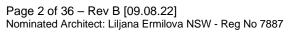
APARTMENT DESIGN GUIDE PARTS 3&4 COMPLIANCE TABLE

(State Environmental Planning Policy No. 65)



OBJECTIVES	DESIGN CRITERIA	DESIGN GUIDANCE	ARCHITECTS COMMENTS
3A Site analysis			
3A-1 Site analysis illustrates that design decisions have been based on opportunities and constraints of the site conditions and their relationship to the surrounding context		Each element in the Site Analysis Checklist should be addressed	Yes ✓ According to the design guidance. Refer to the architectural drawings DA 1101 – 1114
3B Orientation			
3B-1 Building types and layouts respond to the streetscape and site while optimising solar access within the development		Buildings along the street frontage define the street, by facing it and incorporating direct access from the street. Where the street frontage is to the east or west, rear buildings should be orientated to the north. Where the street frontage is to the north or south, overshadowing to the south should be minimised and buildings behind the street frontage should be orientated to the east and west.	Yes ✓ The building has main orientation on the site facing Copeland Street & Moore Street which respectively face west and north while most of the units have generous solar access facing northwest, thereby maximising the solar access. The visibility of the entrance to apartments are well defined with accessibility from Copeland Street. The entry lobby setback creates a welcoming form from the street.
3B-2 Overshadowing of neighbouring properties is minimised during mid-winter		Living areas, private open space and communal open space should receive solar access in accordance with sections 3D Communal and public open space and 4A Solar and daylight access. Solar access to living rooms, balconies and private open spaces of neighbours should be considered. Where an adjoining property does not currently receive the required hours of solar access, the proposed building ensures solar access to neighbouring properties is not reduced by more than 20%.	Yes ✓ Orientation of the building provides maximum solar access to living areas, and communal open spaces. Refer to architectural drawing DA 6001 Shadow Diagram. The shadow of the development falls mainly on adjoining property with the same zone.





If the proposal will significantly reduce the solar access of neighbours, building separation should be increased beyond minimums contained in section 3F Visual privacy.

Overshadowing should be minimised to the south or downhill by increased upper level setbacks.

It is optimal to orientate buildings at 90 degrees to the boundary with neighbouring properties to minimise overshadowing and privacy impacts, particularly where minimum setbacks are used and where buildings are higher than the adjoining development.

A minimum of 4 hours of solar access should be retained to solar collectors on neighbouring buildings.

3C Public domain interface

3C-1

Transition between private and public domain is achieved without compromising safety and security Terraces, balconies and courtyard apartments should have direct street entry, where appropriate.

Changes in level between private terraces, front gardens and dwelling entries above the street level provide surveillance and improve visual privacy for ground level dwellings.

Upper level balconies and windows should overlook the public domain.

Front fences and walls along street frontages should use visually permeable materials and treatments. The height of solid fences or walls should be limited to 1m.

Length of solid walls should be limited along street frontages Opportunities should be provided for casual interaction between residents and the public domain.

Design solutions may include seating at building entries, near letter boxes and in private courtyards adjacent to streets In developments with multiple buildings and/or entries, pedestrian entries and spaces associated with individual buildings/entries should be differentiated to improve legibility for residents, using a number of the following design solutions:

- architectural detailing
- changes in materials
- plant species
- colours

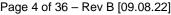
Yes ✓

The front setback with lust landscape created transition between the pedestrian and the building.

The entry above the street levels will assist in surveillance and visual privacy.



		Opportunities for people to be concealed should be minimised.	
3C-2 Amenity of the public		Planting softens the edges of any raised terraces to the street, for example above sub-basement car parking.	Yes ✓
domain is retained and enhanced		Mail boxes should be located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided.	Building is setback 4.5m from the northern boundary and landscaped to provide a softer transition from Moore Street.
		The visual prominence of underground car park vents should be minimised and located at a low level where possible.	The plant room is tucked in behind the setback with
		Substations, pump rooms, garbage storage areas and other service requirements should be located in basement car parks or out of view.	integrated front fence. Mail box is located in the entrance of the residential
		Ramping for accessibility should be minimised by building entry location and setting ground floor levels in relation to footpath levels.	building lobbies at Copeland Street.
		Durable, graffiti resistant and easily cleanable materials should be used.	All services rooms are located in the basement area.
		Where development adjoins public parks, open space or bushland, the design positively addresses this interface and uses a number of the following design solutions: • street access, pedestrian paths and building entries which are clearly defined	
		paths, low fences and planting that clearly delineate between communal/private open space and the adjoining public open space minimal use of blank walls, fences and ground level parking	
		On sloping sites protrusion of car parking above ground level should be minimised by using split levels to step underground car parking.	
3D Communal and	·		
3D-1 An adequate area of communal open space is	Communal open space has a minimum area equal to 25% of the site	Communal open space should be consolidated into a well-designed, easily identified and usable area.	Yes✓
provided to enhance residential amenity and to	Developments achieve a minimum of 50% direct sunlight to the	Communal open space should have a minimum dimension of 3m, and larger developments should consider greater dimensions.	391 m² of communal open space on ground floor and roof terrace have been proposed, which is



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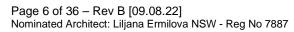


provide opportunities for landscaping	principal usable part of the communal open space for a	Communal open space should be co-located with deep soil areas.	30.4% of the total site area of 1287.2m² required COS envisaged by the ADG.
	minimum of 2 hours between 9 am and 3 pm on 21 June (mid-winter).	Direct, equitable access should be provided to communal open space areas from common circulation areas, entries and lobbies. Where communal open space cannot be provided at ground level, it should be provided on a podium or roof	All landscaped areas of the communal open space receive direct sunlight on roof terrace during winter solstice.
		Where developments are unable to achieve the design criteria, such as on small lots, sites within business zones, or in a dense urban area, they should:	All of those communal open spaces are oriented to north-east and receive direct sunlight.
		 provide communal spaces elsewhere such as a landscaped roof top terrace or a common room provide larger balconies or increased private open space for apartments demonstrate good proximity to public open space and facilities and/or provide contributions to public open space 	
3D-2 Communal open space is		Facilities are provided within communal open spaces and common spaces for a range of age groups.	Yes ✓
designed to allow for a range of activities, respond to site conditions and be attractive and inviting		Common circulation and spaces), incorporating some of the following elements: • seating for individuals or groups • barbecue areas • play equipment or play areas • swimming pools, gyms, tennis courts or common rooms	The communal open spaces accommodate individual or groups through designed seating, dedicated child's play area and BBQ area, surrounded by a planter that would protect the area physically and visually.
		The location of facilities responds to microclimate and site conditions with access to sun in winter, shade in summer and shelter from strong winds and down drafts.	Pergolas and some trees are provided to give shade to the future users of the development.
		Visual impacts of services should be minimised, including location of ventilation duct outlets from basement car parks, electrical substations and detention tanks.	
3D-3 Communal open space is designed to maximise safety		Communal open space and the public domain should be readily visible from habitable rooms and private open space areas while maintaining visual privacy. Design solutions may include: • bay windows • corner windows • balconies	Yes ✓ The communal open space on roof terrace is setback from the edge of the roof to provide optimum safety to the users and further refines the boundary between public and private spaces.
Page 5 of 26 Pay P [00 00 22]		Communal open space should be well lit.	

