

Development Application **ACCESS REPORT**

Reference Number: 24216

Client: Emag Apartments

Site Address: 465-469 Princess Highway & 5-7
Geeves Avenue, Rockdale, NSW 2216



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Executive Summary and Design Compliance Statement

This Access Compliance Report is to accompany a Development Application (DA) for the development proposed at **465-469 Princess Highway & 5-7 Geeves Avenue, Rockdale, NSW 2216**

The development is within Bayside Council LGA and proposes a **New Building** for Co-Living.

The development proposes the following:

Residential units	157
Accessible SOUs	8
Commercial/ Retail units	2
Accessible parking spaces for residential component	1
Accessible parking spaces for commercial/retail component	1
Total Accessible parking spaces	2

The development has building classification as detailed below:

- Class 3 (residential boarding house, hostel accommodation or similar)
- Class 5 (office building for professional or commercial use)
- Class 6 (shops, sale of goods and services by retail)
- Class 7a (car park)

This report is based on the relevant components of:

- Building Code of Australia (BCA) 2022, Volume 1- Performance requirements of D1P1, D1P2, D1P8, D1P9, E3P4, F4P1 and Parts D4, E3 and F4 (where applicable)
- Disability (Access to Premises-Building) Standards 2010 (henceforth referred to as APS)
- AS1428.1-2009 Part 1: General requirements for access, including any amendments
- AS1428.4.1-2009 Part 4.1: TGSIs (Tactile ground surface indicators), including any amendments
- AS2890.6-2009 Part 6: Off-street parking for people with disabilities.
- AS4299-1995 Adaptable Housing
- AS1735 Lift types included in the BCA including Part 12: Facilities for persons with disabilities

The assessment of the proposed development has been undertaken to the extent necessary to issue DA consent under the Environmental Planning and Assessment Act. The proposal achieves the spatial requirements to provide access for people with a disability and it is assumed that assessment of the detailed requirements such as assessment of internal fit-out, details of stairs, ramps and other features will occur at CC (Construction Certificate) stage.

By compliance with the recommendation in this report, the development complies with the requirements of Access Code of Disability (Access to Premises-Building) Standards 2010, and the Disability Access relevant sections of Building Code of Australia.

The information contained in this statement is true and accurate to the best of our knowledge. Our qualifications and accreditations are listed below.

Assessed by



Jenny Desai

Accredited Access Consultant and LHA Assessor
ACAA Accredited Membership number 572
Qualified- Certificate IV in Access Consulting
LHA Assessor Licence number 20242

Peer reviewed by



Farah Madon

Accredited Access Consultant and LHA Assessor
ACAA Accredited Membership number 281
Qualified- Diploma in Access Consulting
LHA Assessor Licence number 10032

Vista Access Architects Pty. Ltd.

Relevant Dates:

Fee proposal, number FP-240601 dated **9-07-2024**. Fee proposal was accepted by Client on **15-07-2024**

Assessed Drawings:

The following drawings by Axel Richter Architects have been assessed for compliance.

Drawing no	Issue	Date	Details
A100	-	16-08-2024	Site plan
A102	-	16-08-2024	Basement
A103	-	16-08-2024	Ground floor
A104	-	16-08-2024	Level 1
A105	-	16-08-2024	Level 2
A106	-	16-08-2024	Level 3
A107	-	16-08-2024	Level 4
A108	-	16-08-2024	Level 5
A109	-	16-08-2024	Level 6
A110	-	16-08-2024	Level 7-11
A111	-	16-08-2024	Roof plan

Document Issue:

Issue	Date	Details
Draft 1	21-07-2024	Issued for Architect's review
A	18-08-2024	Issued for DA

Limitations and Copyright information:

This report is based on discussions with the project architect and a review of drawings and other relevant documentation provided to us. No site visit was undertaken for the purposes of this report.

This assessment is based on the provided drawings and not based on constructed works; hence the assessment will provide assurance of compliance only if all the recommendations as listed in this report are complied with and constructed in accordance with the requirements of the current BCA, AS1428.1, AS2890.6 and other latest, relevant standards and regulations applicable at the time of construction.

Assessment is based on classification/use of the building. If the class of the building changes to any other building class, this access report will have to be updated accordingly.

Unless stated otherwise, all dimensions mentioned in the report are net (CLEAR) dimensions and are not to be reduced by projecting skirting, kerbs, handrails, lights, fire safety equipment, door handles less than 900mm above FFL (finished floor level) or any other fixtures/fit out elements. When we check drawings, we assume that the dimensions noted are CLEAR dimensions and therefore the Architect / Builder shall allow for construction tolerances.

Only some numerical requirements from relevant AS (Australian Standards) have been noted in the report and for further details and for construction purposes refer to the latest relevant AS.

This report and all its contents including diagrams are a copyright of Vista Access Architects Pty Ltd (VAA) and can only be used for the purposes of this specific project. Copy-pasting diagrams from this report to Architectural plans will constitute copyright infringement.

This report does not assess compliance matters related to WHS, Structural design, Services design, Parts of DDA other than those related to APS or Parts of BCA or Parts of AS other than those directly referenced in this report. VAA gives no warranty or guarantee that this report is correct or complete and will not be liable for any loss arising from the use of this report. We will use our best judgement regarding LHA assessments. However, we are not to be held responsible if another licenced LHA assessor comes to a different conclusion about compliance, certification, or allocation of a particular Quality mark to us as several items in LHA are subject to interpretation.

We have no ability to check for slip resistance of surfaces. All wet areas, parking areas, pavement markings shall have the appropriate slip resistance for the location. We also have no ability to check for wall reinforcements once the walls have already been constructed. The builder shall take full responsibility that the requirements listed in this report are met and the construction and slip resistance shall be as per requirements of AS1428.1/ AS4299 / AS2890.6/ AS3661/ AS4586/ HB197/ HB198 and any other applicable regulation and Australian Standard

Compliance assessment with Access related requirements of BCA and Disability (Access to Premises-Building) Standards 2010 (APS)

Development consists of new building/s and therefore compliance is required to full development

BCA 2022 Part D4 Access for People with a Disability

D4D2 General building Access requirements

SOU refers to a Sole Occupancy Unit

Requirement

Class 3 - residential boarding house, hostel accommodation or similar

Access is required:

- From a required accessible pedestrian entrance to at least 1 floor with SOUs and to the entry of doors of each SOU on that level.
- To and within 1 of each type of room or space in common use.
- Where floor is accessed by an AS1428.1 ramp or lift, access is required to the entry doorway of each SOU on that level and to and within all common use areas on that level.

Accessible SOU requirements:

- Not more than 2 Accessible SOUs to be located adjacent to each other.
- Where more than 2 Accessible SOUs are required, they are to represent a range of available rooms.

Total number of SOUs	Accessible SOUs required
1 to 10 SOUs	1 accessible SOU
11 to 40 SOUs	2 accessible SOUs
41 to 60 SOUs	3 accessible SOUs
61 to 80 SOUs	4 accessible SOUs
81 to 100 SOUs	5 accessible SOUs
101 to 200 SOUs	5 accessible SOUs + 1 per 25 (in excess of 100)
201 to 500 SOUs	9 accessible SOUs + 1 per 30 (in excess of 200)
More than 500 SOUs	19 accessible SOUs + 1 per 50 (in excess of 500)

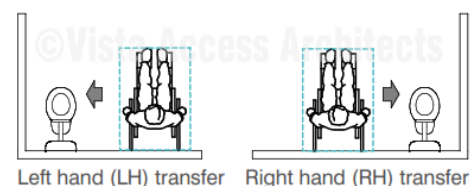
Compliance

Complies

Comments

- The development has a total of 157 SOUs and therefore 8 SOUs are provided, representing the range of available rooms.
- No more than 2 Accessible SOUs are adjacent to each other.
- Accessible SOUs have been provided with LH / RH transfer accessible toilets as shown below to satisfy the requirement of range of available rooms.

