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17 January 2019

Architecture Interior Design Urban Design Strategy Ms Carolyn McNally Secretary Department of Planning and Environment GPO Box 39 SYDNEY NSW 2000



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S11659 Crown Sydney Hotel Resort

Dear Ms McNally,

We confirm that Bates Smart are the executive architects and are responsible for the above mentioned project and that Mr Simon Swaney, director in charge of the project at Bates Smart, is registered as an architect in accordance with the Architects Act 1921.

We confirm that in our professional opinion the proposed design is capable of achieving the design principles set out in "State Environmental Planning Policy 65 - Design Quality of Residential Apartment Development" and has been designed with regard to the publication "Apartment Design Guide." We refer you to the document "ADG Checklist – Crown Sydney – Bates Smart A11659 – 17 January 2019".

Yours sincerely Bates Smart Pty Ltd

Simon Swaney Director

ADG Ref.	Item Description	Notes	Compliance)
PART3	SITING THE DEVELOPMENT			
3A	SITE ANALYSIS			
3A-1 p47	Objective: Site Analysis illustrates that design decisions have been based on opportunities & constraints of the site conditions & their relationship to the surrounding context.			√
	Design Guidance		Considered	
	Each element in the Site Analysis Checklist is addressed.		YES	
3B	ORIENTATION			
3B-1 p49	Objective: Building types & layouts respond to the streetscape & site while optimising solar access within the development			√
	Design Guidance		Considered	
	Buildings along the street frontage define the street by facing it & incorporating direct access from the street	Refer podium design	YES	
	Where the street frontage is to the east or west, rear buildings are orientated to the north		NA	
3B-2	Where the street frontage is to the north or south, over-shadowing to the south is minimised & buildings behind the street frontage are orientated to the east & west		NA	
3B-2 p49	Objective: Overshadowing of neighbouring properties is minimised during mid winter.			√
	Design Guidance		Considered	
	Living areas, private open space & communal open space receive solar access in accordance with section 3D Communal & Public Open Space and section 4A Solar & Daylight Access		YES	
	Solar access to living rooms, balconies & private open spaces of neighbours are considered		YES	
	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%	There are no current adjoining properties.	NA	
	If the proposal will reduce the solar access of neighbours, building separation is increased beyond minimums contained in 3F Visual Privacy		NA	
	Overshadowing is minimised to the south or downhill by increased upper level setbacks	Tower is located at the north end of the podium.	YES	
	Buildings are orientated at 90 deg to the boundary with neighbouring properties to minimise overshadowing & privacy impacts, particularly where minimum setbacks are used & where buildings are higher than the adjoining development	There are no shared boundaries.	NA	
	A minimum of 4 hours of solar access is retained to solar collectors on neighbouring buildings	There are no existing solar collectors to consider.	NA	
3C	PUBLIC DOMAIN INTERFACE			
3C-1 p51	Objective: Transition between private & public domain is achieved without compromising safety & security.			√
	Design Guidance		Considered	
	Terraces, balconies and courtyard apartments have direct street entry, where appropriate	There are no ground level dwellings	NA	
	Changes in level between private terraces, front gardens & dwelling entries above the street level provide surveillance & improve visual privacy for ground level dwellings	There are no ground level dwellings	NA	
	Upper level balconies & windows overlook the public domain		YES	
	Front fences & walls along street frontages use visually permeable materials & treatments. Height of solid fences or walls is limited to 1m	There are no ground level dwellings. Refer podium design drawings for street frontage design	NA	
	Length of solid walls is limited along street frontages		YES	
	Opportunities for casual interaction between residents & the public domain is provided for. Design solutions may include seating at building entries, near letter boxes & in private courtyards adjacent to streets	Refer ground floor public domain	YES	



NDG Ref.	Item Description	Notes	Compliance
	In developments with multiple buildings and/or entries, pedestrian entries & spaces associated with individual buildings/entries are differentiated to improve legibility for residents, using the following design solutions: Architectural detailing Changes in materials Plant Species Colours Opportunities for people to be concealed are minimised	Residential entrance at ground floor porte cochere is clearly differentiated	YES
C-2	Objective: Amenity of the public domain is retained & enhanced.		,
	Design Guidance		Considered
	Planting is used to soften the edges of any raised terraces to the street, for example above sub-basement car parking	refer landscape design	YES
	Mail boxes are located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided		YES
	The visual prominence of underground car park vents is minimised & located at a low level where possible		YES
	Substations, pump rooms, garbage storage areas & other service requirements are located in basement car parks or out of view		YES
	Ramping for accessibility is minimised by building entry location & setting ground floor levels in relation to footpath levels		YES
	Durable, graffiti resistant & easily cleanable materials are used		YES
	Where development adjoins public parks, open space or bushland, the design positively addresses this interface & uses the following design solutions:		
	Street access, pedestrian paths & building entries are clearly defined		YES
	Paths, low fences & planting are clearly delineate between communal/private open space & the adjoining public open space Minimal was of blank walls, fences & ground level parking.		
	Minimal use of blank walls, fences & ground level parking On sloping sites protrusion of car parking above ground level is minimised by using split levels to step underground car parking		NA
	COMMUNAL & PUBLIC OPEN SPACE		
BD-1 055	Objective: An adequate area of communal open space is provided to enhance residential amenity & to provide opportunities for landscaping.	Residents within the building will have access to the VIP pool deck at Level 04.	✓
	Design Criteria		
1	Communal open space has a minimum area equal to 25% of the site	An area of approximately 1,900sqm is provided, being approx 30% of the site area.	✓
2	Developments achieve a minimum 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)		✓
	Design Guidance		Considered
	Communal open space is consolidated into a well designed, easily identified & usable area		YES
	Communal open space have a minimum dimension of 3m. Larger developments should consider greater dimensions		YES
	Communal open space are co-located with deep soil areas	There are no deep soil areas	NA
	Direct, equitable access are provided to communal open space areas from common circulation areas, entries & lobbies		YES
	Where communal open space cannot be provided at ground level, it is provided on a podium or roof		YES

ADG Ref.	Item Description	Notes	Compliance	
3D-2 p57	 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 need to: 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 & facilities and/or provide contributions to public open space Objective: Communal open space is designed to allow for a range of activities, respond to site conditions & be attractive 		NA	√
	and inviting			
	Pacilities are provided within communal open spaces & common spaces for a range of age groups (see 4F Common Circulation & Spaces), incorporating the following: Seating for individuals or groups Barbeque areas Play equipment or play areas Swimming pools, gyms, tennis courts or common rooms		YES	
	Location of facilities responds to microclimate & site conditions with access to sun in winter, shade in summer & shelter from strong winds & down drafts Visual impacts of services are minimised, including location of ventilation duct outlets from basement car parks, electrical		YES	
2D 2	substations & detention tanks			
p57	Objective: Communal open space is designed to maximise safety.			√
	Design Guidance		Considered	
	Communal open space & public domain should be readily visible from habitable rooms & private open space areas while maintaining visual privacy. Design solutions include: Bay windows Corner windows Balconies	Residential apartments will overlook common areas	YES	
	Communal open space is well lit		YES	
	Communal open space/facilities that are provided for children & young people are safe and contained		YES	
3D-4 p59	Objective: Public open space, where provided, responds to the existing pattern & uses of the neighbourhood.			NA
3D-3 p57	Design Guidance		Considered	
	Public open space is well connected with public streets along at least one edge	Public Open Space is not proposed. The building proposal has 100% site coverage.	NA	
	POS is connected with nearby parks & other landscape elements		NA	
	POS is linked through view lines, pedestrian desire paths, termination points & the wider street grid		NA	
	Solar access is provided year round along with protection from strong winds		NA	
	Opportunities for a range of recreational activities is provided for people of all ages		NA	
	Positive street address & active street frontages are provided adjacent to POS		NA	
	Boundaries are clearly defined between POS & private areas		NA	
3E	DEEP SOIL ZONES			
	Objective: Deep soil zones are suitable for healthy plant & tree growth, improve residential amenity and promote management of water and air quality.			NA



