal joinery allowing for a view through to the outside, the inclusion of sky tunnels, and any high reflectance paint finishes that are proposed in your ANARP argument. Need to see the actual ANARP argument though.

Original RFI1 Question 63 - Potable water supply - as a fee simple subdivision is proposed individual supply for each lot will be required. Please provide a water supply plan showing locations of all water feeds to the 6 apartments and 2 commercial spaces. Please show all pipe sizes. Please show locations for water meters and tobies. And please show location of the backflow prevention device. You have indicated that Envelope Engineering will be engaged to work on subdivision services, this will be applied as a separate application to council and wellington water for approval

Please provide drawings from envelope for the finalised 3 waters as discussed. RFI2 response received

23/9/2021 contains a proposed 3 waters plan for subdivision. Spoke with Andrew from Tadworks and they are going to go for a unit title subdivision with a body corp for 8 titles - 2 offices and 6 apartments. Ryan Rose (Envelope) doing the 3 waters. They proposed 2 of 40mm OD rider mains to get the required capacity. SORG that the proposed water supply is satisfactory to service 6 apartments and 2 units. Check with Jarrod Ward regards compliance schedule stuff.

Original RF11 Questions 70 - Based on the details for installation of replacement joinery in concrete block walls you are strapping and lining internal walls and installing 45mm expol insulation. Please amend the wall framing notes to clearly show the full extent of this additional strapping and lining on the proposed floor plans for both levels. Plans supplied don't show the [proposed strapped and lined walls.

Please revise sheets A14 and A16 to show walls to be strapped and lined. RF12 response received 23/9/2021 contains a clear note to plans that all concrete walls for the apartment are to be strapped and lined as per the spec below this answers original Q70

Original RF11 Questions 71 - How have you determined that condensation will not occur between the expol and the external concrete walls. You have supplied a letter from Expol confirming the details as provided will prevent condensation on the concrete wall faces.

Further question: Please provide confirmation from EXPOL that the proposed insulation is non combustable or Please confirm that the completed system – ie GIB lining over expol has the required group rating as specified in C/AS2 table 4.3 – RF12 response received 23/9/2021 contains confirmation from Expol that the insulation is non combustable answering original question 71 RF12

RFI3: Further questions emailed 30/9/2021

Original RFI Question 30: Barriers to opening doors (see below) Please dimension the height of the barrier above FFL. Please provide construction details and show fastening details to the building, and label materials to be used. Please demonstrate how these barriers comply with F4 as the gaps in horizontal members appear to allow for climbing.

You have shown the barrier height and provided product data including a PS1 for the infill balustrade system.

Further Question: Please provide fixing details for the Clearspan infill and the exterior wall. The PS1 supplied and sheet BL.2.1.9 does not specify this fixing. RF11 response received 23/9/2021 contains a fixing detail and (generic) PS1 to cover this detail for the fixing of the cast away bracket. The generic PS1's supplied for the entrance canopy and the horizontal slat system state they are valid for a BC issued 2 years after date on the PS1's which are 2020 so acceptable however the PS1 for the castaway bracket is dated 16/8/2019 and should be updated. Updated PS1's supplied answering this question.

Please make an ANARP argument outlining measures taken to achieve the best possible daylight levels and awareness of the outside for bedroom 1 within this apartment.

Please note any increase in existing windows to the exterior wall, any internal joinery allowing for a view through to the outside and any high reflectance paint finishes that are proposed in your ANARP argument. RF12 response received 23/9/2021 contains the following response - *Apartment 1 Bedroom room has been relocated to be closer to the northern side window to ensure daylight access through internal window/door to as practical as possible,*

please refer A14, and A22 – Accepted. The change in layout brings the bedroom closer to the windows in external walls OK. Need to see the actual ANARP argument. This argument supplied and accepted answering this question.

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT 1987

BC No 210296

| Alternative Solutions | Code Clause |
|---|-------------|
| Refer ECB-WI-005, as presented by applicant for building consent <input type="checkbox"/> Plumbing and Drainage <input checked="" type="checkbox"/> Building | B1 B2 E2 F2 |

Proposal:

Sections of concrete block exterior wall are being clad in the Flashman vertical weatherboard cavity system. The system includes vertically fixed DUALBORD and EUROBORD weatherboards, cavity battens, internal and external corner flashings, starter strips, cladding jointers, joinery flashings and accessories. Branz appraisal 829(2020) supplied.

Expert Opinion:

The following testing on the Flashclad Horizontal Weatherboard Cavity Cladding System has been completed by BRANZ: The Flashclad Horizontal Weatherboard Cavity Cladding System has been tested to NZBC Verification Method E2/VM1.

Uniform wind face load tests to simulate wind pressures on BEVELBORD and EUROBORD weatherboard were carried out by BRANZ. BEVELBORD when fixed to framing at 600 mm centres achieved a design differential pressure of 3.84 kPa. EUROBORD when fixed to framing at 800 mm centres achieved a design differential pressure of 4.3 kPa. The results were used in assessing the Flashclad Horizontal Weatherboard Cavity Cladding System.

Decision:

The scope of use in this project falls within the scope limitations of the branz appraisal 829(2020)

Review:

Assessor:

Name: Lyall Huizer

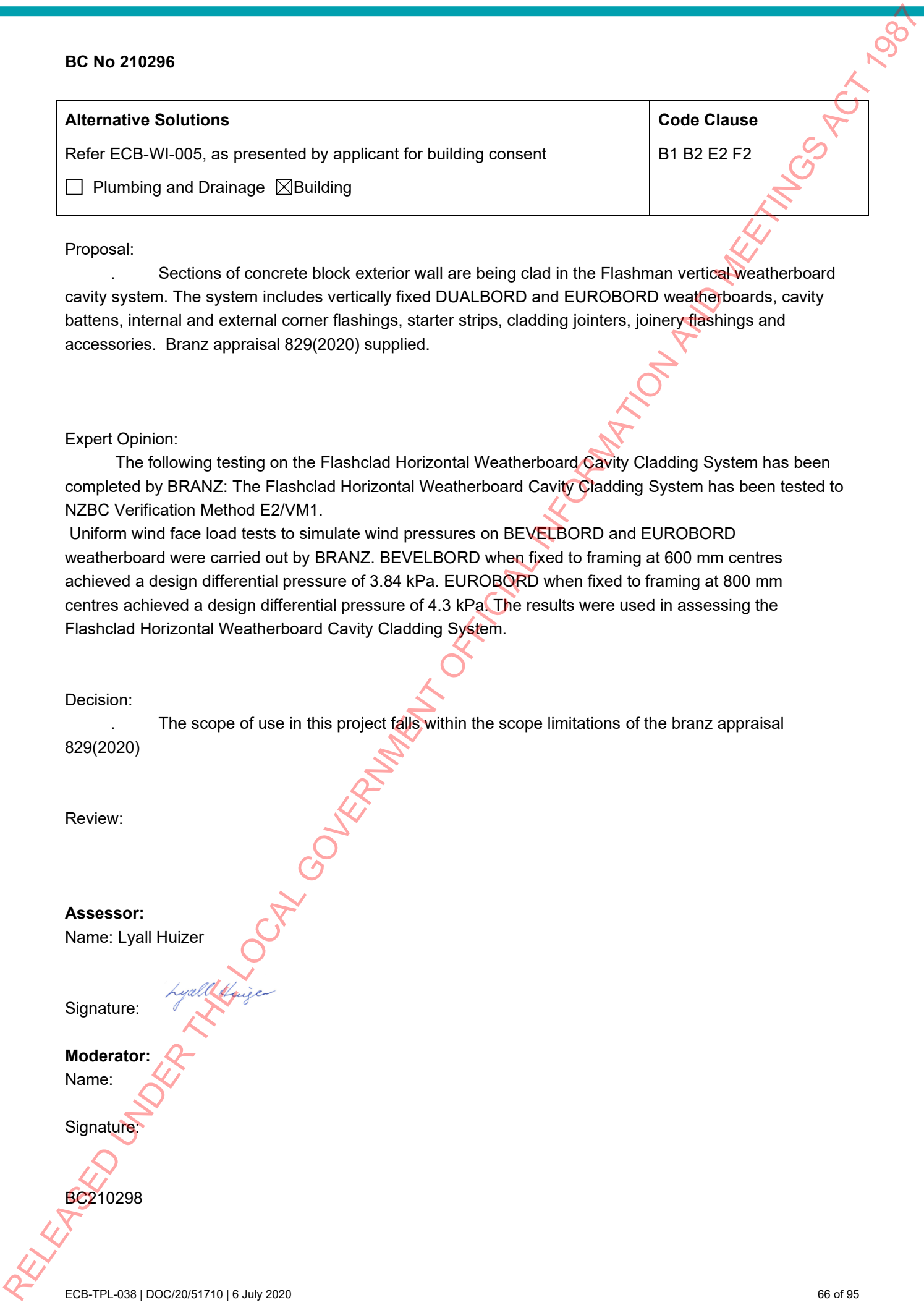
Signature: 

Moderator:

Name:

Signature:

BC210298



| Alternative Solutions | Code Clause |
|---|-------------|
| Refer ECB-WI-005, as presented by applicant for building consent | B1 B2 E2 F2 |
| <input type="checkbox"/> Plumbing and Drainage <input checked="" type="checkbox"/> Building | |

Proposal:

Sections of concrete block exterior wall are being clad in the Flashman cladding system which utilises the Flashman window and door flashing system. Branz appraisal 573 (2013) supplied. The Flashman Window and Door Flashing System is a complete window and door flashing system for use in cavity construction. The system consists of an extruded aluminium cavity closure head flashing, jamb and sill flashings and flashing accessories.