SOU numbers	LH transfer toilet	RH transfer toilet
L1-U12, L2-U12, L3-U8, L4-U10	☒ x4	☐
L1-U7, L2-U7, L3-U3, L5-U6	☐	☒ x4
Total provided	4	4



- Access has been provided from the main pedestrian entry doorway to the entry doors of all SOUs on all floor levels by means of accessible pathways and lifts

- Where common use areas are on a floor that is accessible by means of a ramp or lift (Ground floor level, Level 1, Level 2, Level 3 & Level 4 in this case), access has been provided to the same.
- Access has been provided to at least 1 of each common use areas. Where common use areas have a common use kitchen / laundry / BBQ area there to achieve minimum accessibility provide:
 - A minimum clear depth of 1540mm (for minimum length of 2070mm) forward of any common use kitchen / laundry / BBQ benchtop
 - a long lever tap, to any provided sink with part of the lever arm being within 300mm from the front edge of the benchtop
 - a (30x30mm switch size) double GPO fully within 300mm from the front edge of the benchtop.
- Access has been provided to bin chutes on all floor levels
- Where bin chutes are provided the door handle of the bin chute is required to be a minimum of 500mm from any internal corner and located within the range of 900 to 1100mm from FFL.
- When bin chutes or bin storage is within a room, door circulation space is required to the room clear of any bins or encroachments.
- Access is required to common use letterbox area with min 1540x2070mm flat circulation space in front of the letterboxes with letterboxes for adaptable or accessible units being within 600 to 1100mm from FFL.
- All common use accessway widths are to be a minimum of 1M clear measured from skirting to skirting (increases to comply with door circulation spaces where doorways provided) with vertical clearance of at least 2M

Additional advisory note for any common use kitchen/laundry or BBQ areas (where provided)

- It is recommended that kitchen / BBQ areas could be made partially accessible by providing a workspace of 900mm width next to the sink/cooktop/BBQ as vacant space (without cabinetry under the bench top)

Advisory note for Reception tables (where provided)

- It is recommended that a lower section for a width of 900mm could be provided to be able to be used by a person in a wheelchair. Height of the FFL (finished floor level) to the top of the table to be 850+/-20mm and height of clearance beneath the unit from the FFL to be 820+/-20mm

Details to be verified at CC stage of works.

Requirement

Class 5 / 6 - Commercial/ Retail.

- To and within all areas that are normally used by the occupants.

Compliance

Complies

Comments

- Access has been provided to and within all areas required to be accessible.
- Access has been provided to all common use areas. Where common use areas have a common use kitchen / laundry / BBQ area there to achieve minimum accessibility provide:
 - A minimum clear depth of 1540mm (for minimum length of 2070mm) forward of any common use kitchen / laundry / BBQ benchtop
 - a long lever tap, to any provided sink with part of the lever arm being within 300mm from the front edge of the benchtop
 - a (30x30mm switch size) double GPO fully within 300mm from the front edge of the benchtop.
- Access has been provided to common use garbage storage area
- Where bin chutes are provided the door handle of the bin chute is required to be a minimum of 500mm from any internal corner and located within the range of 900 to 1100mm from FFL.
- When bin chutes or bin storage is within a room, door circulation space is required to the room clear of any bins or encroachments.
- All common use accessway widths are to be a minimum of 1M clear measured from skirting to skirting (increases to comply with door circulation spaces where doorways provided) with vertical clearance of at least 2M

Additional advisory note for any common use kitchen/laundry or BBQ areas (where provided)

- It is recommended that kitchen / BBQ areas could be made partially accessible by providing a workspace of 900mm width next to the sink/cooktop/BBQ as vacant space (without cabinetry under the bench top)

Advisory note for Reception tables (where provided)

- It is recommended that a lower section for a width of 900mm could be provided to be able to be used by a person in a wheelchair. Height of the FFL (finished floor level) to the top of the table to be 850 +/-20mm and height of clearance beneath the unit from the FFL to be 820 +/-20mm

Details to be verified at CC stage of works.

Requirement

Class 7a - Covered car park.

- To and within any level containing accessible carparking spaces.

Compliance

Complies

Comments

- Access has been provided to all levels containing Accessible carparking spaces.
- All Accessway widths are to be a minimum of 1M clear (measured from skirting to skirting) with vertical clearance of at least 2M

Details to be verified at CC stage of works.

BCA 2022 Part D4D3 Access to buildings

Requirement**Accessway is required from:**

- Main pedestrian entry at the site boundary for new buildings.
- Any other accessible building connected by a pedestrian link.
- Accessible car parking spaces.

Compliance

Complies

Comments**Residential component: Entry via Geeves Avenue**

- Level Access has been provided from the main pedestrian entry at the site boundary.
- Access has been provided from accessible car parking spaces by means of lifts/ accessible pathways

Commercial / Retail component: Commercial 1 Entry via Geeves Avenue

- Level Access has been provided from the main pedestrian entry at the site boundary.
- Access has been provided from accessible car parking spaces by means of lifts.

Commercial / Retail component: Commercial 2 Entry via Princess Highway

- Level Access has been provided from the main pedestrian entry at the site boundary.
- Access has been provided from accessible car parking spaces by means of lifts.

Details to be verified at CC stage of works.

Requirement

Common use External Walkway / Pedestrian access requirements as per AS1428:

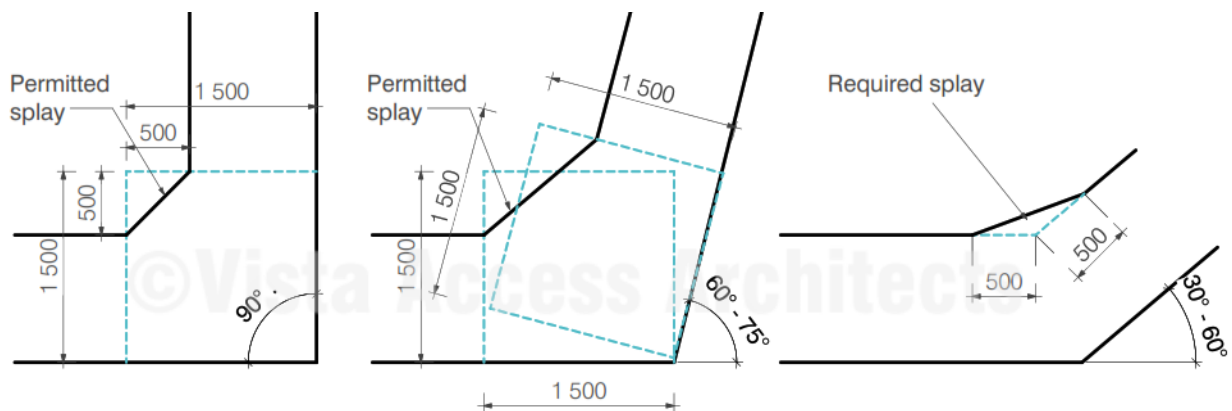
- Accessible path of travel to have a gradient no steeper than 1 in 20 and a cross fall no steeper than 1:40 (1:33 for bitumen).
- For 1:20 grade walkways, 1200mm flat landings are required every 15M.
- The floor surface abutting the sides of the walkway to be provided with a firm and level surface (of a different material) at the same level and grade of the walkway and extend horizontally for a minimum of 600mm unless one of the following is provided: kerb, kerb-rail and handrail or wall of minimum 450mm height.
- At 60 to 90-degree bends in pathways provide a 1500mmx1500mm space with maximum 500mm splay permitted at internal corner.

Compliance

Complies with spatial requirements

Comments

Details to be verified at the CC stage of works.



