ADG Assessment

ADG Ref Item description	Proposal	Compliance
PART 3 Siting the development		
Objective 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	The proposal has provided a detailed Site Analysis which demonstrates good design decisions have been made in relation to the site-specific context.	Yes
Design guidance Each element in the Site Analysis Checklist should be addressed (see Appendix 1)		
3B Orientation		
Objective 3B-1		
Building types and layouts respond to the streetscape and site while optimising solar access within the development	Provided.	Yes
Design guidance Buildings along the street frontage define the street, by facing it and incorporating direct access from the street (see figure 3B.1)	Incorporated via /lift entrance level and residential lobby activation which has direct access.	
Where the street frontage is to the east or west, rear buildings should be orientated to the north	The proposal has buildings that are orientated to the street frontage with parking/pedestrian access and provides compliant separation to	
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 (see figure 3B.2)	adjoining future development with overshadowing minimised where possible.	
Objective 3B-2		
Overshadowing of neighbouring properties is minimised during mid-winter	Overshadowing minimised during mid-winter through minimising east/west building depth	Yes
Design guidance	where possible.	
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%		
If the proposal will significantly reduce the solar access of neighbours, building separation should be increased beyond	The proposal has appropriate building separation distances to all relevant boundaries with DCP compliant setbacks and would provide a reasonable solar access outcome.	

ADG Ref Item description	Proposal	Compliance
minimums contained in section 3F Visual privacy		
Overshadowing should be minimised to the south or down-hill by increased upper level setbacks	Overshadowing to adjoining developments are minimised where possible.	
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	Orientation reasonable in context of site.	
A minimum of 4 hours of solar access should be retained to solar collectors on neighbouring buildings	Neighbouring buildings to be redeveloped into the future	
3C Public domain interface		
Objective 3C-1 Transition between private and public domain is achieved without compromising safety and security	Provided.	Yes
Design guidance	In this instance street-level activation to street	
Terraces, balconies and courtyard apartments should have direct street entry, where appropriate	frontage.	
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 (see figure 3C.1)	Changes in levels appropriately managed to achieve relevant outcomes.	
Upper level balconies and windows should overlook the public domain	Provided.	
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	Satisfactory on merit.	
Length of solid walls should be limited along street frontages	Appropriately limited and broken up by openings for stairs, landscaping and driveway access.	
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	Activated entries/lobbies would allow for active uses within buildings setback areas.	
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 number of the following design solutions:	Achieved	

ADG Ref Item description	Proposal	Compliance
architectural detailing	·	•
changes in materials		
plant species colours		
33,0413		
Opportunities for people to be concealed should be minimised	Achieved	
Objective 3C-2		Yes
Amenity of the public domain is retained and enhanced	Satisfactory	
Design guidance		
Planting softens the edges of any raised terraces to the street, for example above subbasement car parking	Provided.	
Mailboxes should be located in lobbies,	Mailbox location conditioned by police comments	
perpendicular to the street alignment or integrated into front fences where individual street entries are provided	to be integrated into design.	
The visual prominence of underground car	Achieved where possible.	
park vents should be minimised and located at a low level where possible	·	
Substations, pump rooms, garbage storage areas and other service requirements should be located in basement car parks or out of view	Such areas appropriately designed in this instance	
Ramping for accessibility should be minimised by building entry location and setting ground floor levels in relation to footpath levels	Ramping minimised where possible	
Durable, graffiti resistant and easily cleanable materials should be used	Satisfactory.	
Where development adjoins public parks, open space or bushland, the design positively addresses this interface and uses a number of the following design solutions:	Achieved	
 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	Appropriately integrated/treated	
3D Communal and public open space	Appropriate common open space areas provided throughout the development where possible	

ADG Ref Item description	Proposal	Compliance
Objective 3D-1	Achieved – 28%	Yes
An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping		
Design criteria		
Communal open space has a minimum area equal to 25% of the site (see figure 3D.3)		
Developments achieve a minimum 2. of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9 am and 3 pm on 21 June (mid-winter)	Achieved	
Design guidance		
Communal open space should be consolidated into a well-designed, easily identified and usable area	Achieved	
Communal open space should have a minimum dimension of 3m, and larger developments should consider greater dimensions	The proposal provides for greater dimensions than the ADG minimum.	
Communal open space should be co-located with deep soil areas	Green spine provided on ground level	
Direct, equitable access should be provided to communal open space areas from common circulation areas, entries and lobbies	Provided.	
Where communal open space cannot be provided at ground level, it should be provided on a podium or roof	See above	
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:		
. 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		
Objective 3D-2		
Communal open space is designed to allow for a range of activities, respond to site conditions and be attractive and inviting	The proposal provides high quality facilities, which would promote usage.	Yes
Design guidance		