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			Where communal open space/facilities are provided for children and young people they are safe and contained.	The communal open space on ground level are readily visible from habitable rooms and POS, but visual privacy is simultaneously achieved through planting in between.
3D-4 Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood			The public open space should be well connected with public streets along at least one edge. The public open space should be connected with nearby parks and other landscape elements. Public open space should be linked through view lines, pedestrian desire paths, termination points and the wider street grid.	N/A
			Solar access should be provided year round along with protection from strong winds. Opportunities for a range of recreational activities should be provided for people of all ages. A positive address and active frontages should be provided adjacent to public open space. Boundaries should be clearly defined between public open space and private areas.	
3E Deep soil zones			opened and private and an	
3E-1 Deep soil zones provide areas on the site that allow for and support healthy plant and tree growth. They improve residential amenity	Deep soil zones are to me following minimum require Minimum		On some sites it may be possible to provide larger deep soil zones, depending on the site area and context: • 10% of the site as deep soil on sites with an area of 650m² - 1,500m² • 15% of the site as deep soil on sites greater than 1,500m²	Yes ✓ 125.03m² (9.7%) has been proposed as a deep soil zone and located at the front and western setback.
and promote management of water and air quality	less than 650m² - 650m² - 1,500m² 3m greater than 1,500m²	site area)	Deep soil zones should be located to retain existing significant trees and to allow for the development of healthy root systems, providing anchorage and stability for mature trees. Design solutions may include: • basement and sub-basement car park design that is consolidated beneath building footprints • use of increased front and side setbacks • adequate clearance around trees to ensure long term health	Planting on structure is provided on ground level and roof terrace for the communal open spaces. Stormwater management plan has been provided by the hydraulic engineer. Please refer to the stormwater plan and report prepared by CEC engineer.



greater than 1,500m² with significant	6m	
existing tree		
cover		

 co-location with other deep soil areas on adjacent sites to create larger contiguous areas of deep soil

Achieving the design criteria may not be possible on some sites including where:

- the location and building typology have limited or no space for deep soil at ground level (e.g. central business district, constrained sites, high density areas, or in centres)
- there is 100% site coverage or non-residential uses at ground floor level

Where a proposal does not achieve deep soil requirements, acceptable stormwater management should be achieved and alternative forms of planting provided such as on structure.

3F Visual privacy

3F-1

Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy

- Separation between windows and balconies is provided to ensure visual privacy is achieved.
- Minimum required separation distances from buildings to the side and rear boundaries are as follows:

Building height	Habitable rooms and balconies	Non- habitable rooms
12m (4 storeys)	6m	3m
up to 25m(5-8storeys)	9m	4.5m
over 25m(9+ storeys)	12m	6m

Note: Separation distances between buildings on the same site should combine required building separations depending on the type of room Generally one step in the built form as the height increases due to building separations is desirable.

Additional steps should be careful not to cause a 'ziggurat' appearance.

For residential buildings next to commercial buildings, separation distances should be measured as follows:

- for retail, office spaces and commercial balconies use the habitable room distances
- for service and plant areas use the non-habitable room distances

New development should be located and oriented to maximise visual privacy between buildings on site and for neighbouring buildings.

Design solutions include:

- site layout and building orientation to minimise privacy impacts
- on sloping sites, apartments on different levels have appropriate visual separation distances

Apartment buildings should have an increased separation distance of 3m (in addition to the requirements set out in

Yes ✓

There are no units over looking each other.

The proposed development complies the setback as per ADG buildings separation. Also, this is consistent with the DCP requirement in keeping with the street characteristic.



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25.2	Gallery access circulation should be treated as habitable space when measuring privacy separation distances between neighbouring properties	design criteria 1) when adjacent to a different zone that permits lower density residential development to provide for a transition in scale and increased landscaping. Direct lines of sight should be avoided for windows and balconies across corners. No separation is required between blank walls.	
Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space		Communal open space, common areas and access paths should be separated from private open space and windows to apartments, particularly habitable room windows. Design solutions may include: • setbacks • solid or partially solid balustrades to balconies at lower levels • fencing and/or trees and vegetation to separate spaces • screening devices • bay windows or pop out windows to provide privacy in one direction and outlook in another • raising apartments/private open space above the public domain or communal open space • planter boxes incorporated into walls and balustrades to increase visual separation • pergolas or shading devices to limit overlooking of lower apartments or private open space • on constrained sites where it can be demonstrated that building layout opportunities are limited, fixed louvres or screen panels to windows and/or balconies Bedrooms, living spaces and other habitable rooms should be separated from gallery access and other open circulation space by the apartment's service areas Balconies and private terraces should be located in front of living rooms to increase internal privacy Windows should be offset from the windows of adjacent buildings	The communal spaces are designed with a setback from the edge of the building and surrounded by planters which prevents overlooking onto neighbours and ensure minimum privacy to the space. No balconies or windows in the development has a direct interface with the said communal open space. The surrounding context has been studied, modelled and has been a driver of the façade design within the proposed development ensuring articulated feature screens within the façade are integral to the design and have been placed in strategic locations to assist with privacy measures.
		Recessed balconies and/or vertical fins should be used between adjacent balconies	

3G-1 Building entries and pedestrian access connects to and addresses the public domain	Multiple entries (including communal building entries and individual ground floor entries) should be provided to activate the street edge. Entry locations relate to the street and subdivision pattern and the existing pedestrian network. Building entries should be clearly identifiable and communal entries should be clearly distinguishable from private entries. Where street frontage is limited and multiple buildings are located on the site, a primary street address should be provided with clear sight lines and pathways to secondary building entries.	Yes ✓ The Lobby entries to the apartments and is located and completely accessible from Copeland Street and yet have clear access and are identifiable as a main entry of the building.
3G-2 Access, entries and pathways are accessible and easy to identify	Building access areas including lift lobbies, stairwells and hallways should be clearly visible from the public domain and communal spaces. The design of ground floors and underground car parks minimise level changes along pathways and entries. Steps and ramps should be integrated into the overall building and landscape design. For large developments 'way finding' maps should be provided to assist visitors and residents (see figure 4T.3) For large developments electronic access and audio/video intercom should be provided to manage access.	Yes ✓ The Lobby entry and Vehicle entry are integrated on the overall building design
3G-3 Large sites provide pedestrian links for access to streets and connection to destinations	Pedestrian links through sites facilitate direct connections to open space, main streets, centres and public transport Pedestrian links should be direct, have clear sight lines, be overlooked by habitable rooms or private open spaces of dwellings, be well lit and contain active uses, where appropriate.	N/A
3H Vehicle access		
3H-1 Vehicle access points are designed and located to achieve safety, minimise conflicts between pedestrians and vehicles	Car park access should be integrated with the building's overall facade. Design solutions may include: • the materials and colour palette to minimise visibility from the street	Yes ✓ Carpark entry is setback behind the building line.