[Image description: Spatial requirements of walkways with bends as per AS1428.1]

Requirement

Common use floor or ground surfaces

- Use slip-resistant surfaces
- The texture of the surface is to be traversable by people who use a wheelchair and those with an ambulant or sensory disability.
- Abutment of surfaces is to have a smooth transition.
- Construction tolerances to be +/- 3mm vertical or +/-5mm, provided the edges have a bevelled or rounded edge (See diagrams below)
- Where timber decking and boardwalks are provided it is recommended that AS1428.1-2021 requirements be followed.

Grates if used in the accessible path of travel are required to comply with the following:

- Circular openings maximum of 13 mm in diameter
- Slotted openings maximum of 13 mm wide and be oriented so that the long dimension is transverse to the dominant direction of travel
- Where slotted openings are less than 8 mm, the length of the slots may continue across the width of paths of travel

Compliance

Capable of compliance

Comments

Details to be verified at the CC stage of works.

Requirement

Accessway is required through:

- Principal pedestrian entry; and
- Not less than 50% of all pedestrian entrances; and
- In building with floor area over 500m², a non-accessible entry must not be located more than 50M from an accessible entry.

Compliance

Complies

Comments

All pedestrian entries have been designed to be accessible.

Requirement

All common use doorways and doorways to and within Accessible units to comply with AS1428.1
Where accessible pedestrian entry has Multiple doorways:

- At least 1 to be accessible if 3 provided
- At least 50% to be accessible, if more than 3 provided
- Where doorway has multiple leaves, at least 1 leaf is to have clear opening of 850mm (excluding automatic doors)

Doorway requirements

- All common use doorways in the development within accessible path of travel (other than doorways non-accessible sanitary facilities) to have a clear opening of at least 850mm with appropriate door circulation spaces in accordance with AS1428.1. In case of multiple leaf doorways, at least 1 operable leaf is required to provide a clear opening of 850mm with the door circulations spaces as per AS1428.1.
- Ambulant toilet cubicle door to have a clear door opening of 700mm.
- Space required for door circulation spaces to have a maximum floor grade of 1:40 (doorway threshold ramps are permitted within the circulation space).
- Door thresholds are to be level, or they can incorporate a doorway threshold ramp with a maximum grade of 1:8, for maximum rise of 35mm and a maximum length of 280mm and located within 20mm of the door leaf, with edges to be tapered or splayed at a minimum of 45° where it does not abut a wall.
- Sliding doorways to be provided with recessed floor tracks to enable flush transition from the inside of the building.
- Distance between successive doorways in airlocks to be 1450mm which is measured when the door is in open position in case of swinging doors.
- Door hardware including door handles, door closers and the in-use indicators / snibs in accessible and ambulant toilets are required to comply with requirements of AS1428.1
- Luminance contrast requirements to doorways and other glazed areas to comply with AS1428.1
- Distance from the door surface to the adjacent wall must not be more than 300mm in depth
- Apart from main entry door and doors to any accessible toilets, the door handle height requirements can be varied if required for Childcare centres, swimming pool barriers or similar situations where the location of the opening and locking controls is prescribed by the relevant statutory authority.

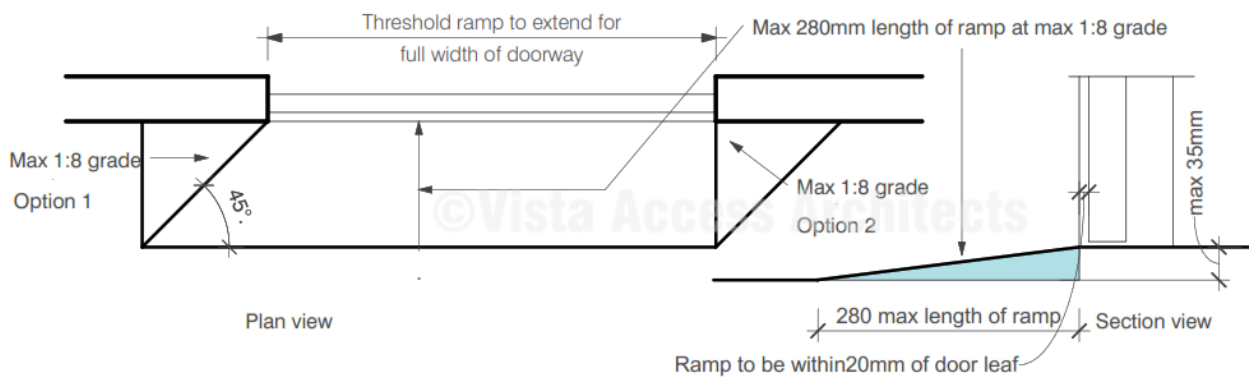
Compliance

Complies with spatial requirements

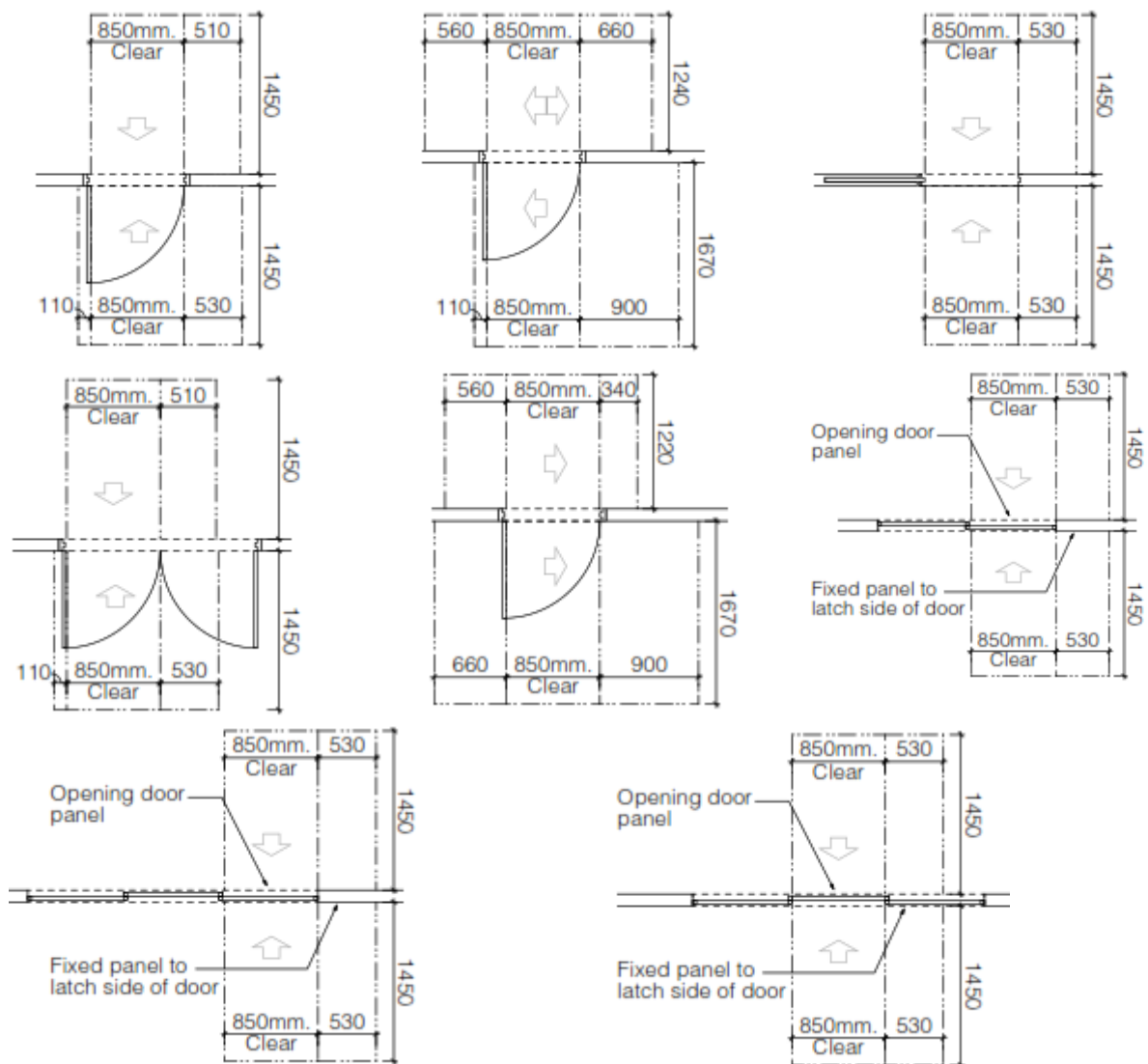
Comments

Where door automation is provided to sliding doorways, latch side circulation is not required to the automated doors.