Expert Opinion:

BRANZ expert opinion on NZBC E2 code compliance for the Flashman Window and Door Flashing System was based on testing and evaluation of all details within the scope and as stated within this Appraisal. The Flashman Window and Door Flashing System was tested to NZBC Verification Method E2/VM1 to verify the systems performance in NZS 3604 Wind Zones up to, and including Extra High and specific design wind pressures up to an ultimate limit state (ULS) of 2.5 kPa. The testing assessed the performance of the window head, jamb and sill details, for weatherboard, EIFS, fibre cement and stucco plaster systems. In addition to the weathertightness test, the details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of NZBC Acceptable Solution E2/AS1 for drained cavity claddings.

Decision:

The scope of use in this project falls within the scope limitations of the branz appraisal 573. (2013)

Review:

Assessor:

Name: Lyall Huizer

Signature:



Moderator:

Name:

Signature:

BC No 210296

| | | | |
|--|---|--|--|
| Compliance Schedule Changes Yes | | Compliance Schedule Number(if known) CS1249 | |
| <input checked="" type="checkbox"/> New draft compliance schedule | <input type="checkbox"/> No changes to extent or additional systems | <input type="checkbox"/> Alteration to extent/system or additional systems | |
| General: Owner/property details:218 Willis Ltd(owner) 221-223 High Street, Hutt Central – Lower Hutt Levels;2 Year constructed: Circa 1954 | | Lawful use: retail FHC:2 Occupancy: Current 100 Proposed 70 Purpose groups: CM and SR | |

Proposed new/alterd removed specified systems

| Specified System | To be installed/alterd/removed/not required |
|---|---|
| SS 1 Automatic systems for fire suppression | |
| SS 2 Automatic or manual emergency warning systems for fire or other emergencies | New system |
| SS 3 Electromagnetic or automatic doors or windows | |
| SS 4 Emergency lighting systems | New System |
| SS 5 Escape route pressurisation systems | |
| SS 6 Riser mains for use by fire services | |
| SS 7 Automatic back-flow preventers connected to a potable water supply | New System |
| SS 8 Lifts, escalators, travelators, or other systems for moving people or goods within buildings | |
| SS 9 Mechanical ventilation or air conditioning systems | New Systems |
| SS 10 Building maintenance units providing access to exterior and interior walls of buildings | |
| SS 11 Laboratory fume cupboards | |
| SS 12 Audio loops or other assistive listening systems | |

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT 1987

| | |
|--|--|
| SS 13 Smoke control systems | |
| SS 14 Emergency power systems for, or signs relating to, a system or feature specified in any of SS 1 to SS 13 above | New |
| SS 15 Other fire safety systems or features (systems for communicating information intended to facilitate evacuation, final exits, fire separations, signs, smoke separations) | SS15/2 altered SS15/3 fire separations existing altered and new. SS15/4 New signage |
| SS 16 Cable cars | |

Any other comments regarding compliance schedules

BWOF Officer

Name:

Signature:

Building Officer

Name: Lyall Huizer

Signature: 

Below is appendix B as provided by the agent.

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT, 1987



Ph 04 899 0800
 Andrew: 0273103404
 E-mail: andrew@tadworks.co.nz

| Appendix B List of Specified Systems | | | | | |
|--|---|---------|---|--|--|
| The following specified systems are existing, being altered, added to, or removed in the course of the building work | | Status | Performance standards | Inspection & maintenance procedures | Reporting frequency |
| Structural Performance | | | | | |
| SS2 | Automatic or manual emergency warning systems for fire or other dangers | New | NZS 4512: 2010 | Part 6 NZS4512: 2010 | Monthly checks as per Clause 602 and Annual checks as per Clause 603 of NZS 4512:2010. |
| SS4 | Emergency lighting systems | New | AS/NZS2293.1 : 2005 | AS/NZS2293.2: 1995 | Six Monthly and Twelve Monthly inspections by IQP to AS/ NZS2293.2:1995 Section 3. |
| SS7 | Automatic backflow preventers connected to a potable water supply | Add/New | AS/NZS 2845.1 | AS 2845.3 | Testing: Annually |
| SS14.2 | Signs for system | New | F8/AS1 Amendment 4 (effective 1 January 2017) | Inspection and maintenance procedures to ensure all signs are of the correct type, present in the right locations, legible, clearly visible and unobstructed. Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. | Monthly by owner and Annually by IQP |
| SS15.2 | Final exits | Altered | Paragraph 3.15 of the acceptable solutions C/AS2 to C/AS6(2019) | Inspections and maintenance procedures in accordance with the details on pages 49 - 50 in the MBIE Compliance Schedule Handbook, Amendment 3 | Monthly by owner and annual by IQP |

TAD Works Ltd

Saturday, 3 April 2021

1



Ph 04 899 0800
 Andrew: 0273103404
 E-mail: andrew@tadworks.co.nz

| | | | | | |
|--------|---|-----------------|--|---|---|
| SS15.3 | Fire Separation | Altered /New | For walls, floors and ceilings: Structural adequacy/ Integrity/ Fire Resistance Rating defined by C/AS2 for Buildings other than Risk Group SH, First edition 2019 Paragraph 4.9.2 & Section 2.3 For fire doors: Integrity/ Insulation & NZS 4520:2010 Fire resistant door sets | Owner to undertake visual inspection of fire partitions including doors to ensure their proper operation Inspections and maintenance procedures in accordance with the details on pages 50 – 51 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 Section 7, Appendix A & Appendix C of NZS 4520:2010 Fire resistant door sets | Monthly by Owner, 6 Monthly and annual by IQP |
| SS15.4 | Signs for communication information intended to facilitate evacuation | New | F8/AS1 Amendment 4 (effective 1 January 2017) (Section 4) | Inspection and maintenance procedures to ensure all signs are of the correct type, present in the right locations, legible, clearly visible and unobstructed. Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. Defects in illuminated signs shall be replaced immediately they are apparent. | Monthly by owner and annual by IPQ |

[SS 1 Automatic systems for fire suppression n/a](#)

[Back to Index](#)

[SS 2 Automatic or manual emergency warning systems for fire or other emergencies yes](#)

2B

| | | | |
|--|--|---|------------------------------|
| System description: Analogue Addressable FAP with Amplified Sounders <input type="checkbox"/> Type 3 automatic fire alarm system activated by heat detectors and manual call points to NZS 4512 <input checked="" type="checkbox"/> Type 4 automatic fire alarm system activated by smoke detectors and manual call points to NZS 4512 <input checked="" type="checkbox"/> Type 5 automatic fire alarm system with modified smoke detection and manual call points to NZS 4512 | | System modified by: <input type="checkbox"/> Existing <input checked="" type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): Type 5 in apartments, Type 4 in retail and common property | | | |
| Performance standards: | | NZS 4512:2010 | |
| Inspection, maintenance and reporting procedures: | | (As required by the performance standard above) | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

[Back to Index](#)

[SS 3 Electromagnetic or automatic doors or windows](#)

3A

| | | | |
|---|--|--|--|
| System description: <input type="checkbox"/> Automatic sliding doors <input type="checkbox"/> Powered doors for pedestrian access and egress <input type="checkbox"/> Automatic revolving doors | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | | <input type="checkbox"/> NZS 4239:1993 (automatic sliding doors), <input type="checkbox"/> AS 5007:2007 (powered doors for pedestrian access and egress) | |

| | | | |
|---|---|---|------------------------------|
| | <input type="checkbox"/> AS 4290:2000 (automatic revolving doors) | | |
| Inspection, maintenance and reporting procedures: | <p>Daily and monthly inspections: Doors should be inspected to ensure they can be opened and that they are not; locked, barred or blocked</p> <p>Full inspections and maintenance procedures in accordance with the details on page 22 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3.</p> | | |
| Frequency of inspections: | Daily | Monthly | Annually |
| Maintained and inspected by: | Owner (for crowd occupancies with multiple exits and more than one level) | Independent qualified person (for crowd occupancies) Owner (other occupancies) | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

3B

| | | | |
|---|--|---|------------------------------|
| System description: Access controlled doors | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | Meet the requirements of paragraphs 3.15.2 and 3.15.7, C/AS2 (2019) | | |
| Inspection, maintenance and reporting procedures: | <p>Daily and monthly inspections: Doors should be inspected to ensure they can be opened and that they are not; locked, barred or blocked</p> <p>Full inspections and maintenance procedures in accordance with the details on page 23 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3</p> | | |
| Frequency of inspections: | Daily | Monthly | Annually |
| Maintained and inspected by: | Owner (for crowd occupancies with multiple exits and more than one level) | Independent qualified person (for crowd occupancies) Owner (other occupancies) | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

3C

| | | | |
|--|---|--|------------------------------|
| System description: Interfaced fire or smoke doors or windows where the door or window is designed to close on the activation of the building emergency warning system or detection device | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | Specific design to meet the requirements of paragraphs 3.15.9 and 3.15.10, C/AS2 (2019) | | |
| Inspection, maintenance and reporting procedures: | Inspections and maintenance procedures in accordance with the details on page 24 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 | | |
| Frequency of inspections: | Daily | Monthly | Annually |
| Maintained and inspected by: | Owner (for crowd occupancies with multiple exits and more than one level) | Independent qualified person (for crowd occupancies) Owner (other occupancies) | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection, maintenance and reporting requirements: | | | |