Facilities are provided within communal open spaces and common spaces for a range of age groups (see also 4F 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 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		
Visual impacts of services should be minimised, including location of ventilation duct outlets from basement car parks, electrical substations and detention tanks		
Objective 3D-3		
Communal open space is designed to maximise safety	The proposed communal open space would be secure for residents	Yes
Design guidance 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 Communal open space should be well lit		
Where communal open space/facilities are provided for children and young people they are safe and contained		
3D Communal and public open space		
Objective 3D-4		
Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood	The proposal does seek to provide for public 9m wide pedestrian link.	Yes
Design guidance 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		

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		
Deep soil zones provide areas on the site that allow for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality.	The proposal provides for high quality deep soil zones where possible	Yes
Design criteria	Approx. 23%	Yes
Deep soil zones are to meet the following minimum requirements:	- Αρβίολ. 2070	103
Site area Minimum Deep soil zone dimensions (% of site area) less than - 7%		
650m2 - 3m		
1,500m2 greater than 6m		
1,500m2 greater than 6m		
1,500m2 with significant existing tree		
cover		
Design guidance	Achieved - see above	Yes
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 Deep soil zones should be located to retain existing significant trees and to allow for the development of healthy root systems,	The proposed landscaping to establish and strengthen the deep soil zones for long term health.	
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 co-location with other deep soil areas on adjacent sites to create larger contiguous areas of deep soil		
41040 01 400p 0011		

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	Achieved	
3F Visual privacy		
Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy	Provided	Yes

Design criteria

1. 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 Nonand balconies habitable rooms

up to 12m 6m 3m

(4 storeys)

up to 25m 9m 4.5m

(5-8 storeys)

over 25m 12m 6m

Design guidance

(9+ storeys)

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 (see also section 3B Orientation) on sloping sites, apartments on different levels have appropriate visual separation distances (see figure 3F.4)

Apartment buildings should have an increased separation distance of 3m (in addition to the requirements set out in 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 (figure 3F.5)

Direct lines of sight should be avoided for windows and balconies across corners

No separation is required between blank walls

24m building separation in green spine area

Achieved to northern boundary

Achieved internally within the development site where an appropriate defensive design approach had been adopted to achieve satisfactory privacy levels between buildings

Satisfactory for the reasons provided above

N/A

Satisfactory.

N/A

Avoided where possible

Provided.

Objective 3F-2		
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	Appropriately considered in design.	Yes
Design guidance		
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:	Communal open space is appropriately separated	
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	Apartments service areas maximise available	
access and other open circulation space by the apartment's service areas	separation.	
Balconies and private terraces should be located in front of living rooms to increase internal privacy	Balconies and terraces located adjacent to living rooms.	
Windows should be offset from the windows of adjacent buildings	The proposal provides suitable privacy screening where facing adjoining windows.	
Recessed balconies and/or vertical fins should be used between adjacent balconies	Utilised where necessary.	
3G Pedestrian access and entries		
Objective 3G-1	Accessible connectivity provided addressing	Voc
Building entries and pedestrian access connects to and addresses the public domain	Accessible connectivity provided addressing public domain.	Yes
Design guidance		
Multiple entries (including communal building entries and individual ground floor entries) should be provided to activate the street edge	The proposal provides both a grand lobby and lift entrance with accessible entrances, improving street activation in accordance with the ADG along with separate entrances to between private and public access.	
	Satisfactory	
	•	

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	Satisfactory.	
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	Satisfactory	
Objective 3G-2		
Access, entries and pathways are accessible and easy to identify	Provided.	Yes
Design guidance		
Building access areas including lift lobbies, stairwells and hallways should be clearly visible from the public domain and communal spaces	Clearly visible (and led-to) pedestrian street access with lifts, ramps and stairs, and within the basement parking areas.	
The design of ground floors and underground car parks minimise level changes along pathways and entries	Provided.	
Steps and ramps should be integrated into the overall building and landscape design.	Highly integrated into landscape design with no bends or returns and maximise potential for landscaping.	
For large developments 'way finding' maps should be provided to assist visitors and residents (see figure 4T.3)	Would be provided, if required	
For large developments electronic access and audio/video intercom should be provided to manage access	Would be required.	
Objective 3G-3		
Large sites provide pedestrian links for access to streets and connection to destinations	A 9m wide pedestrian link is provided for as part of the required precinct planning requirements.	Yes
Design guidance		
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		
3H Vehicle access		
Objective 3H-1	Complies	Yes
Vehicle access points are designed and located to achieve safety, minimise conflicts	Complies	162

between pedestrians and vehicles and create high quality streetscapes

Design guidance

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

security doors or gates at entries that minimise voids in 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:

Vehicular access point off Holdsworth Avenue and integrated with the proposed design

Not possible in this instance

Provided at the lowest point where possible.