Details to be verified at the CC stage of works.



[Image description: Diagram showing requirements for door circulation spaces and door threshold requirements as per AS1428.1]



[Image description: Diagram showing requirements for door circulation spaces and door threshold requirements as per AS1428.1 for clear opening of 850mm]

BCA 2022 Part D4D4 Parts of buildings required to be accessible

Requirement

- Every common use **Ramp** with grades steeper than 1:20 and less than or equal to 1:14 (excluding fire-isolated ramp) is to be compliant with AS1428.1

Compliance N/A

Comments

This type of ramp has not been identified in the development.

Requirement

- **Step ramp** if provided in common use areas is to be compliant with AS1428.1 and NCC/BCA

Compliance N/A

Comments

This type of ramp has not been identified in the development.

Requirement

- **Kerb ramp** if provided in common use areas is to be compliant with AS1428.1

Compliance N/A

Comments

This type of ramp has not been identified in the development.

Requirement

Every **Stairway** in common use areas (excluding fire-isolated stairway) is to be compliant with AS1428.1 including;

- Handrails to be provided on both sides with 1M clearance between them and located at consistent height, between 865mm-1000mm above FFL, with no vertical sections.
- Either provide handrail extensions or offset first riser going up at mid landings
- Opaque risers required with nosing to have a sharp intersection or rounded or chamfered to 5mm.
- Handrails to extend a minimum of 300mm horizontally past the nosing on the top riser. At the bottom of the stairs the handrail is to extend at least one tread depth parallel to the line of the nosing, plus a minimum of 300mm horizontally from the last riser.

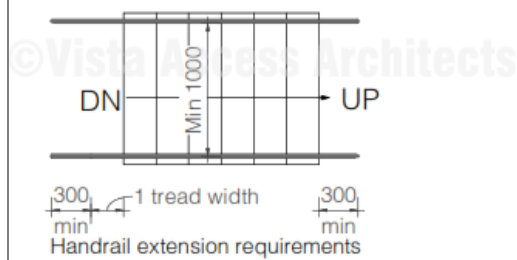
Compliance Complies with spatial requirements

Comments

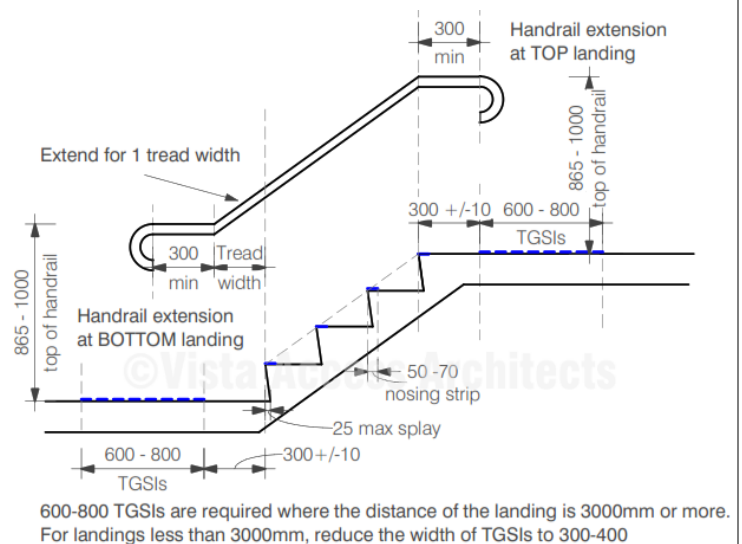
Where this type of stairway is provided, the details of the stairway will be assessed with the relevant requirements of AS1428.1 at the CC stage of works.

Note: In some cases, the stairway from the basement to the ground floor level is considered to be non-fire-isolated, in which case full compliance will be required as per AS1428.1. Verify with the BCA consultant if this is the case.

[Image description: Diagram showing the requirements of a non-fire-isolated stairway as per AS1428.1]



[Image description: Diagram showing the requirements of a non-fire-isolated stairway as per AS1428.1]



Requirement

Every **Fire-isolated Stairway** is to be compliant with AS1428.1 in the following aspects:

- Handrails to be provided only on one side of the staircase with 1M clear width and located between 865-1000mm above FFL. Handrail extensions are not required however since the handrails cannot have any vertical sections and is required to be at a consistent height throughout the stairway, it may be essential to either provide handrail extensions or offset first riser going up at mid landings
- Opaque risers required with nosing to have a sharp intersection or rounded or chamfered to 5mm.
- Handrails to both sides of the stairway are required if the total width of the stairway is 2M or more.

Compliance

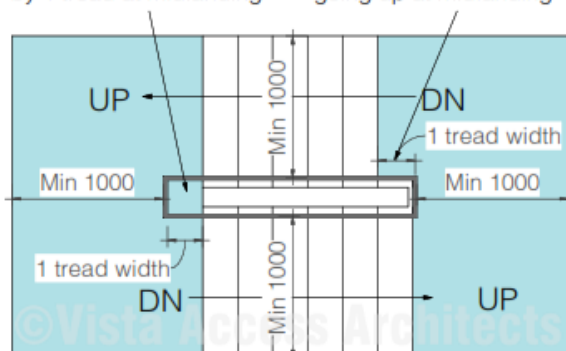
Complies with spatial requirements

Comments

Where this type of stairway is provided, the details of the stairway will be assessed with the relevant requirements of AS1428.1 at the CC stage of works.

Handrails to both sides are not required, however the internal handrail is to be continuous and to comply with all requirements of non-fire-isolated stairways.

Option A- extend handrail by 1 tread at midlanding
Option B- offset first riser going up at midlanding



[Image description: Diagram showing the requirements of a fire-isolated stairway as per AS1428.1]

Requirement

Nosing for common use fire-isolated and non-fire-isolated stairways require the following:

- Each tread to have a nosing strip between 50mm-75mm depth (of any one colour) for the full width of the stair, which can be setback for a maximum of 15mm from the front of the nosing.
- Multiple strips making up the 50mm-75mm depth is NOT permitted.
- This strip is to have a minimum luminance contrast of 30% to the background and to comply with any change in level requirements if attached on the treads.
- Where the nosing strip is not set back from the front of the nosing then any area of luminance contrast shall not extend down the riser more than 10mm

Compliance

Capable of compliance

Comments

Detailed features of the nosing strips will be assessed with the requirements of AS1428.1 at the CC stage of works.

Requirement

Slip resistance to comply with BCA 2022, Table D3D15 and AS2890.6 when tested in accordance with AS4586.

BCA 2022 Table D3D15 Slip –resistance requirements when tested in accordance with AS4586:

Application (common use areas)	Surface conditions	
	Dry	Wet
Ramp (and accessways to accessible parking spaces) steeper than 1:14	P4 or R11	P5 or R12
Ramp steeper than 1:20 but not steeper than 1:14	P3 or R10	P4 or R11
Accessways to accessible parking spaces not steeper than 1:14	P3 or R10	P4 or R11
Tread or landing surface for ramps and stairways	P3 or R10	P4 or R11
Nosing or landing edge strip	P3	P4
Accessible parking spaces and shared areas	P3 or R10	P4 or R11

HB 197/ HB198 An introductory guide to the slip resistance of pedestrian surface materials provides guidelines for the selection of slip-resistant pedestrian surfaces

Compliance

Capable of compliance

Comments

For Slip resistance of surfaces the builder is required to provide a Certificate stating that the Slip resistance of the surfaces comply with the above listed requirements when tested as per AS4586 at CC stage of works.