DG ef.	Item Description			Notes	Compliance
1	Deep soil zones are to requirements:	meet the follow	ving minimum		
	Site Area (sqm)	Minimum Dim. (m)	Deep Soil Zone (% of site area)		
	less than 650	-			
	650-1500	3			
	greater than 1500	6	7		
	greater than 1500 with significant existing tree cover	6			
	Design Guidance				Considered
	On some sites it may be	possible to provid	de larger deep soil zon	es.	Considered
	depending on the site are 10% of the site as d	ea & context:	with an area of 650sqr		NO
	1,500sqm • 15% of the site as d	leep soil on sites (greater than 1,500sqm		
	Deep soil zones are located to retain existing significant trees & to allow for the development of healthy root systems, providing anchorage & stability for mature trees. Design solutions may include:			There are no existing trees	
	Basement & sub-baconsolidated beneau	ath building footpr	ints		NA
	 Use of increased from Adequate clearance 		<s ensure long term heal</s 	h	
	•	ner deep soil area	s on adjacent sites to		
	Achieving the design crite including where:			Proposal has 100% site coverage which reflects the mixed use nature of the building and the site's location at Barangaroo and	
		(e.g. central busin	ited or no space for de less district, constraine s)	ep Control Control Androne Androne to the atomic control	YES
	 there is 100% site of floor level 	overage or non-re	esidential uses at grou	nd	TLS
	Where a proposal does racceptable stormwater n			orms	
:	of planting provided VISUAL PRIVACY				
F-1	Objective: Adequate	huilding sanara	tion distances are		
63	shared equitably betw reasonable levels of ex	een neighbourir	ng sites, to achieve		
	Design Criteria				
1	Separation between w to ensure visual privac separation distances f boundaries are as follo	y is achieved. Normal buildings to	1inimum required		
	Building Height (m)	Habitable Ro & Balconies			
	up to 12 4 storeys)	6	3		
	up to 25 (5-8 storeys)	9	4.5		
	over 25 (9+ storeys)	12	6		
	Note: Separation dista site should combine re on the type of room.				

Considered

YES

between neighbouring properties.

Generally as the height increases, one step in the built form is desirable due to building separations. Any additional steps do not to cause a 'ziggurat' appearance

Design Guidance

ADG Ref.	Item Description	Notes	Compliance	
	For residential buildings next to commercial buildings, separation distances are measured as follows: Retail, office spaces & commercial balconies use the habitable room distances		NA	
	Service & plant areas use the non-habitable room distances New development are located & oriented to maximise visual privacy between buildings on site & for neighbouring buildings. Design solutions include: site layout & building are orientated to minimise privacy impacts (see 3B Orientation) on sloping sites, apartments on different levels have		YES	
	appropriate visual separation distances (see pg 63 figure 3F.4) Apartment buildings have an increased separation distance of 3m (in addition to 3F-1 Design Criteria) when adjacent to a different zone that permits lower density residential development, to provide for a transition in scale & increased landscaping (pg 63 figure 3F.5)		NA	
	Direct lines of sight are avoided for windows & balconies across corners		YES	
	No separation is required between blank walls		NA	
3F-2 p65	Objective: Site & building design elements increase privacy without compromising access to light & air and balance outlook & views from habitable rooms & private open space.			✓
	Design Guidance		Considered	
	Communal open space, common areas & access paths are separated from private open space & windows to apartments, particularly habitable room windows. Design solutions include: setbacks solid or partially solid balustrades on 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 & outlook in another raising apartments or private open space above the public domain or communal open space planter boxes incorporated into walls & 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 on windows and/or balconies		YES	
	Bedrooms, living spaces & other habitable rooms are separated from gallery access & other open circulation space by the apartment's service areas		YES	
	Balconies & private terraces are located in front of living rooms to increase internal privacy		YES	
	Windows are offset from the windows of adjacent buildings		NA	
	Recessed balconies and/or vertical fins are used between adjacent balconies		YES	
3G	PEDESTRIAN ACCESS & ENTRIES			
3G-1 p67	Objective: Building entries & pedestrian access connects to and addresses the public domain.			✓
	Design Guidance		Considered	
	Multiple entries (including communal building entries & individual ground floor entries) activate the street edge		YES	
	Entry locations relate to the street & subdivision pattern, and the existing pedestrian network	Future pedestrian network in this case	YES	
	Building entries are clearly identifiable. Communal entries are clearly distinguishable from private entries		YES	
	Where street frontage is limited, a primary street address should be provided with clear sight lines and pathways to secondary building entries		NA	
3G-2 p67	Objective: Access, entries & pathways are accessible & easy to identify.			√



ADG Ref.	Item Description	Notes	Compliance
	Design Guidance		Considered
	Building access areas including lift lobbies, stairwells & hallways are clearly visible from the public domain & communal spaces		YES
	The design of ground floors & underground car parks minimise level changes along pathways & entries		YES
	Steps & ramps are integrated into the overall building & landscape design		YES
	For large developments 'way finding' maps are provided to assist visitors & residents		YES
	For large developments electronic access & audio/video intercom are provided to manage access		YES
3G-3 p67	Objective: Large sites provide pedestrian links for access to streets & connection to destinations.		\checkmark
	Design Guidance		Considered
	Pedestrian links through sites facilitate direct connections to open space, main streets, centres & public transport		YES
	Pedestrian links are direct, have clear sight lines, are overlooked by habitable rooms or private open spaces of dwellings, are well lit & contain active uses, where appropriate		YES
3H	VEHICLE ACCESS		
3H-1 p69	Objective: Vehicle access points are designed & located to achieve safety, minimise conflicts between pedestrians & vehicles and create high quality streetscapes.		✓
	Design Guidance		Considered
	Car park access is integrated with the building's overall facade. Design solutions include: materials & colour palette minimise visibility from street		
	 security doors/gates minimise voids in the facade where doors are not provided, visible interiors reflect facade design, and building services, pipes & ducts are concealed 		YES
	Car park entries are located behind the building line		YES
	Vehicle entries are located at the lowest point of the site, minimising ramp lengths, excavation & impacts on the building form and layout		YES
	Car park entry & access are located on secondary streets or lanes where available	Secondary street is not available	NO
	Vehicle standing areas that increase driveway width & encroach into setbacks are avoided	Refer to the ground floor porte cochere design	YES
	Access point is located to avoid headlight glare to habitable rooms		YES
	Adequate separation distances are provided between vehicle entries & street intersections		YES
	The width & number of vehicle access points are limited to the minimum		YES
	Visual impact of long driveways is minimised through changing alignments & screen planting	Refer to the ground floor porte cochere design	YES
	The need for large vehicles to enter or turn around within the site is avoided	Accomodated within basement carpark	YES
	Garbage collection, loading & servicing areas are screened	Accomodated within basement carpark	YES
	Clear sight lines are provided at pedestrian & vehicle crossings		YES
	Traffic calming devices, such as changes in paving material or textures, are used where appropriate		YES
	Pedestrian & vehicle access are separated & distinguishable. Design solutions include: Changes in surface materials		VEO
	· Level changes		YES
3J	Landscaping for separation BICYCLE & CAR PARKING		
3J-1 p71	Objective: Car parking is provided based on proximity to public transport in metropolitan Sydney & centres in regional		✓
	areas.		
	Design Criteria		