Not possible in this instance.

Appropriate driveway widths to be maintained where possible and is satisfactory.

Avoided.

Assessed by Council's Traffic Section as being adequate.

Limited to one and supported by Council's Traffic Section.

Satisfactorily designed

Occurs within basement and appropriately designed for.

Screened by being within the basement area.

Clear sight lines provided

Not required.

Provided

changes in surface materials		
level changes		
the use of landscaping for separation		
3J Bicycle and car parking		
Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	Parking provided in accordance with Council's DCP rather than the ADG.	Yes
Design criteria For development in the following 1. 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		
Design guidance 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		
Objective 3J-2		
Parking and facilities are provided for other modes of transport	Suitable additional other modes of transport are available.	Yes
Design guidance 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		

provided for electric vehicles, where desirable		
Objective 3J-3 Car park design and access is safe and secure	Car park design has been reviewed and is consistent with Objective 3J-3 to provide for safe and secure access.	Yes
Design guidance 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		
Objective 3J-4		Yes
Visual and environmental impacts of underground car parking are minimised		
Design guidance Excavation should be minimised through efficient car park layouts and ramp design	Utilises existing basement/car parking layout where possible.	
Car parking layout should be well organised, using a logical, efficient structural grid and double loaded aisles	The parking layout is well-designed and double loaded aisles where possible.	
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	Minor portions of the above ground car parking proposed	
Natural ventilation should be provided to basement and sub-basement car parking areas	Ventilation would be detailed at Construction Certificate stage.	
Ventilation grills or screening devices for car parking openings should be integrated into the facade and landscape design	Achieved	
Objective 3J-5	1	Yes
Visual and environmental impacts of on-grade car parking are minimised	No on-grade parking is proposed	
Design guidance 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		
Objective 3J-6		Yes
Visual and environmental impacts of above ground enclosed car parking are minimised	No above ground parking is proposed	
Design guidance 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:		
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		

ADG R	ef Item description	Proposal	Compliance
PART 4	Designing the building		-
4A Sola	ar and daylight access		
Object	tive 4A-1		
sunligi	otimise the number of apartments receiving ht to habitable rooms, primary windows and e open space	The proposal provides for the following:	Yes
Desig	n criteria		
1.	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 mid winter in the Sydney Metropolitan Area and	72% - it is noted that it can be averaged over the whole development site	

ADG Ref	Item description	Proposal	Compliance
	in the Newcastle and Wollongong local		
	government areas		
2	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	N/A	
	mid winter		
3	A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid winter	6%	
Desian	guidance		
The des	ign maximises north aspect and the number aspect south facing apartments is minimised	South facing apartments minimised where	
	spect, single storey apartments should have a y or easterly aspect	possible	
	reas are best located to the north and service the south and west of apartments	In line with ADG design criteria.	
	nise the direct sunlight to habitable rooms and es a number of the following design features d:	Satisfactory	
	dual aspect apartments shallow apartment layouts two storey and mezzanine level apartments bay windows	The proposal provides for a high number of dual aspect apartments where possible	
To maxi within I minimur	mise the benefit to residents of direct sunlight iving rooms and private open spaces, a n of 1m2 of direct sunlight, measured at 1m oor level, is achieved for at least 15 minutes	Provided	
	ng the design criteria may not be possible on tes. This includes:	riovided	
achieved the living	where greater residential amenity can be d along a busy road or rail line by orientating g rooms away from the noise source on south facing sloping sites where significant views are oriented away desired aspect for direct sunlight		
Design constrai	drawings need to demonstrate how site nts and orientation preclude meeting the criteria and how the development meets the	Provided	
Objectiv			
•	access is maximised where sunlight is limited	Satisfactory solar outcomes achieved	Yes
	_		
Courtya sills of	guidance rds, skylights and high level windows (with 1,500mm or greater) are used only as a ary 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 Objective 4A-3 Design incorporates shading and glare control, particularly for warmer months
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 Objective 4A-3 Design incorporates shading and glare control, Satisfactory Yes
Objective 4A-3 Design incorporates shading and glare control, Satisfactory Yes
Design incorporates shading and glare control, Satisfactory
1
Design guidance 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 glass or glass with a reflectance level below 20% (reflective films are avoided)
4B Natural ventilation
Objective 4B-1 All habitable rooms are naturally ventilated Provided where possible Yes
Design guidance The building's orientation maximises capture and use of prevailing breezes for natural ventilation in habitable rooms Compliant.
Depths of habitable rooms support natural ventilation Provided.
The area of unobstructed window openings should be equal to at least 5% of the floor area served Provided Provided
Light wells are not the primary air source for habitable rooms