Requirement

Every **Passenger lift** is to comply with the requirements of **BCA 2022, E3D7**.

Compliance

Complies with spatial requirements

Comments

This has been assessed further in the report in the Lifts section. Refer to Lifts section.

Requirement

Passing spaces requirement

It is a requirement to provide passing spaces in common use accessways complying with AS1428.1 at maximum 20 M intervals, where a direct line of sight is not available. Space required is 1800x2800mm (in the direction of travel). Chamfer of 400x400mm is permitted at corners.

Compliance N/A

Comments

There are no accessways over 20M lengths in the development where a direct line of sight is not available

Requirement

Turning spaces requirement

It is a requirement to provide turning spaces in common use accessways complying with AS1428.1 within 2M of the end of accessways where it is not possible to continue travelling and at every 20M intervals. CLEAR Space required is 1540mmx2070mm in the direction of travel (measured from skirting to skirting).

Compliance Complies with spatial requirements

Comments

- Adequate turning spaces have been provided with minimum common use passageway widths being 1540mm clear or alternatively a space of 1540mmx2070mm provided at or within 2M of the end of the passageway.
- A space of 1540mmx2070mm is also required / provided in front of all passenger lift doors.

Details to be verified at CC stage of works.

Advisory note

Where furniture layouts have been decided in developments, ensure that 1M clear space is available around all furniture and that a turning space of 1540mmx2070mm (in the direction of travel) is provided in areas where travel is no longer possible and a person in a wheelchair would be required to make a 180° turn

Requirement

Carpet specifications

Carpet if used in areas required to be accessible are to be provided with pile height or thickness not more than 11mm and carpet backing not more than 4mm bringing the total height to a maximum of 15mm.

Compliance Capable of compliance

Comments

Applies only if carpets are provided in the common use areas of residential component and to all commercial use areas

Details to be verified at CC stage of works.

BCA 2022 Part D4D5 Exemption

Requirement

Access is not required to be provided in the following areas:

- Where access would be inappropriate because of the use of the area
- Where area would pose a health and safety risk
- Any path which exclusively provides access to an exempted area

Compliance

For information only

Comments

Areas such as lift machine rooms, fire services room, commercial kitchens, areas in childcare centres such as nappy change room or cot rooms etc or exclusive staff use areas in storage facilities. in the development are exempted from providing access under this clause due to WHS concerns.

Where a caretaker is provided in the development, the toilet provided exclusively for use by the caretaker can be excluded from providing access based on the provisions in this clause.

BCA 2022 Part D4D6 Accessible Carparking

Requirement

Class 3

For Accessible parking requirements for boarding house, guest house, hostel etc.
Multiply total number of carparking spaces provided by the % of

- Accessible SOUs to the total number of SOUs or
- Accessible bedrooms to the total number of bedrooms

Calculated to the next whole number

For Accessible parking requirements for residential part of school, accommodation for the aged, the disabled or children, residential part of health care building etc.

- 1 space per 100 carparking spaces

Compliance

Complies

Comments

Total number of carparking spaces provided = 13.

Total number of accessible parking spaces required as per the formula listed above in the requirements = 1

Total number of accessible parking spaces provided = 2.

Requirement

Class 5

- 1 Accessible car parking space per 100 carparking spaces

Class 6

- 1 Accessible car parking space per 50 carparking spaces (up to 1000 spaces) and additional 1 Accessible car parking space per additional 100 spaces provided

Compliance

Complies

1 accessible parking space for commercial use provided



[Image description: Plan of Basement level 1 above shows the provision of Accessible parking spaces]

AS2890.6-2009 requirements for Accessible car parking space

Requirement

Angle Parking AS 2890.6-2009

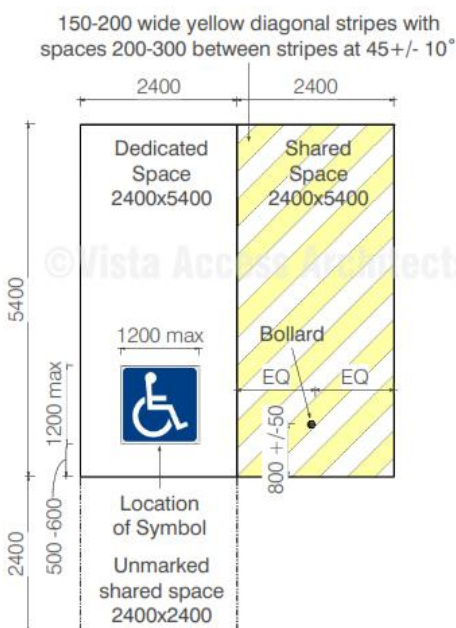
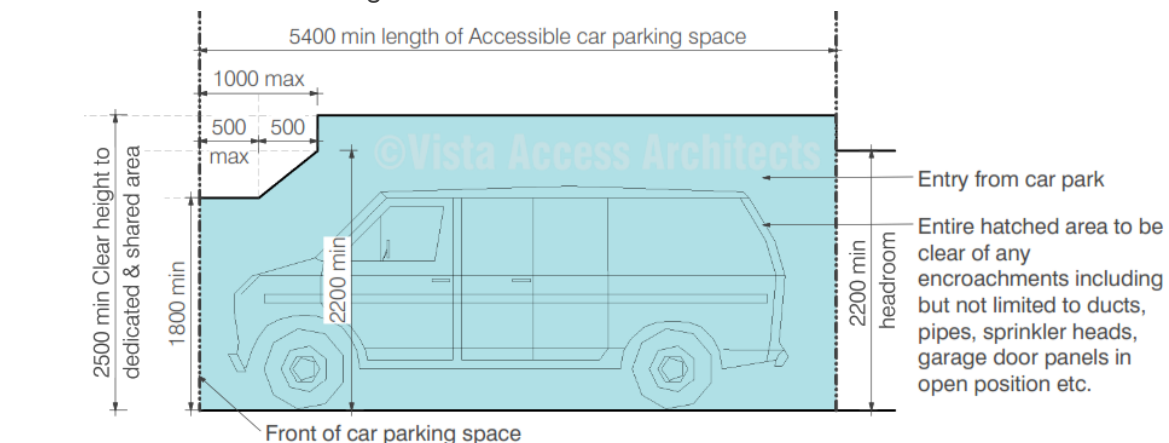
- Dedicated space 2.4Mx5.4M, Shared space 2.4Mx5.4M at the same level
- Slip resistant flooring surface with maximum fall 1:40 in any direction or maximum 1:33 if bituminous and outdoors.
- Central Bollard in shared space at 800+/-50mm from entry point.
- Pavement marking in dedicated space by means of access symbol between 800mm-1000mm high placed on a blue rectangle of maximum 1200mm and between 500mm-600mm from its entry point (marking is not to be provided where the space is allocated to an Adaptable unit).
- Minimum headroom of 2.2M at entrances and 2.5M is required over shared space as well as dedicated spaces.
- Non-trafficked area of the shared space to have yellow marking strips at 45°, 150-200mm wide at 200mm-300mm spaces (not required where driveways are used as shared spaces)
- Accessible parking spaces, shared areas and the pavement marking shall have slip resistance of P3/R10 in dry and P4/R11 in wet conditions.

Compliance

Complies with spatial requirements

Comments

Details to be verified at CC stage of works.