[Back to Index](#)[SS 4 Emergency lighting systems](#)

4A

| | | | |
|--|---|--|----------|
| System description: Emergency lighting system to AS 2293 Part 1 and 3 | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): common areas and public spaces to meet correct light admittance, PS1 to be supplied for design | | | |
| Performance standards: | F6/AS1 Amendment 4 Effective 1 January 2017 AS/NZS 2293.1 & 3:1995 Emergency evacuation lighting for buildings - System design, installation and operation - Emergency luminaires and exit signs | | |
| Inspection, maintenance and reporting procedures: | AS/NZS 2293 Part 2: Emergency lighting and exit signs for buildings - Part 2: Routine service and maintenance. | | |
| Frequency of inspections: | | 6-monthly | Annually |

| | | | |
|-------------------------------------|--|------------------------------|------------------------------|
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
|-------------------------------------|--|------------------------------|------------------------------|

4B

| | | | |
|---|--|---|------------------------------|
| System description: Emergency lighting system to NZS 6742 (older systems installed between 1971 to 1995) | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | NZS 6742:1971 | | |
| Inspection, maintenance and reporting procedures: | <i>(As required by the performance standard above)</i> | | |
| Frequency of inspections: | | 6-monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

[Back to Index](#)[SS 5 Escape route pressurisation systems](#)

5A

| | | | |
|--|------------------------------|---|------------------------------|
| System description: Air pressurisation systems pressurising escape routes and safe paths | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | AS/NZS 1668.1:1998 | | |
| Inspection, maintenance and reporting procedures: | AS 1851:2012 | | |
| Frequency of inspections: | Monthly | | Annually |
| Maintained and inspected by: | Independent qualified person | | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance | | | |

standards and consideration of the proposed inspection , maintenance and reporting requirements:

SS 6 Riser mains for use by fire services

6A

| | | | |
|---|---|--|------------------------------|
| System description: Riser mains / hydrant systems to NZS 4510 | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | NZS 4510:2008 | | |
| Inspection, maintenance and reporting procedures: | (As required by the performance standard above) | | |
| Frequency of inspections: | | | Annually |
| Maintained and inspected by: | | | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

SS 7 Automatic back-flow preventers connected to a potable water supply

7A

| | | | |
|--|--|--|------------------------------|
| System description: Automatic backflow preventer to AS/NZS 2845.1 connected to potable water supply | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | AS/NZS 2845.1:2010 | | |
| Inspection, maintenance and reporting procedures: | Field testing and maintenance of testable devices as specified by AS 2845.3:2010 and NZ backflow testing standard 2011 | | |
| Frequency of inspections: | | | Annually |
| Maintained and inspected by: | | | Independent qualified person |

Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements:

[Back to Index](#)

SS 8 Lifts, escalators, travelators, or other systems for moving people or goods within buildings

8A

| | | | |
|---|--|--|------------------------------|
| System description: Passenger and goods lifts | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | | <input type="checkbox"/> NZS 4332:1997 and modified by D2/AS1 <input type="checkbox"/> EN 81-20: 2014 and modified by D2/AS1 | |
| Inspection, maintenance and reporting procedures: | | <input type="checkbox"/> Inspections and maintenance procedures carried out in accordance with the requirements of the checklist on pages 30 - 32 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 <input type="checkbox"/> Inspections and tests carried out annually in accordance with EN 81-20, Annex C.1 <input type="checkbox"/> Manufacturer's Maintenance Schedule | |
| Frequency of inspections: | | | Annually |
| Maintained and inspected by: | | | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

8B

| | | | |
|---|--|--|--|
| System description: Platform lifts and low-speed lifts | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |

| | | | |
|---|---|--|------------------------------|
| Performance standards: | NZS 4334:2012 | | |
| Inspection, maintenance and reporting procedures: | Inspections and routine maintenance to be carried out in accordance with the requirements of Appendix A of NZS 4334:2012. | | |
| Frequency of inspections: | | | Annually |
| Maintained and inspected by: | | | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

8C

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[SS 9 Mechanical ventilation or air conditioning systems](#)

9A

| | | | |
|---|---|--|-----------------------|
| System description: <input type="checkbox"/> Mechanical ventilation system <input checked="" type="checkbox"/> Mechanical extraction system <input type="checkbox"/> Includes fire and smoke control interfaced with fire alarm | | System modified by: <input type="checkbox"/> Existing <input checked="" type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): Extraction from bathrm and ldy ground floor apt. Extraction from bathrm and Kitchen ground floor apt. Extraction from WC and Kitchenette Comm 01. Extraction from WC and Kitchenette Comm 02. | | | |
| Performance standards: | <input type="checkbox"/> NZS 4303:1990 for mechanical ventilation with outdoor air <input type="checkbox"/> AS 1668.2:2002 for mechanical ventilation with outdoor air <input type="checkbox"/> AS 1668.2:2002 for mechanical extraction systems <input type="checkbox"/> AS/NZS 3666.1:2011 for air-handling system <input type="checkbox"/> AS/NZS 1668.1:1998 for fire and smoke control | | |
| Inspection, maintenance and reporting procedures: | <input type="checkbox"/> Inspection and maintenance of system hygiene to AS/NZS 3666.2:2011 <input type="checkbox"/> Fire and smoke control features to Section 13, AS 1851:2012 | | |
| Frequency of inspections: | Monthly | 3 monthly | Annually |
| Maintained and inspected | Independent qualified | Independent qualified | Independent qualified |

| | | | |
|---|--------|--------|--------|
| by: | person | person | person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

9B

| | | | |
|---|---|--|--|
| System description: Cooling tower connected to HVAC plant | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | AS/NZS 3666.1:2011 | | |
| Inspection, maintenance and reporting procedures: | Inspections and testing to ensure adequate chemical control is being achieved in the water in cooling towers to be performed as detailed on pages 39 – 40 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3. | | |
| Frequency of inspections: | Monthly | Annually | |
| Maintained and inspected by: | Independent qualified person | Independent qualified person | |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

9C

| | | | |
|---|---|--|--|
| System description: CO ₂ detection in enclosures used by vehicles | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | Section 7, AS 1668.2:2002 | | |
| Inspection, maintenance and reporting procedures: | Appendix M, AS 1668.2 Supplement 1-2002 | | |
| Frequency of inspections: | Monthly | Annually | |
| Maintained and inspected | Independent qualified | Independent qualified | |

| | | | |
|---|--|--------|--------|
| by: | | person | person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

9D

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[SS 10 Building maintenance units providing access to exterior and interior walls of buildings](#)

10A

| | | | |
|---|---|---|------------------------------|
| System description: Building maintenance units that provides access to exterior or interior walls of a building, is installed as part of the building, and is mechanical, electrical, or hydraulic in nature | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> BS 6037.1:2017 for suspended access equipment <input type="checkbox"/> BS 6037.2:2004 for travelling ladders and gantries | | |
| Inspection, maintenance and reporting procedures: | <i>(As required by the performance standard above)</i> | | |
| Frequency of inspections: | | 3 monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

[Back to Index](#)

[SS 11 Laboratory fume cupboards](#)

11A

| | | | |
|--|--|---|--|
| System description: Laboratory fume cupboards | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> AS/NZS 2243.8:2006 for ducted fume cupboard systems | | |

| | | | |
|---|--|------------------------------|------------------------------|
| | <input type="checkbox"/> AS/NZS 2243.1:2005 for local ventilation systems (fume hoods and plenums) | | |
| Inspection, maintenance and reporting procedures: | <i>(As required by the performance standard above)</i> | | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

SS 12 Audio loops or other assistive listening systems

12A

| | | | |
|---|--|--|------------------------------|
| System description: | | System modified by: | |
| <input type="checkbox"/> Audio loops <input type="checkbox"/> FM radio frequency systems <input type="checkbox"/> Infrared beam transmission systems <input type="checkbox"/> Wi-Fi based systems | | <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> AS 60118.4:2007 for audio loops <input type="checkbox"/> Specific design to meet Appendix H, NZS 4121:2001 | | |
| Inspection, maintenance and reporting procedures: | Inspections and maintenance procedures in accordance with the details on pages 43 – 44 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3. | | |
| Frequency of inspections: | | 6 monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

SS 13 Smoke control systems

13A

| | | | |
|---|--|--|------------------------------|
| System description: Mechanical smoke control to AS/NZS 1668.1 | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | AS/NZS 1668.1:1998 | | |
| Inspection, maintenance and reporting procedures: | Inspections and maintenance procedures as specified AS 1851:2012 | | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

13B

| | | | |
|---|--|--|------------------------------|
| System description: Natural Smoke Control | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | AS/NZS 1668.1:1998 | | |
| Inspection, maintenance and reporting procedures: | <input type="checkbox"/> Inspections and maintenance procedures as specified AS 1851:2012 <input type="checkbox"/> In accordance with the details on pages 45 - 46 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 | | |
| Frequency of inspections: | Monthly | 6 monthly | Annually |
| Maintained and inspected by: | Owner | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