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and create high quality	• security doors or gates at entries that minimise voids in	
streetscapes	the facade • where doors are not provided, the visible interior	
	reflects the facade design and the building services, pipes and ducts are concealed	
	Car park entries should be located behind the building line.	
	Vehicle entries should be located at the lowest point of the site minimising ramp lengths, excavation and impacts on the building form and layout.	
	Car park entry and access should be located on secondary streets or lanes where available.	
	Vehicle standing areas that increase driveway width and encroach into setbacks should be avoided	
	Access point locations should avoid headlight glare to habitable rooms.	
	Adequate separation distances should be provided between vehicle entries and street intersections	
	The width and number of vehicle access points should be limited to the minimum.	
	Visual impact of long driveways should be minimised through changing alignments and screen planting	
	The need for large vehicles to enter or turn around within the site should be avoided.	
	Garbage collection, loading and servicing areas are screened.	
	Clear sight lines should be provided at pedestrian and vehicle crossings.	
	Traffic calming devices such as changes in paving material or textures should be used where appropriate.	
	Pedestrian and vehicle access should be separated and distinguishable. Design solutions may include: • changes in surface materials	
	level changes the use of landscaping for separation	
3J Bicycle and car		



3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	 1. For development in the following locations: • on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or • on land zoned, and sites within 400 metres of land zoned, B3 Commercial Core, B4 Mixed Use or equivalent in a nominated regional centre The minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less. The car parking needs for a development must be provided off street. 	Where a car share scheme operates locally, provide car share parking spaces within the development. Car share spaces, when provided, should be on site. Where less car parking is provided in a development, council should not provide on street resident parking permits.	N/A
3J-2 Parking and facilities are provided for other modes of transport		Conveniently located and sufficient numbers of parking spaces should be provided for motorbikes and scooters. Secure undercover bicycle parking should be provided that is easily accessible from both the public domain and common areas. Conveniently located charging stations are provided for electric vehicles, where desirable.	Yes ✓
3J-3 Car park design and access is safe and secure		Supporting facilities within car parks, including garbage, plant and switch rooms, storage areas and car wash bays can be accessed without crossing car parking spaces Direct, clearly visible and well-lit access should be provided into common circulation areas A clearly defined and visible lobby or waiting area should be provided to lifts and stairs For larger car parks, safe pedestrian access should be clearly defined and circulation areas have good lighting colour, line marking and/or bollards	Yes ✓ Access to basement parking is well defined and equipped with intercom system to enhance the security measures of the building. All common circulation areas are direct, clearly visible and well-lit access. A clearly defined and visible lobby areas are provided.



3J-4 Visual and environmental impacts of underground car parking are minimised	Excavation should be minimised through efficient car park layouts and ramp design Car parking layout should be well organised, using a logical, efficient structural grid and double loaded aisles Protrusion of car parks should not exceed 1m above ground level. Design solutions may include stepping car park levels or using split levels on sloping sites Natural ventilation should be provided to basement and sub-basement car parking areas Ventilation grills or screening devices for car parking openings should be integrated into the facade and landscape design	Yes ✓ Basements car park have been designed to maximise the use and layout in the most efficient way to minimise the amount of excavation.
3J-5 Visual and environmental impacts of on-grade car parking are minimised	On-grade car parking should be avoided Where on-grade car parking is unavoidable, the following design solutions are used: • parking is located on the side or rear of the lot away from the primary street frontage • cars are screened from view of streets, buildings, communal and private open space areas • safe and direct access to building entry points is provided • parking is incorporated into the landscape design of the site, by extending planting and materials into the car park space • stormwater run-off is managed appropriately from car parking surfaces • bio-swales, rain gardens or on site detention tanks are provided, where appropriate • light coloured paving materials or permeable paving systems are used and shade trees are planted between every 4-5 parking spaces to reduce increased surface temperatures from large areas of paving	N/A
3J-6 Visual and environmental impacts of above ground enclosed car parking are minimised	Exposed parking should not be located along primary street frontages Screening, landscaping and other design elements including public art should be used to integrate the above ground car parking with the facade. Design solutions may include:	N/A

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- car parking that is concealed behind the facade, with windows integrated into the overall facade design (approach should be limited to developments where a larger floor plate podium is suitable at lower levels)
- car parking that is 'wrapped' with other uses, such as retail, commercial or two storey Small Office/Home Office (SOHO) units along the street frontage (see figure 3J.9)

Positive street address and active frontages should be provided at ground level

4A Solar and daylight access

4A-1
To optimise the number of apartments receiving sunlight to habitable rooms,

primary windows and

private open space

- Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at midwinter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas
- In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at midwinter
- A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at midwinter

The design maximises north aspect and the number of single aspect south facing apartments is minimised

Single aspect, single storey apartments should have a northerly or easterly aspect

Living areas are best located to the north and service areas to the south and west of apartments

To optimise the direct sunlight to habitable rooms and balconies a number of the following design features are used:

- dual aspect apartments
- shallow apartment layouts
- two storey and mezzanine level apartments
- bay windows

To maximise the benefit to residents of direct sunlight within living rooms and private open spaces, a minimum of 1m2 of direct sunlight, measured at 1m above floor level, is achieved for at least 15 minutes

Achieving the design criteria may not be possible on some sites. This includes:

- where greater residential amenity can be achieved along a busy road or rail line by orientating the living rooms away from the noise source
- on south facing sloping sites

Yes ✓

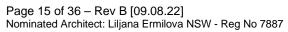
83.7% of the units are minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter.