ADG Ref.	Item Description	Notes	Compliance
1	For development in the following locations: on sites that are within 800m of a railway station or light rail stop in the Sydney Metropolitan Area; or on land zoned, and sites within 400m of land zoned,		
	B3 Commercial Core, B4 Mixed Use or equivalent in a nominated regional centre		✓
	the minimum car parking requirement for residents & 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		Considered
	Where a car share scheme operates locally, car share parking spaces are provided within the development.		NO
	Where less car parking is provided in a development, council do not provide on street resident parking permits		NA
3J-2 p71	Objective: Parking & facilities are provided for other modes of transport.		\checkmark
	Design Guidance		Considered
	Conveniently located & sufficient numbers of parking spaces are provided for motorbikes & scooters		YES
	Secure undercover bicycle parking is provided & easily accessible from both public domain & common areas		YES
	Conveniently located charging stations are provided for electric vehicles, where desirable		YES
3J-3 p73	Objective: Car park design & access is safe and secure.		✓
	Design Guidance		Considered
	Supporting facilities within car parks, including garbage, plant & switch rooms, storage areas & car wash bays can be accessed without crossing car parking spaces		YES
	Direct, clearly visible & well lit access is provided into common circulation areas		YES
	Clearly defined & visible lobby or waiting area is provided to lifts & stairs		YES
	For larger car parks, safe pedestrian access is clearly defined & circulation areas have good lighting, colour, line marking and/or bollards		YES
3J-4 p73	Objective: Visual & environmental impacts of underground car parking are minimised.		\checkmark
	Design Guidance		Considered
	Excavation minimised through efficient car park layouts & ramp design		YES
	Car parking layout is well organised, using a logical, efficient structural grid & double loaded aisles		YES
	Protrusion of car parks do not exceed 1m above ground level. Solution include stepping car park levels or using split levels on sloping sites		YES
	Natural ventilation is provided to basement & sub-basement car parking	Mechanical ventilation is proposed.	NO
	Ventilation grills or screening devices for car parking openings are integrated into the facade & landscape design		YES
3J-5 p75	Objective: Visual & environmental impacts of on-grade car parking are minimised.		\checkmark
	Design Guidance		Considered
	On-grade car parking is avoided		YES



			4
ADG Ref.	Item Description	Notes	Compliance
	Where on-grade car parking is unavoidable, the following design solutions are used:	On-grade parking will only occur in the porte- cochere, which will be managed at all times.	
	 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 & private open space areas 		
	· Safe & direct access to building entry points is provided		
	 Parking is incorporated into the landscape design, by extending planting & materials into the car park space 		YES
	 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. Shade trees are planted between every 4-5 parking spaces to reduce increased surface temperatures to large areas of paving 		
3J-6 p75	Objective: Visual & environmental impacts of above ground enclosed car parking are minimised.		\checkmark
	Design Guidance		Considered
	Exposed parking is not located along primary street frontages	Parking is in the basement	NA
	Screening, landscaping & other design elements including public art are used to integrate the above ground car parking with the facade. Design solutions include:	Parking is in the basement	
	 Car parking that is concealed behind facade, with windows integrated into the overall facade design (limited to developments where larger floor plate podium is suitable at lower levels) 		NA
	 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 		
	Positive street address & active frontages are provided at ground level		YES
DADTA	DECIONING THE DUIL DING		
PART4	DESIGNING THE BUILDING		
4A	SOLAR & DAYLIGHT ACCESS		
4A-1 p79	Objective: To optimise number of apartments receiving sunlight to habitable rooms, primary windows & private open space.		✓

PART4	DESIGNING THE BUILDING			
4A	SOLAR & DAYLIGHT ACCESS			
4A-1 p79	Objective: To optimise number of apartments receiving sunlight to habitable rooms, primary windows & private open space.			✓
	Design Criteria			
1	Living rooms & private open spaces of at least 70% of apartments in a building receive a minimum of 2 hrs direct sunlight between 9am - 3pm at mid winter in Sydney Metropolitan Area and in Newcastle and Wollongong local government areas	73.56% is achieved		✓
2	In all other areas, living rooms & private open spaces of at least 70% of apartments in a building receive a minimum of 3 hrs direct sunlight between 9 am - 3 pm at mid winter			✓
3	A maximum of 15% of apartments in a building receive no direct sunlight between 9 am - 3 pm at mid winter			NA
	Design Guidance		Considered	
	The design maximises north aspect. The number of single aspect south facing apartments is minimised		YES	
	Single aspect, single storey apartments have a northerly or easterly aspect	There are no single aspect apartments.	NA	
	Living areas are located to the north and service areas to the south & west of apartments		YES	
	To optimise direct sunlight to habitable rooms & balconies a number of the following design features are used:			
	· Dual aspect apartments		YES	
	Shallow apartment layouts		ILO	
	Two storey &mezzanine level apartments			
	Bay windows			

ADG			
Ref.	Item Description	Notes	Compliance
	To maximise the benefit to residents of direct sunlight within living rooms & private open spaces, a minimum of 1sqm of direct sunlight, measured at 1m above floor level, is achieved for at least 15 minutes		YES
	Achieving the design criteria may not be possible 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 significant views are oriented away from the desired aspect for direct sunlight 		NA
	Design drawings need to demonstrate how site constraints & orientation preclude meeting Design Criteria & how the development meets the objective.		
4A-2 p81	Objective: Daylight access is maximised where sunlight is limited.		\checkmark
	Design Guidance		Considered
	Courtyards, skylights & high level windows (with sills of 1,500mm or greater) are used only as a secondary light source in habitable rooms	Window sills are typically at floor level.	YES
	Where courtyards are used: Use is restricted to kitchens, bathrooms & service areas Building services are concealed with appropriate detailing & materials to visible walls	Courtyards are not used.	
	 Courtyards are fully open to the sky Access is provided to the light well from communal area for cleaning & maintenance Acoustic privacy, fire safety & minimum privacy separation 		NA
	distances (see 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 site) that will reflect light Integrating light shelves into the design 		NA
	Light coloured internal finishes		
4A-3 p81	Objective: Design incorporates shading & glare control, particularly for warmer months.		\checkmark
	Design Guidance		Considered
	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	High performance glass is employed	
	 Shading devices such as eaves, awnings, balconies, pergolas, external louvres & planting Horizontal shading to north facing windows 		YES
	· Vertical shading to east & particularly west facing windows		
	 Operable shading to allow adjustment & choice High performance glass that minimises external glare off windows, with consideration given to reduce tint glass or glass with a reflectance level below 20% (reflective films are avoided) 		
4B	NATURAL VENTILATION		
4B-1 p83	Objective: All habitable rooms are naturally ventilated.		×
	Design Guidance		Considered
	The building's orientation maximises capture & use of prevailing breezes for natural ventilation in habitable rooms		YES
	Depths of habitable rooms support natural ventilation	Typically complies, except that internally located studies (present in approximately 20% of apartments) are mechanically ventilated.	NO
	The area of unobstructed window openings should be equal to at least 5% of the floor area served		YES
	Light wells are not the primary air source for habitable rooms		YES