13C

| | | | |
|---|--|---|------------------------------|
| System description: Smoke curtains | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | EN 12101 | | |
| Inspection, maintenance and reporting procedures: | <input type="checkbox"/> Inspections and maintenance procedures as specified AS 1851:2012 <input type="checkbox"/> In accordance with the details on pages 46 - 47 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 | | |
| Frequency of inspections: | | 6 monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

[Back to Index](#)

[SS 14 Emergency power systems for, or signs relating to, a system or feature specified in any of SS 1 to SS 13 above](#)

14A

| | | | |
|---|--|---|-----------------------|
| System description: Emergency power systems required for any specified system listed on this compliance schedule e.g. an engine alternator set for a sprinkler system pressure boost pump, uninterruptible power supply for an emergency lighting system, an engine alternator set for provisions of electrical supply to passenger lifts or an engine alternator set for provision of electrical supply to a smoke clearance system | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | NZS 6104:1981 | | |
| Inspection, maintenance and reporting procedures: | <i>(As required by the performance standard above)</i> | | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Independent qualified | Independent qualified |

| | | | |
|---|--|--------|--------|
| by: | | person | person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

14B

| | | | |
|---|--|--|------------------------------|
| System description: Signs relating to a system or feature listed on this compliance schedule e.g. fire alarm call points, automatic doors, access control doors, lifts or assistive listening systems | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | F8/AS1 Amendment 4 Effective 1 January 2017 F8.3.1, F8.3.2 and F8.3.3 | | |
| Inspection, maintenance and reporting procedures: | Inspection and maintenance procedures to ensure all signs are of the correct type, present in the right locations, legible, clearly visible and unobstructed. Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. | | |
| Frequency of inspections: | Owner or independent qualified person | | Annually |
| Maintained and inspected by: | Dependent on the specified system they are attached to | | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

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SS 15 Other fire safety systems or features (systems for communicating information intended to facilitate evacuation, final exits, fire separations, signs, fire separations)

15/1

| | | | |
|--|--|--|--|
| System description: Emergency warning intercommunications system as part of emergency warning systems for fire or other emergencies | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |

| | | | |
|---|---|------------------------------|------------------------------|
| Performance standards: | <input type="checkbox"/> AS 1670.4:2004 <input type="checkbox"/> NZS 4512:2010 | | |
| Inspection, maintenance and reporting procedures: | <input type="checkbox"/> AS 1851:2012 <input type="checkbox"/> NZS 4512:2010 | | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Independent qualified person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

15/2

| | | | |
|--|---|---|------------------------------|
| System description: Final exit doors | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> Paragraph 3.15 of the acceptable solutions C/AS2 to C/AS6(2019) <input type="checkbox"/> NZS 1900 (for buildings built and as altered prior to the introduction of the Building Act) | | |
| Inspection, maintenance and reporting procedures: | Inspections and maintenance procedures in accordance with the details on pages 49 - 50 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 | | |
| Frequency of inspections: | Daily | Monthly | Annually |
| Maintained and inspected by: | Owner (for crowd occupancies with multiple exits and more than one level) | Independent Qualified Person (for crowd occupancies) Owner (other occupancies) | Independent qualified person |

| |
|---|
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: |
|---|

15/3

| | | | |
|---|---|--|------------------------------|
| System description: Fire separations protecting a means of escape | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> Part 4, C/AS2 (2019) <input type="checkbox"/> NZS 1900 (for buildings built and as altered prior to the introduction of the Building Act) | | |
| Inspection, maintenance and reporting procedures: | Owner to undertake visual inspection of fire partitions including doors to ensure their proper operation Inspections and maintenance procedures in accordance with the details on pages 50 – 51 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3 | | |
| Frequency of inspections: | Monthly | 6 monthly | Annually |
| Maintained and inspected by: | Owner | Independent Qualified Person | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

15/4

| | | | |
|--|--|--|----------|
| System description: Signs at all final exit points and throughout escape routes | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | F8/AS1 SIGNS Amendment 4 Effective 1 January 2017 F8.3.1, F8.3.2 and F8.3.3 | | |
| Inspection, maintenance and reporting procedures: | Inspection and maintenance procedures to ensure all signs are of the correct type, present in the right locations, legible, clearly visible and unobstructed. Signs shall be refurbished before they become illegible, and shall be replaced immediately should they be missing. Defects in illuminated signs shall be replaced immediately they are apparent. | | |
| Frequency of inspections: | | Monthly | Annually |

| | | | |
|---|--|-------|------------------------------|
| Maintained and inspected by: | | Owner | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

15/4

| | | | |
|---|--|---|------------------------------|
| System description: Photoluminescent signs and escape path marking | | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> Added <input type="checkbox"/> Removed (select as required) | |
| Location(s): | | | |
| Performance standards: | Paragraph 4.5.4, F8/AS1 | | |
| Inspection, maintenance and reporting procedures: | All products are still configured as at installation and there is no material damage to any of these products. All products are clean from general dust build up and any other specific obscuring deposits. All products are clearly visible and have not been covered up by carpet or other materials. All products mark a clear path and have not been obstructed by physical hazards such as trolleys, machinery, partitions, etc. All products can be used to provide clear escape path marking and there has been no change to the configuration of the building which renders the escape path unusable. All light required to charge the product is operation as designed at installation | | |
| Frequency of inspections: | | Monthly | Annually |
| Maintained and inspected by: | | Owner | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

15/5

| | |
|--|--|
| System description: Smoke separations that form part of the means | System modified by: <input type="checkbox"/> Existing <input type="checkbox"/> New <input type="checkbox"/> Altered <input type="checkbox"/> |
|--|--|

| | | | |
|---|--|---|------------------------------|
| of escape from fire | | Added <input type="checkbox"/> Removed <input type="checkbox"/> (select as required) | |
| Location(s): | | | |
| Performance standards: | <input type="checkbox"/> EN 12101.1:2005 and Appendix C, C/AS2 (2019) <input type="checkbox"/> NZS 1900 for buildings built and as altered prior to the introduction of the Building Act | | |
| Inspection, maintenance and reporting procedures: | Owner to ensure smoke separations shall be maintained at all times in a safe condition with particular attention to proper operation of smoke control doors. Full inspection and maintenance procedures in accordance with the details on pages 51 - 52 in the Ministry of Business, Innovation and Employment Compliance Schedule Handbook, Amendment 3. | | |
| Frequency of inspections: | Monthly | 6 monthly | Annually |
| Maintained and inspected by: | Owner | Independent qualified person (crowd occupancies) | Independent qualified person |
| Building Officer consideration of appropriateness of proposed specified systems and their performance standards and consideration of the proposed inspection , maintenance and reporting requirements: | | | |

[SS 16 Cable cars](#)

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16A

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PRODUCER STATEMENT PS1 CHECKLIST -

The following checksheet provides some examples to provide context. These examples are not an exhaustive list. Wider judgement needs to be applied when considering the suitability of a Producer Statement.

