





# BCA Design Compliance Report (BCA Consultant)

231 Whale Beach Road – Shop-top housing development  
Prepared for: Lescil A. Cassar AM  
Our Ref: 23000575 | Issue date: 21 August 2024

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## Authorisation

| Revision | Comment / Reason for Issue | Issue Date     | Prepared by  | Reviewed by   |
|----------|----------------------------|----------------|--|---|
| 03       | FEBQ submission            | 21 August 2024 |  |  |
|          |                            |                | Scott Gibbons  | Matthew Marks   |

## Revision History

| Revision | Comment / Reason for Issue | Issue Date     | Prepared by   |
|----------|----------------------------|----------------|---------------|
| 01       | Design Development         | 11-Aug-23      | Scott Gibbons |
| 02       | Tender Submission          | 5 June 2024    | Scott Gibbons |
| 03       | FEBQ submission            | 21 August 2024 | Scott Gibbons |

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# 1 Executive Summary

Modern Building Consultants (MBC Group) as the appointed BCA Consultant for the proposed development, have reviewed architectural design documents prepared by Richard Cole Architecture (refer appendix A) for compliance with the National Construction Code - Building Code of Australia Volume One 2022 (referred to as BCA).

## 1.1 Performance Solutions - Fire & Life Safety

The assessment of the design documentation has revealed that the following areas are required to be assessed against the relevant Performance Requirements of the BCA. The submission for a Construction Certificate will need to include verification from a Certifier – Fire Safety, where determined permissible under A2G1 of the BCA, for the following aspects: -

| DTS Clause                                   | Description of Non-Compliance   | Performance Requirement |
|--|---|-------------------------|
| <b><u>Travel via fire-isolated exits</u></b> |   |                         |
| D2D12  | The path of travel from the proposed fire isolated stair at level 3 discharges within 6m from the lift lobby entrance. Entrance door and surrounding areas to achieve a FRL of 60/60/60.<br><br>Openings are not proposed to be protected in accordance with this clause. | D1P2, D1P5, E2P2        |
| <b><u>Travel via fire-isolated exits</u></b> |   |                         |
| D2D12  | A doorway from a room must not open directly into a stairway, passageway or ramp that is required to be fire-isolated.<br>Fire sprinkler & pump room to be provided with an air lock or smoke lobby in lieu of direct entrance into a fire isolated stair.                | E1P3                    |
| <b><u>Swinging doors</u></b>                 |   |                         |
| D3D25  | Ground floor - surf Road<br>Level 3 - Whale Beach Road<br>The nominated exits door do not swing in the direction of egress  | D1P2, E2P2              |

| DTS Clause   | Description of Non-Compliance   | Performance Requirement |
|--------------|---|-------------------------|
| E1D4<br>E1D2 | <b><u>Non-Provision of Large Bore Sprinkler Suction Booster</u></b><br><b><u>OR Non-Compliant Vertical Lift for Large Bore Sprinkler Suction Booster</u></b> <ul style="list-style-type: none"> <li>Option 1 – Deleting large bore suction booster for the sprinkler system (based on on-site water storage capable of providing 120% flow of water for the sprinkler system and fire hydrant flow being fully serviced by the town's main), instead of providing a large bore suction booster under AS 2118.1-2017.</li> <li>Option 2 – Providing large bore suction booster for the sprinkler system but the maximum vertical lift of the dry pipe for the large bore suction is approx. 4.6 m, instead of 3 m allowed under AS 2419.1-2021 (or 2.8 m allowed in relation to the FRNSW Position Statements).</li> </ul> | E1P4 or<br>E1P3         |
| E1D4         | <b><u>Non-Provision of Sprinklers within Main Switch Room</u></b><br>Non-provision of sprinklers within Main Switch Board room, instead of complying with AS 2118.1-2017.   | E1P4                    |
| Spec 17      | <b><u>Fire sprinkler systems</u></b><br>Location of the sprinkler alarm valves being located within the fire services pump room, in lieu of complying with BCA Specification 17.  | E1P4                    |

Any Performance Solution will be subject to consultation and approval by Fire and Rescue NSW as part of the Construction Certificate process.

## 1.2 Performance Solutions – Accessibility

The assessment of the design documentation has revealed that the following areas are required to be assessed against the relevant Performance Requirements of the BCA in accordance with Clause 18 of the Building and Development Certifiers Regulation 2020. The submission for a Construction Certificate will need to include verification from a Accredited Access Consultant, where determined permissible under A2G1 of the BCA, for the following aspects:

| DTS Clause   | Description of Non-Compliance | Performance Requirement |
|--|-------------------------------|-------------------------|
| <i>Please refer to the access consultant (Accessible Building Solutions)</i> |                               |                         |

## 1.3 Performance Solutions Non-fire or Access Related

The assessment of the design documentation has revealed that the following areas are required to be assessed against the relevant Performance Requirements of the BCA in accordance with Clause 18 of the Building and Development Certifiers Regulation 2020. The submission for a Construction Certificate will need to include verification from a Accredited Consultant (suitably qualified in the relevant field), where determined permissible under A2G1 of the BCA, for the following aspects:

| DTS Clause | Description of Non-Compliance   | Performance Requirement |
|------------|---|-------------------------|
| Part F     | Where the façade is not designed to comply with F3 DtS Provisions, a weatherproofing performance solution report is required. | F1P2                    |

## 1.4 Design Details Required

The assessment of the design documentation has revealed that the following areas require further details to demonstrate compliance with the prescriptive provisions of the BCA

| DTS Clause | Description  |
|------------|--|
| BCA 2022   | <b>Refer to Clause by Clause assessment in Appendix D.</b>   |
| E1D5       | <b><u>Sprinklers</u></b><br>The standard of performance shall also be confirmed by the fire service engineer.  |
| E1D17      | <b><u>Provision for special hazards</u></b><br>The building is proposed to have solar panels on the roof. This shall be document in the FEBQ as a hazard for FRNSW comment.  |
| F1D5       | <b><u>External Waterproofing membranes</u></b><br>Declared designs are to show water proofing details, hop designs, falls and drainage. Provide supporting manufactures technical details and specifications in accordance with AS4654.1 & 2 |



| DTS Clause    | Description   |
|---------------|---|
|               | <b><u>Wet area construction</u></b>   |
| F2D2          | Declared designs are to show water resistant and waterproofing details. Provide supporting manufactures technical details and specifications in accordance with Specification 26 and AS3740.  |
|               | <b><u>Wall types</u></b>  |
| Spec 5        | <ul style="list-style-type: none"> <li>Structural engineers supporting documentation to confirm the proposed FRL, specification and additional requirements.</li> <li>Manufactures supporting documentation and test reports to confirm the proposed FRL's, thermal and acoustic properties.</li> </ul> |
|               | <b><u>Fire Doors</u></b>  |
| Spec 12       | Pyropanel timber-faced side-hung Fire doors has been approved to AS1530.4:2014. Please provide testing reports that align with the AS1905.1-2015 tested system. To be reviewed prior to issuance of Construction certificates.  |
| AS1657 - 2013 | <b><u>Access ladder</u></b><br>Detailed plans showing compliance with AS1657 to be provided.  |
| Part J        | <b><u>Energy efficiency</u></b><br>NatHERS accredited consultant stamp plans  |

The documentation will need further detailing such as door hardware, construction specifications, services design and manufacturer's details, as outlined in Appendix A of this report.

The application for Construction Certificate shall be assessed under the relevant provisions of the Environmental Planning and Assessment Act 1979 (As Amended) and the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021.

## 2 Introduction

Modern Building Consultants (MBC Group) as the appointed BCA Consultant for the proposed development subject of this report by Richard Cole Architects. This report is based upon a desktop review of architectural details (as listed in Appendix A), presently in preliminary format, against the applicable provisions of the National Construction Code - Building Code of Australia Volume One 2022.

### 2.1 Purpose

The purpose of this report is to assess the current design proposal against the Deemed-to-Satisfy (DtS) provisions of the BCA.

### 2.2 Methodology

The methodology applied in undertaking this assessment has included: -

- A desktop review of architectural plans, as listed in Appendix A
- Detailed assessment of Sections C, D, E, F, G, H and J (as applicable / relevant) of the BCA
- Discussions with the design development team to gain an understanding of the development proposed.

### 2.3 Limitations

This report does not include or imply any detailed assessment for design, compliance or upgrading for:

- the structural adequacy or design of the building;
- the inherent derived fire-resistance ratings of any proposed structural elements of the building (unless specifically referred to); and
- the design basis and/or operating capabilities of any proposed:
  - electrical
  - mechanical
  - hydraulic
  - fire protection services.

This report does not include, or imply compliance with:

- the National Construction Code – Plumbing Code of Australia Volume 3
- the Disability Discrimination Act 1992 including the Disability ((Access to Premises – Buildings) Standards 2010 – unless specifically referred to)
- The deemed to satisfy provisions of Part D4 and F4D5 of BCA 2022
- The deemed to satisfy provisions of Section J of BCA 2022
- Demolition Standards not referred to by the BCA;
- Work Healthy and Safety Act 2011;
- An out of cycle change to the Building Code of Australia.
- Requirements of other Regulatory Authorities including, but not limited to, Telstra, Telecommunications Supply Authority, Water Supply Authority, Electricity Supply Authority, Work Cover, Roads and Maritime Services (RMS), Roads and Transport Authority, Local Council, ARTC, Department of Planning and the like; and



- Conditions of Development Consent issued by the Local Consent Authority

This report has been prepared by MBC in the capacity as the appointed Certifier for the proposed development. This report is an assessment of the proposed development against the DtS provisions of the applicable BCA.

## 2.4 Current Legislation

The applicable legislation governing the design of buildings in NSW is the Environmental Planning and Assessment Act 1979.

### **Applicable Building Code of Australia (BCA)**

The proposed development will be subject to compliance with the relevant requirements of the BCA as in force at the time that the application for the Construction Certificate is made.

In this regard it is assumed that the Construction Certificate application will be made prior to the 1<sup>st</sup> March 2025, as such this report is based upon the Deemed-to-Satisfy provisions of BCA 2022.

Should the application for Construction Certificate be made after 1st March 2025, this report will be required to be updated to reflect any changes made and now required by the BCA.

Should an out of cycle change occur to the Building Code of Australia, then this report is required to be updated to reflect any applicable changes made and now required by the BCA.

## 3 Development Description & Assessment Information

### 3.1 Proposed Development

The proposed mixed-use development comprises residential apartments, retail units and associated carparking.

The proposed development includes:

- 5 Residential apartments
- 3 Retail units
- Carparking

### 3.2 Location and Description

The site is located at 231 Whale Beach Road, Whale Beach. Refer to figure 1 below.



Figure 1 - 231 Whale Beach Rd, Whale Beach

### 3.3 BCA Classification (Part A6)

The proposed development shall contain the following classifications: -

- Class 2: being an apartment building
- Class 6: being a retail building or part
- Class 7a: being a carpark building or part

### 3.4 Rise in Storeys (Clause C2D3)

The proposed development has been assessed to have a rise in storeys of **Five (5)**. The basement is not included in the rise in storeys.

### 3.5 Effective Height (Part A1)

The proposed development has been assessed to have an effective height of **13,800m**, this is measured from Ground floor level (RL 9,500) to level four (RL23,300).

Please note the definition of effective height of a building was changed 1 May 2016. The BCA now defines effective height as: -

*“Effective height means the vertical distance between the floor of the lowest storey included in a determination of rise in storeys and the floor of the topmost storey (excluding the topmost storey if it contains only heating, ventilating, lift or other equipment, water tanks or similar service units).”*

### 3.6 Type of Construction Required (Clause C2D2 / Table C2D2)

The proposed development is required to be **Type A** Construction. Specification 5 outlines the fire resistance required by certain building elements. This has also been provided in Appendix B.

### 3.7 Floor Area and Volume Limitations (Clause C3D3 / Table C3D3)

The development is limited to the following floor area and volume compartment limitations:

| Class         |                  | Type A               | Type B               | Type C               |
|---------------|------------------|----------------------|----------------------|----------------------|
| 5, 9b or 9c   | Max floor area - | 8,000m <sup>2</sup>  | 5,500m <sup>2</sup>  | 3,000m <sup>2</sup>  |
|               | Max volume -     | 48,000m <sup>3</sup> | 33,000m <sup>3</sup> | 18,000m <sup>3</sup> |
| 6, 7, 8 or 9a | Max floor area - | 5,000m <sup>2</sup>  | 3,500m <sup>2</sup>  | 2,000m <sup>2</sup>  |
|               | Max volume -     | 30,000m <sup>3</sup> | 21,000m <sup>3</sup> | 12,000m <sup>3</sup> |

### 3.8 Building Data Summary

| Part of Development | Use             | Class | Floor Area (approx.) m <sup>2</sup> | Population (using D2D18)                           |
|---------------------|-----------------|-------|-------------------------------------|--|
| Basement            | Car Park        | 7a    | 517                                 | 16   |
| Ground floor        | Ancillary areas | 6     | 415                                 | 170 Patrons & 18 Staff (proposed)                  |
|                     | Retail 1        | 6     | 188                                 |  |
| Level 1             | Residential     | 2     | 299                                 | NA   |
| Level 2             | Residential     | 2     | 349                                 | NA   |
| Level 3             | Retail 2        | 6     | 63                                  | 19 Patrons & 2 Staff<br>8 Patrons & 1 Staff<br>N/A |
|                     | Retail 3        | 6     | 27                                  |  |
|                     | Residential     | 2     | 246                                 |  |
| Level 4             | Residential     | 2     | 240                                 | NA   |

Notes:

- The above populations have been based on the floor areas and calculations in accordance with Table D2D18 of the BCA.
- \*Retail tenancy 1 & 2 are anticipated to be a café/ restaurant. Therefore, a 1m<sup>2</sup> per person calculation has been undertaken in accordance with Table D2D18 of the BCA.
- \*Retail tenancy 2 & 3 are not considered as food and drink premises. These are considered a “shop” and a 3m<sup>2</sup> per person calculation has been utilised.
- The floor areas have been adjusted to account for ancillary areas such as sanitary facilities, corridors, shelving and / or racking layouts in storage areas.
- The Carpark & ‘ancillary areas’ to the apartment have been considered ancillary to the main use for the purposes of population numbers

| Summary of Construction and Building |                                  |
|--------------------------------------|----------------------------------|
| Use(s)                               | Residential, retail and carpark. |
| Classifications(s)                   | 2, 6, 7a                         |
| Number of Storeys contained          | 6                                |
| Rise in Storeys                      | 5                                |
| Type of Construction                 | A                                |
| Effective Height                     | 13,800m                          |

## 4 Proposed Fire Safety Schedule

The following is a draft Fire Safety Schedule for the proposed building, listing the likely measures and standards of performance required, this schedule shall be subject of further development and review as part of the Performance Solutions assessment:

### Fire Safety Schedule

Section 78 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021

Address: 321 Whale Beach Road, Whale Beach 2107

The following essential fire safety measures shall be implemented in the whole of the building premises and each of the fire safety measures must satisfy the standard of performance listed in the schedule which, for the purposes of Section 78 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021, is deemed to be the current fire safety schedule for the building.