2.5% of units are not receiving direct sunlight between 9 am and 3 pm at mid-winter.

	where significant views are oriented away from the desired aspect for direct sunlight Design drawings need to demonstrate how site constraints and orientation preclude meeting the design criteria and how the development meets the objective	
AA-2 Daylight access is maximised where sunlight is limited	Courtyards, skylights and high level windows (with sills of 1,500mm or greater) are used only as a secondary light source in habitable rooms Where courtyards are used: • use is restricted to kitchens, bathrooms and service areas • building services are concealed with appropriate detailing and materials to visible walls • courtyards are fully open to the sky • access is provided to the light well from a communal area for cleaning and maintenance • acoustic privacy, fire safety and minimum privacy separation distances (see section 3F Visual privacy) are achieved Opportunities for reflected light into apartments are optimised through: • reflective exterior surfaces on buildings opposite south facing windows • positioning windows to face other buildings or surfaces (on neighbouring sites or within the site) that will reflect light • integrating light shelves into the design • light coloured internal finishes	Yes✓
4A-3 Design incorporates shading and glare control, particularly for warmer months	A number of the following design features are used: • balconies or sun shading that extend far enough to shade summer sun, but allow winter sun to penetrate living areas • shading devices such as eaves, awnings, balconies, pergolas, external louvres and planting • horizontal shading to north facing windows • vertical shading to east and particularly west facing windows • operable shading to allow adjustment and choice • high performance glass that minimises external glare off windows, with consideration given to reduced tint	Yes BASIX certification shows that development complies with the thermal assessment for both heating and cooling targets.

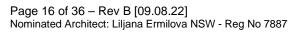


		glass or glass with a reflectance level below 20%	
		(reflective films are avoided)	
4B Natural ventilation	on		
4B-1 All habitable rooms are naturally ventilated		The building's orientation maximises capture and use of prevailing breezes for natural ventilation in habitable rooms	Yes✓
naturally ventilated		Depths of habitable rooms support natural ventilation	All habitable rooms are natural ventilated.
		The area of unobstructed window openings should be equal to at least 5% of the floor area served	
		Light wells are not the primary air source for habitable rooms	
		Doors and openable windows maximise natural ventilation opportunities by using the following design solutions:	
		 adjustable windows with large effective openable areas a variety of window types that provide safety and flexibility such as awnings and louvres windows which the occupants can reconfigure to funnel breezes into the apartment such as vertical louvres, casement windows and externally opening doors 	
4B-2 The layout and design of single aspect apartments		Apartment depths are limited to maximise ventilation and airflow	Yes✓
maximises natural ventilation		Natural ventilation to single aspect apartments is achieved with the following design solutions: • primary windows are augmented with plenums and light wells (generally not suitable for cross ventilation) • stack effect ventilation / solar chimneys or similar to naturally ventilate internal building areas or rooms such as bathrooms and laundries • courtyards or building indentations have a width to depth ratio of 2:1 or 3:1 to ensure effective air circulation and avoid trapped smells	Kitchens in single aspect apartments are located in the 8 m zone from the open balconies and all kitchens are open plan design.
4B-3 The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents	At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed	The building should include dual aspect apartments, cross through apartments and corner apartments and limit apartment depths In cross-through apartments external window and door opening sizes/areas on one side of an apartment (inlet side) are approximately equal to the external window and door opening sizes/areas on the other side of the apartment (outlet side)	Yes ✓ 76% of the units are natural cross ventilated.





	cross-throi	oth of a cross-over or igh apartment does not m, measured glass line to	Apartments are designed to minimise the number of corners, doors and rooms that might obstruct airflow Apartment depths, combined with appropriate ceiling heights, maximise cross ventilation and airflow	
4C Ceiling heights				
4C-1 Ceiling height achieves sufficient natural ventilation		from finished floor level to iling level, minimum yhts are:	Ceiling height can accommodate use of ceiling fans for cooling and heat distribution	Yes ✓
and daylight access	Minimum ceiling height for apartment and mixed use buildings			All habitable rooms are 2.7m ceiling height.
	Habitable rooms	2.7m		
	Non-habitable For 2 storey	2.4m 2.7m for main living		
	apartments	area floor		
		2.4m for second floor, where its area does not exceed 50% of the apartment area		
	Attic spaces	1.8m at edge of room with a 30 degree minimum ceiling slope		
	If located in mixed used areas	3.3m for ground and first floor to promote future flexibility of use		
	These minimum ceilings if desire	s do not preclude higher d		
4C-2 Ceiling height increases the sense of space in apartments and provides for well-proportioned rooms			A number of the following design solutions can be used: • the hierarchy of rooms in an apartment is defined using changes in ceiling heights and alternatives such as raked or curved ceilings, or double height spaces • well-proportioned rooms are provided, for example, smaller rooms feel larger and more spacious with higher ceilings	Yes✓



4C-3 Ceiling heights contribute to the flexibility of building use over the life of the building		Ceiling heights are maximised in habitable rooms by ensuring that bulkheads do not intrude. The stacking of service rooms from floor to floor and coordination of bulkhead location above non-habitable areas, such as robes or storage, can assist Ceiling heights of lower level apartments in centres should be greater than the minimum required by the design criteria allowing flexibility and conversion to non-residential uses	Yes✓
4D Apartment size	and layout		
4D-1 The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity	1. Apartments are required to have following minimum internal areas Apartment type Minimum internal studio 35m² 1 bedroom 50m² 2 bedroom 70m² 3 bedroom 90m² The minimum internal areas incluonly one bathroom. Additional bathrooms increase the minimum internal area by 5m² each A fourth bedroom and further additional bedrooms increase the minimum internal area by 12m² expression. Every habitable room must have window in an external wall with a total minimum glass area of not letter than 10% of the floor area of the room. Daylight and air may not be borrowed from other room	circulation space in larger apartments (such as hallway or entry space) A window should be visible from any point in a habitable room Where minimum areas or room dimensions are not met apartments need to demonstrate that they are well designed and demonstrate the usability and functionality of the space with realistically scaled furniture layouts and circulation areas. These circumstances would be assessed on their merits	All units are designed to accomplish the requirement of minimum area according to the table area. There are no kitchens that is located in a main circulation. All windows in habitable rooms are visible from any point of the room.