| <p>Building Code Clause/s: (have consideration if B2 should be included for specific design elements)</p> | <p>B1 – Ok not in seaspray exposure zone.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|------------------|--|--|---------|-------|----------|------|-----------------------|---|------|---------------------------------|---|------|--------------------------------|---|------|-------------------------|---|------|--------------|---|------|------------------------|---|------|------------------------|---|------|------------------------|---|------|------------------------|---|------|------------------------|---|
| <p>Has the initial section been correctly completed? (Issued by, To, To be supplied to, In respect of, At)</p> | <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (RFI) Please enter the Lots and DP number into the PS1 as supplied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Is the PS1 covering ‘All’ or ‘Part only’ of the works associated with the consent for the selected code clause?</p> | <p>All <input type="checkbox"/> When no other work is being carried out in relation to the code clause ‘all’ should be selected.</p> | <p>Part only <input checked="" type="checkbox"/> If ‘Part only’ is selected, it needs to be clearly outlined what specific work relating to the code clause is covered. Description: Structural design of Specific Items.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Are the services they’re engaged to provide an accurate reflection of the scope of their involvement in the project?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No (RFI) Comment:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Has the method of compliance been accurately described using an acceptable compliance path? (ie B1/VM1)</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) <input checked="" type="checkbox"/> B1/VM1 <input type="checkbox"/> Comment:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Has the building work covered by the Producer Statement been correctly referenced (ie correct plan range and version and any other relevant documents)</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) Comment: Drawings are titled 221-223 High Street Hutt Central, Lower Hutt and numbered 2812/S0.1-S4.5/Rev A Sighted OK JOB No: 2812</p> <table border="1" data-bbox="1062 1485 1426 1709"> <thead> <tr> <th colspan="3">DRAWING REGISTER</th> </tr> <tr> <th>DWG NO.</th> <th>TITLE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>S0.1</td> <td>SPECIFICATION SUMMARY</td> <td>A</td> </tr> <tr> <td>S1.1</td> <td>GROUND FLOOR STRENGTHENING PLAN</td> <td>A</td> </tr> <tr> <td>S1.2</td> <td>FIRST FLOOR STRENGTHENING PLAN</td> <td>A</td> </tr> <tr> <td>S1.3</td> <td>ROOF STRENGTHENING PLAN</td> <td>A</td> </tr> <tr> <td>S2.1</td> <td>SECTION – S1</td> <td>A</td> </tr> <tr> <td>S4.1</td> <td>CONNECTION DETAILS – 1</td> <td>A</td> </tr> <tr> <td>S4.2</td> <td>CONNECTION DETAILS – 2</td> <td>A</td> </tr> <tr> <td>S4.3</td> <td>CONNECTION DETAILS – 3</td> <td>A</td> </tr> <tr> <td>S4.4</td> <td>CONNECTION DETAILS – 4</td> <td>A</td> </tr> <tr> <td>S4.5</td> <td>CONNECTION DETAILS – 5</td> <td>A</td> </tr> </tbody> </table> | | DRAWING REGISTER | | | DWG NO. | TITLE | REVISION | S0.1 | SPECIFICATION SUMMARY | A | S1.1 | GROUND FLOOR STRENGTHENING PLAN | A | S1.2 | FIRST FLOOR STRENGTHENING PLAN | A | S1.3 | ROOF STRENGTHENING PLAN | A | S2.1 | SECTION – S1 | A | S4.1 | CONNECTION DETAILS – 1 | A | S4.2 | CONNECTION DETAILS – 2 | A | S4.3 | CONNECTION DETAILS – 3 | A | S4.4 | CONNECTION DETAILS – 4 | A | S4.5 | CONNECTION DETAILS – 5 | A |
| DRAWING REGISTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DWG NO. | TITLE | REVISION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S0.1 | SPECIFICATION SUMMARY | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1.1 | GROUND FLOOR STRENGTHENING PLAN | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1.2 | FIRST FLOOR STRENGTHENING PLAN | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1.3 | ROOF STRENGTHENING PLAN | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2.1 | SECTION – S1 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4.1 | CONNECTION DETAILS – 1 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4.2 | CONNECTION DETAILS – 2 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4.3 | CONNECTION DETAILS – 3 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4.4 | CONNECTION DETAILS – 4 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S4.5 | CONNECTION DETAILS – 5 | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Do the ‘subject to’ requirements align with the proposed schedule of inspections? ie if a particular ground bearing capacity is stated or if dependent on original structure being as per plans are these things listed on their proposed inspection schedule?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) Comment: noted <i>as suitable Existing structure and foundation for fixing.</i> <i>How are you assessing this on site?</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Do the ‘subject to’ requirements trigger a need for other design documentation and Producer Statements to be supplied? (ie pile design by others)</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No (RFI) Comment:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--|--|---|---|
| Is the proposed level of construction monitoring appropriate for the project and do the proposed inspections adequately cover the work? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) | Comment: 5 Inspections in total listed at top of the 010 |
| Company Producer Statement issued by: | | Focus Engineering Consultants Ltd Date: 25/2/2021 | |
| Is the design firm a member of ACENZ? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Comment: |
| Engineer who signed PS1: | | David Lai | CPEng # 232550 # Checked on the Registration Authority Register <input checked="" type="checkbox"/> |
| Does Engineers Practice field align with work being undertaken? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) <input checked="" type="checkbox"/> Structural <input type="checkbox"/> Geotech <input type="checkbox"/> Fire <input type="checkbox"/> Mechanical <input type="checkbox"/> Other | |
| Engineers qualifications and memberships? | <input checked="" type="checkbox"/> BE <input type="checkbox"/> BE (Hons) <input type="checkbox"/> BEng(Hons) | <input type="checkbox"/> PhDeng <input checked="" type="checkbox"/> ME <input type="checkbox"/> BEngTech | <input type="checkbox"/> MEFE <input type="checkbox"/> CMEngNZ <input type="checkbox"/> Engineering NZ <input type="checkbox"/> Other |
| Is the professional indemnity insurance appropriate? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) | Comment: |
| Has the Producer Statement been signed by the appropriate engineer? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) | Comment: |
| Is the date on the Producer Statement within an acceptable timeframe? (Generally 3 months for specific designs and 2 years for proprietary systems) | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) | Comment: |
| Has relevant supporting information been provided that outlines the scope of the engineer's involvement, and clearly shows their design and workings? | | <input checked="" type="checkbox"/> Plans with sufficient detail <input checked="" type="checkbox"/> Calculations <input checked="" type="checkbox"/> Inspection Schedule <input type="checkbox"/> Specifications <input type="checkbox"/> Geotech report | <input type="checkbox"/> Proprietary/ Manufacturer <input type="checkbox"/> Others <input type="checkbox"/> Computer Modelled (note type) Comment: |
| PS4 – Does the inspection schedule or other documentation indicate who is going to carry out construction monitoring and that a PS4 will be provided at the completion of the project? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI) | Comment: |
| Is a peer review required? | Possible triggers for peer review: <input checked="" type="checkbox"/> Change of use <input type="checkbox"/> Substantial project <input type="checkbox"/> Earthquake-prone building <input type="checkbox"/> Complicated project <input type="checkbox"/> Info provided identifies building is less than 34% NBS | | |

| | | |
|--|---|------------------------|
| | <p>If any of these triggers apply refer to Building manager to discuss if peer review is appropriate – Checked with Chris Hoddinot and not being referred for a structural review – Claire Stevens also agrees with this decision. Email trimmed into BC folder.</p> <p>Comment: Need to check on the original NBS for the original building. Note a DSA completed by ISPS in 2016 trimmed in EQ576500 folder of the property file. The report states 43% in transverse direction</p> | |
| <p>Have all sections of the form been completed, and the Producer Statement confirms compliance of the design work with the relevant clause/s of the Building Code?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI)</p> | <p>Comment:</p> |
| <p>Has sufficient information been provided to accept the Producer Statement?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (RFI)</p> | |
| <p>ISO Application of Judgement ECB-WI-006</p> | <p><input type="checkbox"/> Applied</p> | |
| <p>ISO Acceptance of Expert Opinion ECB-WI-005</p> | <p><input type="checkbox"/> Applied</p> | |
| <p>Signed by accepting officer: Date:</p> | <p><i>Lydell Huizer</i> 21/4/2021</p> | |

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BC No

| Change of Use - s115 | Code Clause |
|--|-------------|
| "As near as is reasonably practicable" As presented by applicant for building consent | |

Upgrading Triggered - Means of escape from fire, Protection of other property, Sanitary facilities, Structural performance, Fire rating performance, access and facilities for people with disabilities (if this is a requirement under section 118)

Code clauses to be addressed

G6: The existing first floor is 100mm concrete slab over beams – I am satisfied that the required IC rating for this floor is sufficient. In addition ceilings are shown as lined with 13mm GIB board over GIB rondo ceiling battens OK Based on this additional layer I am satisfied that ANARP the code requirement for an IIC of 55 is being complied with. The additional on ceiling insulation might also help – is this happening.

Reasoning:

Expert Opinion:

Decision:

Assessor:

Name:

Signature:

Moderator:

Name:

Signature:

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BC No

Alteration - s112(2) Discretion to Avoid Upgrade Triggers

Refer to Building Act – Section that applied at the time
As presented by applicant for building consent

Proposal:

Reasoning:

Decision:

Assessor:

Name:

Signature:

Moderator:

Name:

Signature:

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT 1987

BC No

Waiver of Modification

As presented by applicant for building consent

Proposal:

Reasoning:

Decision:

Assessor:

Name:

Signature:

Moderator:

Name:

Signature:

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NATURAL HAZARD CHECK LIST

To be completed when the land is likely to be subject to a hazard.

| | |
|---|---|
| <p>1. Is the land the building work is occurring on subject to or likely to be subject to a hazard? s71(1)(a)</p> <p>Common hazards are, for example:</p> <ul style="list-style-type: none"> ▪ 1 in 100 flood hazard or ▪ 1 in 3 slope for most common hazards | <p><input type="checkbox"/> Yes - proceed to Q2</p> <p><input checked="" type="checkbox"/> No</p> |
| <p>2. What is the hazard and what information is available about it and from where?</p> <p>(Refer to s71(3) for hazards under BA04 and hazard information source)</p> | |
| <p>3. Is the building work construction of a new building or major alteration? s71(2)?</p> | <p><input type="checkbox"/> Yes - proceed to Q4</p> <p><input type="checkbox"/> No - explain why the alteration is not major - consider guidance and how these apply - no further input required.</p> |
| <p>4. Is the land connected to the building work?</p> <p>In urban sites the whole section is likely to be connected to the building work but in larger pieces of land, the hazard may be considered remote from the building work (Auckland City Council v Logan).</p> | <p><input type="checkbox"/> Yes - proceed to Q5</p> <p><input type="checkbox"/> No - such as in rural and lifestyle sites. Explain the disconnect.</p> |
| <p>5. Is the building work likely to accelerate, worsen or result in a natural hazard on this land or any other property?</p> | <p><input type="checkbox"/> Yes - the building consent needs to be refused.</p> <p><input type="checkbox"/> No - proceed to Q6</p> |
| <p>6. Has adequate provision been made or will be made to protect or restore the land and building work from the natural hazard? s71(2)(a) and (b)?</p> <p>(It is usually straight forward to protect the building work but more difficult to protect the land from the hazard)</p> | <p><input type="checkbox"/> Yes - the building consent can be processed with no further consideration of a hazard required.</p> <p><input type="checkbox"/> No - proceed to Q7</p> |
| <p>7. Will the Building work mitigate the hazard but not the land hazard?</p> | <p><input type="checkbox"/> Yes - the building consent can be processed but apply the s73 notice.</p> <p><input type="checkbox"/> No – building consent needs to be refused.</p> |
| <p>8. Has a waiver been sought and is it reasonable to grant waiver s72(c)?</p> <p>Note: a waiver is not required if the proposed building work complies with the building code but the building consent will be granted under s72 and subject to a s73 notice.</p> | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> |