### SCHEDULE – Base Building BCA Year 2022

Type of Construction A

Effective height = 13,800m

|    | Measure   | Existing Performance Standard  |
|----|---|--|
| 1. | Access panels, doors and hoppers to fire-resisting shafts | BCA 2022 Clause C4D14, AS 1905.1-2015, AS1905.2-2005 & Manufacturer's specifications |
| 2. | Self-closing, automatic closing and latching mechanisms   | BCA 2022 Clause C4D5, C4D6, C4D9, C4D12, Spec 12                                     |
| 3. | Automatic fail safe devices                               | BCA 2022 Clause, D3D24, D3D26, D3D27, Spec 12, AS 2118.1-2017, AS 1670.1-2018        |
| 4. | Automatic fire detection and alarm system                 | BCA 2022 Clause E2D3, E2D8, E2D9, Spec 20 Clause S20C4, S20C7 AS1670.1-2015          |
| 5. | Automatic fire suppression system                         | BCA 2022 Clause E1D4, Spec 17, Spec 18 AS 2118.1-2017                                |
| 6. | Emergency lift  | BCA 2022 Clause E3D5, AS 1735.1-2016 AS 1735.2-2001, AS1735.11-1986, AS1735.12 1999  |
| 7. | Emergency lighting  | BCA 2022 Clause E4D2, E4D3 E4D4, AS 2293.1-2018                                      |
| 8. | Exit and directional signage                              | BCA 2022 Clause E4D5, NSW E4D6 & E4D8, Spec 25 AS 2293.1-2018                        |
| 9. | Emergency warning and intercommunication systems          | BCA 2022 Clause E4D9, S31C19, AS 1670.4-2018   |

|     | Measure   | Existing Performance Standard   |
|-----|---|---|
| 10. | Fire alarm monitoring system  | BCA 2022 Spec 20 Clause S20C8, AS 1670.3-2018   |
| 11. | Fire & Smoke dampers  | BCA 2022 Clause E2D3, C3D6, C4D13, C4D15, Spec 11, Spec 19<br>AS/NZS 1668.1-2015, AS 1682.1-2015,<br>AS 1682.2-2015, Manufacturer's specifications                  |
| 12. | Fire doors  | BCA 2022 Clause C3D13, C3D14, C4D5, C4D7, C4D9, C4D12, S5C45, Spec 12, AS 1905.1-2015   |
| 13. | Fire hose reel systems  | BCA 2022 Clause E1D3,<br>AS 2441-2005   |
| 14. | Fire hydrant systems  | BCA 2022 Clause E1D2,<br>AS 2419.1-2021   |
| 15. | Fire seals (protecting openings and service penetrations in fire resisting components of the building)                                  | BCA 2022 Clause C4D15, Spec 13,<br>AS 4072.1-2005,<br>AS 1530.4-2014, Manufacturer's specifications   |
| 16. | Lightweight construction  | BCA 2022 Clause C2D9, Spec 6, AS 1530.4-2014,<br>Manufacturer's specifications  |
| 17. | Mechanical air handling systems   | BCA 2022 E2 and NSW Part E2, Spec 19, Spec 21, Spec 22, Spec 24.<br>AS/NZS 1668.1-2015, AS 1668.2-2012  |
| 18. | Openings in fire-isolated lift shafts   | BCA 2022 Clause C3D11<br>AS 1735.11-1986  |
| 19. | Occupant warning system   | BCA 2022 Clause E2D3, S17C8, Spec 20 Clause S20C7, AS 1670.1-2018   |
| 20. | Path of travel for stairways, passageway and ramps  | Section 107-109 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021  |
| 21. | Portable fire extinguishers   | BCA 2022 Clause E1D14,<br>AS 2444-2001  |
| 22. | Wall wetting sprinkler and drencher systems   | BCA 2022 Clause C4D5, Spec 31,<br>AS 2118.2-2021  |
| 23. | Warning and operational signs   | BCA 2022 Clause C4D7, D3D28, E3D4, Spec 31,<br>Section 108 of the Environmental Planning and Assessment (Development Certification and Fire Safety) Regulation 2021 |
| 24. | Add in performance solution requirement e.g. Storage of XXXX materials on storey XXXX must be less than XXXX above finished floor level | Performance Solution Report XXXXX, prepared by XXXX dated XXXX  |

## 5 BCA Assessment – Clause by Clause

| BCA Clause                             | Compliance Provisions        | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|--|------------------------------|-------------------------------|---|--|
| <b>Section B - Structure</b>           |                              |                               |   |  |
| <b>Part B1 - Structural Provisions</b> |                              |                               |   |  |
| B1D1                                   | Deemed-to-Satisfy Provisions | Compliance Readily Achievable | <p>Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements B1P1 to B1P4 are satisfied by complying with B1D2 to B1D6.</p> <p>Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable</p>   | <b>Structural design to be addressed by a qualified Structural Engineer. Drawings and Design Statement to be provided.</b> |
| B1D2                                   | Resistance to actions        | Compliance Readily Achievable | <p>The resistance of a building or structure must be greater than the most critical action effect resulting from different combinations of actions, where—</p> <p>(a) the most critical action effect on a building or structure is determined in accordance with B1D3 and the general design procedures contained in AS/NZS 1170.0; and</p> <p>(b) the resistance of a building or structure is determined in accordance with B1D4.</p> <p>Where new structural works do not comply with the deemed to satisfy provisions, a performance solution demonstrating compliance with B1P1 and B1P2 can be adopted. This can be achieved through verification method B1V1.</p> | <b>Structural design to be addressed by a qualified Structural Engineer. Drawings and Design Statement to be provided.</b> |



| BCA Clause                              | Compliance Provisions   | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|---|---|-------------------------------|--|--|
| B1D3                                    | Determination of individual actions   | Compliance Readily Achievable | Determination of buildings structural individual actions and importance level are to be in accordance with NCC B1D3.   | <b>Structural design to be addressed by a qualified Structural Engineer. Drawings and Design Statement to be provided.</b> |
| B1D4                                    | Determination of structural resistance of materials and forms of construction | Compliance Readily Achievable | <p>Structural documentation demonstrating that materials and forms of construction will comply with B1D2,B1D3, B1D4 of the NCC and referenced Australian Standards will be required by a suitably qualified engineer.</p> <p>The structural engineer is to nominate any deviations from B1D2, B1D3, B1D4 or Australian Standards applicable to these works.</p> <p>Structural engineer to confirm that the prescribed FRL has been achieved in accordance with Specification 5 of the NCC for all structural components. This is to be nominated on the plans submitted for review and approval.</p> | <b>Structural design to be addressed by a qualified Structural Engineer. Drawings and Design Statement to be provided.</b> |
| Section C - Fire resistance             |   |                               |  |  |
| Part C2 - Fire resistance and stability |   |                               |  |  |

| BCA Clause      | Compliance Provisions          | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
|-----------------|--------------------------------|-------------------------------|--|---|---------------------------|------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| C2D1            | Deemed-to-Satisfy Provisions   | Compliance Readily Achievable | <p>Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements C1P1 to C1P9 are satisfied by complying with—</p> <p>(a) C2D2 to C2D15, C3D2 to C3D15 and C4D2 to C4D17; and</p> <p>(b) in a building containing an atrium, Part G3; and</p> <p>(c) for additional requirements for Class 9b buildings, Part I1; and</p> <p>(d) for farm sheds, Part I3.</p> <p>Where a Performance Solution is proposed, the relevant performance requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable.</p> |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| C2D2            | Type of construction required  | Compliance Readily Achievable | <p>The building is required to be constructed in accordance with Type <b>A</b> construction.</p> <p>Table C2D2: Type of construction required</p> <table><tr><th>Rise in storeys</th><th>Class of building 2, 3, 9</th><th>Class of building 5, 6, 7, 8</th></tr><tr><td>4 or more</td><td>A</td><td>A</td></tr><tr><td>3</td><td>A</td><td>B</td></tr><tr><td>2</td><td>B</td><td>C</td></tr><tr><td>1</td><td>C</td><td>C</td></tr></table>  | Rise in storeys   | Class of building 2, 3, 9 | Class of building 5, 6, 7, 8 | 4 or more | A | A | 3 | A | B | 2 | B | C | 1 | C | C | Type A construction. |
| Rise in storeys | Class of building 2, 3, 9      | Class of building 5, 6, 7, 8  |  |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| 4 or more       | A                              | A                             |  |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| 3               | A                              | B                             |  |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| 2               | B                              | C                             |  |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| 1               | C                              | C                             |  |   |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |
| C2D3            | Calculation of Rise in storeys | Noted                         | <p>The rise in storeys is the sum of the greatest number of storeys at any part of the external walls of the building and any storeys within the roof space—</p> <p>(a) above the finished ground next to that part; or</p> <p>(b) if part of the external wall is on the boundary of the allotment, above the natural ground level at the relevant part of the boundary.</p>  | The building is noted to have a rise in storeys of 5. GF, Level 1 - Level 4 |                           |                              |           |   |   |   |   |   |   |   |   |   |   |   |                      |

| BCA Clause | Compliance Provisions                | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection |
|------------|--------------------------------------|-------------------------------------|--|--------------------------|
| C2D4       | Buildings of Multiple classification | Compliance<br>Readily<br>Achievable | In a building of multiple classifications, the Type of construction required for the building is the most fire-resisting Type resulting from the application of Table C2D2 on the basis that the classification applying to the top storey applies to all Stories.   |                          |
| C2D5       | Mixed types of construction          | Compliance<br>Readily<br>Achievable | A building may be of mixed Types of construction where it is separated in accordance with C3D8 and the Type of construction is determined in accordance with C2D2 or C2D4  |                          |
| C2D10      | Non-combustible building elements    | Compliance<br>Readily<br>Achievable | <p>In a building required to be of Type A construction, the following building elements and their components must be non-combustible:</p> <p>(a) External walls and common walls, including all components incorporated in them including the facade covering, framing and insulation.</p> <p>(b) The flooring and floor framing of lift pits.</p> <p>(c) Non-loadbearing internal walls where they are required to be fire-resisting.</p> <p>A shaft, being a lift, ventilating, pipe, garbage, or similar shaft that is not for the discharge of hot products of combustion, that is non-loadbearing, must be of non-combustible construction in a Type A building.</p> <p>A loadbearing internal wall and a loadbearing fire wall, including those that are part of a loadbearing shafts, must comply with Specification 5.</p> |                          |

| BCA Clause | Compliance Provisions  | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|------------|------------------------|-------------------------------|--|--|
| C2D11      | Fire Hazard Properties | Compliance Readily Achievable | The fire hazard properties of walls, ceilings, floor coverings and mechanical ductwork will need to comply with Specification 7 of the NCC.  | <b>PCA to review prior to issuance of the Construction Certificate.</b>  |
| C2D14      | Ancillary elements     | Compliance Readily Achievable | <p>An ancillary element must not be fixed, installed, attached to or supported by the internal space within or external face of an external wall that is required to be non-combustible unless it is one of the following</p> <ul style="list-style-type: none"> <li>• An ancillary element that is non-combustible.</li> <li>• A gutter, downpipe or other plumbing fixture or fitting.</li> <li>• A flashing.</li> <li>• A grate or grille not more than 2 m<sup>2</sup> in area associated with a building service.</li> <li>• An electrical switch, socket-outlet, cover plate or the like.</li> <li>• A light fitting.</li> <li>• A required sign.</li> <li>• A sign other than one provided under (a) or (g) that— <ul style="list-style-type: none"> <li>i) achieves a group number of 1 or 2; and</li> <li>ii) does not extend beyond one storey; and</li> <li>iii) does not extend beyond one fire compartment; and</li> <li>iv) is separated vertically from other signs permitted under (h) by at least 2 storeys.</li> </ul> </li> <li>v) An awning, sunshade, canopy, blind or shading hood other than one provided under (a) that— <ul style="list-style-type: none"> <li>i) meets the relevant requirements of S7C7 as for an internal element; and</li> <li>ii) serves a storey— at ground level; or</li> </ul> </li> </ul> <p>(A) immediately above a storey at ground level; and<br/>(B) does not serve an exit, where it would render the exit unusable in a fire.</p> <ul style="list-style-type: none"> <li>• A part of a security, intercom or announcement system.</li> </ul> | <b>All external wall materials and attachments are required to be non-combustible. A schedule of external wall materials and attachments must be provided for review by the PCA with the Construction Certificate Application.</b> |

| BCA Clause                                       | Compliance Provisions                     | Status                      | MBC Assessment Report Commentary  | MBC Notes for Inspection |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
|--|---|-----------------------------|---|--------------------------|--|----------------------|--|--|--|--|---|---|---|--------------------------------|-----------------|----------------------|----------------------|----------------------|-------------|-----------------------|-----------------------|-----------------------|---|-----------------|----------------------|----------------------|----------------------|-------------|-----------------------|-----------------------|-----------------------|-------------------------|
|  |   |                             | <ul style="list-style-type: none"> <li>• Wiring</li> <li>• Waterproofing material applied to the floor surface of external balconies, terraces or the like, and a 250 mm upturn above the floor level</li> <li>• A gasket, caulking, sealant or adhesive.</li> </ul> Test reports demonstrating compliance with AS 1530.1 will be required for the external wall elements and attachments will be required as the design develops.  |                          |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| <b>Part C3 - Compartmentation and Separation</b> |   |                             |   |                          |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| C3D1   | Deemed-to-Satisfy Provisions              | Noted                       | <p>Where a Deemed-to-Satisfy Solution is proposed, Performance Requirements C1P1 to C1P9 are satisfied by complying with—</p> <p>(a) C2D2 to C2D14, C3D2 to C3D15 and C4D2 to C4D17; and</p> <p>(b) in a building containing an atrium, Part G3; and</p> <p>(c) or additional requirements for Class 9b buildings, Part I1; and</p> <p>(d) for farm sheds, Part I3.</p> <p>(2) Where a Performance Solution is proposed, the relevant Performance Requirements must be determined in accordance with A2G2(3) and A2G4(3) as applicable</p>  |                          |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| C3D2   | Application of Part                       | Noted                       | This part is applicable   |                          |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| C3D3   | General Floor area and volume limitations | Compliance Appears Achieved | <p>Floor area and volume limitations comply with Type A B C Construction.</p> <table border="1"> <thead> <tr> <th colspan="2">Classification</th><th colspan="3">Type of Construction</th></tr> <tr> <th colspan="2"></th><th>A</th><th>B</th><th>C</th></tr> </thead> <tbody> <tr> <td rowspan="2">5, 9b or 9c aged care building</td><td>max floor area—</td><td>8 000 m<sup>2</sup></td><td>5 500 m<sup>2</sup></td><td>3 000 m<sup>2</sup></td></tr> <tr> <td>max volume—</td><td>48 000 m<sup>3</sup></td><td>33 000 m<sup>3</sup></td><td>18 000 m<sup>3</sup></td></tr> <tr> <td rowspan="2">6, 7, 8 or 9a (except for patient care areas)</td><td>max floor area—</td><td>5 000 m<sup>2</sup></td><td>3 500 m<sup>2</sup></td><td>2 000 m<sup>2</sup></td></tr> <tr> <td>max volume—</td><td>30 000 m<sup>3</sup></td><td>21 000 m<sup>3</sup></td><td>12 000 m<sup>3</sup></td></tr> </tbody> </table> | Classification           |  | Type of Construction |  |  |  |  | A | B | C | 5, 9b or 9c aged care building | max floor area— | 8 000 m <sup>2</sup> | 5 500 m <sup>2</sup> | 3 000 m <sup>2</sup> | max volume— | 48 000 m <sup>3</sup> | 33 000 m <sup>3</sup> | 18 000 m <sup>3</sup> | 6, 7, 8 or 9a (except for patient care areas) | max floor area— | 5 000 m <sup>2</sup> | 3 500 m <sup>2</sup> | 2 000 m <sup>2</sup> | max volume— | 30 000 m <sup>3</sup> | 21 000 m <sup>3</sup> | 12 000 m <sup>3</sup> | Compliance is achieved. |
| Classification                                   |   | Type of Construction        |   |                          |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
|  |   | A                           | B   | C                        |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| 5, 9b or 9c aged care building                   | max floor area—                           | 8 000 m <sup>2</sup>        | 5 500 m <sup>2</sup>  | 3 000 m <sup>2</sup>     |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
|  | max volume—                               | 48 000 m <sup>3</sup>       | 33 000 m <sup>3</sup>   | 18 000 m <sup>3</sup>    |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
| 6, 7, 8 or 9a (except for patient care areas)    | max floor area—                           | 5 000 m <sup>2</sup>        | 3 500 m <sup>2</sup>  | 2 000 m <sup>2</sup>     |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |
|  | max volume—                               | 30 000 m <sup>3</sup>       | 21 000 m <sup>3</sup>   | 12 000 m <sup>3</sup>    |  |                      |  |  |  |  |   |   |   |                                |                 |                      |                      |                      |             |                       |                       |                       |   |                 |                      |                      |                      |             |                       |                       |                       |                         |