ADG Ref.		Itam Description	Notes	Compliance	
Rei.		Doors & openable windows maximise natural ventilation opportunities by using the following design solutions: Adjustable windows with large effective openable areas Variety of window types that provide safety & flexibility such as awnings & louvres	Notes	Compliance	
		Windows that occupants can reconfigure to funnel breezes into apartment, such as vertical louvres, casement windows & externally opening doors			
4B-2 p83		Objective: The layout & design of single aspect apartments maximises natural ventilation.			✓
		Design Guidance		Considered	
		Apartment depths limited to maximise ventilation & airflow	Refer to the inset balconies providing enhanced ventilation.	YES	
		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 used to naturally ventilate internal building areas or rooms such as bathrooms & laundries 		NA	
		 Courtyards or building indentations have a width to depth ratio of 2:1 or 3:1 to ensure effective air circulation & avoid trapped smells 			
4B-3 p85		Objective: Number of apartments with natural cross vent is maximised to create comfortable indoor environments for residents.			✓
		Design Criteria			
	1	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	All apartments are greater than 10 storeys above ground.		✓
	2	Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line			NA
		Design Guidance		Considered	
		The building includes dual aspect apartments, cross through apartments & corner apartments, and limited apartment depths		YES	
		In cross-through apartments, external window & door opening sizes/ areas on one side of an apartment (inlet side) are approximately equal to the external window & door opening sizes/areas on the other side of the apartment (outlet side)		YES	
	-	Apartments are designed to minimise the number of corners, doors & rooms that might obstruct airflow		YES	
		Apartment depths, combined with appropriate ceiling heights, maximise cross ventilation & airflow		YES	
4C		CEILING HEIGHTS			
4C-1 p87		Objective: Ceiling height achieves sufficient natural ventilation & daylight access.			✓
		Design Criteria			

	minimum ceiling heig	imum Ceiling Height	Some study/home office rooms will have ceilings lower than 2.7m due to ceiling services constraints. Only 8 x apartments are affected, and the ceilings in those		
	ior apt and	d mixed used buildings (m)			
	I I alega ala la consecución	d mixed-used buildings (m)	studies will be 2.55m (exceeding BCA		
	Habitable rooms	2.7	minimum for habitable rooms). Ceilings in the adjacent habitable rooms will exceed		
	Non-habitable rooms	2.4	2.7m.		4
	2.4 for second floor, where	2.7 for main living area floor 2.4 for second floor, where its area does not exceed 50% of the apt area			×
	Attic spaces	.8 at edge of room with 30deg ninimum ceiling slope			
	If located in mixed- used areas	3.3 for ground and first floor to promote future flexibility of use			
	These minimums do	not preclude higher ceilings if desired			
	Design Guidance	, 5		Considered	
	•	nodates use of ceiling fans for cooling & heat		YES	
		neight increases the sense of space in es for well proportioned rooms.			✓
	Design Guidance			Considered	
	· Hierarchy of room	ing design solutions are used: as in apartment is defined using changes in alternatives such as raked or curved ceilings, spaces			
	rooms feel larger Ceiling heights ar that bulkheads do from floor to floor	d rooms are provided, for example, smaller & more spacious with higher ceilings e maximised in habitable rooms by ensuring to not intrude. The stacking of service rooms & coordination of bulkhead location above has, such as robes or storage, can assist		YES	
	Objective: Ceiling has building use over the	eights contribute to the flexibility of elife of the building.			✓
	Design Guidance			Considered	
I		r level apartments should be greater than the Design Criteria allowing flexibility & conversion		NA	
4D	APARTMENT SIZE	& LAYOUT			
p89		ut of rooms within apartment is nised & provides a high standard of			×
	Design Criteria				
1	Apartments have the	e following minimum internal areas:			
	Apartment Type	Minimum Internal Area (sqm)			
	Studio	35			
	1 Bedroom	50			
	2 Bedroom	70			./
	3 Bedroom	90			V
	The minimum internal Additional bathroom 5sqm each.	al areas include only one bathroom. s increase the minimum internal area by			
;	A C 11 1 1 0	further additional bedrooms increase the			
;	Minimum internal are				
2	minimum internal are Every habitable room		Typically complies, except that internally located studies (present in approximately 20% of apartments) use borrowed light and are mechanically ventilated.		×



ADG Ref.		Item Description	Notes	Compliance	
		Kitchens is not located as part of the main circulation space in larger apartments (such as hallway or entry space)		YES	
		A window is visible from any point in a habitable room.	Typically complies, except that internally located studies (present in approximately 20% of apartments) use borrowed light and are mechanically ventilated. The internally located studies are well designed and suitable for the intended use	NO	
		Where minimum areas or room dimensions are not met, apartments demonstrate that they are well designed and demonstrate the usability & functionality of the space with realistically scaled furniture layouts & circulation areas.		NA	
4D-2 p89		Objective: Environmental performance of the apartment is maximised.			×
		Design Criteria			
	1	Habitable room depths are limited to a maximum of 2.5 x the ceiling height	Some apartments comply, in others the depth exceeds 2.5 x ceiling height, due to the generous size of the room.		×
	2	In open plan layouts (living, dining & kitchen are combined) maximum habitable room depth is 8m from a window	Some apartments comply, in others the depth is 8-10m, due to the generous size of the room.		×
		Design Guidance		Considered	
		Greater than minimum ceiling heights allow for proportional increases in room depth up to the permitted max depths	Typical residential ceiling height is 2970mm	YES	
		All living areas & bedrooms are located on the external face of building		YES	
		Where possible: bathrooms & laundries have external openable window main living spaces are oriented toward the primary outlook & aspect and away from noise sources		YES	
4D-3 p91		Objective: Apartment layouts are designed to accommodate a variety of household activities & needs.			✓
		Design Criteria			
	1	Master bedrooms have a minimum area of 10sqm & other bedrooms 9sqm (excluding wardrobe space)			\checkmark
	2	Bedrooms have a minimum dimension of 3m (excluding wardrobe space)			✓
	3	Living rooms or combined living/dining rooms have a minimum width of:			
		 3.6m for studio & 1 bedroom apartments 4m for 2 & 3 bedroom apartments 			√
	4	The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts			NA
		Design Guidance		Considered	
		Access to bedrooms, bathrooms & laundries is separated from living areas minimising direct openings between living & service areas		YES	
		All bedrooms allow a minimum length of 1.5m for robes		YES	
		Main bedroom of apartment or studio apartment is provided with a wardrobe of minimum 1.8m L x 0.6m D x 2.1m H		YES	
		Apartment layouts allow flexibility over time, design solutions include: Dimensions that facilitate a variety of furniture arrangements & removal			
		 Spaces for a range of activities & 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 BCA & for calculating mix of apartments 		YES	
		Room sizes & proportions or open plans (rectangular spaces 2:3 are more easily furnished than square spaces 1:1) Efficient planning of circulation by stairs, corridors & through rooms to maximise the amount of usable floor space in rooms			