BC No 210296

| DIALOGUE RECORD | | |
|-----------------|---------------------------|---|
| Date /Time | Phone, Fax, Email, letter | Participants, summary of dialogue. Reference to documents sent/received |
| 5/5/2021 | email | RFI1 emailed to the owner and designer |
| 14/7/2021 | Email | RFI1 response from Andrew of Tadworks |
| 29/7/2021 | email | Spoke with Andrew regarding RFI response and went through questions likely to be asked in RFI2. |
| 31/7/2021 | email | RFI2 emailed to Andrew at Tadworks |
| 30/9/2021 | email | Follow up questions RFI3 |
| 30/9/2021 | email | Anarp argument for G7 – PS1's to follow. |
| 28/10/2021 | email | PS1's from Engineer covering Proprietary systems. |
| | | |

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Application for Building Consent

| |
|---|
| <p>COUNCIL USE ONLY</p> <p>BC Number BC210296</p> |
|---|

1. What are you applying for? *Tick all applicable*

¹ For PIM only applications, complete Sections 1-7, and 13 only

Follow instructions as per section

- | | |
|---|--|
| <input type="checkbox"/> Building Consent | <input type="checkbox"/> Project Information Memo (PIM) ¹ |
| <input type="checkbox"/> Amendment to Building Consent ² | <input type="checkbox"/> Building Consent using a National Multiple-Use Approval ('MultiProof') ³ |
| <input type="checkbox"/> Staged Consent ² | |

² Please enter existing building consent number below:

³ Please enter National Multiple-Use Approval number below:

2. What building work are you doing? *Tick all applicable*

If your building work is not listed, tick **Other** and provide details (this includes amendments to building consents)

| | | |
|--|--|---|
| <input type="checkbox"/> Residential | | |
| <input type="checkbox"/> New detached dwelling | <input type="checkbox"/> New multi-residential dwelling (more than 2 household units) | <input type="checkbox"/> Plumbing works |
| <input type="checkbox"/> Major alterations/additions – any work that includes altering or attaching to the exterior of a building | <input type="checkbox"/> Minor alterations – any internal work that does not include altering the exterior of the building | <input type="checkbox"/> New solid fuel burner |
| <input type="checkbox"/> Garage/detached carport | <input type="checkbox"/> Other (please provide details below) | |
| | | |
| <input type="checkbox"/> Commercial/Industrial | | |
| <input type="checkbox"/> New commercial/industrial building | <input type="checkbox"/> Major alterations/additions – any work that includes altering or attaching to the exterior of a building | <input type="checkbox"/> Seismic strengthening |
| <input type="checkbox"/> Minor alterations – any internal work that does not include altering the exterior of the building | <input type="checkbox"/> Internal fit-out only (including plumbing and ventilation) | <input type="checkbox"/> Other (please provide details below) |
| | | |

3. Where is the building work? *Complete all fields, enter N/A where not applicable*

| | | | |
|--|---|-----|-----------------------------|
| What is the street address? | <i>*No street address? State nearest street intersection and distance/direction from that intersection.</i> | | |
| Legal description: | Lot: | | DP: |
| Building name: | | | |
| Location of building within site/block including near street access: | | | |
| Does the building or site have any cultural or heritage significance, or is it a marae? | <input type="checkbox"/> | Yes | <input type="checkbox"/> No |
| <i>If yes, provide details</i> | | | |
| Is the subdivision of an existing site involved? | <input type="checkbox"/> | Yes | <input type="checkbox"/> No |
| <i>If a subdivision is proposed and you have not yet received a s224 certificate, the application will also need to provide any relevant information stating legal description as at the date of application and, if subdivision is proposed, include details of the relevant resource consent number and any proposed lot number.</i> | | | |
| <i>If Yes, complete the following:</i> | Resource Consent No. | | |
| | Proposed Lot No. | | |

4. Who owns the building or land? *Complete all fields*

| | | | |
|---|--|--|--|
| Owner name: | | Title: eg Mr, Mrs, Ms, Dr | |
| Owner email address: | | | |
| Owner contact number: | | | |
| Owner mailing address: | | | |
| Indicate which of the following Proof of Ownership documents is attached to your application Your document must be less than 3 months' old | | | |
| <input type="checkbox"/> Copy of Certificate of Title | <input type="checkbox"/> Copy of Lease Agreement | <input type="checkbox"/> Agreement for Sale and Purchase | <input type="checkbox"/> Other document showing full name of legal owner |
| Are you using an Agent? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <i>If Yes, please also complete the following</i> |
| Who is the first point of contact for further correspondence? | <input type="checkbox"/> Agent | <input type="checkbox"/> Owner | |
| Who is the first point of contact for invoicing? | <input type="checkbox"/> Agent | <input type="checkbox"/> Owner | |
| Agent name: | | Title: eg Mr, Mrs, Ms, Dr | |
| Agent email: | | | |
| Agent contact number: | | | |
| Agent mailing address: | | | |

5. Who's involved in the build? Complete all fields per line, or select N/A where not applicable. If you have additional roles to add, please use the table in Appendix A.

| | Role | N/A |
|------------------|-----------|-----|
| Trade | Designer | |
| Name: | | |
| Address: | | |
| Contact No: | | |
| Email: | | |
| Registration No: | LBP: | |
| Trade | Architect | |
| Name: | | |
| Address: | | |
| Contact No: | | |
| Email: | | |
| Registration No: | NZRAB: | |

6. What are the specifics of the site? Complete all fields

| | | | | | | |
|--|---------------------------------|----------------------------------|-------------------------------------|---|---|-----------------------------|
| What is the wind zone? | | | | | | |
| <input type="checkbox"/> Low | <input type="checkbox"/> Medium | <input type="checkbox"/> High | <input type="checkbox"/> Very High | <input type="checkbox"/> Extra High | <input type="checkbox"/> Specific Design State value below | |
| What is the exposure zone? | | <input type="checkbox"/> Low (B) | <input type="checkbox"/> Medium (C) | <input type="checkbox"/> High/Sea spray (D) | | |
| Does the proposed building work cover two or more allotments? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there public drains on the site? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is the site subject to natural or created hazards such as erosion, subsidence, flooding, slips, cut and fill or contamination? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there any alterations to land contours (eg earthworks)? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there new or altered connections to public utilities? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there new or altered locations and/or external dimensions of buildings? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is there new or altered access for vehicles? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is the building work over or adjacent to any road or public place? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the building work involve the disposal of storm-water or wastewater? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Is the building work over any existing drains or sewers or in close proximity to wells or water mains? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there any other matters known to the applicant that may require authorisation from the territorial authority? | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| If Yes, please provide a summary here | | | | | | |

7. What are the details of the building work? *Complete all fields, or enter N/A if not applicable*

| | | | |
|---|---|---|---|
| Provide a full description of the building work: <i>E.g. 4 Bedroom dwelling with, multiple cladding types and attached garage</i> | It is proposed to partially convert the ground floor from the two existing commercial units, to two residential units at the rear and two commercial units at the front. It is proposed to fully convert the first floor from commercial to four residential units. Replacing existing windows and doors with new aluminium joinery, and new metal cladding over existing concrete walls, skylight to existing roof, extend building perimeter on the ground floor with new timber cladding. Total Apartment Area: 510sqm | | |
| Estimated value of the building work (including GST): | \$ 1MIL | | |
| If the application is for an amendment to a building consent, please add the additional value if applicable (including GST): | \$ | <input checked="" type="checkbox"/> N/A | |
| What is the intended life of the building? | <input checked="" type="checkbox"/> 50+ years | <input type="checkbox"/> Limited Life | |
| If Limited Life, please indicate the intended life of the building | | years | |
| Have you discussed this project with Council prior to applying? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Does the project include Restricted Building Work? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Are you applying for Owner/Builder exemption to complete the Restricted Building Work? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| If Yes, please complete and attach the Statutory Declaration as to Owner Builder form (click here) If No, please complete and attach the Memorandum from Licensed Building Practitioner: Certificate of Design Work form (click here) for each type of building work being undertaken | | | |
| Total number of floor levels: | 2 | Levels below ground: | 0 |
| Current floor area: | 683 | Proposed new total floor area: | 685 |
| If you are making alterations to an existing dwelling, please complete the following: | | | |
| Is there any Recladding? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Is Recladding covered by a claim under the Financial Assistance Package scheme? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If Yes, please provide Financial Assistance Package reference number | | | |
| Does the building work involve a swimming pool? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Year first constructed: | 1959 | | |
| Current lawful established use: | Commercial | | |
| Proposed use (A1 classified use): | Commercial and Housing | | |
| Will the building work result in a change of use of the building? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| If you are unsure how to determine if a change of use will occur, please refer to the guidance provided by the Ministry of Business, Innovation and Employment: http://www.building.govt.nz/managing-buildings/change-of-use-and-alterations/ | | | |
| If Yes, please provide details | | | |
| Refer approved resource consent. It is proposed to partially convert the ground floor from the two existing commercial units, to two residential units at the rear and two commercial units at the front. It is proposed to fully convert the first floor from commercial to four residential units. Total Apartment Area: 510sqm | | | |

8. What clauses of the building code does your building work comply with?

Please read the following carefully:

- You are required to indicate what code clause(s) your building work complies with
- Unless otherwise noted below, your application will be assessed under Acceptable Solutions
- If you are using another means of compliance, please provide details of the standard(s) that your building work complies with and the means of compliance in the space provided. Use a separate sheet of paper if necessary
- If you do not provide all the necessary information to show how your application complies with the Building Code, it will be returned unprocessed.