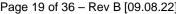
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4D-2 Environmental performance of the apartment is maximised	 Habitable room depths are limited to a maximum of 2.5 x the ceiling height In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window 	Greater than minimum ceiling heights can allow for proportional increases in room depth up to the permitted maximum depths All living areas and bedrooms should be located on the external face of the building Where possible: • bathrooms and laundries should have an external openable window • main living spaces should be oriented toward the primary outlook and aspect and away from noise sources	Yes✓
4D-3 Apartment layouts are designed to accommodate a variety of household activities and needs	 Master bedrooms have a minimum area of 10m2 and other bedrooms 9m2 (excluding wardrobe space) Bedrooms have a minimum dimension of 3m (excluding wardrobe space) Living rooms or combined living/dining rooms have a minimum width of: 3.6m for studio and 1 bedroom apartments 4m for 2 and 3 bedroom apartments The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts 	Access to bedrooms, bathrooms and laundries is separated from living areas minimising direct openings between living and service areas All bedrooms allow a minimum length of 1.5m for robes The main bedroom of an apartment or a studio apartment should be provided with a wardrobe of a minimum 1.8m long, 0.6m deep and 2.1m high Apartment layouts allow flexibility over time, design solutions may include: • dimensions that facilitate a variety of furniture arrangements and removal • spaces for a range of activities and privacy levels between different spaces within the apartment • dual master apartments • dual key apartments Note: dual key apartments which are separate but on the same title are regarded as two sole occupancy units for the purposes of the Building Code of Australia and for calculating the mix of apartments • room sizes and proportions or open plans (rectangular spaces (2:3) are more easily furnished than square spaces (1:1)) • efficient planning of circulation by stairs, corridors and through rooms to maximise the amount of usable floor space in rooms	Yes ✓ All bedrooms have the minimum require sizes.



4E-1					V. (
Apartments provide	Dwelling type	Minimum	Minimum	Increased communal open space should be provided where the number or size of balconies are reduced	Yes ✓
appropriately sized private	3 31	area	depth	Storage areas on balconies is additional to the minimum	
open space and balconies to enhance				balcony size	All minimum sizes for open space and balconies are provided according to the table areas.
residential amenity	Studio	4m²	-	Balcony use may be limited in some proposals by:	are provided according to the table areas.
	apartments			consistently high wind speeds at 10 storeys and above	
	1 bedroom	8m²	2m	close proximity to road, rail or other noise sources	
	apartments			exposure to significant levels of aircraft noise heritage and adaptive reuse of existing buildings	
	2 bedroom	10m²	2m	In these situations, juliet balconies, operable walls,	
	apartments			enclosed wintergardens or bay windows may be	
	3+ bedroom	12m²	2.4m	appropriate, and other amenity benefits for occupants	
	apartments 1. All apartmer	nts are requir	ed to have	should also be provided in the apartments or in the	
	primary balo	onies as foll	OWS:	development or both.	
				Natural ventilation also needs to be demonstrated	
	The minimu				
	counted as of balcony area		o tne		
	For apartme a podium or				
	private open				N/A
	instead of a	balcony. It n	nust have a		1977
	minimum are minimum de		and a		
	minima de	pur or om			
4E-2				Primary open space and balconies should be located	Yes✓
Primary private open space and balconies are				adjacent to the living room, dining room or kitchen to	
appropriately				extend the living space	All main balconies are adjacent to the living room.
located to enhance				Private open spaces and balconies predominantly face north, east or west	,
liveability for residents					
				Primary open space and balconies should be orientated with the longer side facing outwards or be open to the sky	
				to optimise daylight access into adjacent rooms	
4E-3				Solid, partially solid or transparent fences and balustrades	Yes√
Private open space and				are selected to respond to the location.	
balcony design is integrated into and contributes to the				They are designed to allow views and passive surveillance	
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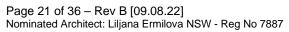
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overall architectural form and detail of the building		for a range of uses on the balcony. Solid and partially solid balustrades are preferred	All private open spaces and balconies are designed and completely integrated into the overall building
		Full width full height glass balustrades alone are generally not desirable	design.
		Projecting balconies should be integrated into the building design and the design of soffits considered	
		Operable screens, shutters, hoods and pergolas are used to control sunlight and wind	
		Balustrades are set back from the building or balcony edge where overlooking or safety is an issue	
		Downpipes and balcony drainage are integrated with the overall facade and building design	
		Air-conditioning units should be located on roofs, in basements, or fully integrated into the building design	
		Where clothes drying, storage or air conditioning units are located on balconies, they should be screened and integrated in the building design	
		Ceilings of apartments below terraces should be insulated to avoid heat loss	
		Water and gas outlets should be provided for primary balconies and private open space	
4E-4 Private open space and		Changes in ground levels or landscaping are minimised	Yes ✓
balcony design maximises safety		Design and detailing of balconies avoids opportunities for climbing and falls	
4F Common circula	tion and spaces		
4F-1 Common circulation spaces achieve good amenity and	The maximum number of apartments off a circulation core on a single level is eight	Greater than minimum requirements for corridor widths and/or ceiling heights allow comfortable movement and access particularly in entry lobbies, outside lifts and at	Yes✓
properly service the number	2. For buildings of 10 storeys and over,	apartment entry doors	There are central lift cores in the development and
of apartments	the maximum number of apartments sharing a single lift is 40	Daylight and natural ventilation should be provided to all common circulation spaces that are above ground	maximum of 5 units per core at each level. This satisfies the criteria of 12 units per core maximum.
		Windows should be provided in common circulation spaces and should be adjacent to the stair or lift core or at the ends of corridors	Overall, all residential cores serve 43 apartments over 11 storeys of apartment.



	Longer corridors greater than 12m in length from the lift core should be articulated. Design solutions may include: • a series of foyer areas with windows and spaces for seating • wider areas at apartment entry doors and varied ceiling	
	heights Design common circulation spaces to maximise opportunities for dual aspect apartments, including multiple core apartment buildings and cross over apartments	
	Achieving the design criteria for the number of apartments off a circulation core may not be possible.	
	Where a development is unable to achieve the design criteria, a high level of amenity for common lobbies, corridors and apartments should be demonstrated, including:	
	sunlight and natural cross ventilation in apartments access to ample daylight and natural ventilation in common circulation spaces common areas for seating and gathering generous corridors with greater than minimum ceiling heights other innovative design solutions that provide high levels of amenity	
	Where design criteria 1 is not achieved, no more than 12 apartments should be provided off a circulation core on a single level	
	Primary living room or bedroom windows should not open directly onto common circulation spaces, whether open or enclosed. Visual and acoustic privacy from common circulation spaces to any other rooms should be carefully controlled	
4F-2 Common circulation spaces promote safety and provide for social interaction between residents	Direct and legible access should be provided between vertical circulation points and apartment entries by minimising corridor or gallery length to give short, straight, clear sight lines	Yes ✓ All common circulations are direct and legible between vertical circulation points and apartment
	Tight corners and spaces are avoided Circulation spaces should be well lit at night	entries.
	Legible signage should be provided for apartment numbers, common areas and general wayfinding	