| BCA Clause | Compliance Provisions    | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|--------------------------|-------------------------------|---|---|
| C3D8       | Separation in fire walls | Compliance Readily Achievable | <p>Where fire walls are required, the fire walls between each fire compartment must be constructed in accordance with C3D8 and specification 5.</p> <p>(a) The fire wall has the relevant FRL prescribed by Specification 5 for each of the adjoining parts, and if these are different, the greater FRL, except where S5C18(c), S5C21(3) and S5C24(3) permit a lower FRL on the carpark side</p> <p>(b) Any openings in a fire wall must not reduce the FRL required by Specification 5 for the fire wall, except where permitted by the Deemed-to-Satisfy Provisions of Part C4</p> <p>(c) Building elements, other than roof battens with dimensions of 75 mm x 50 mm or less or sarking-type material, must not pass through or cross the fire wall unless the required fire-resisting performance of the fire wall is maintained.</p> <p>Separation of buildings</p> <p>A part of a building separated from the remainder of the building by a fire wall may be treated as a separate building for the purposes of the Deemed-to-Satisfy Provisions of Sections C, D and E if it is constructed in accordance with C3D8.</p> | <p><b>Separation by way of fire walls is not proposed in accordance with this clause. SOU's are separated in accordance with Specification 5 for bounding construction.</b></p> |

| BCA Clause | Compliance Provisions                              | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|--|-------------------------------|---|---|
| C3D9       | Separation of classifications in the same storey   | Compliance Readily Achievable | <p>If a building has parts of different classifications located alongside one another in the same storey—</p> <p>(a) each building element in that storey must have the higher FRL prescribed in Specification 5 for that element for the classifications concerned; or</p> <p>(b) the parts must be separated in that storey by a firewall</p>   | <b>The class 6 is proposed to be fire separated from the class 2 on level 3 by way of 180minute fire walls.</b> |
| C3D10      | Separation of classifications in different storeys | Compliance Readily Achievable | <p>If parts of different classification are situated one above the other in adjoining storeys they must be separated as follows:</p> <p>(a) Type A construction — The floor between the adjoining parts must have an FRL of not less than that prescribed in Specification 5 for the classification of the lower storey.</p> <p>(b) Type B or C construction — If one of the adjoining parts is of Class 2, 3 or 4, the floor separating the part from the storey below must—</p> <p>(i) be a floor/ceiling system incorporating a ceiling which has a resistance to the incipient spread of fire to the space above itself of not less than 60 minutes; or</p> <p>(ii) have an FRL of at least 30/30/30; or</p> <p>(iii) have a fire-protective covering on the underside of the floor, including beams incorporated in it, if the floor is combustible or of metal.</p> | -   |



| BCA Clause | Compliance Provisions     | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|------------|---------------------------|-------------------------------|--|---|
| C3D11      | Separation of Lift Shafts | Compliance Readily Achievable | <p>Any lift connecting more than 2 storeys, or more than 3 storeys if the building is sprinklered, (other than lifts which are wholly within an atrium) must be separated from the remainder of the building by enclosure in a shaft in which—</p> <p>(a) in a building required to be of Type A construction — the walls have the relevant FRL prescribed by Specification 5; and</p> <p>(b) in a building required to be of Type B construction — the walls—</p> <p>(i) if loadbearing, have the relevant FRL prescribed by Tables S5C21a to S5C21f of Specification 5; or</p> <p>(ii) if non-loadbearing, be of non-combustible construction.</p> <p>Openings for lift landing doors and services must be protected in accordance with the Deemed-to-Satisfy Provisions of Part C4.</p> | <b>Lift Shafts are proposed to be fire separated with an FRL of 180/120/120</b> |

| BCA Clause | Compliance Provisions     | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection |
|------------|---------------------------|-------------------------------|--|--------------------------|
| C3D13      | Separation of equipment   | Compliance Readily Achievable | <p>The following equipment is required to be fire separated from the remainder of the building with construction achieving an FRL of 120 minutes:</p> <ul style="list-style-type: none"> <li>§ lift motors and lift control panels; or</li> <li>§ emergency generators used to sustain emergency equipment operating in the emergency mode; or</li> <li>§ central smoke control plant; or</li> <li>§ boilers; or</li> <li>§ a battery system installed in the building that has a total voltage of 12 volts or more and a storage capacity of 200 kWh or more.</li> </ul> <p>Separating construction must have—</p> <ul style="list-style-type: none"> <li>(i) an FRL as required by Specification 5, but not less than 120/120/120; and</li> <li>(ii) any doorway protected with a self-closing fire door having an FRL of not less than –/120/30; or</li> <li>(iii) when separating a lift shaft and lift motor room, an FRL not less than 120/–/–.</li> </ul> |                          |
| C3D14      | Electricity supply system | Compliance Readily Achievable | <p>An electricity substation located within a building must—</p> <ul style="list-style-type: none"> <li>(a) be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and</li> <li>(b) have any doorway in that construction protected with a self-closing fire door having an FRL of not less than –/120/30.</li> </ul> <p>A main switchboard located within the building which sustains emergency equipment operating in the emergency mode must—</p>   |                          |

| BCA Clause | Compliance Provisions | Status | MBC Assessment Report Commentary   | MBC Notes for Inspection |
|------------|-----------------------|--------|--|--------------------------|
|            |                       |        | <p>(a) be separated from any other part of the building by construction having an FRL of not less than 120/120/120; and</p> <p>(b) have any doorway in that construction protected with a self-closing fire door having an FRL of not less than – /120/30.</p> <p>Where emergency equipment is required in a building, all switchboards in the electrical installation, which sustain the electricity supply to the emergency equipment, must be constructed so that emergency equipment switchgear is separated from non-emergency equipment switchgear by metal partitions designed to minimise the spread of a fault from the non-emergency equipment switchgear.</p> <p>Emergency equipment includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>- Fire hydrant booster pumps.</li> <li>- Pumps for automatic sprinkler systems, water spray, chemical fluid suppression systems or the like.</li> <li>- Pumps for fire hose reels where such pumps and fire hose reels form the sole means of fire protection in the building.</li> <li>- Air handling systems designed to exhaust and control the spread of fire and smoke.</li> <li>- Emergency lifts.</li> <li>- Control and indicating equipment.</li> <li>- Emergency warning and intercom systems.</li> </ul> |                          |

| BCA Clause                       | Compliance Provisions                       | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection                                    |
|----------------------------------|---|-------------------------------|---|---|
| C3D15                            | Public Corridors in Class 2 and 3 Buildings | Compliance Readily Achievable | Public corridors are proposed to be less than 40m in length   | Public corridors are proposed to be less than 40m in length |
| Part C4 - Protection of Openings |   |                               |   |   |
| C4D2                             | Application of Part                         | Further Details Required      | This part is applicable   |   |
| C4D3                             | Protection of openings in external walls    | Compliance Readily Achievable | <p>Openings in an external wall that is required to have an FRL must be protected in accordance with C4D5, and if wall-wetting sprinklers are used they must be located externally.</p> <p>The requirements of above only apply if the distance between the opening and the fire-source feature to which it is exposed is less than –</p> <p>(a) 3 m from a side or rear boundary of the allotment; or</p> <p>(b) 6 m from the far boundary of a road, river, lake or the like adjoining the allotment, if not located in a storey at or near ground level; or</p> <p>(c) 6 m from another building on the allotment that is not Class 10</p> | Openings are greater than 3m to all boundaries.             |

| BCA Clause | Compliance Provisions   | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|------------|---|-------------------------------------|--|--|
| C4D4       | Separation of openings in external walls and associated openings in different fire compartments | Compliance<br>Readily<br>Achievable | <p>The distance between parts of external walls and any openings within them in different fire compartments separated by a fire wall must not be less than that set out in Table C4D4, unless—</p> <p>(a) those parts of each wall have an FRL not less than 60/60/60; and</p> <p>(b) any openings protected in accordance with C4D5</p> <p>Distances in the table include: 6m for opposite walls, 4m for walls at 90 degrees, Nil for walls at 180 degrees.</p>   | <b>No openings are exposed to each other.</b>  |
| C4D5       | Acceptable methods of protection  | Performance<br>Solution<br>Proposed | <p>Where protection is required, doorways, windows and other openings must be protected as follows:</p> <p>Doorways—</p> <p>(i) internal or external wall-wetting sprinklers as appropriate used with doors that are self-closing or automatic closing; or</p> <p>(ii) –/60/30 fire doors that are self-closing or automatic closing.</p> <p>Windows—</p> <p>(i) internal or external wall-wetting sprinklers as appropriate used with windows that are automatic closing or permanently fixed in the closed position; or</p> <p>(ii) –/60/– fire windows that are automatic closing or permanently fixed in the closed position; or</p> <p>(iii) –/60/– automatic closing fire shutters</p> <p>Fire doors, fire windows and fire shutters must comply with Specification 12</p> | <b>Refer to D2D12 for discharge of fire stairs. Protection of ground floor entrance glazing is required.</b> |
| C4D9       | Openings in fire-isolated exits   | Compliance<br>Readily<br>Achievable | Doorways in fire-isolated exits must be protected by --/60/30 fire doors which are self-closing or automatic closing (detection activation).   | -  |

| BCA Clause | Compliance Provisions  | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|------------|--|-------------------------------|--|---|
| C4D10      | Service penetrations in fire-isolated exits                      | Compliance Readily Achievable | Fire-isolated exits must not be penetrated by any services other than –<br>electrical wiring permitted by D3D8(6) to be installed within the exit; or<br>(a) ducting associated with a pressurisation system if it –<br>(b) is constructed of material having an FRL of not less than --/120/60 where it passes through any other part (i) of the building; and<br>does not open into any other part of the building; or<br>(ii) for fire services, water supply and test drain pipes. | <b>A schedule of penetration locations and protection methods must be provided for review by the PCA with the Construction Certificate Application.</b>   |
| C4D11      | Openings in fire-isolated lift shafts                            | Compliance Readily Achievable | Doors to lifts must be protected by --/60/-- fire doors which comply with AS 1735.11 and are set to remain closed except when discharging/receiving passengers. Life indicator panels must be backed by construction having an FRL of not less than --/60/-- if it exceeds 35,000mm <sup>2</sup> , i.e. 175mm x 200mm.   | <b>Lifts shaft doors shall be fire rated in accordance with this clause. This shall accompany the application for a Construction Certificate.</b>   |
| C4D12      | Bounding construction: Class 2 and 3 buildings and Class 4 parts | Further Details Required      | The building contains Class 2, 3 or 4 classifications  | <b>All lobbies/ hallways and doors are proposed to be fire separated. A finalised set of compartmentation plans are required in addition to a doors schedule. This shall be provided for review by the PCA with the Construction Certificate Application.</b> |
| C4D13      | Openings in floors and ceilings for services                     | Further Details Required      | Service riser shafts must be constructed in accordance with Spec 5.  | <b>A finalised set of compartmentation plans are required in addition to a doors schedule.</b>  |
| C4D14      | Openings in shafts   | Further Details Required      | Openings in shafts are required to be protected by a self-closing --/60/30 fire door or hooper or an access panel having an FRL of --/60/30.   | <b>A finalised set of compartmentation plans are required in addition to a doors schedule. A schedule of fire</b>   |

| BCA Clause    | Compliance Provisions   | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|---------------|---|-------------------------------|---|--|
|               |   |                               |   | doors/ hoppers. This shall be provided for review by the PCA with the Construction Certificate Application.  |
| C4D15         | Openings for service installations                                | Further Details Required      | Any new proposed penetrations must comply with provisions of C4D15 and Spec. 13<br>At OC stage a detailed schedule of every penetration is required to be produced. Advise engaging specialist fire stopping company. | Detailed schedule of every penetration is required to be produced for OC.<br>Advise engaging specialist fire stopping company.                                       |
| C4D16         | Construction joints   | Compliance Readily Achievable | Any proposed joint construction is to comply with the provisions of C4D16 and in accordance to AS 1530.4  | Test report verifying materials used in construction joints is required. This shall be provided for review by the PCA with the Construction Certificate Application. |
| C4D17         | Columns protected with lightweight construction to achieve an FRL | Compliance Readily Achievable | Any lightweight construction must be with a method and materials identical with a tested prototype which has achieved the required FRL.<br>Details to be submitting demonstrating compliance prior to CC.             | None proposed at this stage  |
| Specification |   |                               |   |  |



| BCA Clause       | Compliance Provisions                              | Status                        | MBC Assessment Report Commentary | MBC Notes for Inspection   |
|------------------|--|-------------------------------|----------------------------------|--|
| Specification 5  | Fire-Resisting Construction                        | Further Details Required      | Refer to specification - 5       | <ul style="list-style-type: none"> <li>• Structural engineers supporting documentation to confirm the proposed FRL, specification and additional requirements.</li> <li>• Manufactures supporting documentation and test reports to confirm the proposed FRL's thermal and acoustic properties. This shall be provided for review by the PCA with the Construction Certificate Application.</li> </ul> |
| Specification 6  | Structural Tests for Lightweight Construction      | Compliance Readily Achievable | Refer to specification           |  |
| Specification 7  | Fire Hazard Properties                             | Compliance Readily Achievable | Refer to specification           |  |
| Specification 12 | Fire Doors, Smoke Doors, Fire Windows and Shutters | Compliance Readily Achievable | Refer to specification           | Pyropanel timber-faced side-hung Fire doors have been approved to AS1530.4:2014. Please provide testing reports that align with the AS1905.1-2015 tested system. This shall be provided for review by the PCA with the Construction Certificate Application.   |

| BCA Clause                     | Compliance Provisions                                 | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection                                       |
|--------------------------------|---|-------------------------------|---|--|
| Specification 13               | Penetration of Walls, Floors and Ceilings by Services | Compliance Readily Achievable | Refer to specification  | A schedule of penetrations and protection methods is required. |
| Section D - Access and Egress  |   |                               |   |  |
| Part D2 - Provision for Escape |   |                               |   |  |
| D2D1                           | Deemed-to-Satisfy Provisions                          | Noted                         | Noted   |  |
| D2D2                           | Application of Part                                   | Noted                         | The Deemed-to-Satisfy Provisions of this Part do not apply to the internal parts of a sole-occupancy unit in a Class 2 or 3 building or a Class 4 part of a building. |  |