ADG Ref Item description	Proposal	Compliance
	Satisfactory	
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	Large openable areas are provided to apartments on all elevations to maximise natural ventilation.	
louvres, casement windows and externally opening doors		
Objective 4B-2		
The layout and design of single aspect apartments maximises natural ventilation	Satisfactory	Yes
Design guidance Apartment depths are limited to maximise ventilation and airflow (see also figure 4D.3)		
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		
Objective 4B-3		Yes
The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents	61% - it is noted that it can be averaged over the whole development site	
Design criteria	a contract and an engineering site	
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		
Overall depth of a cross-over or cross- through apartment does not exceed 18m, measured glass line to glass line		
Design guidance The building should include dual aspect apartments, cross through apartments and corner apartments and limit apartment depths	Achieved where possible	
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	None proposed	

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window and door opening sizes/areas on the other side of the apartment (outlet side) (see figure 4B.4)	·	·
Apartments are designed to minimise the number of corners, doors and rooms that might obstruct airflow	Achieved where possible	
Apartment depths, combined with appropriate ceiling heights, maximise cross ventilation and airflow	Achieved	
Objective 4C-1	Achieved	Yes
Ceiling height achieves sufficient natural ventilation and daylight access		
Design criteria		
Measured from finished floor level to 1. finished ceiling level, minimum ceiling heights are:		
Minimum ceiling height 2.7m (residential) 3.3m commercial	Minimum 2.7m for habitable	Yes
Objective 4C-2		Yes
Ceiling height increases the sense of space in apartments and provides for well-proportioned rooms	Achieved where possible on terrace levels	
Design guidance		
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		
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.		
Objective 4C-3 Ceiling heights contribute to the flexibility of building use over the life of the building	Provided.	Yes
Design guidance		
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 (see figure 4C.1)		
4D Apartment size and layout		
Objective 4D-1	Booth I	V.
The layout of rooms within an apartment is functional,	Provided	Yes
well organised and provides a high standard of amenity		
Design criteria		
Apartments are required to have the 1.		
	1	

ADG Ref Item description	Proposal	Compliance
following minimum internal areas:		
Apartment type Minimum internal area		
Studio 35m2 1 bedroom 50m2 2 bedroom 70m2 3 bedroom 90m2	The proposed apartment sizes are consistent with the minimum apartment sizes and are exceeded.	Yes
The minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5m2 each	Achieved	Yes
A fourth bedroom and further additional bedrooms increase the minimum internal area by 12m2 each.		
Every habitable room must have a window in an external wall with a total minimum glass area of not less than 10% of the floor area of the room. Daylight and air may not be borrowed from other rooms	Provided.	
Design guidance Kitchens should not be located as part of the main circulation space in larger apartments (such as hallway or entry space)	Provided.	
A window should be visible from any point in a habitable room	Provided where possible	
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	Minimum areas and dimensions have been met	
Objective 4D-2		
Environmental performance of the apartment is maximised	Provided.	Yes
Design criteria 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		
Design guidance 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		
Objective 4D-3		
Apartment layouts are designed to accommodate a variety of household activities and needs		Yes
Design criteria		

ADG Ref Item description	Proposal	Compliance
Master bedrooms have a minimum area of 1. 10m2 and other bedrooms 9m2 (excluding wardrobe space)	Provided.	
Bedrooms have a minimum dimension of 3m (excluding wardrobe space)	Minimum dimension achieved and shown on plans.	
Living rooms or combined living/dining rooms have a minimum width of: . 3.6m for studio and 1-bedroom apartments	Achieved and detailed on plans.	
. 4m for 2 and 3-bedroom apartments The width of cross-over or cross-through apartments are at least 4m internally to	No cross through apartments are proposed	
avoid deep narrow apartment layouts		
Design guidance Access to bedrooms, bathrooms and laundries is separated from living areas minimising direct openings between living and service areas	Provided where possible	
All bedrooms allow a minimum length of 1.5m for robes	Provided where possible	
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	Provided.	
Apartment layouts allow flexibility over time, design solutions may include:	Usable floor area maximised and suitable flexibility in space, with a focus of the	
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 E Private open space and balconies	layouts provided.	
Objective 4E-1		Yes
Apartments provide appropriately sized private open space and balconies to enhance residential amenity		
All apartments are required to have primary balconies as follows:		
Owelling type Minimum area Minimum depth Studio apartments 4m2	Achieved	Yes