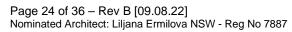
		Incidental spaces, for example space for seating in a corridor, at a stair landing, or near a window are provided	
		In larger developments, community rooms for activities such as owners corporation meetings or resident use should be provided and are ideally co-located with communal open space	
		Where external galleries are provided, they are more open than closed above the balustrade along their length	
4G Storage			
4G-1 Adequate, well designed storage is provided in each apartment	In addition to storage in kitchens, bathrooms and bedrooms, the following storage is provided: Dwelling type Storage size volume Studio apartments 4m3 1 bedroom apartments 6m3 2 bedroom apartments 8m3 3+ bedroom apartments 10m3 At least 50% of the required storage is to be located within the apartment	Storage is accessible from either circulation or living areas Storage provided on balconies (in addition to the minimum balcony size) is integrated into the balcony design, weather proof and screened from view from the street Left over space such as under stairs is used for storage	Yes ✓ All units satisfy the amount of storage area in the development and are located within both apartment and basement levels.
4G-2 Additional storage is conveniently located, accessible and nominated for individual apartments		Storage not located in apartments is secure and clearly allocated to specific apartments Storage is provided for larger and less frequently accessed items Storage space in internal or basement car parks is provided at the rear or side of car spaces or in cages so that allocated car parking remains accessible If communal storage rooms are provided they should be accessible from common circulation areas of the building Storage not located in an apartment is integrated into the overall building design and is not visible from the public domain	Yes ✓ Secured storages are also provided in the basement and are easily accessible.



4H-1	
Noise transfer is minimised through the siting of buildings and building	Adequate building separation is provided within the development and from neighbouring buildings/adjacent uses (see also section 2F Building separation and section 3F Visual privacy) Yes ✓
layout	Window and door openings are generally orientated away from noise sources
	Noisy areas within buildings including building entries and corridors should be located next to or above each other and quieter areas next to or above quieter areas
	Storage, circulation areas and non-habitable rooms should be located to buffer noise from external sources
	The number of party walls (walls shared with other apartments) are limited and are appropriately insulated
	Noise sources such as garage doors, driveways, service areas, plant rooms, building services, mechanical equipment, active communal open spaces and circulation areas should be located at least 3m away from bedrooms
4H-2 Noise impacts are mitigated within apartments through layout and acoustic treatments	Internal apartment layout separates noisy spaces from quiet spaces, using a number of the following design solutions: • rooms with similar noise requirements are grouped together • doors separate different use zones • wardrobes in bedrooms are co-located to act as sound buffers Yes ✓ Rooms are separated from the social area inside the unit providing an acoustic amenity.
	Where physical separation cannot be achieved noise conflicts are resolved using the following design solutions: • double or acoustic glazing • acoustic seals • use of materials with low noise penetration properties • continuous walls to ground level courtyards where they do not conflict with streetscape or other amenity requirements



construction and choice of	AJ-1 In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	To minimise impacts the following design solutions may be used: • physical separation between buildings and the noise or pollution source • residential uses are located perpendicular to the noise source and where possible buffered by other uses • non-residential buildings are sited to be parallel with the noise source to provide a continuous building that shields residential uses and communal open spaces • Non-residential uses are located at lower levels vertically separating the residential component from the noise or pollution source. Setbacks to the underside of residential floor levels should increase relative to traffic volumes and other noise sources • Buildings should respond to both solar access and noise. Where solar access is away from the noise source, non-habitable rooms can provide a buffer • where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferable • landscape design reduces the perception of noise and acts as a filter for air pollution generated by traffic and industry Achieving the design criteria in this Apartment Design Guide may not be possible in some situations due to noise and pollution. Where developments are unable to achieve	Yes✓
Appropriate noise shielding or attenuation techniques for the building design, construction and choice of		following areas: • solar and daylight access • private open space and balconies	
materials are used to mitigate noise transmission enclosed balconies (wintergardens) • using materials with mass and/or sound insulation or absorption properties e.g. solid balcony balustrades, external screens and soffits	Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to	 limiting the number and size of openings facing noise sources providing seals to prevent noise transfer through gaps using double or acoustic glazing, acoustic louvres or enclosed balconies (wintergardens) using materials with mass and/or sound insulation or absorption properties e.g. solid balcony balustrades, 	Yes ✓ Complying as per Acoustic Engineer Report.





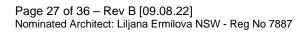
4K-1 A range of apartment types and sizes is provided to cater for different household types now and into the future		A variety of apartment types is provided The apartment mix is appropriate, taking into consideration: • the distance to public transport, employment and education centres • the current market demands and projected future demographic trends • the demand for social and affordable housing • different cultural and socioeconomic groups Flexible apartment configurations are provided to support diverse household types and stages of life including single person households, families, multi-generational families and group households	Yes ✓ This project has been considered to have a unit mix as per market research.
4K-2 The apartment mix is distributed to suitable locations within the building		Different apartment types are located to achieve successful facade composition and to optimise solar access (see figure 4K.3) Larger apartment types are located on the ground or roof level where there is potential for more open space and on corners where more building frontage is available	Yes ✓ N/A
4L Ground floor apa	artments		
4L-1 Street frontage activity is maximised where ground floor apartments are located		Direct street access should be provided to ground floor apartments Activity is achieved through front gardens, terraces and the facade of the building. Design solutions may include: • both street, foyer and other common internal circulation entrances to ground floor apartments • private open space is next to the street • doors and windows face the street	N/A
		Retail or home office spaces should be located along street frontages	
		Ground floor apartment layouts support small office home office (SOHO) use to provide future opportunities for conversion into commercial or retail areas. In these cases provide higher floor to ceiling heights and ground floor amenities for easy conversion	
4L-2		Privacy and safety should be provided without obstructing casual surveillance. Design solutions may include:	Yes ✓



Design of ground floor apartments delivers amenity and safety for residents	elevation of private gardens and terraces above the street level by 1-1.5m landscaping and private courtyards window sill heights that minimise sight lines into apartments integrating balustrades, safety bars or screens with the exterior design Solar access should be maximised through: high ceilings and tall windows trees and shrubs that allow solar access in winter and shade in summer	N/A
4M Facades		
4M-1 Building facades provide visual interest along the street while respecting the character of the local area	Design solutions for front building facades may include: • a composition of varied building elements • a defined base, middle and top of buildings • revealing and concealing certain elements • changes in texture, material, detail and colour to modithe prominence of elements Building services should be integrated within the overall facade Building facades should be well resolved with an appropriate scale and proportion to the streetscape and human scale. Design solutions may include: • well composed horizontal and vertical elements • variation in floor heights to enhance the human scale • elements that are proportional and arranged in patterr • public artwork or treatments to exterior blank walls • grouping of floors or elements such as balconies and windows on taller buildings Building facades relate to key datum lines of adjacent buildings through upper level setbacks, parapets, cornices awnings or colonnade heights Shadow is created on the facade throughout the day with building articulation, balconies and deeper window reveals	In a clearly visual way separates the base building with upper level keeping an appropriate scale to the building. It reinforces the edge of Copeland Street + Moore Street and have a variety of colours that minimises the impact on the street. With its natural set back from the main road of Copeland Street / Moore Street, and the proposed footpath the building sits harmonically in its surrounding.
4M-2 Building functions are expressed by the facade	Building entries should be clearly defined	Yes ✓