[Image description: Diagram showing spatial requirements of AS2890.6 including line marking, symbol and bollard requirements]

Access symbol is not to be provided when spaces are allocated to a particular residential unit

Additional recommendations as per AS2890.6-2022 (not currently mandatory)

Dedicated Bollard to have a height of minimum 1300mm with a minimum 300mm retro-reflective colour band, located at minimum 900mm in height above car parking floor that provides minimum 30% luminance contrast to the pavement

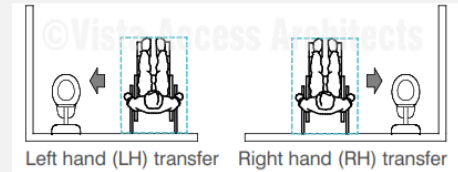
BCA 2022 Part D4D7 Signage

Requirement

Braille and Tactile signage are required to identify Accessible Sanitary facilities



[Image description: Diagram to help choose the correct signage based on LH/RH transfer]



International sign of access is required to signage to all accessible sanitary facilities (excluding SOUs within Class 1b or Class 3) and signage is required to identify if facility is for LH (left hand transfer) or RH (right hand transfer)

Compliance

Capable of compliance

Comments

Signage selections generally take place at CC stage of works. Selection and location of signage as specified above will lead to compliance. Details of selected signage to be verified at CC stage of works.

Requirement

Braille and Tactile signage are required to identify Ambulant Sanitary facilities

Compliance

N/A

Comments

No ambulant sanitary facilities have been identified in the development.

Requirement

Braille and Tactile signage is required to identify Hearing Augmentation

Compliance

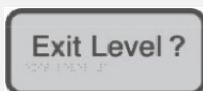
Capable of compliance

Comments

Signage selections generally take place at CC stage of works. Selection and location of signage as specified above will lead to compliance. Details of selected signage to be verified at CC stage of works

Requirement

Braille and Tactile signage is required to identify a Fire exit door required by [BCA2022, E4D2](#) by stating the 'Exit' and 'Level', followed by either the floor level number or floor level descriptor or a combination of both of the above and located on the side that faces a person seeking egress



[Image description: Image of Signage The "?" shown in image is to be replaced with the floor level where the door is located]

Compliance

Capable of compliance

Comments

Signage selections generally take place at CC stage of works. Selection and location of signage as specified above will lead to compliance. Details of selected signage to be verified at CC stage of works.

Requirement

Signage is required where a bank of sanitary facilities is not provided with an accessible unisex sanitary facility.

Compliance N/A

Comments

N/A

Requirement

Signage is required to a single hand pushing action device (example manual control button to an automated doorway) where the latch operation device is not located on the door leaf itself

Compliance N/A

Comments

No automated doors have been identified on the plans. This is to be verified at CC stage of works.

Requirement

All signage is required to be as per [BCA 2022 Specification 15 Braille and Tactile Signs](#)
This includes location of signage, specifications in regard to braille and tactile characters, luminance contrast and lighting.

Compliance Capable of compliance

Comments

Signage selections generally take place at CC stage of works. Selection and location of signage as specified above will lead to compliance. Details of selected signage to be verified at CC stage of works.

BCA 2022 Part D4D8 Hearing Augmentation

Requirement

Hearing Augmentation is only required where an inbuilt amplification system (other than emergency) is installed in a Class 9b building, or in an auditorium, conference / meeting room or a reception area where a screen is used.

Compliance N/A

Comments

No areas with provision of inbuilt amplification have been identified on plans and hence no hearing augmentation requirements apply to this development.

If inbuilt amplification system is proposed in the development, then hearing augmentation is to be provided.

BCA 2022 Part D4D9 Tactile ground surface indicators (TGSIs)

Requirement

TGSIs are required when approaching:

- Stairways other than fire-isolated stairways.
- Escalators / passenger conveyor / moving walk.
- Ramp (other than fire-isolated ramps / kerb or step or swimming pool ramps).
- Under an overhead obstruction of <2M if no barrier is provided.
- When accessway meets a vehicular way adjacent to a pedestrian entry (if no kerb / kerb ramp provided at the location).

Compliance is required with AS1428.4.1 including Luminance contrast and slip resistance requirements for all TGSIs.

Compliance

Capable of compliance

Comments

TGSI selections generally take place at CC stage of works. Selection of TGSIs as specified will lead to compliance and these selection details are to be verified at CC stage of works.

BCA 2022 Part D4D12 Limitations on Ramps

Requirement

On an accessway:

- A series of connected ramps must not have a combined vertical rise of more than 3.6M;
- And a landing for a step ramp must not overlap a landing for another step ramp or ramp.

Compliance

N/A

Comments

No ramps have been identified in the development

BCA 2022 Part D4D13 Glazing on Accessways

Requirement

Glazing requirements:

- Where there is no chair rail, handrail or transom, all frameless or fully glazed doors, sidelights and any glazing capable of being mistaken for a doorway or opening are required to have a glazing strip
- The marking should be for the full width with a solid and non-transparent 75mm wide, contrasting line located 900-1000mm above FFL and provide a minimum luminance contrast of 30% when viewed against the floor surface within 2M of the glazing on the opposite end. Graphical representation or cut-outs are not permitted.

Compliance

Capable of compliance

Comments

Glazing strips are required to be provided to full height glazed areas (doors and windows) used in common use areas such as lift lobbies and common passageways in residential components, within Accessible units and in all commercial/retail use components

Glazing strip selections generally take place at CC stage of works. Selection of glazing strips as specified above will lead to compliance and details are to be verified at CC stage of works.

BCA Part F Accessible Sanitary Facilities

BCA 2022 Part F4D5 Accessible Sanitary facilities

Requirement

Accessible unisex toilet is to be provided in accessible part of building such that;

- It can be entered without crossing an area reserved for 1 sex only
- Where male and female sanitary facilities are provided at different locations, Accessible unisex toilet is only required at one of the locations
- Even distribution of LH and RH facilities
- An accessible facility is not required on a level with no lift / ramp access.

Compliance Complies

Comments

3 common use accessible toilets have been provided in the development.

BCA 2022 Part F4D6 Accessible unisex sanitary compartments

Requirement

Class 3

- 1 Accessible toilet within every accessible SOU provided with sanitary compartments.
- At least 1 unisex Accessible toilet when sanitary compartments are provided in common areas.

Compliance Complies

Comments

3 accessible toilets have been provided in the development. within Class 3 component.

The following common use sanitary facilities have been identified in the development

Location	Unisex Accessible facilities			
	LH	LH + Shower	RH	RH + Shower
Unisex accessible toilet on Level 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Unisex accessible toilet on Level 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unisex accessible toilet on Level 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Each Accessible SOU has been provided with accessible toilet and accessible shower as noted below

Location	Unisex Accessible facilities			
	LH	LH + Shower	RH	RH + Shower
SOU number L1-U7, L2-U7, L3-U3, L5-U6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SOU number L1-U12, L2-U12, L3-U8, L4-U10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Requirement

Class 5, 6

- 1 unisex Accessible toilet on every storey containing sanitary compartments. Where more than 1 bank of sanitary compartments on a level, at 50% of banks

Compliance N/A

Comments

No common use sanitary facilities have been identified in the development within Class 5, 6 component.

BCA 2022 Part F4D7 Requirements for Accessible unisex showers

Requirement

Class 3

1 Accessible shower within every accessible SOU provided with showers and
At least 1 unisex Accessible shower for every 10 showers provided in common areas.

Compliance Complies

Comments

No common use shower facilities have been identified in the development within Class 3 component

Each Accessible SOU has been provided with accessible toilet and accessible shower as noted below

Location	Unisex Accessible facilities			
	LH	LH + Shower	RH	RH + Shower
SOU number L1-U7, L2-U7, L3-U3, L5-U6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SOU number L1-U12, L2-U12, L3-U8, L4-U10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Requirement

Class 5, 6

When BCA requires provision of 1 or more showers, then 1 for every 10 showers.

Compliance N/A

Comments

No common use shower facilities have been identified in the development within Class 5, 6 component.

Requirement

Accessible unisex toilet is to be designed in accordance with AS1428.1

Compliance Capable of compliance

Comments

<p>Detailed features of the accesible toilet will be assessed at the CC stage of works</p>	

Requirement

Showers for Accessible use are to be designed in accordance with AS1428.1

Compliance

Complies with spatial requirements

Comments

Detailed features of the Accessible shower will be assessed at the CC stage of works.