ADG Ref.	Item Description			Notes	Compliance	
4E	PRIVATE OPEN SP	ACE & BALCON	IES			
4E-1 p93	Objective: Apartme open space & balcor					√
	Design Criteria					
1	All apartments are re follows:	All apartments are required to have primary balconies as follows:		All apartments are above 10 storeys and have balconies. Most balconies meet the		
	Apartment Type	Minimum Area (sqm)	eqm) (m)			
	Studio	4	-			
	1 Bedroom	8	2			×
	2 Bedroom	10	2			
	3+ Bedroom	oom 12 2.4				
	The minimum balcony depth to be counted as contributing to the balcony area is 1m					
2	For apartments at ground level or on podium or similar, a private open space is provided instead of a balcony. It must have minimum area of 15sqm & minimum depth of 3m				N/	
	Design Guidance				Considered	
	Increased communal open space are provided where the number or size of balconies are reduced		Refer to the extensive outdoor communal facilities for residents at Level 04	YES		
	Storage areas on balconies is additional to the minimum balcony size			е	NA	
	close proximity toexposure to significant	her amenity benefits ents or in the develo	oise sources t noise uildings s for occupants are	storeys above ground level. Those that do not meet the design criteria have operable windows and Juliet balconies in lieu of full sized balconies. Other amenity benefits are provided, including floor to ceiling glass, superior outlook compared to equivalent apartments in other developments, and ceiling heights largely exceeding the 2.70m ADG minimum. Natural ventilation is included. Therefore the Design Guidance is adhered to in the apartments that don't meet the Balcony Design Criteria.	YES	
4E-2 p93	Objective: Primary paperopriately located					√
	Design Guidance				Considered	
	Primary open space & I room, dining room or ki				YES	
	POS & balconies predo	minantly face north,	east or west		YES	
	POS & balconies are orientated with the longer side facing outwards or be open to the sky to optimise daylight access into adjacent rooms				YES	
4E-3 p95	Objective: Private o integrated into & condetail of the building		ony design is rall architectural form &	X		√
	Design Guidance				Considered	
	Solid, partially solid or to respond to the location passive surveillance of allowing for a range of ubalustrades are preferred.	on. They are designe the street while mair uses on the balcony.	ntaining visual privacy &	Glass balustrades are provided to maximise views. Surveilance of street is not achievable with residential floros beginning at Level 34. Visual privacy is not a problem dur to the height of the balconies and separation from adjacent proposed buildings.	NO	
	Full width full height gladesirable	ss balustrades alone	e are generally not	Glass balustrades are provided as they are integral to the building design.	NO	
	Projecting balconies are design of soffits are cor		building design. The	Balconies are inset.	NA	
	Operable screens, shut sunlight & wind	tters, hoods & pergo	las are used to control		NO	

ADG Ref.		Item Description	Notes	Compliance
		Balustrades are set back from the building or balcony edge where overlooking or where safety is an issue	Balconies do not overlook floors below.	NA
		Downpipes & balcony drainage are integrated with the overall facade & building design		YES
		Air-conditioning units are located on roofs, in basements, or fully integrated into the building design		YES
		Where clothes drying, storage or air conditioning units are located on balconies, they are screened & integrated in the building design	Located internally	NA
		Ceilings of apartments below terraces are insulated to avoid heat loss		YES
		Water & gas outlets are provided for primary balconies & private open space		YES
E-4 95	ŀ	Objective: Private open space & balcony design maximises safety		•
		Design Guidance		Considered
		Changes in ground levels or landscaping are minimised		YES
		Balcony design & detailing avoids opportunities for climbing & falling		YES
F		COMMON CIRCULATION & SPACES		
4F-1 p97		Objective: Common circulation spaces achieve good amenity & properly service the number of apartments		•
		Design Criteria		
	1	The maximum number of apartments off a circulation core on a single level is eight		•
	2	For buildings of 10 storeys & over, the maximum number of apartments sharing a single lift is 40		,
		Design Guidance		Considered
		Greater than minimum requirements for corridor widths and/or ceiling heights allow comfortable movement & access particularly in entry lobbies, outside lifts & at apartment entry doors		YES
		Daylight & natural ventilation are provided to all common circulation spaces that are above ground	Daylight only is provided (not natural ventilation)	YES
		Windows are provided in common circulation spaces & are adjacent to the stair or lift core or at the ends of corridors	Adjacent to lift core.	YES
		Longer corridors greater than 12m in length from the lift core are articulated. Design solutions include:		VEO
		· Series of foyer areas with windows & spaces for seating		YES
		Wider areas at apartment entry doors & varied ceiling heights		
		Common circulation spaces maximise opportunities for dual aspect apartments, including multiple core apartment buildings & cross over apartments		NA
		Achieving Design Criteria for the number of apartments off a circulation core may not be possible. Where development is unable to achieve this, a high level of amenity for common lobbies, corridors & apartments is demonstrated, including:	Criteria 1 and 2 are achieved.	
		 Sunlight & natural cross ventilation in apartments Access to ample daylight & natural ventilation in common circulation spaces 		NA
		 Common areas for seating & 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	Criteria 1 is achieved.	NA
		Primary living room or bedroom windows do not open directly onto common circulation spaces, open or enclosed. Visual & acoustic privacy from common circulation spaces to any other rooms are carefully controlled		YES
IF-2 099		Objective: Common circulation spaces promote safety & provide for social interaction between residents		•



ADG Ref.	Item Description		Notes	Compliance	
		are provided between vertical circulation ies by minimising corridor or gallery length to r sight lines		YES	
	Tight corners & spaces	are avoided		YES	
	Circulation spaces are v	vell lit at night		YES	
	Legible signage are provareas & general wayfind	vided for apartment numbers, common ing		YES	
	Incidental spaces, eg sp landing, or near a windo	pace for seating in a corridor, at a stair w are provided		NA	
		community rooms for activities such as etings or resident use, are provided & are co- open space	See Level 24 Lounge and Boardroom	YES	
	Where external galleries closed above the balust	are provided, they are more open than rade along their length		NA	
4G	STORAGE				
4G-1 o101	Objective: Adequate each apartment	e, well designed storage is provided in			√
	Design Criteria				
1	In addition to storage the following storage	in kitchens, bathrooms and bedrooms, is provided:			
	Apartment Type	Storage Size Volume (cubic m)			
	Studio	4			,
	1 Bedroom	6			√
	2 Bedroom	8			
	3+ Bedroom	10			
	At least 50% of the re the apartment	quired storage is to be located within			
	Design Guidance			Considered	
	Storage is accessible from	om either circulation or living areas		YES	
		conies (in addition to the minimum balcony e balcony design, weather proofed & n the street		NA	
	Left over space such as	under stairs is used for storage		NA	
4G-2 o101		Il storage is conveniently located, ed for individual apartments			√
	Design Guidance			Considered	
	Storage not located in a specific apartments	partments is secure and clearly allocated to		YES	
	Storage is provided for I	arger & less frequently accessed items		YES	
		al or basement car parks is provided at paces or in cages, such that allocated car ible		YES	
	If communal storage roc	oms are provided they are accessible from as of the building		NA	
	<u> </u>	partment is integrated into the overall sible from public domain		YES	
4H	ACOUSTIC PRIVAC	Y			
1H-1 0103	Objective: Noise train buildings & building la	nsfer is minimised through the siting of ayout			√
	Design Guidance			Considered	
		ration is provided within the development Ildings/adjacent uses (see 2F Building Privacy)		YES	
	·	gs are orientated away from noise sources		YES	
	-	ngs including building entries & corridors are			