| BCA Clause | Compliance Provisions    | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection |
|------------|--------------------------|-------------------------------|---|--------------------------|
| D2D3       | Number of exits required | Compliance Readily Achievable | <p>All buildings – Every building must have at least one exit from each storey.</p> <p>Class 2 to 8 buildings – In addition to any horizontal exit, not less than 2 exits must be provided from the following:</p> <p>(a) In addition to any horizontal exit, not less than 2 exits must be provided from the following:</p> <p>(i) Each storey if the building has an effective height of more than 25 m.</p> <p>(ii) A Class 2 or 3 building subject to C2D6.</p> <p>Basements – In addition to any horizontal exit, not less than 2 exits must be provided from any storey if egress from that storey involves a vertical rise within the building of more than 1.5 m, unless–</p> <p>(a) the floor area of the storey is not more than 50 m<sup>2</sup>; and</p> <p>(b) the distance of travel from any point on the floor to a single exit is not more than 20 m.</p> <p>(4) Class 9 buildings – In addition to any horizontal exit, not less than 2 exits must be provided from the following:</p> <p>(i) Each storey if the building has a rise in storeys of more than 6 or an effective height of more than 25 m.</p> <p>(ii) Any storey which includes a patient care area in a Class 9a health-care building.</p> <p>(iii) Any storey that contains sleeping areas in a Class 9c building.</p> <p>(iv) Each storey, or each part of a storey, used as in a Class 9b building used as an early childhood centre.</p> <p>(v) Each storey in a primary or secondary school with a rise in storeys of 2 or more.</p> |                          |

| BCA Clause | Compliance Provisions | Status | MBC Assessment Report Commentary  | MBC Notes for Inspection |
|------------|-----------------------|--------|---|--------------------------|
|            |                       |        | <p>(vi) Any storey or mezzanine that accommodates more than 50 persons, calculated under D2D18.</p> <p>(b) The requirements of (a) do not apply to a part of a storey that—</p> <p>(i) is a plant room, machinery room, storeroom, lift-machine room or the like; and</p> <p>(ii) is provided with direct egress to a road or open space; and satisfies D2D5 by the provision of 1 exit.</p> <p>Additional exits are required for Class 9b and Class 9c buildings, at least one exit from every part of a storey which has been divided into fire compartments in accordance with C3D3 or C3D6</p> <p>(6) Exits in open spectator stands – In an open spectator stand containing more than one tier of seating, every tier must have not less than 2 stairways or ramps, each forming part of the path of travel to not less than 2 exits.</p> <p>(7) Access to exits – Without passing through another sole-occupancy unit every occupant of a storey or part of a storey must have access to— an exit; or at least 2 exits if 2 or more exits are required.</p> |                          |

| BCA Clause | Compliance Provisions                               | Status                      | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
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| D2D4       | When fire-isolated stairways and ramps are required | Compliance Appears Achieved | <p>Class 2 or 3<br/>All stairways serving as a required exit must be fire-isolated unless it passes through or by not more than<br/>(i) 3 consecutive storeys in a Class 2 building; or<br/>(ii) 2 consecutive storeys in a Class 3 building, and one extra storey of any classification may be included if: the building has a sprinkler system (other than a FPAA101D system) complying with Specification E1.5 installed throughout; or (ADD in based on design)</p> <p>Class 5, 6, 7, 8 or 9 buildings – Every stairway or ramp serving as a required exit must be fire-isolated</p> | <b>Fire Stairs are proposed in accordance with this clause. Basement external stairway complies with this clause and is not required to be fire-isolated</b> |

| BCA Clause | Compliance Provisions                 | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection |
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| D2D5       | Exit travel distances                 | Compliance Appears Achieved   | <p>Travel distance shall be as follows:</p> <p><b>Class 5, 6, 7, 8 or 9 portions except 9a buildings:</b></p> <ul style="list-style-type: none"> <li>- 20m to a point of choice</li> <li>- 40m total distance to an exit</li> <li>-30m to a single exit serving a storey at the level of egress to the road or open space for class 5 and 6 portions</li> </ul> <p><b>Class 2 or 3 portions:</b></p> <p>The doorway of an SOU (including class 4) must be 6m from a point of choice of 2 available exits. For Class 2 or 3 portions</p> <p>20m a single exit serving the level of egress to a road or open space.</p> <p>No point on the floor of a room not within an SOU must be more than 20m from an exit or a point in which two exits are available in different directions.</p> | Compliance is achieved.  |
| D2D6       | Distance between alternative exits    | Compliance Appears Achieved   | <p>Exits must not be less than 9m apart; and note more than:</p> <p>Class 2 or 3 - 45m apart</p> <p>Class 5, 6, 7, 8 or 9 - 60m apart; and</p> <p>Located so that alternative paths of travel do not converge such that they become less than 6 m apart.</p>   | Compliance is achieved.  |
| D2D7       | Height of doorways in exits and paths | Compliance Readily Achievable | In a required exit or path of travel to an exit the unobstructed height throughout must be not less than 2   |                          |

| BCA Clause      | Compliance Provisions   | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection |
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|                 | of travel to exits  |                               | m, except the unobstructed height of any doorway may be reduced to not less than 1980 mm.  |                          |
| D2D8 & NSW D2D9 | Width of exits and paths of travel to exits                         | Compliance Appears Achieved   | The unobstructed width of each required exit or path of travel to an exit, except for ladders provided in accordance with D2D21, D3D23 or I3D5, and doorways, must be not less than 1m | Compliance is achieved.  |
| D2D9            | Width doorways in exits or path of travel to exits                  | Compliance Readily Achievable | Doorways are proposed to comply with this clause.  | Compliance is achieved.  |
| D2D10           | Exit width not to diminish in direction of travel                   | Compliance Readily Achievable | Exits width is not to diminish in the direction of travel  | Compliance is achieved.  |
| D2D11           | Determination and measurement of exits and paths of travel to exits | Noted                         |  |                          |



| BCA Clause | Compliance Provisions          | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
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| D2D12      | Travel via fire-isolated exits | Performance Solution Proposed | <p>A doorway from a room must not open directly into a stairway, passageway or ramp that is required to be fire-isolated unless it is from—</p> <p>(i) a public corridor, public lobby or the like; or<br/> (ii) a sole-occupancy unit occupying all of a storey; or<br/> (iii) a sanitary compartment, airlock or the like.</p> <p>Each fire-isolated stairway or fire-isolated ramp must provide independent egress from each storey served and discharge directly or by way of its own fire-isolated passageway:</p> <p>i) to a road or open space; or<br/> ii) to a point—<br/> (A) in a storey or space, within the confines of the building, that is used only for pedestrian movement, car parking or the like and is open for at least 2/3 of its perimeter; and<br/> (B) from which an unimpeded path of travel, not further than 20 m, is available to a road or open space; or<br/> iii) into a covered area that—<br/> (A) adjoins a road or open space; and<br/> (B) is open for at least 1/3 of its perimeter; and<br/> (C) has an unobstructed clear height throughout, including the perimeter openings, of not less than 3 m; and<br/> (D) provides an unimpeded path of travel from the point</p> | <p><b>The path of travel from the proposed fire isolated stair at level 3 discharges within 6m from the lift lobby entrance. Entrance door and surrounding areas to achieve a FRL of 60/60/60 for DtS, provide a performance solution to negate the FRL requirement.</b></p> <p><b>A doorway from a room must not open directly into a stairway, passageway or ramp that is required to be fire-isolated.</b></p> <p><b>Fire sprinkler &amp; pump room to be provided with an air lock or smoke lobby in lieu of direct entrance into a fire isolated stair.</b></p> |

| BCA Clause | Compliance Provisions                          | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection                                      |
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|            |  |                               | <p>of discharge to the road or open space of not more</p> <p>Where a path of travel from a fire-isolated exit necessitates passing within 6 m of any part of an external wall of the same building, measured, that part of the wall must have—</p> <p>(i) an FRL of not less than 60/60/60; and</p> <p>(ii) any openings protected internally in accordance with C3.4, for a distance of 3 m above, the level of the path of travel.</p>   |   |
| D2D14      | Travel by non-fire-isolated stairways or ramps | Compliance Readily Achievable | A non-fire isolated stairways serving as a required exit must provide a continuous means of travel by its own flights and landings from every storey served to the level at which egress to a road or open space is provided.  | <b>The basement external stair complies with this clause.</b> |
| D2D15      | Discharge from exits                           | Compliance Readily Achievable | <p>An exit must not be blocked at the point of discharge and where necessary, suitable barriers must be provided to prevent vehicles from blocking the exit, or access to it. If the required exit leads to open space, the required width of the path of travel to the road must be maintained (the minimum width of the required exit or 1m whichever is the greater)</p> <p>If the exit discharges at a different level to the road a compliant ramp must be provided. Class 9a building requires a compliant stair.</p> <p>Discharge points must be as far apart as practical.</p> | <b>Compliance achieved.</b>                                   |

| BCA Clause | Compliance Provisions          | Status | MBC Assessment Report Commentary  | MBC Notes for Inspection      |
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| D2D18      | Number of persons accommodated | Noted  | <p>For the purposes of the Deemed-to-Satisfy Provisions, the number of persons accommodated in a storey, room or mezzanine must be determined with consideration to the purpose for which it is used and the layout of the floor area by—</p> <p>(a) calculating the sum of the numbers obtained by dividing the floor area of each part of the storey by the number of square meters per person listed in Table D2D18 according to the use of that part, excluding spaces set aside for—</p> <p>(i) lifts, stairways, ramps and escalators, corridors, hallways, lobbies and the like; and</p> <p>(ii) service ducts and the like, sanitary compartments or other ancillary uses; or</p> <p>(b) reference to the seating capacity in an assembly building or room; or</p> <p>(c) any other suitable means of assessing its capacity.</p> <p>Table D2D18 Area per person according to use</p> | Refer to BCA Report Appendix. |
| D2D19      | Measurement of distances       | Noted  | <p>The nearest part of an exit means in the case of—</p> <p>(a) a fire-isolated stairway, fire-isolated passageway, or fire-isolated ramp, the nearest part of the doorway providing access to them; and</p> <p>(b) a non-fire-isolated stairway, the nearest part of the nearest riser; and</p> <p>(c) a non-fire-isolated ramp, the nearest part of the junction of the floor of the ramp and the floor of the storey; and</p> <p>(d) a doorway opening to a road or open space, the</p>  |                               |

| BCA Clause | Compliance Provisions | Status | MBC Assessment Report Commentary   | MBC Notes for Inspection |
|------------|-----------------------|--------|--|--------------------------|
|            |                       |        | nearest part of the doorway; and<br>(e) a horizontal exit, the nearest part of the doorway.  |                          |
| D2D20      | Method of measurement | Noted  | <p>The following rules apply:</p> <p>In the case of a room that is not a sole-occupancy unit in a Class 2 or 3 building or Class 4 part of a building,</p> <p>(a) the distance includes the straight-line measurement from any point on the floor of the room to the nearest part of a doorway leading from it, together with the distance from that part of the doorway to the single required exit or point from which travel in different directions to 2 required exits is available.</p> <p>(b) Subject to (d), the distance from the doorway of a sole-occupancy unit in a Class 2 or 3 building or a Class 4 part of a building is measured in a straight line to the nearest part of the required single exit or point from which travel in different directions to 2 required exits is available.</p> <p>(c) Subject to (d), the distance between exits is measured in a straight line between the nearest parts of those exits.</p> <p>(d) Only the shortest distance is taken along a corridor, hallway, external balcony or other path of travel that curves</p> <p>(e) If more than one corridor, hallway, or other internal path of travel connects required exits, for the purposes of D2D6(c) the measurement is along the path of travel through the point at which travel in different directions to those exits is available, as determined in accordance with D2D5.</p> <p>(f) If a wall (including a demountable internal wall) that does not bound a room, corridor, hallway or the like</p> |                          |

| BCA Clause                             | Compliance Provisions             | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection             |
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|  |                                   |                               | <p>causes a change of direction in proceeding to a required exit, the distance is measured along the path of travel past that wall</p> <p>(g) If permanent fixed seating is provided, the distance is measured along the path of travel between the rows of seats.</p> <p>(h) In the case of a non-fire-isolated stairway or non-fire-isolated ramp, the distance is measured along a line connecting the nosings of the treads, or along the slope of the ramp, together with the distance connecting those lines across any intermediate landings.</p> |                                      |
| <b>Part D3 - Construction of Exits</b> |                                   |                               |  |                                      |
| D3D3                                   | Fire-isolated stairways and ramps | Compliance Readily Achievable | <p>Fire-isolated stairs must be:</p> <p>(a) of <i>non-combustible</i> materials; and</p> <p>(b) so that if there is local failure it will not cause structural damage to, or impair the fire-resistance of, the shaft.</p>   | <b>Compliance readily achievable</b> |

| BCA Clause | Compliance Provisions                      | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
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| D3D4       | Non-fire-isolated stairways and ramps      | Compliance Readily Achievable | <p>In a building having a rise in storeys of more than 2, required stairs and ramps (including landings and any supporting building elements) which are not required to be within a fire-resisting shaft, must be constructed according to D3D3, or only of—</p> <p>(c) reinforced or prestressed concrete; or</p> <p>(d) steel in no part less than 6 mm thick; or</p> <p>(e) (c) timber that—</p> <p>(i) has a finished thickness of not less than 44 mm; and has an average density of not less than 800 kg/m<sup>3</sup></p> <p>(ii) at a moisture content of 12%; and</p> <p>(iii) has not been joined by means of glue unless it has been laminated and glued with resorcinol formaldehyde or resorcinol phenol formaldehyde glue.</p> | Compliance readily achievable  |
| D3D8       | Installations in exits and paths of travel | Compliance Readily Achievable | <p>Services or equipment comprising—</p> <p>(i) electricity meters, distribution boards or ducts; or</p> <p>(ii) central telecommunications distribution boards or equipment; or</p> <p>(iii) electrical motors or other motors serving equipment in the building, may be installed in—</p> <p>(iv) a required exit, except for fire-isolated exits specified in (a); or</p> <p>(v) in any corridor, hallway, lobby or the like leading to a required exit, if the services or equipment are enclosed by non-combustible construction or a fire protective covering</p>  | EDB and Comms rooms to include non-combustible doors and smoke seals as per D3D8 of the BCA. Details to be provided for review by the PCA with the Construction Certificate Application. |

| BCA Clause | Compliance Provisions                 | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection |
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|            |                                       |                               | with doorways or openings suitably sealed against smoke spreading from the enclosure.  |                          |
| D3D10      | Width of required stairways and ramps | Noted                         | A required stairway or ramp that exceeds 2 m in width is counted as having a width of only 2 m unless it is divided by a handrail or barrier continuous between landings and each division has a width of not more than 2 m. |                          |
| D3D14      | Goings and risers                     | Compliance Readily Achievable | <p>Risers and goings must comply with D3D14 and have slip resistance as per table D3D15.</p> <p>Detailed drawings will be required as the design develops.</p> <p>Architect to cover in Design Compliance Statement.</p>     |                          |

| BCA Clause | Compliance Provisions     | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection      |
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| D3D15      | Landings                  | Compliance<br>Readily<br>Achievable | <p>In a stairway—</p> <p>(a) landings having a maximum gradient of 1:50 may be used in any building to limit the number of risers in each flight and each landing must—</p> <p>(i) be not less than 750 mm long, and where this involves a change in direction, the length is measured 500 mm from the inside edge of the landing; and</p> <p>(ii) have—</p> <ul style="list-style-type: none"> <li>- a surface with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586; or</li> <li>- a strip at the edge of the landing with a slip-resistance classification not less than that listed in Table D3D15 when tested in accordance with AS 4586, where the edge leads to a flight below</li> </ul> <p>Landings have been reviewed and appear compliant. Detailed drawings will be required as the design develops.</p> | Compliance readily achievable |
| D3D17      | Barriers to prevent falls | Compliance<br>Readily<br>Achievable | <p>A Barrier to prevent falls is required where the surface below is greater than 1m.</p> <p>Balustrade design is required to be in accordance with D3D18, D3D19, D3D20.</p> <p>Detailed drawings of the balustrades will be required as the design develops.</p>  | -                             |