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Requirement

Ambulant use male / female toilets are to be provided if an additional toilet to the Accessible unisex toilet is provided

Compliance N/A

Comments

No ambulant toilet facilities have been identified in the development

BCA Part E Lift Installations

BCA 2022 Part E3D3 Stretcher facility in lifts

Requirement

A **Stretcher lift** is to be provided if a passenger lift is installed to serve any storey with an effective height of 12M. The space requirement is 600mm wide x 2000mm deep x 1400mm high above the floor level. Confirm this requirement with your BCA consultant.

Compliance For information only

Comments

Contact BCA consultant in regard to applicable requirements.

BCA 2022 Part E3D7 Passenger lift and their limitations

Requirement

In an accessible building, **Every Passenger Lift** (excluding electric passenger lift, electrohydraulic passenger lift, inclined lift) must be subject to limitations on use and must comply with **BCA 2022, E3D7, E3D8 and E3D10**

Compliance Capable of compliance

Comments

A **certificate of compliance from the lift supplier**, stating that the proposed lift complies with the requirements of BCA Part E3- Lift installations will be required at the CC stage of works

Limitations on use of types of passenger lifts

Requirement

Limitations on use of Stairway platform lifts, Low-rise platform lift, Low-rise, low-speed constant pressure lift and small sized, low-speed automatic lift

Compliance N/A

Comments

N/A

BCA 2022 Part E3D8 Accessible features required for passenger lifts

Requirement

Handrail requirements for passenger lifts. Apart from stairway platform lift and low-rise lifts, a handrail is required as per AS1735.12:

- 600mm minimum handrail not more than 500mm from control panel
- Top of handrail between 850-950mm above FFL
- Diameter of handrails to be between 30-50mm and located not less than 50mm from adjacent walls with no obstructions to top 270° arc

Lift floor dimensions (excluding stairway platform lift)

- Lifts traveling **12M** or under, floor size, **1100mm wide x 1400mm deep**
- Lifts travelling **more than 12M**, floor size **1400mm wide x 1600mm deep**
- If lift doors are on adjacent sides of the lift on different floor levels, then the lift floor size is required to be 1400x1600 or 1500x1500 to allow for a wheelchair to make a 90 degree turn in the lift.

Minimum **Door opening size** complying with AS1735.12, not less than 900mm clear (excluding stairway platform lift).

All lifts with a power operated door are required to have a **Passenger protection system** complying with AS1735.12.

Lift landing doors to be provided at upper landing (excluding stairway platform lift).

Lift car and landing control buttons complying with AS1735.12

Some of the requirements listed below. Refer to AS1735.12 for further details.

For internal control panel:

- If width or depth of car is less than 1400mm, 2 control panels to be provided, one to the left and one to the right of the person entering the car
- Tactile symbol and Braille equivalent to be provided
- Buttons to be located between 900-1100mm above FFL
- All buttons to be 300mm from corner (near entry) and 400mm of all other corners

For external control panel:

To be located between 900-1100mm above FFL and not less than 500mm from internal corners unless otherwise permitted by AS1735.12

Lighting (for all enclosed lift cars) to be provided in accordance with AS1735.12 and AS1680. Minimum illuminance of 100 lx is required at the level of the car floor and average of 50 lx is required on the control panel surface.

To all lifts serving more than 2 levels

- Automatic audible information to identify level when car stops
 - Audible and visual indication at landing to indicate arrival of lift car
- Audible information and indication to be provided between 20-80 dB(A) at a maximum frequency of 1500Hz

Emergency hands free communication (excluding stairway platform lift) – provide a button that alerts a call centre and a light that the call has been received.

Compliance

Capable of compliance

Comments

A certificate of compliance from the lift supplier, stating that the proposed lift complies with the requirements of BCA Part E3- Lift installations will be required at the CC stage of works

Accessible SOU requirements

BCA does not specify the features required for an Accessible SOU. The following are selected features of AS1428.1 which are considered suitable for an Accessible SOU.

The development has a requirement for 8 Accessible SOUs.
However, 9 Accessible SOUs have been provided in the development. The nominated Accessible SOUs are as noted below

Location	Unisex Accessible facilities			
	LH	LH + Shower	RH	RH + Shower
SOU number L1-U7, L2-U7, L3-U3, L5-U6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SOU number L1-U12, L2-U12, L3-U8, L4-U10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



L1-U7



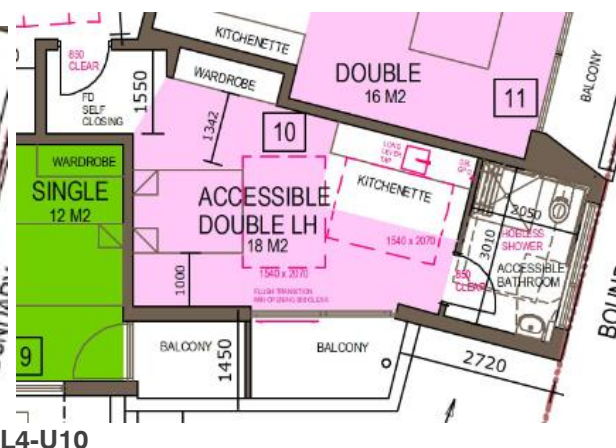
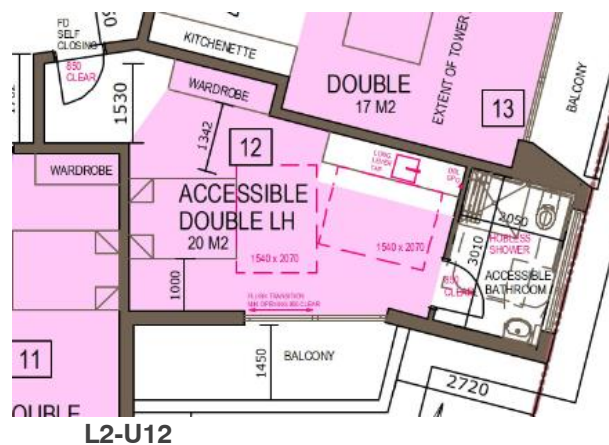
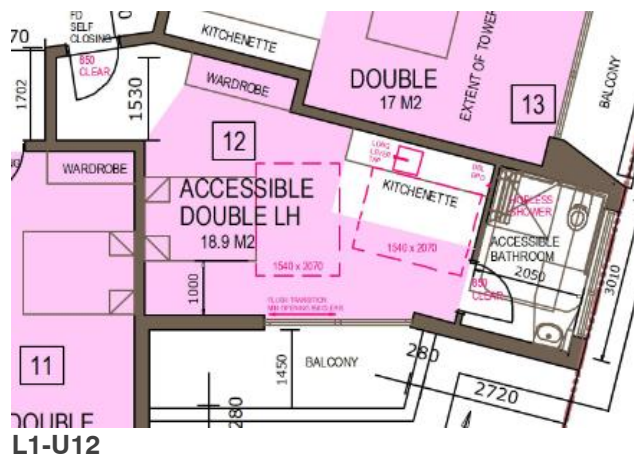
L2-U7



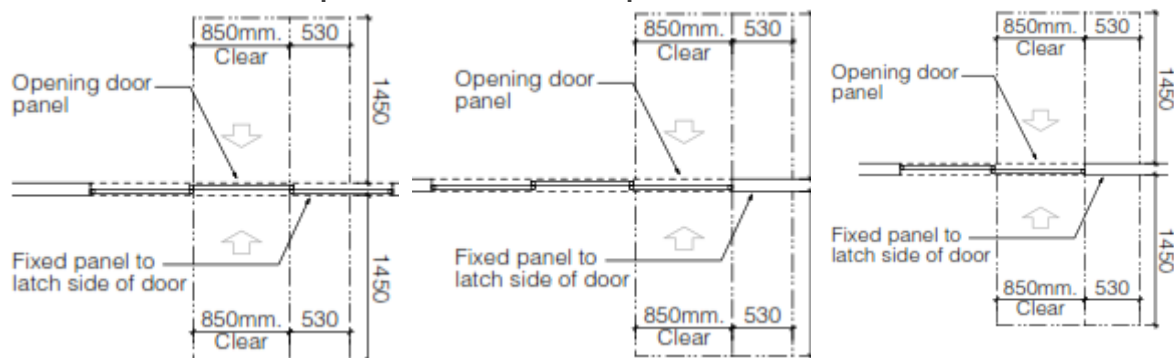
L3-U3



L5-U6



General comment: All sliding doors to the balconies of the accessible units are required to provide for clear door circulation spaces as shown in the options below



R ☒ = Required;

C ☒ = Capable of compliance at by adding the requirement to the project specifications.