ADG Ref Item description	Proposal	Compliance
1 bedroom apartments 8m2 2.0m		
2 bedroom apartments 10m2 2.0m		
3 bedroom apartments 12m2 2.4m		
The minimum balcony depth to be counted as contributing to the balcony area is 1m		
For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a minimum area of 15m2 and a minimum depth of 3m	Provided.	Yes
Design guidance		
Increased communal open space should be provided where the number or size of balconies are reduced	Not applicable.	Yes
Storage areas on balconies is additional to the minimum balcony size	None proposed.	
Balcony use may be limited in some proposals by: consistently high wind speeds at 10 storeys and above close proximity to road, rail or other noise sources exposure to significant levels of aircraft noise heritage and adaptive reuse of existing buildings	N/A	
In these situations, juliet balconies, operable walls, enclosed wintergardens or bay windows may be appropriate, and other amenity benefits for occupants should also be provided in the apartments or in the development or both. Natural ventilation also needs to be demonstrated		
Objective 4E-2		
Primary private open space and balconies are appropriately located to enhance liveability for residents	Appropriately located	Yes
Design guidance Primary open space and balconies should be located adjacent to the living room, dining room or kitchen to extend the living space	Provided.	
Private open spaces and balconies predominantly face north, east or west	Face east or west or north predominantly.	
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	Provided.	
Objective 4E-3		.,
Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building	Well integrated	Yes
Design guidance		
- !		

ADG Ref Item description	Proposal	Compliance
Solid, partially solid or transparent fences and balustrades are selected to respond to the location. They are designed to allow views and passive surveillance of the street while maintaining visual privacy and allowing for a range of uses on the balcony. Solid and partially solid balustrades are		
preferred	A range of treatments proposed	
Full width full height glass balustrades alone are generally not desirable	No unduly projected balconies.	
Projecting balconies should be integrated into the building design and the design of soffits considered	Provided where possible.	
Operable screens, shutters, hoods and pergolas are used to control sunlight and wind	Suitable landscape buffer or screening provided	
Balustrades are set back from the building or balcony edge where overlooking or safety is an issue	Successfully integrated	
Downpipes and balcony drainage are integrated with the overall facade and building design	Achieved	
Air-conditioning units should be located on roofs, in basements, or fully integrated into the building design	To be screened	
Where clothes drying, storage or air conditioning units are located on balconies, they should be screened and integrated in the building design	Designed in accordance with BASIX.	
Ceilings of apartments below terraces should be insulated to avoid heat loss	Guidance only.	
Water and gas outlets should be provided for primary balconies and private open space		
Objective 4E-4	Achieved	Yes
Private open space and balcony design maximises safety		
Design guidance		
Changes in ground levels or landscaping are minimised		
4F Common circulation and spaces		
Objective 4F-1		Satisfactory
Common circulation spaces achieve good amenity and properly service the number of apartments		
Design criteria		
The maximum number of apartments off 1. a circulation core on a single level is eight	Complies with the minor exception where a maximum of nine for building 9 for Levels 1-4	
For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40	N/A	
Design guidance		

ADG Ref Item description	Proposal	Compliance
Greater than minimum requirements for corridor widths and/ or ceiling heights allow comfortable movement and access particularly in entry lobbies, outside lifts and at apartment entry doors	Satisfactory	
Daylight and natural ventilation should be provided to all common circulation spaces that are above ground Windows should be provided in common circulation	Achieved where possible	
spaces and should be adjacent to the stair or lift core or at the ends of corridors	Achieved where possible	
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 	Satisfactory	
Design common circulation spaces to maximise opportunities for dual aspect apartments, including multiple core apartment buildings and cross over apartments	Satisfactory	
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:	Achieved	
 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	Achieved	
Objective 4F-2		
Common circulation spaces promote safety and provide for social interaction between residents	Lobby areas are well-designed and secured.	Yes
Design guidance		
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		