| BCA Clause        | Compliance Provisions | Status                              | MBC Assessment Report Commentary  | MBC Notes for Inspection |                   |     |                             |  |                   |  |     |     |     |     |     |     |        |     |     |     |     |     |     |  |
|-------------------|-----------------------|-------------------------------------|---|--------------------------|-------------------|-----|-----------------------------|--|-------------------|--|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----|--|
| D3D18             | Height of Barriers    | Compliance<br>Readily<br>Achievable | <p>The height of a barrier required by D3D17 must be not less than the following:</p> <p>Table D3D14: Riser and going dimensions</p> <table><tr><th rowspan="2">Stairway location</th><th colspan="2">Riser (R)</th><th colspan="2">Going (G)<sup>Note 3</sup></th><th colspan="2">Quantity (2R + G)</th></tr><tr><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th></tr><tr><td>Public</td><td>190</td><td>115</td><td>355</td><td>250</td><td>700</td><td>550</td></tr></table> <p>(a) For stairways or ramps with a gradient of 1:20 or steeper – 865 mm.</p> <p>(b) For landings to a stair or ramp where the barrier is provided along the inside edge of the landing and does not exceed 500 mm in length – 865 mm</p> <p>(c) In front of fixed seating on a mezzanine or balcony within an auditorium in a Class 9b building, where the horizontal projection extends not less than 1 m outwards from the top of the barrier – 700 mm.</p> <p>(d) For all other locations – 1 m.</p> | Stairway location        | Riser (R)         |     | Going (G) <sup>Note 3</sup> |  | Quantity (2R + G) |  | Max | Min | Max | Min | Max | Min | Public | 190 | 115 | 355 | 250 | 700 | 550 |  |
| Stairway location | Riser (R)             |                                     | Going (G) <sup>Note 3</sup>   |                          | Quantity (2R + G) |     |                             |  |                   |  |     |     |     |     |     |     |        |     |     |     |     |     |     |  |
|                   | Max                   | Min                                 | Max   | Min                      | Max               | Min |                             |  |                   |  |     |     |     |     |     |     |        |     |     |     |     |     |     |  |
| Public            | 190                   | 115                                 | 355   | 250                      | 700               | 550 |                             |  |                   |  |     |     |     |     |     |     |        |     |     |     |     |     |     |  |
| D3D19             | Openings in barriers  | Compliance<br>Readily<br>Achievable | <p>Openings in a required barrier must not allow a 125 mm sphere to pass through.</p> <p>The maximum 125 mm barrier opening for a stairway, such as a non fire-isolated stairway, is measured above the nosing line of the stair treads.</p> <p>Where a barrier is fixed to the face of a landing, balcony, deck or the like, the opening between the barrier and the face must not permit a 40 mm sphere to pass through</p>   | -                        |                   |     |                             |  |                   |  |     |     |     |     |     |     |        |     |     |     |     |     |     |  |

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| D3D20      | Barrier climability   | Compliance Readily Achievable | <p>A barrier required by D3D17, located on a floor more than 4 m above the surface beneath, must not incorporate horizontal or near horizontal elements that could facilitate climbing between 150 mm and 760 mm above the floor.</p> <p>A climbable element is considered a horizontal element or a protrusion of 20mm or more.</p> <p>Further review will be required as the design develops.</p> | -                        |

| BCA Clause | Compliance Provisions | Status                              | MBC Assessment Report Commentary  | MBC Notes for Inspection |
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| D3D22      | Handrails             | Compliance<br>Readily<br>Achievable | <p>Handrails must–</p> <p>(a) be located along at least one side of the ramp or flight; and</p> <p>(b) be located along each side if the total width of the stairway or ramp is 2 m or more; and</p> <p>(c) in a Class 9b building used as a primary school or early childhood centre–</p> <p>- (i) have one handrail fixed at a height of not less than 865 mm; and</p> <p>- (ii) have a second handrail fixed at a height between 665 mm and 750 mm; and</p> <p>(d) in any other case, be fixed at a height of not less than 865 mm; and</p> <p>(e) be continuous between stair flight landings and have no obstruction on or above them that will tend to break a hand-hold; and</p> <p>(f) in a required exit serving an area required to be accessible, be designed and constructed to comply with clause 12 of AS 1428.1, except that clause 12(d) does not apply to a handrail required by (1)(c)(ii).</p> | -                        |

| BCA Clause | Compliance Provisions | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
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| D3D24      | Doorways and doors    | Compliance Readily Achievable | <p>Doors serving as required exits or forming part of required exits must be swinging (in the direction of egress) or power operated.</p> <p>If fitted with a door which is power-operated –</p> <p>(i) it must be able to be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source; and</p> <p>(ii) if it leads directly to a road or open space it must open automatically if there is a power failure to the door or on the activation of a fire or smoke alarm anywhere in the fire compartment served by the door</p>  |  |
| D3D25      | Swinging doors        | Performance Solution Proposed | <p>A swinging door in a required exit or forming part of a required exit must not encroach –</p> <p>(i) at any part of its swing by more than 500 mm on the required width (including any landings) of a required stairway, ramp or passageway if it is likely to impede the path of travel of the people already using the exit; and</p> <p>(ii) (ii) when fully open, by more than 100 mm on the required width of the required exit; and</p> <p>Must swing in the direction of egress unless – it serves a building or part with a floor area not more than 200 m<sup>2</sup> it is the only required exit from the building or part and it is fitted with a device for holding it in the open position.</p> | <p><b>Ground floor - surf Road</b></p> <p><b>Level 3 - Whale Beach Road</b></p> <p><b>The nominated exits door do not swing in the direction of egress</b></p> |

| BCA Clause | Compliance Provisions | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection |
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|            |                       |                               | Exit doors from classrooms leading to the balcony are to be nominated on the plans for review.  |                          |
| D3D26      | Operation of latch    | Compliance Readily Achievable | <p>A door in a required exit, forming part of a required exit or in the path of travel to a required exit must be readily openable without a key from the side that faces a person seeking egress, by—</p> <p>(a) a single hand downward action on a single device which is located between 900 mm and 1.1 m from the floor and if serving an area required to be accessible by Part D4—</p> <ul style="list-style-type: none"> <li>- be such that the hand of a person who cannot grip will not slip from the handle during the operation of the latch; and</li> <li>- have a clearance between the handle and the back plate or door face at the centre grip section of the handle of not less than 35 mm and not more than 45 mm; or</li> </ul> <p>(b) a single hand pushing action on a single device which is located between 900 mm and 1.2 m from the floor.</p> | -                        |

| BCA Clause | Compliance Provisions          | Status                              | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
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| D3D28      | Signs on doors                 | Compliance<br>Readily<br>Achievable | <p>Signage to be provided on exit and fire door;<br/>for a self-closing door—</p> <p>“FIRE SAFETY DOOR<br/>DO NOT OBSTRUCT<br/>DO NOT KEEP OPEN”;</p> <p>or, for a door discharging from fire-isolated exit</p> <p>“FIRE SAFETY DOOR—DO NOT OBSTRUCT”</p>   | <b>Detailed signage schedule required confirming the proposed door, location, side of door. Details to be provided for review by the PCA with the Construction Certificate Application.</b> |
| D3D29      | Protection of openable windows | Compliance<br>Readily<br>Achievable | <p>A window opening must be provided with protection if the floor below the window is 2 m or more above the surface beneath in—</p> <p>(i) a bedroom in a Class 2 or 3 building or Class 4 part of a building; or</p> <p>(ii) a Class 9b early childhood centre.</p> <p>Where the lowest level of the window opening is less than 1.7 m above the floor, a window opening covered by (1) must comply with the following:</p> <p>(a) The openable portion of the window must be protected with—</p> <p>(i) a device capable of restricting the window opening; or</p> <p>(ii) a screen with secure fittings.</p> <p>(b) a device or screen required by (a) must—</p> |   |

| BCA Clause   | Compliance Provisions | Status | MBC Assessment Report Commentary  | MBC Notes for Inspection                               |
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|  |                       |        | <p>(i) not permit a 125 mm sphere to pass through the window opening or screen; and</p> <p>(ii) resist an outward horizontal action of 250 N against the—</p> <p>(aa) window restrained by a device; or</p> <p>(bb) screen protecting the opening; and</p> <p>(iii) have a child resistant release mechanism if the screen or device is able to be removed, unlocked or overridden.</p> <p>A barrier with a height not less than 865 mm above the floor is required to an openable window—</p> <p>(i) in addition to window protection, when a child resistant release mechanism is required; and</p> <p>(ii) where the floor below the window is 4 m or more above the surface beneath if the window is not protected.</p> <p>This is applicable to all class buildings.</p> |  |
| <b>Part D4 - Access for People with a Disability</b> |                       |        |   |  |
| D4D5   | Exemptions            | Noted  | <p>The following areas are not required to be accessible:</p> <p>(a) An area where access would be inappropriate because of the particular purpose for which the area is used.</p> <p>(b) An area that would pose a health or safety risk for people with a disability.</p> <p>(c) Any path of travel providing access only to an area exempted by (a) or (b).</p>  | <b>Access Consultant to review and provide advice.</b> |
| <b>Section E - Services and Equipment</b>            |                       |        |   |  |
| <b>Part E1 - Fire Fighting Equipment</b>             |                       |        |   |  |

| BCA Clause | Compliance Provisions | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|-----------------------|-------------------------------|---|---|
| E1D2       | Fire hydrants         | Performance Solution Proposed | <p>A fire hydrant system must be provided to serve a building with a total floor area of more than 500m<sup>2</sup>.</p> <p>The hydrant system shall comply with the provisions of E1D2 and AS2419.1-2021</p> <p>Booster assemblies are to be located in accordance with the provisions of Clause 7.3.1 of AS2419.1-2021</p> <p>Further details of the proposed hydrant system is to be provided demonstrating compliance with this clause and any applicable Fire Engineering requirements</p> | <p><b>1 - Provide details and location of the pump room or enclosure</b></p> <p><b>2 - <u>Non-Provision of Large Bore Sprinkler Suction Booster</u></b><br/> <b><u>OR Non-Compliant Vertical Lift for Large Bore Sprinkler Suction Booster</u></b></p> <ul style="list-style-type: none"> <li>• <b>Option 1 – Deleting large bore suction booster for the sprinkler system (based on on-site water storage capable of providing 120% flow of water for the sprinkler system and fire hydrant flow being fully serviced by the town's main), instead of providing a large bore suction booster under AS 2118.1-2017.</b></li> <li>• <b>Option 2 – Providing large bore suction booster for the sprinkler system but the maximum vertical lift of the dry pipe for the large bore suction is approx. 4.6 m, instead of 3 m allowed under AS 2419.1-2021 (or 2.8 m allowed in relation to the FRNSW Position Statements).</b></li> </ul> |



| BCA Clause | Compliance Provisions | Status                              | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|------------|-----------------------|-------------------------------------|---|--|
| E1D3       | Fire hose reels       | Compliance<br>Readily<br>Achievable | <p>A fire hose reel system must be provided -</p> <p>(a) to serve the whole building where one or more internal fire hydrants are installed; or</p> <p>(b) where internal fire hydrants are not installed, to serve any fire compartment with a floor area greater than 500m<sup>2</sup></p> <p>Fire hose reels shall comply with E1D3 and AS2441</p> <p>In achieving system coverage, one or a combination of the following criteria for individual internally located fire hose reels must be met in determining the layout of any fire hose reel system:</p> <p>(a) Fire hose reels must be located adjacent to an internal fire hydrant (other than one within a fire-isolated exit), except that a fire hose reel need not be located adjacent to every fire hydrant, provided system coverage can be achieved.</p> <p>(b) fire hose reels must be located within 4m of an exit, except that a fire hose reel need not be located adjacent to every exit, provided system coverage.</p> <p>(c) Where system coverage is not achieved by compliance with (a) and (b), additional fire hose reels may be located in paths of travel to an exit to achieve the required coverage</p> <p>Further details of the proposed fire hose reel system is to be provided demonstrating compliance with this clause and any applicable Fire Engineering requirements.</p> | <p><b>Hydraulic engineer certification to be provided for review by the PCA with the Construction Certificate Application.</b></p> |

| BCA Clause | Compliance Provisions                              | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|------------|--|-------------------------------|---|--|
| NSW E1D4   | Sprinklers   | Performance Solution Proposed | <p>Sprinkler systems must be installed with the following where applicable:</p> <p>(a) E1D5 to E1D12</p> <p>(b) Specification 17 and Specification 18</p> <p>Compliance readily achievable - details of the proposed system are to be provided for further review</p>   | <p><b><u>Non-Provision of Large Bore Sprinkler Suction Booster</u></b></p> <p><b><u>OR Non-Compliant Vertical Lift for Large Bore Sprinkler Suction Booster</u></b></p> <ul style="list-style-type: none"> <li>• Option 1 – Deleting large bore suction booster for the sprinkler system (based on on-site water storage capable of providing 120% flow of water for the sprinkler system and fire hydrant flow being fully serviced by the town's main), instead of providing a large bore suction booster under AS 2118.1-2017.</li> <li>• Option 2 – Providing large bore suction booster for the sprinkler system but the maximum vertical lift of the dry pipe for the large bore suction is approx. 4.6 m, instead of 3 m allowed under AS 2419.1-2021 (or 2.8 m allowed in relation to the FRNSW Position Statements).</li> </ul> |
| E1D5       | Where sprinklers are required: all classifications | Compliance Readily Achievable | <p>Sprinklers are required throughout all buildings if any part of the building has an effective height greater than 25m. Note this applies to open deck carparks contained in a multi classified building</p> <p>Compliance achievable - details of the proposed sprinkler system shall be provided for further review</p> |  |

| BCA Clause | Compliance Provisions   | Status                      | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|---|-----------------------------|---|---|
| E1D6       | Where sprinklers are required: Class 2 and 3 building used as residential care building | Compliance Appears Achieved | <p>Applies to a Class 2 or 3 building and any other class of building containing a Class 2 or 3 part. Note this does not relate to a residential care building</p> <p>Sprinklers are required throughout where any part of the building has -</p> <p>(a) a rise in storeys of 4 or more; and</p> <p>(b) an effective height of not more than 25m</p> <p>Compliance achievable - details of the proposed system are required to be provided for further review</p> | <b>Building has a rise in story of 4. A sprinkler system is required.</b> |

| BCA Clause | Compliance Provisions       | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection                 |
|------------|-----------------------------|-------------------------------|--|--|
| E1D14      | Portable fire extinguishers | Compliance Readily Achievable | <p>Portable Fire Extinguishers shall be provided as follows:</p> <p><b>For Class 2, 3 or Class 4 parts -</b><br/>To serve the building where one or more internal fire hydrants are provided, or to serve any fire compartment with a floor area greater than 500m<sup>2</sup> (this includes a SOU)</p> <p>Portable fire extinguishers must comply with the provisions of this clause, AS2444 and meet the following requirements -</p> <ul style="list-style-type: none"> <li>(a) they shall be a ABE type extinguisher</li> <li>(b) they shall be a minimum 2.5kg extinguisher</li> <li>(c) distributed outside a SOU to serve only the storey at which they are located and so that the travel distance from the entrance doorway of any SOU to the nearest extinguisher is not more than 10m</li> </ul> <p><b>For Class 2 - 9 buildings</b><br/>To serve a class 5 building where one or more internal fire hydrants are provided, or to serve any fire compartment with a floor area greater than 500m<sup>2</sup>.</p> <p>Portable fire extinguishers must be provided in accordance with Clause E1D14 and AS2444 and the associated fire risks prescribed under these standards</p> <p>Compliance achievable - further details of all PFE locations to be provided for review in accordance with this clause, any relevant Fire Engineering Report and EFSG guidelines</p> | Fire Services Design Statement required. |