	Item Description	Notes	Compliance
	Storage, circulation areas & non-habitable rooms are located to buffer noise from external sources		NA
	The number of party walls (shared with other apartments) are limited & are appropriately insulated		YES
	Noise sources such as garage doors, driveways, service areas, plant rooms, building services, mechanical equipment, active communal open spaces & circulation areas should be located at least 3m away from bedrooms		YES
4H-2 o103	Objective: Noise impacts are mitigated within apartments through layout & acoustic treatments		✓
	Design Guidance		Considered
	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		YES
	· Doors separate different use zones		
	Wardrobes in bedrooms are co-located to act as sound buffers		
	Where physical separation cannot be achieved, noise conflicts are resolved using the following design solutions:		
	· Double or acoustic glazing		
	Acoustic seals		YES
	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 		
IJ	NOISE & POLLUTION		
1J-1 0105	Objective: In noisy or hostile environments impacts of external noise & pollution are minimised through careful siting & layout		✓
	Design Guidance		Considered
	To minimise impacts the following design solutions are used:		
	 Physical separation between buildings & the noise or pollution source 		
	 Residential uses are located perpendicular to the noise source & 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 & communal open spaces		
	source to provide a continuous building that shields residential		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferred Landscape design reduces the perception of noise & acts as a		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferred Landscape design reduces the perception of noise & acts as a filter for air pollution generated by traffic & industry Where developments are unable to achieve Design Criteria,		YES
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferred Landscape design reduces the perception of noise & acts as a filter for air pollution generated by traffic & industry Where developments are unable to achieve Design Criteria, alternatives are considered in the following areas:		
	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferred Landscape design reduces the perception of noise & acts as a filter for air pollution generated by traffic & industry Where developments are unable to achieve Design Criteria, alternatives are considered in the following areas: Solar & daylight access		
IJ-2 5105	source to provide a continuous building that shields residential uses & communal open spaces Non-residential uses are located at lower levels vertically separating residential component from noise or pollution source. Setbacks to the underside of residential floor levels are increased, relative to traffic volumes & other noise sources Buildings respond to both solar access & noise. Where solar access is away from noise source, non-habitable rooms will provide a buffer Where solar access is in the same direction as the noise source, dual aspect apartments with shallow building depths are preferred Landscape design reduces the perception of noise & acts as a filter for air pollution generated by traffic & industry Where developments are unable to achieve Design Criteria, alternatives are considered in the following areas: Solar & daylight access Private open space & balconies		

ADG	ltere Description	Natas	Camadianaa	
Ref.	Item Description	Notes	Compliance	
	Design solutions to mitigate noise include: Limiting the number & 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 eg solid balcony balustrades, external		YES	
	screens & soffits			
4K	APARTMENT MIX			
4K-1 p107	Objective: A range of apartment types & sizes is provided to cater for different household types now & into the future			✓
	Design Guidance		Considered	
	A variety of apartment types is provided		YES	
	 The apartment mix is appropriate, taking into consideration: Distance to public transport, employment & education centres Current market demands & projected future demographic trends Demand for social & affordable housing Different cultural & socioeconomic groups 		YES	
	Flexible apartment configurations are provided to support diverse household types & stages of life including single person households, families, multi-generational families & group households		YES	
4K-2 p107	Objective: The apartment mix is distributed to suitable locations within the building			✓
	Design Guidance		Considered	
	Different apartment types are located to achieve successful facade composition & to optimise solar access		YES	
	Larger apartment types are located on ground or roof level where there is potential for more open space, and on corners where more building frontage is available	The largest apartments are located at or near to the top of the tower. There are no ground floor apartments.	YES	
4L	GROUND FLOOR APARTMENTS			
4L-1 p109	Objective: Street frontage activity is maximised where ground floor apartments are located			NA
	Design Guidance		Considered	
	Direct street access are provided to ground floor apartments		NA	
	Activity is achieved through front gardens, terraces & the facade of the building. Design solutions include: Both street, foyer & other common internal circulation entrances to ground floor apartments Private open space is next to the street Doors & windows face the street		NA	
	Retail or home office spaces are located along street frontages		NA	
	Ground floor apartment layouts support SOHO use & provide opportunities for future conversion into commercial or retail areas. In these cases higher floor to ceiling heights & easy conversion to ground floor amenities are provided.		NA	
4L-2 p109	Objective: Design of ground floor apartments delivers amenity & safety for residents			NA
	Design Guidance		Considered	
	Privacy & safety are provided without obstructing casual surveillance. Design solutions include:			
	 Elevating private gardens & terraces above the street level by 1-1.5m (see pg 109 Figure 4L.4) Landscaping & private courtyards Window sill heights minimise sight lines into apartments Integrating balustrades, safety bars or screens with exterior design 		NA	
	Solar access is maximised through:			
	High ceilings & tall windowsTrees & shrubs allow solar access in winter & shade in summer		NA	