	Important corners are given visual prominence through a change in articulation, materials or colour, roof expression or changes in height The apartment layout should be expressed externally through facade features such as party walls and floor slabs	The building is completely defined by the design, and the apartments are totally expressed on the face of the building, other showing the slabs, balconies and setbacks for rooms opening.
4N Roof design		
4N-1 Roof treatments are integrated into the building design and positively respond to the street	Roof design relates to the street. Design solutions may include: • special roof features and strong corners • use of skillion or very low pitch hipped roofs • breaking down the massing of the roof by using smaller elements to avoid bulk • using materials or a pitched form complementary to adjacent buildings Roof treatments should be integrated with the building design. Design solutions may include: • roof design proportionate to the overall building size, scale and form • roof materials compliment the building • service elements are integrated	Yes ✓ Roof design and treatment is completely integrated in the overall design of the building.
4N-2 Opportunities to use roof space for residential accommodation and open space are maximised	Habitable roof space should be provided with good levels of amenity. Design solutions may include: • penthouse apartments • dormer or clerestory windows • openable skylights Open space is provided on roof tops subject to acceptable visual and acoustic privacy, comfort levels, safety and security considerations	Yes Communal area is allocated on the roof terrace space. The said area is setback from the street with substantial non-trafficable roof and perimeter planters to soften the visual privacy and adding levels of safety to users.
4N-3 Roof design incorporates sustainability features	Roof design maximises solar access to apartments during winter and provides shade during summer. Design solutions may include: • the roof lifts to the north • eaves and overhangs shade walls and windows from summer sun	Yes ✓ Location of communal open space on the roof terrace provides opportunity for plentiful solar access.



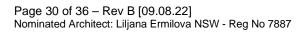


		Skylights and ventilation systems should be integrated into the roof design	
40 Landscape desi	gn		
40-1 Landscape design is viable and sustainable		Landscape design should be environmentally sustainable and can enhance environmental performance by incorporating: • diverse and appropriate planting • bio-filtration gardens • appropriately planted shading trees • areas for residents to plant vegetables and herbs • composting • green roofs or walls Ongoing maintenance plans should be prepared Microclimate is enhanced by: • appropriately scaled trees near the eastern and western elevations for shade • a balance of evergreen and deciduous trees to provide shading in summer and sunlight access in winter • shade structures such as pergolas for balconies and courtyards Tree and shrub selection considers size at maturity and the potential for roots to compete Recommended tree planting in deep soil zones:	The Landscape design and the species that have been chosen by the nominated Landscape Architect are all according to the requirements from the local council in order to be the most appropriate to the environment and sustainability. An adequate area on the roof is designated to planters in the communal area while on the ground floor facing Copeland Street and Moore Street, the walls are setback approximately 4.5m from the northern boundary and 8m from western boundary to cater for public footpath and landscape area.

	Site area	a Recommended tree planting
	Up to 850r	
	Between 1,500m ²	1 large tree or 2 medium trees per 90m² of deep soil zone
	Greater th 1,500m ²	nan 1 large tree or 2 medium trees per 80m² of deep soil zone
40-2 Landscape design contributes to the streetscape and amenity	including: • changes • views • significan outcrops Significan • tree prot • appropris	nt landscape features including trees and rock tlandscape features should be protected by: ection zones ate signage and fencing during construction ted should be endemic to the region and reflect
4P Planting on structure		
4P-1 Appropriate soil profiles are		re reinforced for additional saturated soil
provided	include: • modifyin mix and • free drai • tree ancl Minimum so	I standards for plant sizes should be provided
4P-2 Plant growth is optimised with appropriate selection and maintenance	Plants are si • drought • seasona	te with ADG Table 5 p.116 uited to site conditions, considerations include: and wind tolerance I changes in solar access substrate depths for a diverse range of plants



		A landscape maintenance plan is prepared Irrigation and drainage systems respond to: • changing site conditions • soil profile and the planting regime	
		 whether rainwater, stormwater or recycled grey water is used 	
4P-3 Planting on structures contributes to the quality and amenity of communal and public open spaces		Building design incorporates opportunities for planting on structures. Design solutions may include: • green walls with specialised lighting for indoor green walls • wall design that incorporates planting • green roofs, particularly where roofs are visible from the public domain • planter boxes	Yes ✓ Planters are feature on ground level and roof terrace communal open space and are recessed from the façade to soften the visual impact.
		Note: structures designed to accommodate green walls should be integrated into the building facade and consider the ability of the facade to change over time	
4Q Universal design	1		
4Q-1 Universal design features are included in apartment design to promote flexible housing for all community members		Developments achieve a benchmark of 20% of the total apartments incorporating the Livable Housing Guideline's silver level universal design features	Yes ✓ Building achieves 10% of liveable units as per Accessibility consultant report.
AQ-2 A variety of apartments with adaptable designs are provided		Adaptable housing should be provided in accordance with the relevant council policy Design solutions for adaptable apartments include: • convenient access to communal and public areas • high level of solar access • minimal structural change and residential amenity loss when adapted • larger car parking spaces for accessibility • parking titled separately from apartments or shared car parking arrangements	Yes ✓ Building achieves the number required for adaptable units as per Accessibility consultant report.
4Q-3 Apartment layouts are flexible and accommodate a range of lifestyle needs		Apartment design incorporates flexible design solutions which may include: • rooms with multiple functions	Yes ✓





	 dual master bedroom apartments with separate bathrooms larger apartments with various living space options open plan 'loft' style apartments with only a fixed kitchen, laundry and bathroom 	Design provides a variety of sizes of apartments and all the social areas are open plans.
4R Adaptive reuse		
4R-1 New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place	Design solutions may include: • new elements to align with the existing building • additions that complement the existing character, siting, scale, proportion, pattern, form and detailing • use of contemporary and complementary materials, finishes, textures and colours	Yes ✓ N/A
	Additions to heritage items should be clearly identifiable from the original building New additions allow for the interpretation and future evolution of the building	
4R-2 Adapted buildings provide residential amenity while not precluding future adaptive reuse	Design features should be incorporated sensitively into adapted buildings to make up for any physical limitations, to ensure residential amenity is achieved. Design solutions may include: • generously sized voids in deeper buildings • alternative apartment types when orientation is poor • using additions to expand the existing building envelope	Yes ✓ N/A
	Some proposals that adapt existing buildings may not be able to achieve all of the design criteria in this Apartment Design Guide. Where developments are unable to achieve the design criteria, alternatives could be considered in the following areas: • where there are existing higher ceilings, depths of habitable rooms could increase subject to demonstrating access to natural ventilation, cross ventilation (when applicable) and solar and daylight access • alternatives to providing deep soil where less than the minimum requirement is currently available on the site	