| BCA Clause                        | Compliance Provisions                | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|-----------------------------------|--------------------------------------|-------------------------------|--|---|
| E1D16                             | Fire precautions during construction | Noted                         | <p>Note</p> <p>Suitable fire extinguishers shall be located adjacent to exits on each storey while the building is under construction.</p> <p>Once the building reaches an effective above 12m fire hydrants, FHRs and the hydrant booster connection shall be commissioned and operational.</p>   |   |
| E1D17                             | Provision for special hazards        | Compliance Readily Achievable | <p>Suitable additional provision must be made if special problems of fighting fire could arise because of -</p> <p>(a) the nature or quantity of materials stored, displayed or used in a building or on the allotment; or</p> <p>(b) the location of the building in relation to a water supply for fire-fighting purposes</p> <p>Due to the special nature of the proposed building it has been determined that provisions for special hazards must be adopted. A registered Certifier - Fire Safety shall provide a report outlining the measures proposed to mitigate the special hazard and satisfy the requirements of Clause E1D17 of the BCA</p> | <b>The building is proposed to have solar panels on the roof. This shall be document in the FEBQ as a hazard for FRNSW comment.</b> |
| Part E2 - Smoke Hazard Management |                                      |                               |  |   |

| BCA Clause | Compliance Provisions  | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|------------|--|-------------------------------|---|--|
| E2D3       | Air handling system other than as part of a smoke hazard management system | Compliance Readily Achievable | <p>An air-handling system which does not form part of a smoke hazard management system in accordance with this Part and which recycles air from one fire compartment to another fire compartment or operates in a manner that may unduly contribute to the spread of smoke from one fire compartment to another fire compartment must, subject to (2), be designed and installed—</p> <p>(a) to operate as a smoke control system in accordance with AS 1668.1; or</p> <p>(b) such that it—</p> <ul style="list-style-type: none"> <li>- incorporates smoke dampers where the air-handling ducts penetrate any elements separating the fire compartments served; and</li> <li>- is arranged such that the air-handling system is shut down and the smoke dampers are activated to close automatically by smoke detectors complying with clause 7.5 of AS 1670.1</li> </ul> <p>Miscellaneous air-handling systems covered by Sections 5 and 6 of AS 1668.1 serving more than one fire compartment (other than a carpark ventilation system) and not forming part of a smoke hazard management system must comply with that Section of the Standard</p> | <b>Noted - Mechanical and fire services engineer to provide design certification.</b>  |
| E2D8       | Buildings not more than 25m in effective                                   | Compliance Readily Achievable | <p>In a Class 2 and 3 building or part of a building, or Class 4 part of a building, if the building is not more than 25 m in effective height—</p> <p>(a) it must be provided with an automatic smoke detection</p>  | <b>Smoke detection and alarm and a sprinkler system is proposed for the building. Fire Service engineer to provide design certification.</b> |

| BCA Clause | Compliance Provisions  | Status | MBC Assessment Report Commentary   | MBC Notes for Inspection |
|------------|--|--------|--|--------------------------|
|            | height: Class 2 and 3 buildings and Class 4 part of the building |        | <p>and alarm system complying with Specification 20; and</p> <p>(b) where a required fire-isolated stairway serving the Class 2 or 3 parts also serves one or more storeys of Class 5, 6, 7 (other than an open-deck carpark), 8 or 9b parts—</p> <p>(i) the fire-isolated stairway, including any associated fire-isolated passageway or fire-isolated ramp, must be provided with an automatic air pressurisation system for fire-isolated exits in accordance with AS 1668.1;</p> <p>or</p> <p>(ii) the Class 5, 6, 7 (other than an open-deck carpark), 8 and 9b parts must be provided with—</p> <p>(A) an automatic smoke detection and alarm system complying with Specification 20; or</p> <p>(B) a sprinkler system (other than a FPAA101D or FPAA101H system) complying with Specification 17;</p> <p>and</p> <p>(c) where a required fire-isolated stairway serving the Class 4 part also serves one or more storeys of Class 5, 6, 7 (other than an open-deck carpark), 8 or 9b parts—</p> <p>(i) a system complying with (b)(i) or (b)(ii) must be installed; or</p> <p>(ii) a smoke alarm or detector system complying with Specification 20 must be provided except that alarms or detectors need only be installed adjacent to each doorway into each fire-isolated stairway (set back horizontally from the doorway by a distance of not more than 1.5 m) to initiate a building occupant warning system for the Class 4 part</p> |                          |

| BCA Clause                          | Compliance Provisions                            | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|-------------------------------------|--|-------------------------------------|--|--|
| E2D12                               | Class 7a buildings                               | Compliance<br>Readily<br>Achievable | A class 7a building including a basement, provided with mechanical ventilation system in accordance with AS1668.2 must comply with clause 5.5 of AS 1668.1-2015.   | <b>Mechanical engineer to provide design certification.</b>                |
| <b>Part E3 - Lift Installations</b> |  |                                     |  |  |
| E3D3                                | Stretcher facility in lifts                      | Compliance<br>Readily<br>Achievable | Buildings with an effective height greater than 12m or where emergency lifts are provided shall accommodate stretcher facilities via a space that is not less than 600mm wide x 2000mm long x 1400mm high above the floor level.   |  |
| E3D4                                | Warning against use of lifts in fire             | Compliance<br>Readily<br>Achievable | Warning signs must be displayed; "DO NOT USE LIFTS IF THERE IS A FIRE". No less than 10mm high that are incised, inlaid or embossed on a metal, wood, plastic or similar plate securely & permanently attached to the wall or provided directly into the surface material of the wall. These shall be near every call button for a passenger lift or group throughout the building. Details demonstrating compliance shall be provided | <b>Lift supplier to provide design certification</b>                       |
| E3D6                                | Landings   | Compliance<br>Readily<br>Achievable | Access and egress to and from lift landings shall comply with Section D of the BCA. Details demonstrating compliance shall be provided   | <b>Lift supplier to provide design certification</b>                       |
| E3D7                                | Passenger lifts                                  | Compliance<br>Readily<br>Achievable | In an accessible building, every passenger lift shall comply with the limitations of Table E3.6a of the BCA, be provided accessible features as required by E3D8 of the BCA and not rely upon a constant pressure device for its operation if the lift car is fully enclosed. Details demonstrating compliance shall be provided   |  |
| E3D8                                | Accessible features required for passenger lifts | Compliance<br>Readily<br>Achievable |  | <b>Access consultant shall provide assessment and design certification</b> |



| BCA Clause  | Compliance Provisions                      | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection                             |
|---|--|-------------------------------|---|--|
| E3D9  | Fire service controls                      | Compliance Readily Achievable | Any lift or group of lifts that serve a storey above 12m effective height, shall be provided a fire service recall control switch complying with Clause E3D11 and a lift car fire service drive control switch complying with Clause E3.10 of the BCA. Details demonstrating compliance shall be provided | Lift supplier to provide design certification        |
| E3D11   | Fire service recall control switch         | Compliance Readily Achievable | Each group of lifts must be provided with one fire service recall control switch that activates the fire service recall operation in accordance with Clause E3D11 of the BCA. Details demonstrating compliance shall be provided  | Lift supplier to provide design certification        |
| E3D12   | Lift car fire service drive control switch | Compliance Readily Achievable | The lift car fire service drive control switch must be activated from within the lift car and comply with the requirements of Clause E3.10 of the BCA. Details demonstrating compliance shall be provided   | Lift supplier to provide design certification        |
| <b>Part E4 - Emergency Lighting, Exit Signs and Warning Systems</b> |  |                               |   |  |
| E4D2  | Emergency lighting requirements            | Compliance Readily Achievable | Emergency Lighting to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.  | Electrical engineer to provide design certification. |
| E4D3  | Measurement of distance                    | Compliance Readily Achievable | Emergency Lighting & Exit Signage to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.   | Electrical engineer to provide design certification. |
| E4D4  | Design and operation of emergency lighting | Compliance Readily Achievable | Design and operation of emergency lighting to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.  | Electrical engineer to provide design certification. |
| E4D5  | Exit signs                                 | Compliance Readily Achievable | Exit Signage to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.  | Electrical engineer to provide design certification. |

| BCA Clause            | Compliance Provisions   | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|-----------------------|---|-------------------------------------|--|--|
| E4D6                  | Direction signs   | Compliance<br>Readily<br>Achievable | Direction Signs to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.  | Electrical engineer to provide design certification.   |
| E4D8                  | Design and operation of exit signs                            | Compliance<br>Readily<br>Achievable | Design and operation of exit signs to be provided to the building in accordance with E4 and AS 2293.1-2018. Design Certification to be provided prior to CC.   | Electrical engineer to provide design certification.   |
| <b>Specifications</b> |   |                                     |  |  |
| Specification 17      | Fire Sprinkler Systems  | Performance<br>Solution<br>Proposed | Sprinklers shall be designed to comply with Spec 17  | Fire sprinkler systems<br>Location of the sprinkler alarm valves being located within the fire services pump room, in lieu of complying with BCA Specification 17. |
| Specification 18      | Class 2 and 3 buildings not more than 25m in effective height | Compliance<br>Readily<br>Achievable | Sprinklers shall be designed to comply with Spec 18  | Sprinklers shall be designed to comply with Spec 18 - Fire service engineer to provide design certification  |
| Specification 20      | Smoke Detection and Alarm Systems                             | Compliance<br>Readily<br>Achievable | The building must be provided with—<br>(d) in each required fire-isolated stairway, an automatic air pressurisation system for fire-isolated exits in accordance with AS/NZS 1668.1; or<br>(e) a zone smoke control system in accordance with AS/NZS 1668.1, if the building has more than one fire compartment; or<br>(f) an automatic smoke detection and alarm system complying with Specification E2.2a; or<br>(g) a sprinkler system complying with Specification E1.5.<br>Detail of the system proposed including certification from | Sprinklers and Smoke detection and alarm are proposed to be adopted.   |

| BCA Clause  | Compliance Provisions            | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
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|   |                                  |                               | the relevant Engineer to be provided including design certification.  |   |
| Specification 23  | Residential Fire Safety System   | Compliance Readily Achievable | Specification 23 to be complied with  | <b>Connection of sprinkler system to fire station is required in accordance with this clause S23C3.</b>   |
| Specification 24  | Lift Installations               | Compliance Readily Achievable | Specification 24 to be complied with  |   |
| <b>Section F - Health and Safety</b>  |                                  |                               |   |   |
| <b>Part F1 - Surface Water Management, rising damp and external waterproofing</b> |                                  |                               |   |   |
| F1D1  | Deemed-to-Satisfy Provisions     | Noted                         | Noted.  |   |
| F1D2  | Application of Part              | Noted                         |   |   |
| F1D3  | Stormwater drainage              | Compliance Readily Achievable | Stormwater drainage shall comply with AS 3500.3-2018. Details of the proposed Stormwater Management System shall be provided. This detail shall be certified by a suitably qualified and Chartered Engineer | <b>Hydraulic Engineer to provide design certification.<br/>Details be provided and reviewed by the PCA with the application for a Construction Certificate.</b>   |
| F1D5  | External Waterproofing membranes | Compliance Readily Achievable | External waterproofing must be designed to comply with AS4654.1 and 2.  | <b>Declared designs are to show water proofing details, hop designs, falls and drainage. Provide supporting manufactures technical details and specifications in accordance with AS4654.1 &amp; 2<br/>This shall be provided with the application for a Construction Certificate.</b> |

| BCA Clause   | Compliance Provisions                 | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|--|---------------------------------------|-------------------------------------|--|---|
| F1D6   | Damp-proofing                         | Compliance<br>Readily<br>Achievable | Moisture from the ground must be prevented from reaching the structure of the building. Where a damp-proof course is provided it must comply with AS 2904-1995 or impervious sheet material in accordance with AS3660.1-2014. Details demonstrating compliance shall be provided | <b>Architectural details to be provided demonstrating compliance with this clause.</b><br><b>This shall be provided with the application for a Construction Certificate.</b>  |
| F1D7   | Damp-proofing of floors on the ground | Compliance<br>Readily<br>Achievable | Floors laid on ground shall be provided a vapour barrier in accordance with AS 2870-2011. Details demonstrating compliance shall be provided   | <b>Architectural details to be provided demonstrating compliance with this clause.</b><br><b>This shall be provided with the application for a Construction Certificate.</b>  |
| <b>Part F2 - Wet areas and overflow protection</b> |                                       |                                     |  |   |
| F2D2   | Wet area construction                 | Compliance<br>Readily<br>Achievable | Wet area construction must be water resistance and waterproofed in accordance with this clause and AS2740.   | <b>Declared designs are to show water resistant and waterproofing details. Provide supporting manufactures technical details and specifications in accordance with Specification 26 and AS3740.</b><br><b>This shall be provided and assessed by the PCA with the application for a Construction Certificate.</b> |
| F2D4   | Floor wastes                          | Compliance<br>Readily<br>Achievable | In a Class 2 or 3 building or Class 4 part of a building, a bathroom or laundry located at any level above another SOU or public space must be provided a floor waste and the floor be graded to the floor waste to permit drainage of water.                                    | <b>Architectural details to be provided demonstrating compliance with this clause.</b><br><b>This shall be provided and assessed by the PCA with the application for a Construction Certificate.</b>  |
| <b>Part F3 - Roof and wall cladding</b>            |                                       |                                     |  |   |

| BCA Clause | Compliance Provisions        | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|------------------------------|-------------------------------|---|---|
| F3D1       | Deemed-to-Satisfy Provisions | Compliance Readily Achievable | The roof must be covered with one of the following materials, concrete roof tiles, terracotta roof tiles, cellulose cement corrugated sheeting, metal sheet roofing, plastic sheet roofing or shingles made of terracotta, fibre cement, timber, or slate. Compliance with fire resisting construction and non-combustible construction of Part C must also be achieved as applicable. Where none of the above materials is proposed, a Performance Solution addressing Performance Requirements FP1.4 will be required | <b>Noted.</b>   |
| F3D2       | Roof coverings               | Compliance Readily Achievable | Roof coverings are to be provided in accordance with this clause  | <b>Architectural details to be provided demonstrating compliance with this clause.<br/>This shall be provided and assessed by the PCA with the application for a Construction Certificate.</b>                      |
| F3D4       | Glazed assemblies            | Compliance Readily Achievable | Glazed assemblies in an external wall shall comply with AS 2047-2014. The following glazed assemblies need not comply revolving doors, fixed louvres, skylights / roof lights, sliding and swinging doors without a frame, heritage windows or second-hand windows, windows constructed onsite which are not design tested. Details demonstrating compliance shall be provided  | <b>Architectural details to be provided demonstrating compliance with this clause.<br/>This shall be provided and assessed by the PCA with the application for a Construction Certificate.</b>                      |
| F3D5       | Wall cladding                | Compliance Readily Achievable | Wall cladding must comply with one or a combination of the following:<br>(a) Masonry, including masonry veneer, un-reinforced and reinforced masonry. AS3700  | <b>Masonry external walls are proposed. This must be designed to comply with AS3700. Architectural details to be provided demonstrating compliance with this clause.<br/>This shall be provided and assessed by</b> |