ADG Ref Item description	Proposal	Compliance
Tight corners and spaces are avoided		
Circulation spaces should be well lit at night		
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 owner's corporation meetings or resident use should be provided and are ideally colocated with communal open space		
Where external galleries are provided, they are more open than closed above the balustrade along their length		
Objective 4G-1		
Adequate, well designed storage is provided in each apartment	Storage complies	Yes
Design criteria In addition to storage in kitchens, bathrooms and bedrooms, the following storage is provided:		
Dwelling type Storage size volume		
Studio apartments 4m2	Complies with suitable areas in the basement and within each unit.	Yes
1-bedroom apartments 6m2	basement and within each unit.	
2-bedroom apartments 8m2		
3-bedroom apartments 10m2		
At least 50% of the required storage is to be located within the apartment.		
Design guidance 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, weatherproof and screened from view from the street Left over space such as under stairs is used for storage	Satisfactory	Yes
Objective 4G-2	Satisfactory	Yes
Additional storage is conveniently located, accessible and nominated for individual apartments		
Design guidance		
Storage not located in apartments is secure and clearly allocated to specific apartments		
Storage is provided for larger and less frequently accessed items		

ADG Ref Item description	Proposal	Compliance
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		
4H Acoustic privacy		
Objective 4H-1		.,
Noise transfer is minimised through the siting of buildings and building layout	Acoustic privacy addressed	Yes
Design guidance		
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)		
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		
Objective 4H-2		
Noise impacts are mitigated within apartments through layout and acoustic treatments	Acoustic privacy addressed	Yes
Design guidance		
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		

ADG Ref Item description	Proposal	Compliance
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		
4J Noise and pollution		
Objective 4J-1		
In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	Acoustic privacy addressed	Yes
Design guidance 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 (see figure 4J.4) 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 the design criteria, alternatives may be considered in the following areas:		
solar and daylight access private open space and balconies natural cross ventilation Objective 4J-2		
Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	Acoustic privacy addressed	Yes
Design guidance		
Design solutions to mitigate noise include:		
limiting the number and size of openings facing noise sources		

ADG Ref Item description	Proposal	Compliance
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,		
external screens and soffits		
4K Apartment mix		
Objective 4K-1		
A range of apartment types and sizes is provided to cater for different household types now and into the future	The proposed apartment mix is appropriate being a suitable range of units proposed.	Yes
Design guidance A variety of apartment types is provided		
A valiety 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		
<u> </u>		
Objective 4K-2	Provided.	Yes
The apartment mix is distributed to suitable locations within the building	Trovided.	103
Design guidance		
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		
4L Ground floor apartments		
Objective 4L-1	Other at from the man and the first of the f	Vaa
Street frontage activity is maximised where ground floor apartments are located	Street frontage activity is maximised	Yes
Design guidance		
Direct street access should be provided to ground	Provided	
floor apartments		
Activity is achieved through front gordens terroses		
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		
on original entrances to ground hour apartifichts		

ADG Ref Item description	Proposal	Compliance
private open space is next to the street doors and windows face the street		
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		
Objective 4L-2		
Design of ground floor apartments delivers amenity and safety for residents	Appropriate amenity and safety provided for	Yes
Design guidance		
Privacy and safety should be provided without obstructing casual surveillance. Design solutions may include:		
elevation of private gardens and terraces above the street level by 1-1.5m (see figure 4L.4) 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:	Solar access maximised where possible	
high ceilings and tall windows trees and shrubs that allow solar access in winter and shade in summer		
4M Facades		
Objective 4M-1		
Building facades provide visual interest along the street while respecting the character of the local area	The proposed façade provides a high level of visual interest.	Yes
Design guidance		
Design solutions for front building facades may include:	Appropriate materiality board submitted with the Development Application	
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 modify the prominence of elements	war the Bevelopment Application	
Building services should be integrated within the overall facade	Services are either within the basement, ground level or on the rooftop.	
Building facades should be well resolved with an appropriate scale and proportion to the streetscape and human scale. Design solutions may include:	Proposal is highly resolved with proportional articulation, variation in balustrading finishes, ground-level and vertical landscaping and street level	
well composed horizontal and vertical elements variation in floor heights to enhance the human scale	activation.	