Requirements as per AS1428

R C Comments

1 Doorways

All doors including entry door to provide 850mm clear opening space with the necessary door circulation spaces and fixtures as specified under AS1428.1

☒ ☒

Capable of compliance
Details to be verified at the CC stage of works.

Requirements as per AS1428	R	C	Comments
2 Bathroom			
At least 1 Bathroom to accommodate, WC pan, Shower and handwash basin with the necessary fixtures and circulation spaces as specified under AS1428.1	✓	✓	Complies with spatial requirements Details to be verified at the CC stage of works.
3 Laundry			
Where internal or common use laundry provided, <ul style="list-style-type: none"> A minimum clear depth of 1540mm (for minimum length of 2070mm) forward of laundry benchtop a long lever tap, to any provided sink with part of the lever arm being within 300mm from the front edge of the benchtop 	✓	✓	Laundry is not identified within the units. If provided will be required to comply at CC stage of works.
4 Main bedroom			
At least 1 bedroom to have a queen bed with circulation space of 1540mm x 2070mm at the base or side of the bed and at least 1M on the other 2 sides. In the case of a boarding house a single bed may be used with the same circulation spaces.	✓	✓	Complies with spatial requirements If all other units provide a double bed then it is reasonable for the accessible unit to provide a double bed as well. Details to be verified at the CC stage of works.
5 Living areas			
Adequate circulation space is to be available after the placement of furniture. Circulation space of minimum 2250mm diameter is considered to be appropriate.	✓	✓	Complies In case of boarding house- Common use living areas have been provided which comply with the requirement. Details to be verified at the CC stage of works.
6 Kitchen / Kitchenette			
Where internal or common use kitchenette provided, <ul style="list-style-type: none"> A minimum clear depth of 1540mm (for minimum length of 2070mm) forward of any common use kitchen / laundry / BBQ benchtop a long lever tap, to any provided sink with part of the lever arm being within 300mm from the front edge of the benchtop a (30x30mm switch size) double GPO fully within 300mm from the front edge of the benchtop. Consideration to be given (advisory only) to provision of an 850mm section without base cabinetry or removable cabinetry to allow for access to benchtop and a benchtop space of 800mm between the fridge and cooktop.	✓	✓	Capable of compliance In some cases. Details to be verified at the CC stage of works.
7 Balconies and outdoor areas			
Where access is available from the unit to the outdoor areas such as balconies and courtyards, an accessible threshold is required, with door tracks for sliding doors (if any) to be flush with the internal floor level and max height of external threshold ramp of 35mm height.	✓	✓	Capable of compliance This requirement also applies to common use areas. Details to be verified at the CC stage of works.

Requirements as per AS1428		R	C	Comments
8 Flooring				
All flooring is required to be step free. Construction tolerances, slip resistant and waterproofing to be as required under relevant Australian Standards.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Capable of compliance Details to be verified at the CC stage of works.
9 Switches and GPOs				
All switches, GPOs and controls (including controls for intercom facilities) to be accessible as required under AS1428.1 which include		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Capable of compliance Details to be verified at the CC stage of works.
<ul style="list-style-type: none"> ▪ Rocker action / toggle switches to be provided in with a minimum size of 30mmx30mm located 900-1100mm above FFL and not less than 500mm from internal corners except where on the architrave on the latch side of the door. ▪ GPOs to be located between 600-1100mm above FFL and minimum of 500mm from any internal corners 				

Statement of Experience

Vista Access Architects specialises in disability access consultancy services including, Disability Access and inclusion requirements, Access Performance Solutions under the NCC, NDIS SDA Certifications, Livable Housing Certifications and Changing Places Certifications.



Farah Madon - Director

- ACA Accredited Access Consultant
- NDIS Accredited SDA Assessor
- Livable Housing Assessor
- Changing Places Assessor

- Accredited and Fellow member of the Access Consultants Association (ACA) - 281
- NDIS Accredited SDA (Specialist Disability Accommodation) Assessor SDA00001
- Architect registered with the NSW Architect's Registration Board - Registration 6940
- Member of Australian Institute of Architects (RAIA), A+ Practice Member 49397
- Registered Assessor of Livable Housing Australia - Registration 10032
- Global Alliance on Accessible Technologies and Environments (GAATES) - BE-02-021-20
- Registered Assessor of Changing Places Australia - Registration CP006

Farah's Educational Profile and Qualifications include:

- Bachelor of Architecture Degree with Honours (B.Arch.)
- International Certification of Accessibility Consultants – Built Environment (ICAC-BE) Program, Level 2 Advanced Accessibility Consultant
- Diploma of Access Consulting

Farah has 20 years of experience of working in the field of Architecture and Access.

Farah is the lead author of the NDIS SDA Design Standard. She has been invited on multiple occasions as an expert witness for Access related matters in the NSW Land and Environment Court.

Farah currently participates on the following key committees concerning access for people with disabilities, on an honorary basis:

- President of Access Consultants Association (previously known as ACAA)
- Member of Standards Australia's ME-064 Committee responsible for the AS4299 and AS1428 suite of standards.
- Community Representative Member of the Penrith City Council's Access Committee
- Member of Australian Institute of Architect's National Enabling Architecture Committee (NEAC)
- Member of Changing Places Australia Technical Advisory Team

Some Recent Awards presented to Farah include:

- 2023 Mulgoa Local Woman of the Year
- 2022 ACAA Fellow Award
- 2021 Australian Access Awards - Winner for the Educational App of the Year - SDA Tools
- 2021 Excellence in Inclusion - Altitude Awards
- 2019 Penrith Citizen of the Year
- 2019 ACAA Access Inclusion Award





Vanessa Griffin

- ACA Accredited Access Consultant
- NDIS Accredited SDA Assessor
- Livable Housing Assessor
- Changing Places Assessor

- Accredited member of ACA (previously ACAA) - 500
- NDIS Accredited SDA Assessor SDA00009
- Registered LHA Assessor - 20035
- Registered Assessor of Changing Places Australia - CP010



Jenny Desai

- ACA Accredited Access Consultant
- NDIS Accredited SDA Assessor
- Livable Housing Assessor

- Accredited member of ACA (previously ACAA) - 572
- NDIS Accredited SDA Assessor SDA00043
- Registered LHA Assessor - 20242
- Master's degree in Design M.Des



Art Phonsawat

- ACA Accredited Access Consultant
- NDIS Accredited SDA Assessor
- Livable Housing Assessor

- Accredited member of ACA (previously ACAA) - 695
- NDIS Accredited SDA Assessor
- Registered LHA Assessor



Trin Woo

- ACA Affiliate Access Consultant

- Affiliate Member of ACA (previously ACAA) - 776
- Bachelor's degree in Architecture B.Arch



Swapna Menon

- ACA Affiliate Access Consultant

- Affiliate Member of the ACA (previously ACAA) - 798
- Bachelor's degree in Architecture B.Arch



Rodney Shepherd

- ACA Affiliate Access Consultant

- Affiliate Member of ACA (previously ACAA) - 751
- Master's Degree in Building Surveying (Distinction)