| BCA Clause                             | Compliance Provisions                   | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection   |
|--|---|-------------------------------|---|--|
|  |   |                               |   | the PCA with the application for a Construction Certificate.                                 |
| <b>Sanitary and Other Facilities</b>   |   |                               |   |  |
| F4D2                                   | Facilities in residential buildings     | Compliance Readily Achievable | Facilities for cooking, washing, cleaning, and laundering shall be provided as required for the classification concerned by Clause F2.2 of the BCA. Details demonstrating compliance shall be provided                    | Sou's are proposed to incorporate the required sanitary facilities.                          |
| F4D4                                   | Facilities in Class 3 to 9 buildings    | Compliance Appears Achieved   | Facilities in accordance with Table F2.3 shall be provided for the classification and use concerned shall be provided.  | Refer to BCA Report Appendix.  |
| F4D5                                   | Accessible sanitary facilities          | Compliance Readily Achievable | Accessible sanitary facilities compliant with AS 1428.1-2009 shall be provided in accordance with Clause F2.4 and Table F2.4 for the classification and use concerned. Details demonstrating compliance shall be provided |  |
| F4D6                                   | Accessible unisex sanitary compartments | Compliance Readily Achievable |   | Refer to Access consultant report  |
| <b>Part F5 Room Heights</b>            |   |                               |   |  |
| F5D2                                   | Height of rooms and other spaces        | Compliance Readily Achievable | Floor to ceiling heights compliant with Clause F5D2 of the BCA shall be achieved throughout the development   | Rooms are proposed to be 2.8m in height throughout.  |
| <b>Part F6 - Light and Ventilation</b> |   |                               |   |  |
| F6D2                                   | Provision of natural light              | Compliance Readily Achievable | Natural light requirements of the BCA are applicable to all habitable room of Class 2, and 4 buildings. Details demonstrating compliance shall be provided  | Natural light is proposed to all habitable rooms. Architect to provide design certification. |

| BCA Clause | Compliance Provisions                            | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------|--|-------------------------------|---|---|
| F6D3       | Methods and extent of natural lighting           | Compliance Readily Achievable | Windows that provide the required natural light shall be not less than 10% of the floor area of the room, roof lights shall be not less than 3% of the floor area.<br>A required window for the purposes of natural light shall be not less than the greater of:- 1m, (3m in a patient care area or other room used for sleeping in a Class 9a building) or 50% of the square root of the exterior height of the wall in which the window is located measured in metres from its sill. Details demonstrating compliance shall be provided | <b>Natural light is proposed to all habitable rooms. Architect to provide design certification. This shall be provided with the application for a Construction Certificate.</b> |
| F6D5       | Artificial lighting                              | Compliance Readily Achievable | Artificial lighting shall be provided to required stairways, passageways, and ramps. Artificial lighting shall comply   | <b>Electrical engineer to provide design certification. This shall be provided with the application for a Construction Certificate.</b>   |
| F6D6       | Ventilation of rooms                             | Compliance Readily Achievable | Natural ventilation or mechanical ventilation to be provided. Mechanical Engineer to confirm compliance with F4.5 and AS 3666.1.<br>If compliance with DtS not achievable a Performance Solution demonstrating compliance with FP4.3 and FP4.4 may be more appropriate.   | <b>Mechanical engineer to provide design certification. This shall be provided with the application for a Construction Certificate.</b>   |
| F6D9       | Restriction on location of sanitary compartments | Compliance Readily Achievable | Sanitary compartments must not open directly into—<br>(a) a kitchen or pantry; or<br>(b) a public dining room or restaurant; or<br>(c) a dormitory in a Class 3 building; or<br>(d) a room used for public assembly (which is not an early childhood centre, primary school or open spectator stand); or<br>(e) a workplace normally occupied by more than one person.  | <b>Compliance appears achieved.</b>   |

| BCA Clause   | Compliance Provisions                              | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|--|--|-------------------------------------|--|--|
| F6D11  | Carparks   | Compliance<br>Readily<br>Achievable | Every storey of a carpark, except an open-deck carpark, must have—<br><br>(a) a system of mechanical ventilation complying with AS 1668.2; or<br>(b) a system of natural ventilation complying with Section 4 of AS 1668.4.  | <b>Mechanical engineer to provide design certification.</b>  |
| F6D12  | Kitchen local exhaust ventilation                  | Compliance<br>Readily<br>Achievable | A commercial kitchen must be provided with a kitchen exhaust hood complying with AS 1668.1 and AS 1668.2 where—<br><br>(a) any cooking apparatus has—<br>(i) a total maximum electrical power input exceeding 8 kW; or<br>(ii) a total gas power input exceeding 29 MJ/h; or<br>(b) the total maximum power input to more than one apparatus exceeds—<br>(i) 0.5 kW electrical power; or<br>(ii) 1.8 MJ/hour gas, per m <sup>2</sup> of floor area of the room or enclosure. | <b>Mechanical engineer to provide design certification.</b>  |
| <b>Part F7 - Sound Transmission and Insulation</b> |  |                                     |  |  |
| F7D2   | Application of Part                                |                                     | The Deemed-to-Satisfy Provisions of this Part apply to Class 2 and 3 buildings and Class 9c buildings.   |  |
| F7D3   | Determination of airborne sound insulation ratings | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant   | <b>A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate.</b> |



| BCA Clause | Compliance Provisions                            | Status                              | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|------------|--|-------------------------------------|--|---|
| F7D4       | Determination of impact sound insulation ratings | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant | A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate. |
| F7D5       | Sound insulation rating of floors                | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant | A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate. |
| F7D6       | Sound insulation rating of walls                 | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant | A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate. |
| F7D7       | Sound insulation rating of internal services     | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant | A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate. |
| F7D8       | Sound isolation of pumps                         | Compliance<br>Readily<br>Achievable | Rely on certification from a registered Architect or Acoustic Consultant | A report from a qualified acoustic engineer will need to be provided to validate compliance with the BCA, this shall be provided and assessed by the PCA with the application for a Construction Certificate. |

| BCA Clause                               | Compliance Provisions                      | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection   |
|--|--|-------------------------------|--|--|
| <b>Part F8 - Condensation Management</b> |  |                               |  |  |
| F8D4                                     | Flow rate and discharge of exhaust systems | Further Details Required      | <p>(a) An exhaust system installed in a kitchen, bathroom, sanitary compartment, or laundry must have a minimum flow rate of-</p> <p>(i) 25 L/s for a bathroom or sanitary compartment; and</p> <p>(ii) 40 L/s for a kitchen or laundry</p> <p>(b) Exhaust from a kitchen must be discharged directly or via a shaft or duct to outdoor air.</p> <p>(c) Exhaust from a bathroom, sanitary compartment, or laundry must be discharged-</p> <p>(i) directly or via a shaft or duct to outdoor air; or</p> <p>(ii) to a roof space that is ventilated in accordance with F6.4</p>   | <p><b>Mechanical engineer to provide design certification.</b></p> <p><b>This shall be provided with the application for a Construction Certificate.</b></p> |
| F8D5                                     | Ventilation of roof spaces                 | Further Details Required      | <p>(a) Where an exhaust system covered by F8D4 discharges directly or via a shaft or duct into a roof space, the roof must be ventilated to outdoor air through evenly distributed openings.</p> <p>(b) Openings required by (a) must have a total unobstructed area of 1/300 of the respective ceiling area if the roof pitch is greater than 22°, or 1/150 of the respective ceiling area if the roof pitch is less than or equal to 22°</p> <p>(c) 30% of the total unobstructed area required by (b) must be located not more than 900mm below the ridge or highest point of the roof space, measured vertically, with the remaining required area provided by eave vents.</p> | <p><b>Mechanical engineer to provide design certification.</b></p> <p><b>This shall be provided with the application for a Construction Certificate.</b></p> |
| <b>Specifications</b>                    |  |                               |  |  |
| Specification 26                         | Waterproofing and water-resistance         | Compliance Readily Achievable | Compliance with specification required.  | <p><b>Architectural details to be provided demonstrating compliance with this clause.</b></p>  |

| BCA Clause                         | Compliance Provisions                           | Status                        | MBC Assessment Report Commentary  | MBC Notes for Inspection  |
|------------------------------------|---|-------------------------------|---|---|
|                                    | requirements for building elements in wet areas |                               |   | This shall be reviewed by the PCA with the application for a Construction Certificate.  |
| Specification 28                   | Sound Insulation for Building Elements          | Compliance Readily Achievable | Compliance with specification required.   | Architectural/ Acoustic details to be provided demonstrating compliance with this clause.<br>This shall be reviewed by the PCA with the application for a Construction Certificate. |
| Specification 29                   | Impact Sound -Test of Equivalence               | Compliance Readily Achievable | Compliance with specification required.   | Architectural/ Acoustic details to be provided demonstrating compliance with this clause.<br>This shall be reviewed by the PCA with the application for a Construction Certificate. |
| Section G - Ancillary Provisions   |   |                               |   |   |
| Part G6 - Occupiable outdoor areas |   |                               |   |   |
| G6D1                               | Application of Part                             | Compliance Readily Achievable | (a) The Deemed-to-Satisfy Provisions of this Part apply to buildings containing an occupiable outdoor area in addition to the other Deemed-to-Satisfy Provisions of the BCA.<br>(b) The Deemed-to-Satisfy Provisions of this Part take precedence where there is a difference to The Deemed-to-Satisfy Provisions of Sections C, D, E, F and G.<br>(c) Except for G6.2, The Deemed-to-Satisfy Provisions of this Part do not apply to-<br>(i) an occupiable outdoor area of a sole-occupancy unit in a Class 2 or 3 building, class 9c building or Class 4 part of a building; or |   |

| BCA Clause | Compliance Provisions  | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|------------|------------------------|-------------------------------|--|---|
|            |                        |                               | (ii) an occupiable outdoor area with an area less than 10m <sup>2</sup> .  |   |
| G6D2       | Fire hazard properties | Compliance Readily Achievable | <p>(a) subject to (b), a lining, material or assembly in an occupiable outdoor area must comply with C2D10 as for an internal element.</p> <p>(b) The following fire hazard properties of a lining, material or assembly in an occupiable outdoor area are not required to comply with C2D10:</p> <p>(i) Average specific extinction area.</p> <p>(ii) Smoke-Developed Index</p> <p>(iii) Smoke development rate</p> <p>(iv) Smoke growth rate index (SMOGR<sub>Arc</sub>)</p> | <p><b>External materials serving the outdoor class 6 portions are to comply with this clause. Provide a schedule of materials, location points and testing data.</b></p> <p><b>This shall be reviewed by the PCA with the application for a Construction Certificate.</b></p> |
| G6D3       | Fire Separation        | Further Details Required      | For the purpose of the Deemed-to-Satisfy Provisions of C3D8, C3D9 and C3D10, a reference to a storey includes an occupiable outdoor area, however a fire wall cannot be used to separate an occupiable outdoor area into different fire compartments.  | <p><b>Provide detail for the proposed use of cupboards in lift lobby.</b></p> <p><b>EDB and Comms rooms to include non-combustible doors and smoke seals as per D3D8 of the BCA</b></p>   |
| G6D4       | Provision of escape    | Compliance Appears Achieved   | For the purpose of the Deemed-to-Satisfy Provisions of Part D1, a reference to a storey or room includes an occupiable outdoor area.   | <b>Compliance achieved.</b>   |
| G6D5       | Construction of exits  | Compliance Appears Achieved   | For the purpose of the Deemed-to-Satisfy of Part D2, a reference to a storey or room includes an occupiable outdoor area   | <b>Compliance achieved.</b>   |
| G6D6       | Firefighting equipment | Compliance Readily Achievable | Except for S17C7(2)(a) for the purposes of the Deemed-to-Satisfy Provisions of Part E1, a reference to a storey includes an occupiable outdoor area.   | <b>Fire Services Design Statement required.</b>   |

| BCA Clause                           | Compliance Provisions                                      | Status                        | MBC Assessment Report Commentary   | MBC Notes for Inspection  |
|--------------------------------------|--|-------------------------------|--|---|
| G6D7                                 | Lift installations   | Compliance Appears Achieved   | For the purpose of Deemed-to-Satisfy Provisions of Part E3, a reference to a storey includes an occupiable outdoor area.                     | <b>Compliance achieved.</b>   |
| G6D8                                 | Visibility in an emergency, exit signs and warning systems | Compliance Readily Achievable | For the purpose of the Deemed-to-Satisfy Provisions of Part E4, a reference to a storey includes an occupiable outdoor area                  | <b>Electrical engineer to provide design certification.</b>                                   |
| G6D9                                 | Light and ventilation                                      | Compliance Readily Achievable | For the purpose of the Deemed-to-Satisfy Provisions of F4.4, F4.8 and F4.9, a reference to a room includes an occupiable outdoor area.       | <b>Noted</b>  |
| <b>Section J - Energy Efficiency</b> |  |                               |  |   |
| J2D1                                 | Deemed-to-Satisfy Provisions                               | Compliance Readily Achievable | Part J Report to be provided by Architect or ESD Consultant. ESD Consultant or Architect to certify CC Plans achieve compliance with Part J. | <b>This shall be reviewed by the PCA with the application for a Construction Certificate.</b> |

## 6 Appendix A – Architectural Plans Reviewed

The following documentation, prepared by Richard Cole Architecture was used in the assessment and preparation of this report: -

| Drawing No. | Title  | Date       | Drawn By | Revision |
|-------------|--|------------|----------|----------|
| CC000       | Construction Certificate                               | 17/07/2024 | -        | QQ       |
| Keynotes    |  |            |          |          |
| CC001       | BASIX Commitments                                      | 17/07/2024 | -        | QQ       |
| CC002       | Site Plan  | 17/07/2024 | -        | QQ       |
| CC003       | Public Domain Plan                                     | 17/07/2024 | -        | QQ       |
| CC004       | Public Domain Plan -Detail                             | 17/07/2024 | -        | QQ       |
| CC005       | Demolition Plan  | 17/07/2024 | -        | QQ       |
| CC006       | Excavation Plan  | 17/07/2024 | -        | QQ       |
| CC007       | Piering Plan   | 17/07/2024 | -        | QQ       |
| CC008       | Basement Floor Plan                                    | 17/07/2024 | -        | SS       |
| CC009       | Ground Floor Plan                                      | 17/07/2024 | -        | SS       |
| CC010       | Level 1 Plan   | 17/07/2024 | -        | SS       |
| CC011       | Level 2 Plan   | 17/07/2024 | -        | SS       |
| CC012       | Level 3 Plan   | 17/07/2024 | -        | SS       |
| CC013       | Level 4 Plan   | 17/07/2024 | -        | SS       |
| CC014       | Roof Plan  | 17/07/2024 | -        | QQ       |
| CC015       | Elevations   | 17/07/2024 | -        | QQ       |
| CC016       | Elevations   | 17/07/2024 | -        | QQ       |
| CC017       | Sections   | 17/07/2024 | -        | SS       |
| CC018       | Sections   | 17/07/2024 | -        | SS       |
| CC019       | Sections   | 17/07/2024 | -        | SS       |
| CC020       | Sections -Retaining wall Elevations                    | 17/07/2024 | -        | QQ       |
| CC021       | Basement RCP   | 17/07/2024 | -        | QQ       |
| CC022       | Ground Floor RCP                                       | 17/07/2024 | -        | QQ       |
| CC023       | Level 1 & Level 2 RCP                                  | 17/07/2024 | -        | QQ       |
| CC024       | Level 3 & Level 4 RCP                                  | 17/07/2024 | -        | QQ       |
| CC025       | Services Diagrams                                      | 17/07/2024 | -        | QQ       |
| CC026       | Concrete Profile/Waterproofing - Basement/Ground Floor | 17/07/2024 | -        | QQ       |
| CC027       | Concrete Profile/Waterproofing - Level 1 & 2           | 17/07/2024 | -        | QQ       |
| CC028       | Concrete Profile/Waterproofing - Level 3               | 17/07/2024 | -        | QQ       |
| CC029       | Concrete Profile/Waterproofing - Level 4 & Roof        | 17/07/2024 | -        | QQ       |
| CC030       | Door & Window Schedule- Basement, Ground & Retail      | 17/07/2024 | -        | QQ       |
| CC031       | Door & Window Schedule -Level 1 & 2                    | 17/07/2024 | -        | QQ       |