I understand that this application is to be assessed against Acceptable Solutions, unless otherwise stated in the following section. Please tick to indicate your agreement.

| | | | | | |
|-------------------------------------|---|-------------------------------------|---|-------------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> | B1 Structure | <input type="checkbox"/> | F1 Hazardous agents on site | <input checked="" type="checkbox"/> | G5 Interior environment |
| <input checked="" type="checkbox"/> | B2 Durability | <input checked="" type="checkbox"/> | F2 Hazardous building materials | <input checked="" type="checkbox"/> | G6 Airborne & impact sound |
| <input checked="" type="checkbox"/> | C1 Protection from fire | <input type="checkbox"/> | F3 Hazardous substances and processes | <input checked="" type="checkbox"/> | G7 Natural light |
| <input checked="" type="checkbox"/> | C2 Prevention of fire occurring | <input checked="" type="checkbox"/> | F4 Safety from falling | <input checked="" type="checkbox"/> | G8 Artificial light |
| <input checked="" type="checkbox"/> | C3 Fire affecting areas beyond fire source | <input checked="" type="checkbox"/> | F5 Site safety | <input checked="" type="checkbox"/> | G9 Electricity |
| <input checked="" type="checkbox"/> | C4 Movement to place of safety | <input checked="" type="checkbox"/> | F6 Visibility in escape routes | <input checked="" type="checkbox"/> | G10 Piped services |
| <input checked="" type="checkbox"/> | C5 Access & safety for fire-fighting operations | <input checked="" type="checkbox"/> | F7 Warning systems | <input checked="" type="checkbox"/> | G11 Gas as an energy source |
| <input checked="" type="checkbox"/> | C6 Structural stability | <input checked="" type="checkbox"/> | F8 Signs | <input checked="" type="checkbox"/> | G12 Water supplies |
| <input checked="" type="checkbox"/> | D1 Access routes | <input type="checkbox"/> | F9 Means of restricting access to residential pools | <input checked="" type="checkbox"/> | G13 Foul water |
| <input checked="" type="checkbox"/> | D2 Mechanical installations | <input checked="" type="checkbox"/> | G1 Personal hygiene | <input type="checkbox"/> | G14 Industrial liquid waste |
| <input checked="" type="checkbox"/> | E1 Surface water | <input checked="" type="checkbox"/> | G2 Laundering | <input checked="" type="checkbox"/> | G15 Solid waste |
| <input checked="" type="checkbox"/> | E2 External moisture | <input checked="" type="checkbox"/> | G3 Food preparation & prevention of contamination | <input checked="" type="checkbox"/> | H1 Energy efficiency |
| <input checked="" type="checkbox"/> | E3 Internal moisture | <input checked="" type="checkbox"/> | G4 Ventilation | | |

Provide details of all Verification Methods being used (include relevant code clause and means of compliance)
 B1 - 3.0 timber / B2 - 3.2 timber and wood based product / D1 - 4.0 stair & 5.0 handrail / E2 - 8.4 profiled metal roof cladding & 8.5 membrane roof deck & 9.6 profiled metal wall cladding / E3 - 3.0 watersplash / F4 - 1.1 barrier heights / G4 - 1.2&1.3 natural ventilation & 1.5 mechanical ventilation / G13 4.0 discharge pipes & 5.0 venting

All fire related, please refer fire report

Provide details of all Alternative Solutions being used (include relevant code clause and means of compliance) or details of any waivers and modifications (including applicable code clauses)

9. What specified systems are included in your building work? *Complete all fields*

| | | |
|---|------------------------------|-----------------------------|
| Does your building work involve or affect any Specified Systems (SS)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|---|------------------------------|-----------------------------|

| | | | | | | | | |
|--|------------|--------------------------|--------------------------|------------------------------|-----------------------------|---|-----------------------------------|---------------------|
| Residential <i>Please complete the following:</i> | | | | | | N/A | <input type="checkbox"/> | |
| <i>If Yes, please complete Specified System 16 (Cable Car) below</i> | | | | | | | | |
| SS16 Does your building work involve a cable car? | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <i>If Yes, please provide detail below</i> | | |
| | | Existing | Altered | Added/New | Removed | Complete this section if the cable car is being altered or added/new | | |
| | | | | | | Inspection performance standards | Maintenance performance standards | Reporting Frequency |
| SS16 | Cable cars | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| <i>Provide any other details</i> | | | | | | | | |

| | | | | | | | |
|--|--|--|--|--|--|-----|--------------------------|
| Commercial/Industrial <i>Please complete the following:</i> | | | | | | N/A | <input type="checkbox"/> |
| If applicable, what is the existing compliance schedule number? | | | | | | | |
| Risk group: | | | | | | | |
| Total occupancy numbers: | | | | | | | |
| If yes, please complete Appendix B (Specified Systems) | | | | | | | |

10. Does your build require a fire design review?

Certain applications for building consent must be submitted to the New Zealand Fire Service Commission Fire Engineering Unit (FEU) for review. *For commercial/industrial applications please complete the following:*

| | | |
|---|------------------------------|-----------------------------|
| Is your building of a type defined in the Gazette notice and section 46 of the Building Act 2004? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|---|------------------------------|-----------------------------|

11. Have you attached all required documents?

You are required to provide all the necessary documents to support your application. This includes (but is not limited to) the following sections:

- Section 4: Proof of Ownership
- Section 6: Plans showing land and boundary features as required PIM, development of contribution notice or certificate attached to PIM
- Section 7: Statutory Declaration as to Owner Builder form OR Memorandum of Licensed Building Practitioners – Certificate of Design Work (for each type of building work being undertaken)
- Section 8: Plans, specifications and other supporting information in relation to the compliance method of the build, e.g. where the work deviates from an Acceptable Solution method.

Please check your application and ensure all the supporting information is attached otherwise your application will be returned **unprocessed**.

When you are satisfied your application is complete, please complete section 13 and send to your local Building Consent Authority.

If you are unsure about what information to include in your application, a guidance document is available ([click here](#))

Privacy Information

The information you have provided on this form is required so that your building consent application can be processed under the Building Act 2004. The Council collates statistics relating to issued building consents and has a statutory obligation to forward these regularly to Statistics New Zealand. The Council stores the information on a public register, which must be supplied (as previously determined by the Ombudsman) to whoever requests the information. Under the Privacy Act 1993 you have the right to see and correct personal information the Council holds about you.

12. Your application fees

Your council will charge fees for your consent application. These will include statutory levies payable to BRANZ and the Ministry of Business, Innovation & Employment.

A full fee schedule can be found on the Council's website. Please consult this before submitting your application.

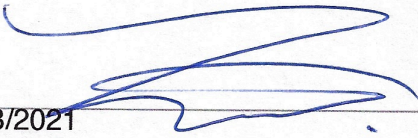
13. Have you signed the application?

I request that you issue a project information memorandum, project information memorandum and building consent, or building consent for the building work described in this application.

All of the information contained in this application is, to the best of my knowledge, true and correct. I understand that work must not commence until the building consent is issued and uplifted.

Name and signature of the owner / agent on behalf of and with the authority of the owner

I understand that this application may only be made with the owner's approval. Please tick to indicate your agreement.

| | |
|--|---|
| Owner / Agent Name: | Andrew Tong |
| Owner / Agent Signature: <i>(Enter your name and tick the acknowledgement box if you do not have a digital signature)</i> |  |
| Date: | 17/03/2021 |

Your local council (or their website) will be able to help you with information specific to the site your application covers.

Appendix A List of those involved in the build

| | Role |
|----------------------|------|
| <i>Trade</i> | |
| Name: | |
| Address: | |
| Contact number: | |
| Email: | |
| Registration number: | |
| <i>Trade</i> | |
| Name: | |
| Address: | |
| Contact number: | |
| Email: | |
| Registration number: | |
| <i>Trade</i> | |
| Name: | |
| Address: | |
| Contact number: | |
| Email: | |
| Registration number: | |
| <i>Trade</i> | |
| Name: | |
| Address: | |
| Contact number: | |
| Email: | |
| Registration number: | |
| <i>Trade</i> | |
| Name: | |
| Address: | |
| Contact number: | |
| Email: | |
| Registration number: | |

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Appendix B List of specified systems (Commercial / Industrial Building Consent Applications)

The specified systems for the building are as follows:

Tick all applicable and outline the performance standards and reporting frequency

| The following specified systems are existing, being altered, added to, or removed in the course of the building work | | Existing | Altered | Added/New | Removed | Complete this section if systems are new, altered or added only | | |
|--|--|--------------------------|-------------------------------------|--------------------------|--------------------------|---|-------------------------------------|---------------------|
| | | | | | | Performance standards | Inspection & maintenance procedures | Reporting frequency |
| SS1 | Automatic systems for fire suppression (e.g. sprinkler systems)(includes Gas/Flood Systems) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS2 | Automatic or manual emergency warning systems for fire or other dangers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS3 | Electromagnetic or automatic doors or windows | | | | | | | |
| | S3.1 Automatic doors | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | SS3.2 Access control doors | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | SS3.3 Interfaced fire or smoke doors or windows | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS4 | Emergency lighting systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS5 | Escape route pressurisation systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS6 | Riser mains for use by fire services | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS7 | Automatic backflow preventers connected to a potable water supply | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS8 | Lifts, escalators, travellers or other systems for moving people or goods within buildings | | | | | | | |
| | SS8.1 Passenger-carrying lifts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | SS8.2 Service lifts | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | SS8.3 Escalators and moving walkways | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS9 | Mechanical ventilation or air conditioning systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS10 | Building maintenance units (for providing access to the exterior and interior walls of a building) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS11 | Laboratory fume cupboards | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| SS12 | Audio Loops or other assistive listening system | | | | | | | |
| | SS12.1 Audio loops | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | SS12.2 FM radio frequency systems and infrared beam transmission systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |

attachment

Refer

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| The following specified systems are existing, being altered, added to, or removed in the course of the building work | Existing | Altered | Added/New | Removed | Complete this section if systems are new, altered or added only | | |
|--|---|--------------------------|--------------------------|--------------------------|---|-------------------------------------|---------------------|
| | | | | | Performance standards | Inspection & maintenance procedures | Reporting frequency |
| SS13 | Smoke control systems | | | | | | |
| | SS13.1 Mechanical smoke control | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS13.2 Natural smoke control | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS13.3 Smoke curtains | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| SS14 | Emergency power systems for, or signs relating to, a specified system in 1-13 above | | | | | | |
| | SS14.1 Emergency power systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS14.2 Signs for systems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| SS15 | Other fire safety systems or features | | | | | | |
| | SS15.1 Systems for communicating spoken information intended to facilitate evacuation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS15.2 Final exits | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS15.3 Fire separations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS15.4 Signs for communicating information intended to facilitate evacuation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | SS15.5 Smoke separations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| SS16 | Cable cars | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

attachment

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**RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy**



R. W. Muir
Registrar-General
of Land

Identifier WN643/1
Land Registration District Wellington
Date Issued 07 February 1955

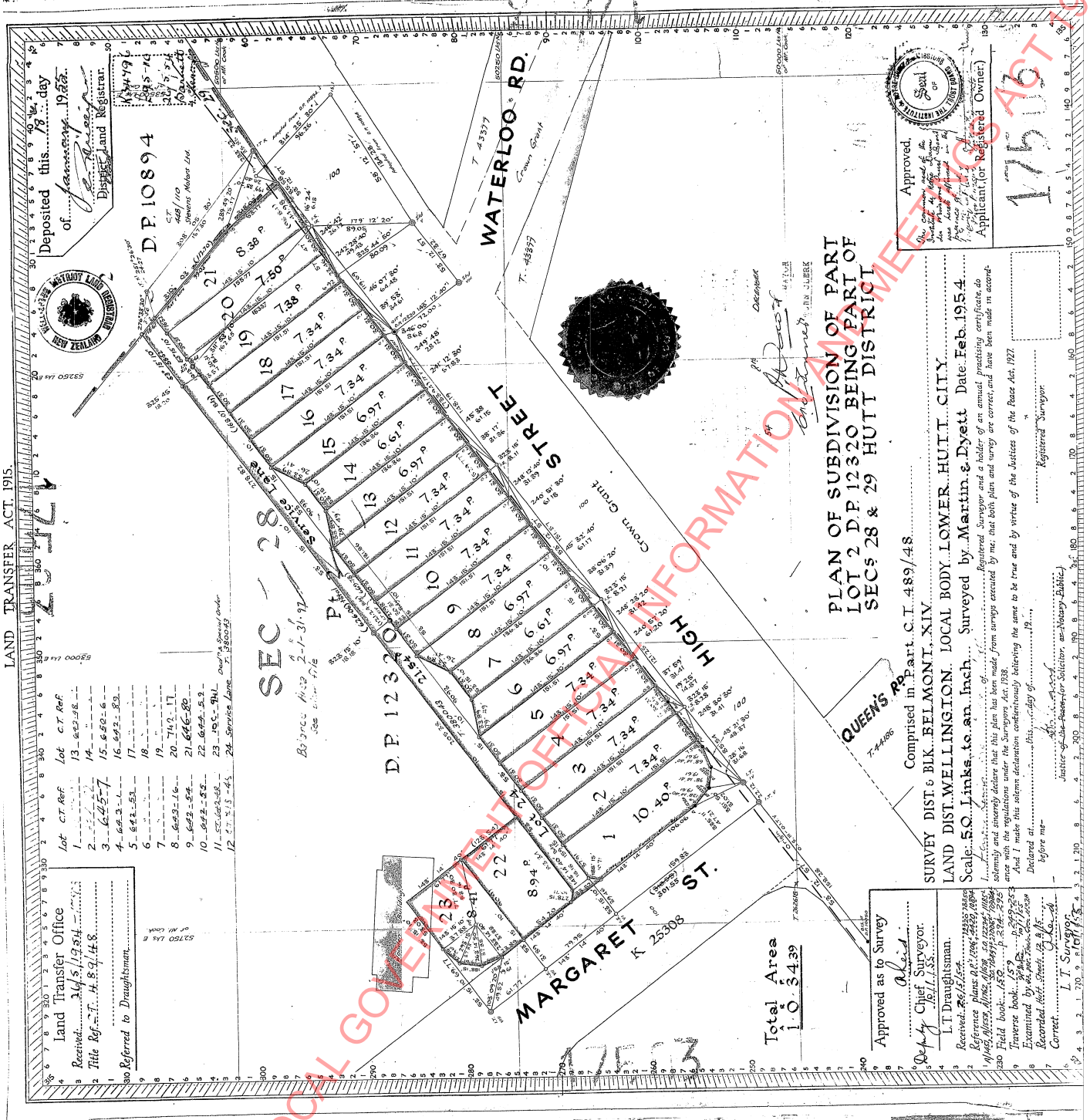
Prior References
WN489/48

Estate Fee Simple
Area 186 square metres more or less
Legal Description Lot 4 Deposited Plan 17503
Registered Owners
218 Willis Limited

Interests

Appurtenant hereto is a right of support created by Transfer 536610 - 24.8.1962 at 2.16 pm
Appurtenant hereto is a right of support created by Transfer 536611 - 24.8.1962 at 2.17 pm

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT 1987



Deposited this 19th day of January 1954.
 District Land Registrar.



D.P. 10894
 CT 110
 Stephens & Co. Ltd.

| Lot | CT Ref | Lot | CT Ref |
|-----|-----------|-----|--------|
| 1 | 13-623-58 | 13 | 623-58 |
| 2 | 14 | 14 | 623-58 |
| 3 | 645-7 | 15 | 645-6 |
| 4 | 645-7 | 16 | 645-7 |
| 5 | 645-7 | 17 | 645-7 |
| 6 | 645-7 | 18 | 645-7 |
| 7 | 645-7 | 19 | 645-7 |
| 8 | 645-7 | 20 | 645-7 |
| 9 | 645-7 | 21 | 645-7 |
| 10 | 645-7 | 22 | 645-7 |
| 11 | 645-7 | 23 | 645-7 |
| 12 | 645-7 | 24 | 645-7 |

SEC 28
 D.P. 12320
 2-1-31-72
 see plan 176

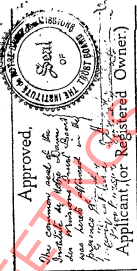
WATERLOO RD.
 Crown Grant
 T. 43377

HIGH STREET
 Crown Grant
 T. 43377

MARGARET ST.
 K 25308

Total Area
 1.0. \$4.39

PLAN OF SUBDIVISION OF PART
 LOT 2 D.P. 12320 BEING PART OF
 SECS 28 & 29 HUTT DISTRICT



Approved,
 The Registrar of Land,
 Wellington.
 Applicant (or Registered Owner)

Comprised in Part C.I. 489/48.
 SURVEY DIST. 6 BLK. BELMONT, XIN.
 LAND DIST. WELLINGTON. LOCAL BODY LOWER HUTT CITY.
 Scale: S.O. Links to an Inch. Surveyed by Martin & Dyett Date Feb. 1954.
 I, the undersigned, being a duly qualified and licensed Surveyor, do hereby certify that this plan has been made from surveys executed by me, that both plan and survey are correct, and have been made in accordance with the regulations under the Surveyors Act, 1938.
 And I make this solemn declaration conscientiously believing the same to be true and by virtue of the Oath Act, 1927.
 Declared at... this... day of... 1954.
 before me -
 Justice of the Peace for Wellington (Mr. Henry White)

Approved as to Survey
 Chief Surveyor
 L. T. Draughtsman

1751672987



**RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy**



R. W. Muir
Registrar-General
of Land

Identifier WN645/7
Land Registration District Wellington
Date Issued 24 February 1955

Prior References
WN489/48

Estate Fee Simple
Area 186 square metres more or less
Legal Description Lot 3 Deposited Plan 17503
Registered Owners
218 Willis Limited

Interests

Appurtenant hereto is a right of support created by Transfer 536610 - 24.8.1962 at 12.16 pm
Appurtenant hereto is a right of support created by Transfer 536611 - 24.8.1962 at 2.17 pm

RELEASED UNDER THE LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT 1987