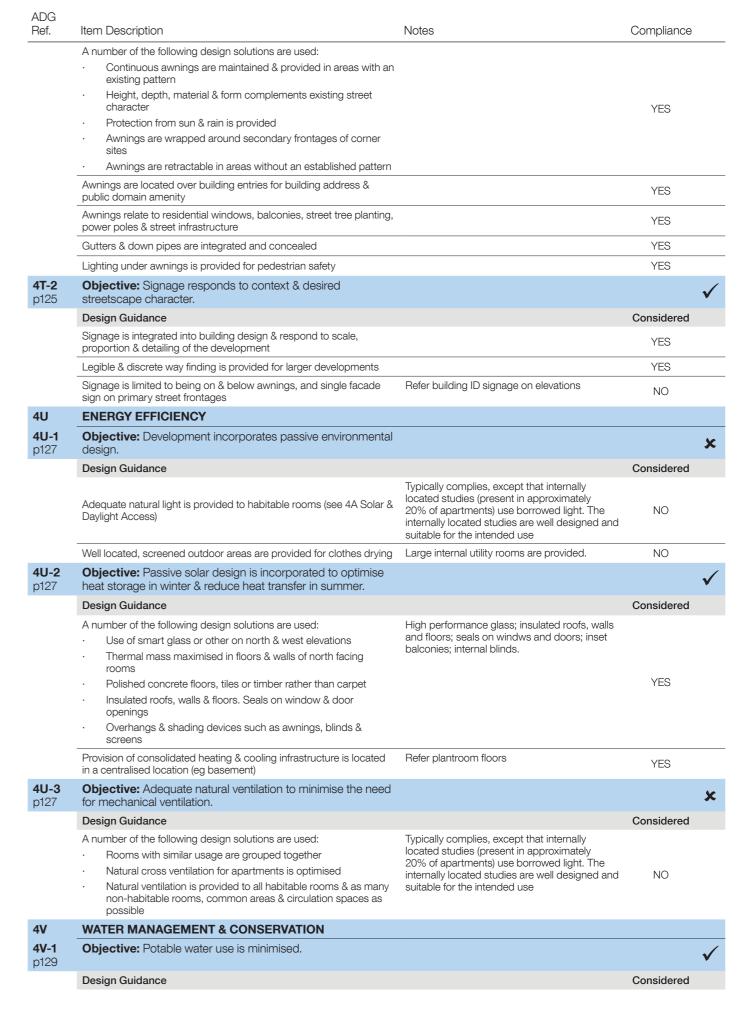
ADG Ref.	Item Description	Notes	Compliance	
4M-1 p111	Objective: Building facades provide visual interest along the street while respecting the character of the local area			√
	Design Guidance		Considered	
	Design solutions for front building facades include:			
	Composition of varied building elements		YES	
	Defined base, middle & top of buildings			
	Revealing & concealing certain elements		\/F0	
	Building services are integrated within the overall facade		YES	
	Building facades are well resolved with appropriate scale & proportion to streetscape & with consideration of human scale. Solutions include:			
	· Well composed horizontal & vertical elements			
	· Variation in floor heights to enhance the human scale		YES	
	Elements that are proportional & arranged in patterns			
	Public artwork or treatments to exterior blank walls			
	Grouping of floors or elements such as balconies & windows on taller buildings			
	Building facades relate to key datum lines of adjacent buildings through upper level setbacks, parapets, cornices, awnings or colonnade heights		NA	
	Shadow is created on the facade throughout the day with building articulation, balconies & deeper window reveals		YES	
4M-2 p111	Objective: Building functions are expressed by the facade			✓
	Design Guidance		Considered	
	Building entries are clearly defined		YES	
	Important corners are given visual prominence through change in articulation, materials or colour, roof expression or changes in height		YES	
	Apartment layout is expressed externally through facade features such as party walls & floor slabs	Expressed though balconies	YES	
4N	ROOF DESIGN			
4N-1 p113	Objective: Roof treatments are integrated into the building design & positively respond to the street			✓
	Design Guidance		Considered	
	Roof treatments are integrated with the building design. Design solutions include: Roof design is in proportion to the overall building size, scale &		YES	
	form Roof materials compliment the building		120	
	Service elements are integrated			
4N-2 p113	Objective: Opportunities to use roof space for residential accommodation & open space are maximised			NA
	Design Guidance		Considered	
	Habitable roof space are provided with good levels of amenity. Design solutions include:			
	· Penthouse apartments		NA	
	Dormer or clerestory windows			
	· Openable skylights			
	Open space is provided on roof tops subject to acceptable visual & acoustic privacy, comfort levels, safety & security considerations		NA	
	OLI II D. C. L. C.			NA
4N-3 p113	Objective: Roof design incorporates sustainability features			
	Design Guidance		Considered	
	Design Guidance Roof design maximises solar access to apartments during winter &		Considered	
	Design Guidance Roof design maximises solar access to apartments during winter & provides shade during summer. Design solutions include:		Considered NA	
	Design Guidance Roof design maximises solar access to apartments during winter & provides shade during summer. Design solutions include: Roof lifts to the north			
	Design Guidance Roof design maximises solar access to apartments during winter & provides shade during summer. Design solutions include:			

ADG Ref.	Item Description		Notes	Compliance	ADG Ref.	Item Description
40-1	Objective: Landsca	pe design is viable & sustainable		✓		A landscape maintenance pla
0115						Irrigation & drainage systems
	Design Guidance			Considered		Changing site condition
	Landscape design is en environmental performa	nvironmentally sustainable & can enhance	Refer to the landscape design.			Soil profile & planting reWhether rainwater, stor
	· Diverse & appropri				4P-3	
	· Bio-filtration garde	ens		NIA	4P-3 p117	Objective: Planting on st amenity of communal & p
	 Appropriately plan 	<u> </u>		NA	P	Design Guidance
	_	s to plant vegetables & herbs				Building design incorporates
	CompostingGreen roofs or was	blle.				Design solutions include:
	Ongoing maintenance			YES		Green walls with specia
		• • •		ILO		 Wall design that incorpo Green roofs, particularly
	Microclimate is enhanc	led trees near the eastern & western				domain
	elevations for sha			YES		· Planter boxes
		een & deciduous trees to provide shading in		TEO		Note: structures designed to
	summer & sunlight access in winter Shade structures such as pergolas for balconies & courtyards					integrated into the building fa to change over time
		considers size at maturity & the potential for			4Q	UNIVERSAL DESIGN
	roots to compete.	considers size at maturity a trie potential for		YES	4Q-1	Objective: Universal desi
40-2	Objective: Landsca	upe design contributes to streetscape &			p119	apartment design to prom
p115	amenity			V		community members
	Design Guidance			Considered		Design Guidance
		oonds to the existing site conditions including	:			Developments achieve a bapartments incorporating
	Changes of levels			YES		silver level universal design
	ViewsSignificant landscape features including trees & rock outcrops				4Q-2	Objective: A variety of ap
	Significant landscape features are protected by:		There are no existing trees to protect.		p119	are provided
	Tree protection zo		There are no existing trees to protect.	NA		Design Guidance
		ige & fencing during construction				Adaptable housing should be
	Plants selected are end	demic to region & reflect local ecology		YES		relevant council policy
4P	PLANTING ON STE	RUCTURES				Design solutions for adaptab
4P-1	Objective: Appropriate soil profiles are provided					· Convenient access to c
p117				V		· High level of solar acces
	Design Guidance			Considered		Minimal structural changed adapted.
	Structures are reinforce	ed for additional saturated soil weight		YES		adaptedLarger car parking space
	Soil volume is appropri	ate for plant growth, including:				 Parking titled separately
		& widths according to planting mix & irrigation	n	\/50		arrangements
	frequency • Free draining & lo	ng soil life span		YES	4Q-3	Objective: Apartment lay
	Tree anchorage				p119	range of lifestyle needs
	Minimum soil standards	s for plant sizes should be provided in	There is no deep soil proposed.			Design Guidance
	accordance with:					Flexible design solutions inclusions with multiple fur
	Site Area (sqm)	Recommended Tree Planting				Dual master bedroom a
	Up to 850	1 medium tree per 50sqm of deep				 Larger apartments with
	050 1500	soil zone		NA		Open plan 'loft' style ap
	850 - 1,500	1 large tree or 2 medium trees per 90sqm of deep soil zone				laundry & bathroom
	Greater than 1,500	1 large tree or 2 medium trees per			4R	ADAPTIVE REUSE
		80sqm of deep soil zone			4R-1	Objective: New additions
4P-2	Objective: Plant gro	owth is optimised with appropriate			p121	contemporary, compleme sense of place
p117	selection & maintena	nce		•		Design Guidance
	Design Guidance			Considered		Design solutions include:
		conditions, considerations include:				· New elements align with
	Drought & wind toSeasonal changes			YES		 Additions complement to proportion, pattern, form
	Seasonal Charlos	3 II I 301AI A00533		I EO		proportion, pattern, for
		e depths for a diverse range of plants				 Contemporary & comple