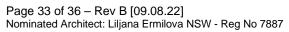


4S Mixed use	building and visual separation – subject demonstrating alternative design approaches achieving privacy common circulation car parking alternative approaches to private open balconies	paches to	
4S-1 Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	Mixed use development should be concent public transport and centres Mixed use developments positively contributed domain. Design solutions may include: • development addresses the street • active frontages are provided • diverse activities and uses • avoiding blank walls at the ground level live/work apartments on the ground floothan commercial	ute to the public	
AS-2 Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	Residential circulation areas should be cle Design solutions may include: • residential entries are separated from entries and directly accessible from the • commercial service areas are separate residential components • residential car parking and communal is separated or secured • security at entries and safe pedestrian provided • concealment opportunities are avoided Landscaped communal open space should podium or roof levels	The design as a whole is fully integrated with residential uses. Communal open space is located on the ground level for the enjoyment of the occupiers in the development.	
4T Awnings and signage			
AT-1 Awnings are well located and complement and integrate with the building design	Awnings should be located along streets we pedestrian activity and active frontages. A number of the following design solutions • continuous awnings are maintained an areas with an existing pattern	are used:	

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4T-2 Signage responds to the context and desired streetscape character		 height, depth, material and form complements the existing street character protection from the sun and rain is provided awnings are wrapped around the secondary frontages of corner sites awnings are retractable in areas without an established pattern Awnings should be located over building entries for building address and public domain amenity Awnings relate to residential windows, balconies, street tree planting, power poles and street infrastructure Gutters and down pipes should be integrated and concealed Lighting under awnings should be provided for pedestrian safety Signage should be integrated into the building design and respond to the scale, proportion and detailing of the development Legible and discrete way finding should be provided for 	Continuous awning provided to complement the façade portal proposed along Copeland Street and Moore Street.
411 =		larger developments Signage is limited to being on and below awnings and a single facade sign on the primary street frontage	
4U Energy efficience	<i>y</i>		
4U-1 Development incorporates passive environmental design		Adequate natural light is provided to habitable rooms Well located, screened outdoor areas should be provided for clothes drying	Yes ✓ Every habitable room has a natural light source.
4U-2 Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer		A number of the following design solutions are used: the use of smart glass or other technologies on north and west elevations thermal mass in the floors and walls of north facing rooms is maximised polished concrete floors, tiles or timber rather than carpet insulated roofs, walls and floors and seals on window and door openings overhangs and shading devices such as awnings, blinds and screens	Yes ✓ As per Basix consultant report.





Provision of consolidated heating and cooling infrast should be located in a centralised location (e.g. the basement)	ructure		
 rooms with similar usage are grouped together natural cross ventilation for apartments is optimis natural ventilation is provided to all habitable roo 	sed ms Designed accordingly to the design guidance.		
ent and conservation			
Water efficient fittings, appliances and wastewater reshould be incorporated	euse Yes ✓		
Apartments should be individually metered Rainwater should be collected, stored and reused or	As per Basix and storm water consultant report.		
suitably qualified professional			
 runoff is collected from roofs and balconies in water tanks and plumbed into toilets, laundry and irrigation porous and open paving materials is maximised on site stormwater and infiltration, including bio- 	ater attion		
Detention tanks should be located under paved area driveways or in basement car parks	s, Yes ✓		
On large sites parks or open spaces are designed to provide temporary on site detention basins	As per stormwater consultant report.		
4W Waste management			
located discreetly away from the front of the develop			
Waste and recycling storage areas should be well ventilated	Waste management report is provided.		
	basement) A number of the following design solutions are used: • rooms with similar usage are grouped together • natural cross ventilation for apartments is optimis • natural ventilation is provided to all habitable roo and as many non-habitable rooms, common are circulation spaces as possible Water efficient fittings, appliances and wastewater re should be incorporated Apartments should be individually metered Rainwater should be collected, stored and reused or Drought tolerant, low water use plants should be use within landscaped areas Water sensitive urban design systems are designed suitably qualified professional A number of the following design solutions are used: • runoff is collected from roofs and balconies in we tanks and plumbed into toilets, laundry and irriga • porous and open paving materials is maximised • on site stormwater and infiltration, including bio- retention systems such as rain gardens or street pits Detention tanks should be located under paved area driveways or in basement car parks On large sites parks or open spaces are designed to provide temporary on site detention basins		

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		·	
		Circulation design allows bins to be easily manoeuvred between storage and collection points	
		Temporary storage should be provided for large bulk items such as mattresses	
		A waste management plan should be prepared	
4W-2 Domestic waste is minimised by providing safe		All dwellings should have a waste and recycling cupboard or temporary storage area of sufficient size to hold two days' worth of waste and recycling	Yes ✓
and convenient source separation and recycling		Communal waste and recycling rooms are in convenient and accessible locations related to each vertical core	Designed accordingly to the design guidance.
		For mixed use developments, residential waste and recycling storage areas and access should be separate and secure from other uses	
		Alternative waste disposal methods such as composting should be provided	
0/ 5 // //			
4X Building mainte	nance		
4X-1		A number of the following design solutions are used:	Yes ✓
Building design detail provides protection from weathering		 roof overhangs to protect walls hoods over windows and doors to protect openings detailing horizontal edges with drip lines to avoid staining of surfaces methods to eliminate or reduce planter box leaching 	Designed accordingly to the design guidance.
		appropriate design and material selection for hostile Locations	
4X-2 Systems and access enable ease of maintenance		Window design enables cleaning from the inside of the building	Yes ✓
ease of maintenance		Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade	Designed accordingly to the design guidance.
		Design solutions do not require external scaffolding for	
		maintenance access	
		maintenance access Manually operated systems such as blinds, sunshades and curtains are used in preference to mechanical systems	



	Centralised maintenance, services and storage should be provided for communal open space areas within the building	
4X-3 Material selection reduces ongoing maintenance costs	A number of the following design solutions are used: • sensors to control artificial lighting in common circulation and spaces • natural materials that weather well and improve with time such as face brickwork • easily cleaned surfaces that are graffiti resistant • robust and durable materials and finishes are used in locations which receive heavy wear and tear, such as common circulation areas and lift interiors	Yes ✓ Designed accordingly to the design guidance.