| Drawing No. | Title  | Date       | Drawn By | Revision |
|-------------|--|------------|----------|----------|
| CC032       | Door & Window Schedule -Level 3 & 4 (Apartments) | 17/07/2024 | -        | QQ       |
| CC033       | Door & Window Schedule                           | 17/07/2024 | -        | QQ       |
| CC034       | Door & Window Schedule                           | 17/07/2024 | -        | QQ       |
| CC035       | Terrazzo Screen Schedule                         | 17/07/2024 | -        | QQ       |
| CC036       | Balustrade Schedule                              | 17/07/2024 | -        | QQ       |
| CC037       | Balustrade Schedule                              | 17/07/2024 | -        | QQ       |
| CC038       | Wall Plan Schedule                               | 17/07/2024 | -        | RR       |
| CC039       | Signage Schedule                                 | 17/07/2024 | -        | QQ       |
| CC040       | Signage -Statutory Signage                       | 17/07/2024 | -        | QQ       |
| CC041       | Apartment 1 Plan                                 | 17/07/2024 | -        | QQ       |
| CC042       | Apartment 2 Plan lower                           | 17/07/2024 | -        | QQ       |
| CC043       | Apartment 2 Plan upper                           | 17/07/2024 | -        | QQ       |
| CC044       | Apartment 3 Plan                                 | 17/07/2024 | -        | QQ       |
| CC045       | Apartment 4 Plan                                 | 17/07/2024 | -        | QQ       |
| CC046       | Apartment 5 Plan                                 | 17/07/2024 | -        | QQ       |
| CC047       | Ground Floor Retail Plan                         | 17/07/2024 | -        | QQ       |
| CC048       | Level 3 Retail Plan                              | 17/07/2024 | -        | QQ       |
| CC049       | Driveway Details                                 | 17/07/2024 | -        | QQ       |
| CC050       | Apartment 1 RCP                                  | 17/07/2024 | -        | QQ       |
| CC051       | Apartment 2 RCP                                  | 17/07/2024 | -        | QQ       |
| CC052       | Apartment 2 RCP -upper                           | 17/07/2024 | -        | QQ       |
| CC053       | Apartment 3 RCP                                  | 17/07/2024 | -        | QQ       |
| CC054       | Apartment 4 RCP                                  | 17/07/2024 | -        | QQ       |
| CC055       | Apartment 5 RCP                                  | 17/07/2024 | -        | QQ       |
| CC056       | Ground Floor Retail RCP                          | 17/07/2024 | -        | QQ       |
| CC057       | Level 3 Retail RCP                               | 17/07/2024 | -        | QQ       |
| CC058       | Services Set-out                                 | 17/07/2024 | -        | RR       |
| CC059       | Ramp and Platform Lift Details                   | 17/07/2024 | -        | QQ       |
| CC060       | Stair/Lift Details                               | 17/07/2024 | -        | QQ       |
| CC061       | Stair/Lift Details                               | 17/07/2024 | -        | QQ       |
| CC062       | Stair and Substation Details                     | 17/07/2024 | -        | QQ       |
| CC063       | Stair Details                                    | 17/07/2024 | -        | QQ       |
| CC064       | Detail Sections                                  | 17/07/2024 | -        | QQ       |
| CC065       | Detail Sections                                  | 17/07/2024 | -        | QQ       |
| CC066       | Detail Sections                                  | 17/07/2024 | -        | QQ       |
| CC067       | Detail Sections                                  | 17/07/2024 | -        | QQ       |
| CC068       | Details  | 17/07/2024 | -        | QQ       |
| CC069       | Waterproofing Details                            | 17/07/2024 | -        | QQ       |
| CC070       | Wet Areas -Apartment 1                           | 17/07/2024 | -        | QQ       |
| CC071       | Wet Areas -Apartment 1                           | 17/07/2024 | -        | QQ       |
| CC072       | Wet Areas -Apartment 2                           | 17/07/2024 | -        | QQ       |
| CC073       | Wet Areas -Apartment 2                           | 17/07/2024 | -        | QQ       |
| CC074       | Wet Areas -Apartment 2                           | 17/07/2024 | -        | QQ       |
| CC075       | Wet Areas -Apartment 3                           | 17/07/2024 | -        | QQ       |

| Drawing No. | Title                          | Date       | Drawn By | Revision |
|-------------|--------------------------------|------------|----------|----------|
| CC076       | Wet Areas -Apartment 3         | 17/07/2024 | -        | QQ       |
| CC077       | Wet Areas -Apartment 4         | 17/07/2024 | -        | QQ       |
| CC078       | Wet Areas -Apartment 4         | 17/07/2024 | -        | QQ       |
| CC079       | Wet Areas -Apartment 5         | 17/07/2024 | -        | QQ       |
| CC080       | Wet Areas -Apartment 5         | 17/07/2024 | -        | QQ       |
| CC081       | Wet Areas -Apartment 5         | 17/07/2024 | -        | QQ       |
| CC082       | Wet Areas -Ground Floor Retail | 17/07/2024 | -        | QQ       |
| CC083       | Wet Areas -Ground Floor Retail | 17/07/2024 | -        | QQ       |
| CC084       | Wet Areas -Ground Floor Retail | 17/07/2024 | -        | QQ       |
| CC085       | Wet Areas -Level 3             | 17/07/2024 | -        | QQ       |
| CC125       | Fire Compartment Diagrams      | 17/07/2024 | -        | SS       |



## 7 Appendix B - Specification 5 Fire-Resisting Construction

### 7.1 Type A Fire-Resisting Construction

Table S5C11a: Type A construction: FRL of loadbearing parts of external walls

| Distance from a fire-source feature | FRL (in minutes): Structural adequacy/ Integrity / Insulation |                  |             |               |
|-------------------------------------|---|------------------|-------------|---------------|
|                                     | Class 2, 3 or 4 part  | Class 5, 7a or 9 | Class 6     | Class 7b or 8 |
| Less than 1.5 m                     | 90/90/90  | 120/120/120      | 180/180/180 | 240/240/240   |
| 1.5 to less than 3 m                | 90/60/60  | 120/90/90        | 180/180/120 | 240/240/180   |
| 3 m or more                         | 90/60/30  | 120/60/30        | 180/120/90  | 240/180/90    |

Table S5C11b: Type A construction: FRL of non-loadbearing parts of external walls

| Distance from a fire-source feature | FRL (in minutes): Structural adequacy/ Integrity / Insulation |                  |           |               |
|-------------------------------------|---|------------------|-----------|---------------|
|                                     | Class 2, 3 or 4 part  | Class 5, 7a or 9 | Class 6   | Class 7b or 8 |
| Less than 1.5 m                     | -/90/90   | -/120/120        | -/180/180 | -/240/240     |
| 1.5 to less than 3 m                | -/60/60   | -/90/90          | -/180/120 | -/240/180     |
| 3 m or more                         | -/-/-   | -/-/-            | -/-/-     | -/-/-         |

Table S5C11c: Type A construction: FRL of external columns not incorporated in an external wall

| Column type     | FRL (in minutes): Structural adequacy/ Integrity / Insulation |                  |         |               |
|-----------------|---|------------------|---------|---------------|
|                 | Class 2, 3 or 4 part  | Class 5, 7a or 9 | Class 6 | Class 7b or 8 |
| Loadbearing     | 90/-/-  | 120/-/-          | 180/-/- | 240/-/-       |
| Non-loadbearing | -/-/-   | -/-/-            | -/-/-   | -/-/-         |

Table S5C11d: Type A construction: FRL of common walls and fire walls

| Wall type                             | FRL (in minutes): <i>Structural adequacy/ Integrity / Insulation</i> |                  |             |               |
|---------------------------------------|--|------------------|-------------|---------------|
|                                       | Class 2, 3 or 4 part   | Class 5, 7a or 9 | Class 6     | Class 7b or 8 |
| <i>Loadbearing or non-loadbearing</i> | 90/90/90   | 120/120/120      | 180/180/180 | 240/240/240   |

Table S5C11e: Type A construction: FRL of loadbearing internal walls

| Distance from a <i>fire-source feature</i>  | FRL (in minutes): <i>Structural adequacy/ Integrity / Insulation</i> |                  |             |               |
|---|--|------------------|-------------|---------------|
|   | Class 2, 3 or 4 part   | Class 5, 7a or 9 | Class 6     | Class 7b or 8 |
| <i>Fire-resisting lift and stair shafts</i>   | 90/90/90   | 120/120/120      | 180/120/120 | 240/120/120   |
| Bounding <i>public corridors</i> , public lobbies and the like  | 90/90/90   | 120/-/-          | 180/-/-     | 240/-/-       |
| Between or bounding <i>sole-occupancy units</i>   | 90/90/90   | 120/-/-          | 180/-/-     | 240/-/-       |
| Ventilating, pipe, garbage, and like <i>shafts</i> not used for the discharge of hot products of combustion | 90/90/90   | 120/90/90        | 180/120/120 | 240/120/120   |

Table S5C11f: Type A construction: FRL of non-loadbearing internal walls

| Location  | FRL (in minutes): <i>Structural adequacy/ Integrity / Insulation</i> |                  |           |               |
|---|--|------------------|-----------|---------------|
|   | Class 2, 3 or 4 part   | Class 5, 7a or 9 | Class 6   | Class 7b or 8 |
| <i>Fire-resisting lift and stair shafts</i>   | -/90/90  | -/120/120        | -/120/120 | -/120/120     |
| Bounding <i>public corridors</i> , public lobbies and the like  | -/60/60  | -/-/-            | -/-/-     | -/-/-         |
| Between or bounding <i>sole-occupancy units</i>   | -/60/60  | -/-/-            | -/-/-     | -/-/-         |
| Ventilating, pipe, garbage, and like <i>shafts</i> not used for the discharge of hot products of combustion | -/90/90  | -/90/90          | -/120/120 | -/120/120     |

Table S5C11g: Type A construction: FRL of other building elements not covered by Tables S5C11a to S5C11f

| Building element   | FRL (in minutes): <i>Structural adequacy/ Integrity / Insulation</i> |                  |             |               |
|--|--|------------------|-------------|---------------|
|  | Class 2, 3 or 4 part   | Class 5, 7a or 9 | Class 6     | Class 7b or 8 |
| Other <i>loadbearing</i> internal walls, internal beams, trusses and columns | 90/-/-   | 120/-/-          | 180/-/-     | 240/-/-       |
| Floors   | 90/90/90   | 120/120/120      | 180/180/180 | 240/240/240   |
| Roofs  | 90/60/30   | 120/60/30        | 180/60/30   | 240/90/60     |

## 8 Appendix C – Occupancy Calculations

The floor area estimations have been provided by Richard Cole Architects. This does not account for any fixtures or fittings that may occupy floor space. This would only reduce the number of occupants.

| Level        |                |                          |                      |                       |
|--------------|----------------|--------------------------|----------------------|-----------------------|
| Subject Area | Occupancy Use  | D2D18 Density            | Floor Area (approx.) | Population Determined |
| Retail 1     | Food and Drink | 1m <sup>2</sup> / person | 188m <sup>2</sup>    | 188                   |
| Retail 2     | Shop           | 3m <sup>2</sup> / person | 62m <sup>2</sup>     | 21                    |
| Retail 3     | Shop           | 3m <sup>2</sup> / person | 33m <sup>2</sup>     | 11                    |
|              |                |                          |                      |                       |

## 9 Appendix D – Aggregate Egress Width Calculations

The following has been determined from the submitted details from Richard Cole Architects

| Aggregate Egress Widths |            |                       |  |                       |          |
|-------------------------|------------|-----------------------|--|-----------------------|----------|
| Part of Development     | Population | Egress Width Required | Means of Egress                          | Egress Width Provided | Status   |
| Retail 1                | 188        | 2m                    | 1 x Fire stair<br>Perimeter exit doors   | 4m                    | Complies |
| Retail 2                | 21         | 1m                    | Perimeter exit doors                     | 1m                    | Complies |
| Retail 3                | 11         | 1m                    | Perimeter exit doors                     | 1m                    | Complies |
| Carpark                 | 16         | 2m*                   | 1 x fire stairs<br>1 x external stairway | 2m                    | Complies |

\*A basement level must have 2 available exits.

## 10Appendix E – Sanitary Facilities Calculations

The following has been determined based on the F4F2 of the BCA

| Sanitary Facility Calculations  |                 |                |     |          |   |   |          |   |    |            |   |     |
|---------------------------------|-----------------|----------------|-----|----------|---|---|----------|---|----|------------|---|-----|
| Description of building or part | Occupant Number | Population No. |     | Required |   |   | Provided |   |    | Difference |   |     |
|                                 |                 |                |     | WC       | U | B | WC       | U | B  | WC         | U | B   |
| Retail 1 - Staff                | 18              | Male           | 9   | 1        | 0 | 1 |          |   |    |            |   |     |
|                                 |                 | Female         | 9   | 1        |   | 1 |          |   |    |            |   |     |
| Retail 1 - Patrons              | 191             | Male           | 96  | 1        | 2 | 2 |          |   |    |            |   |     |
|                                 |                 | Female         | 96  | 3        |   | 2 |          |   |    |            |   |     |
| Total                           | 209             | Male           | 105 | 2        | 2 | 3 | *3       | 2 | *3 | +1*        | 0 | +1* |
|                                 |                 | Female         | 105 | 3        |   | 2 | *4       |   | *3 | +1*        |   | +1* |
|                                 |                 | Accessible     | 94  | 1        |   | 1 | 1        |   | 1  | 0          |   | 0   |
| Description of building or part | Occupant Number | Population No. |     | Required |   |   | Provided |   |    | Difference |   |     |
|                                 |                 |                |     | WC       | U | B | WC       | U | B  | WC         | U | B   |
| Retail 2 - Staff                | 2               | Male           | 1   | 1        | 0 | 1 | 1        |   | 1  | 0          |   | 0   |
|                                 |                 | Female         | 1   | 1        |   | 1 | 1        |   | 1  | 0          |   | 0   |
| Retail 2 - Patrons              | 19              | Male           | 9   | 0        | 0 | 0 |          |   |    |            |   |     |
|                                 |                 | Female         | 9   | 0        |   | 0 |          |   |    |            |   |     |
| Description of building or part | Occupant Number | Population No. |     | Required |   |   | Provided |   |    | Difference |   |     |
|                                 |                 |                |     | WC       | U | B | WC       | U | B  | WC         | U | B   |
| Retail 3 Staff only             | 9               | Male           | 5   | 1        |   | 1 | 1        |   | 1  | 0          |   | 0   |
|                                 |                 | Female         | 5   | 1        |   | 1 | 1        |   | 1  | 0          |   | 0   |

Key:

\*signifies a unisex accessible sanitary facility was added to this facility

`signifies a pan was counted as a urinal or vice versa

Red numbers signify a deficiency in facilities

**Note:**

Retail 2 & 3 - Patron numbers are anticipated to be <20. Therefore, patron sanitary facilities are not required to be provided.



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