ADG Ref.	Item Description	Notes	Compliance	
1101.	A landscape maintenance plan is prepared	140100	YES	
	Irrigation & drainage systems respond to: Changing site conditions Soil profile & planting regime Whether rainwater, stormwater or recycled grey water is used		YES	
4P-3 p117	Objective: Planting on structures contributes to the quality & amenity of communal & public open spaces			√
	Design Guidance		Considered	
	Building design incorporates opportunities for planting on structures. Design solutions 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 Note: structures designed to accommodate green walls should be integrated into the building facade & consider the ability of the facade to change over time	Refer to the landscape plans.	YES	
4Q	UNIVERSAL DESIGN			
4Q-1 p119	Objective: Universal design features are included in apartment design to promote flexible housing for all community members			✓
	Design Guidance		Considered	
	Developments achieve a benchmark of 20% of the total apartments incorporating the Livable Housing Guideline's silver level universal design features		YES	
4Q-2 p119	Objective: A variety of apartments with adaptable designs are provided			√
	Design Guidance		Considered	
	Adaptable housing should be provided in accordance with the relevant council policy	The size of the apartments procided makes conversion to adaptable design easily achievable upon demand	NA	
	Design solutions for adaptable apartments include: Convenient access to communal & public areas High level of solar access Minimal structural change & residential amenity loss when adapted Larger car parking spaces for accessibility Parking titled separately from apartments or shared car parking arrangements	The size of the apartments procided makes conversion to adaptable design easily achievable upon demand	NA	
4Q-3 p119	Objective: Apartment layouts are flexible & accommodate a range of lifestyle needs			√
	Design Guidance		Considered	
	Flexible design solutions 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 & bathroom		YES	
4R	ADAPTIVE REUSE			
4R-1 p121	Objective: New additions to existing buildings are contemporary, complementary & enhance area's identity & sense of place			NA
	Design Guidance		Considered	
	Design solutions include: New elements align with the existing building Additions complement the existing character, siting, scale, proportion, pattern, form & detailing Contemporary & complementary materials, finishes, textures & colours		NA	

ADG Ref.	Item Description	Notes	Compliance
	Additions to heritage items are clearly identifiable from the original building		NA
	New additions allow for interpretation & future evolution of the building		YES/NO/NA
R-2 121	Objective: Adapted buildings provide residential amenity but does not precluding future adaptive reuse	[٨
	Design Guidance		Considered
	Design features are incorporated sensitively to make up for any physical limitations, to ensure residential amenity. Design solutions include:		
	· Generously sized voids in deeper buildings		NA
	· Alternative apartment types when orientation is poor		
	Additions to expand the existing building envelope		
	Where developments are unable to achieve Design Criteria, alternatives are considered in the following areas:		
	 Where there are existing higher ceilings, depths of habitable rooms can increase subject to demonstrating access to natura ventilation, cross ventilation (when applicable) and solar & daylight access (see 4A & 4B) 	I	
	Alternatives to providing deep soil where less than the minimun requirement is currently available on the site		NA
	Building & visual separation subject to demonstrating alternative design approaches to achieving privacy	∍	
	Common circulationCar parking		
	Alternative approaches to private open space & balconies		
S	MIXED USE		
S-1 123	Objective: Mixed use developments are provided in appropriate locations & provide active street frontages that		,
	encourage pedestrian movement.		
	Design Guidance		Considered
	Mixed use development are concentrated around public transport & centres		YES
	Mixed use developments positively contribute to the public domain. Design solutions include:		
	Development addresses the street		
	Active frontages providedDiverse activities & uses		YES
	Avoiding blank walls at the ground level		
	Live/work apartments on the ground floor level, rather than		
	commercial		
S-2 123	Objective: Residential levels of the building are integrated within the development. Safety & amenity is maximised.		•
	Design Guidance		Considered
	Residential circulation areas are clearly defined. Solutions include:		
	 Residential entries separated from commercial entries & directly accessible from the street 	4	
	Commercial service areas separated from residential components		YES
	Residential car parking & communal facilities separated or secured Consider the parking & one destricts related as a separated or secured.		
	 Security at entries & safe pedestrian routes are provided Concealment opportunities are avoided 		
	Landscaped communal open space are provided at podium or roof		YES
Т	AWNING & SIGNAGE		
T-1	AWNING & SIGNAGE Objective: Awnings are well located and complement & integrate with the building design.		١
T T-1 125	Objective: Awnings are well located and complement &		Considered





ADG

ADG Ref.	Item Description	Notes	Compliance
	Water efficient fittings, appliances & wastewater reuse are incorporated		YES
	Apartments are individually metered		YES
	Rainwater is collected, stored & reused on site	refer tp precinct stormwater management strategy	YES
	Drought tolerant, low water use plants are used within landscaped areas		YES
4V-2 o129	Objective: Urban stormwater is treated on site before being discharged to receiving waters.		✓
	Design Guidance		Considered
	Water sensitive urban design systems are designed by a suitably qualified professional	refer tp precinct stormwater management strategy	YES
	A number of the following design solutions are used: Runoff is collected from roofs & balconies in water tanks and plumbed into toilets, laundry & irrigation	refer tp precinct stormwater management strategy	YES
	 Porous & open paving materials is maximised On site stormwater & infiltration, including bio-retention systems such as rain gardens or street tree pits 		120
IV-3 0129	Objective: Flood management systems are integrated into site.		✓
	Design Guidance		Considered
	Detention tanks are located under paved areas, driveways or in basement car parks	refer tp precinct stormwater management strategy	YES
	On large sites, parks or open spaces are designed to provide temporary on site detention basins	refer tp precinct stormwater management strategy	YES
I W	WASTE MANAGEMENT		
IW-1 o131	Objective: Waste storage facilities are designed to minimise impacts on streetscape, building entry & amenity of residents.		✓
	Design Guidance		Considered
	Adequately sized storage areas for rubbish bins are located discreetly away from the front of the development or in basement car park		YES
	Waste & recycling storage areas are well ventilated		YES
	Circulation design allows bins to be easily manoeuvred between storage & collection points		YES
	Temporary storage are provided for large bulk items such as mattresses		YES
	Waste management plan is prepared		YES
IW-2 0131	Objective: Domestic waste is minimised by providing safe & convenient source separation & recycling.		✓
	Design Guidance		Considered
	All dwellings have a waste & recycling cupboard or temporary storage area of sufficient size to hold two days worth of waste & recycling		YES
	Communal waste & recycling rooms are in convenient & accessible locations related to each vertical core		YES
	For mixed use developments, residential waste & recycling storage areas & access is separate & secure from other uses		YES
	Alternative waste disposal methods such as composting is provided		NO
łХ	BUILDING MAINTENANCE		
1X-1 0133	Objective: Building design detail provides protection from weathering.		✓
	Design Guidance		Considered
	A number of the following design solutions are used: Roof overhangs to protect walls	The external envelope of the building has appropriate design for high-rise construction	
	 Hoods over windows & doors to protect openings Detailing horizontal edges with drip lines to avoid staining surfaces 	adjacent a marine environment.	YES
	 Methods to eliminate or reduce planter box leaching Appropriate design & material selection for hostile locations 	-	

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