ADG Ref Item description	Proposal	Compliance
elements that are proportional and arranged in patterns public artwork or treatments to exterior blank walls grouping of floors or elements such as balconies and windows on taller buildings	Suitable analysis provided in the architectural plans of relationship in the streetscape.	Compilation
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		
Objective 4M-2		
Building functions are expressed by the facade	Provided.	Yes
Design guidance Building entries should be clearly defined		
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		
4N Roof design		
Objective 4N-1	5	.,
Roof treatments are integrated into the building design and positively respond to the street	Roof service elements appropriately integrated.	Yes
Design guidance 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		
Objective 4N-2	No. 100	Satisfactory
Opportunities to use roof space for residential accommodation and open space are maximised	No rooftop communal open space proposed as sufficient open space is provided within the green spine area	
Design guidance		
Habitable roof space should be provided with good levels of amenity. Design solutions may include:		
penthouse apartments dormer or clerestory windows		

ADG Ref Item description	Proposal	Compliance
openable skylights		Ĭ
Open space is provided on roof tops subject to acceptable visual and acoustic privacy, comfort levels, safety and security considerations		
Objective 4N-3		
Roof design incorporates sustainability features	The roof incorporates solar panels.	Yes
Design guidance 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 Skylights and ventilation systems should be integrated into the roof design		
40 Landscape design		
Objective 40-1		
Landscape design is viable and sustainable	The proposal landscaping is satisfactory in relation to compliance with Council's DCP,	Yes
Design guidance Landscape design should be environmentally sustainable and can enhance environmental performance by incorporating:	and the Landscape Masterplan	
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 consider size at maturity and the potential for roots to compete (see Table 4)		
Objective 40-2	The streetscape planting is highly	
Landscape design contributes to the streetscape and amenity	developed and would soften the visual impact of the building within the streetscape.	Yes
Design guidance Landscape design responds to the existing site conditions including:	•	
changes of levels views		

ADG Ref Item description	Proposal	Compliance
significant landscape features including trees and rock outcrops		
Significant landscape features should be protected by:		
tree protection zones (see figure 40.5)		
appropriate signage and fencing during construction Plants selected should be endemic to the region and		
reflect the local ecology		
4P Planting on structures		
Objective 4P-1		
Appropriate soil profiles are provided	Appropriate soil profiles are provided	Yes
Design guidance		
Structures are reinforced for additional saturated soil weight		
Soil volume is appropriate for plant growth, considerations include:		
modifying depths and widths according to the planting mix and irrigation frequency		
free draining and long soil life span		
tree anchorage		
Minimum soil standards for plant sizes should be provided in accordance with Table 5		
Objective 4P-2	Proposed tree planting is appropriate to the	.,
Plant growth is optimised with appropriate selection and maintenance	site, including the requirement for high quality irrigation, and maintenance.	Yes
Design guidance Plants are suited to site conditions, considerations include:		
drought and wind tolerance seasonal changes in solar access modified substrate depths for a diverse range of plants plant longevity		
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		
Objective 4P-3		
Planting on structures contributes to the quality and amenity of communal and public open spaces	Highly contributes.	Yes
Design guidance		
Building design incorporates opportunities for planting on structures. Design solutions may include:		
green walls with specialised lighting for indoor green walls		

ADG Ref Item description	Proposal	Compliance
wall design that incorporates planting		
green roofs, particularly where roofs are visible from		
the public domain planter boxes		
planter boxes		
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		
Objective 4Q-1		
Universal design features are included in apartment	Achieved	Yes
design to promote flexible housing for all community members		
Design guidance		
Developments achieve a benchmark of 20% of the		
total apartments incorporating the Livable Housing		
Objective 4Q-2	Achievad	Var
A variety of apartments with adaptable designs are	Achieved	Yes
provided		
Design guidance		
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		
Objective 4Q-3		
Apartment layouts are flexible and accommodate a	The proposal provides for suitable	Yes
range of lifestyle needs	flexibility with provision of larger	
Design guidance	apartments where possible.	
Apartment design incorporates flexible design		
solutions which may include:		
rooms with multiple functions		
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		
4R Adaptive reuse		
Objective 4R-1	Achieved	Yes
New additions to existing buildings are contemporary		
and complementary and enhance an area's identity and sense of place		

ADG Ref Item description	Proposal	Compliance
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 Additions to heritage items should be clearly identifiable from the original building		
New additions allow for the interpretation and future evolution of the building		
Objective 4R-2		
Adapted buildings provide residential amenity while not precluding future adaptive reuse	Achieved where possible	Yes
Design guidance 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 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 (see also sections 4A Solar and daylight access and 4B Natural ventilation) alternatives to providing deep soil where less than the minimum requirement is currently available on the site building and visual separation — subject to demonstrating alternative design approaches to achieving privacy common circulation car parking alternative approaches to private open space and balconies		
4S Mixed use		
Objective 4S-1 Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	Not a mixed-use development	N/A
Design guidance Mixed use development should be concentrated around public transport and centres		

ADG Ref Item description	Proposal	Compliance
Mixed use developments positively contribute to the public 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 floor level, rather than commercial		
Mixed use development should maximise retail and commercial Objective 4S-2	See above	N/A
Residential levels of the building are integrated within the development, and safety and amenity are maximised for residents		
Design guidance Residential circulation areas should be clearly defined. Design solutions may include:		
residential entries are separated from commercial entries and directly accessible from the street commercial service areas are separated from residential components residential car parking and communal facilities are separated or secured security at entries and safe pedestrian routes are provided		
concealment opportunities are avoided Landscaped communal open space should be provided at podium or roof levels		
4T Awnings and signage		
Objective 4T-1	Additional designation	V
Awnings are well located and complement and integrate with the building design	Achieved where possible	Yes
Design guidance Awnings should be located along streets with high pedestrian activity and active frontages		
A number of the following design solutions are used:		
continuous awnings are maintained and provided in areas with an existing pattern height, depth, material and form complement 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		

ADG Ref Item description	Proposal	Compliance
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		
Objective 4T-2		
Signage responds to the context and desired streetscape character	No signage proposed at this stage.	N/A
Design guidance 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 larger developments		
Signage is limited to being on and below awnings and a single facade sign on the primary street frontage		
4U Energy efficiency		
Objective 4U-1		.,
Development incorporates passive environmental design	BASIX provided.	Yes
Design guidance Adequate natural light is provided to habitable rooms (see 4A Solar and daylight access)		
Well located, screened outdoor areas should be provided for clothes drying		
Objective 4U-2	BASIX provided.	
Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer		Yes
Design guidance 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		
Provision of consolidated heating and cooling infrastructure should be located in a centralised location (e.g. the basement)		

ADG Ref Item description	Proposal	Compliance
Objective 4U-3	National conditions are the	Vaa
Adequate natural ventilation minimises the need for mechanical ventilation	Natural ventilation maximised where possible	Yes
Design guidance		
A number of the following design solutions are used:		
rooms with similar usage are grouped together natural cross ventilation for apartments is optimised natural ventilation is provided to all habitable rooms and as many non-habitable rooms, common areas and circulation spaces as possible		
4V Water management and conservation		
Objective 4V-1	BASIV provided	Voc
Potable water use is minimised	BASIX provided.	Yes
Design guidance Water efficient fittings, appliances and wastewater reuse should be incorporated		-
Apartments should be individually metered		
Rainwater should be collected, stored and reused on site		
Drought tolerant, low water use plants should be used within landscaped areas		
Objective 4V-2		
Urban stormwater is treated on site before being discharged to receiving waters	The proposal is provided with OSD and suitable water sensitive urban design measures are implemented.	Yes
Design guidance Water sensitive urban design systems are designed by a suitably qualified professional		
A number of the following design solutions are used:		
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 bioretention systems such as rain gardens or street tree pits		
Objective 4V-3		
Flood management systems are integrated into site design	N/A	N/A
Design guidance Detention tanks should be located under paved areas, driveways or in basement car parks		
On large sites parks or open spaces are designed to provide temporary on site detention basins		
4W Waste management		
Objective 4W-1	Waste management includes a chute system and basement storage and	Yes

ADG Ref Item description	Proposal	Compliance
Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	collection, minimising impacts on the amenity of residents, streetscape and building entry.	
Design guidance		
Adequately sized storage areas for rubbish bins should be located discreetly away from the front of the development or in the basement car park		
Waste and recycling storage areas should be well ventilated		
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		
Objective 4W-2	Described.	Var
Domestic waste is minimised by providing safe and convenient source separation and recycling	Provided.	Yes
Design guidance 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		
Communal waste and recycling rooms are in convenient and accessible locations related to each vertical core		
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		
4X Building maintenance		
Objective 4X-1 Building design detail provides protection from weathering	Provided.	Yes
Design guidance A number of the following design solutions are used:		
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 appropriate design and material selection for hostile locations		
Objective 4X-2 Systems and access enable ease of maintenance	Provided.	Yes
Design guidance		

ADG Ref Item description	Proposal	Compliance
Window design enables cleaning from the inside of the building		
Building maintenance systems should be incorporated and integrated into the design of the building form, roof and facade		
Design solutions do not require external scaffolding for 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		
Objective 4X-3 Material selection reduces ongoing maintenance costs	Provided.	Yes
Design guidance		
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		