

.DG lef.	Item Description	Notes	Compliance
PART3	SITING THE DEVELOPMENT		Compliance
BA	SITE ANALYSIS		
BA-1	Objective: Site Analysis illustrates that design decisions		
047	have been based on opportunities & constraints of the site conditions & their relationship to the surrounding context.		v
	Design Guidance		Considered
	Each element in the Site Analysis Checklist is addressed.		YES
BB	ORIENTATION		
3B-1 049	Objective: Building types & layouts respond to the streetscape & site while optimising solar access within the development		v
	Design Guidance		Considered
	Buildings along the street frontage define the street by facing it & incorporating direct access from the street		YES
	Where the street frontage is to the east or west, rear buildings are orientated to the north		N/A
	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		N/A
3B-2 049	Objective: Overshadowing of neighbouring properties is minimised during mid winter.		٧
	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%		N/A
	If the proposal will reduce the solar access of neighbours, building separation is increased beyond minimums contained in 3F Visual Privacy		N/A
	Overshadowing is minimised to the south or downhill by increased upper level setbacks		N/A
	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		N/A
	A minimum of 4 hours of solar access is retained to solar collectors on neighbouring buildings		N/A
BC	PUBLIC DOMAIN INTERFACE		
3C-1 051	Objective: Transition between private & public domain is achieved without compromising safety & security.		v
	Design Guidance		Considered
	Terraces, balconies and courtyard apartments have direct street entry, where appropriate		YES
	Changes in level between private terraces, front gardens & dwelling entries above the street level provide surveillance & improve visual privacy for ground level dwellings		YES
	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		YES
	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		YES

ADG 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 	Entry lobbies are clearly identified by vertical breaks within the building form, and reinforced by the landscape design. Pedestrian walkways are typically straight and continuous, in order to improve visibility throughout.	YES
C-2 53	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		YES
	Mail boxes are located in lobbies, perpendicular to the street alignment or integrated into front fences where individual street entries are provided	Mail boxes are integrated into the walls directly outside the residential lobby entries and are perpendicular to the street alignment.	YES
	The visual prominence of underground car park vents is minimised & located at a low level where possible	Make up air intake for the basement is concealed within a landscape feature above the basement ramp	YES
	Substations, pump rooms, garbage storage areas & other service requirements are located in basement car parks or out of view	Some essential services are located on the ground floor in order to be above the 1:100 year flood level. These are recessed within the facade and not visually prominent.	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 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		N/A
	COMMUNAL & PUBLIC OPEN SPACE		
D-1 55	Objective: An adequate area of communal open space is provided to enhance residential amenity & to provide opportunities for landscaping.		
	Design Criteria		
1	Communal open space has a minimum area equal to 25% of the site	The communal open space within Lot S3 measures 770m ² at ground level and 600m ² at roof terrace, equating to 25% 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		NO
	Direct, equitable access are provided to communal open space areas from common circulation areas, entries & lobbies	Direct equitable access is provided from Young Street and Jane Street, and also via each of the residential entry lobbies	YES
	Where communal open space cannot be provided at ground level, it is provided on a podium or roof	Both are provided	YES



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otes	Compliance
ntry lobbies are clearly identified by vertical reaks within the building form, and reinforced y the landscape design. Pedestrian walkways re typically straight and continuous, in order to nprove visibility throughout.	YES

A DESIG	GN REPORT		
ADG Ref.	Item Description	Notes	Compliance
	 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 		N/A
	 Demonstrate good proximity to public open space & facilities and/or provide contributions to public open space 		
3D-2 057	Objective: Communal open space is designed to allow for a range of activities, respond to site conditions & be attractive and inviting		•
	Design Guidance		Considered
	 Facilities 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 		YES
	· Swimming pools, gyms, tennis courts or common rooms		
	Location of facilities responds to microclimate & site conditions with access to sun in winter, shade in summer & shelter from strong winds & down drafts		YES
	Visual impacts of services are minimised, including location of ventilation duct outlets from basement car parks, electrical substations & detention tanks		YES
3D-3 057	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 		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-4 059	Objective: Public open space, where provided, responds to the existing pattern & uses of the neighbourhood.		N/A
3E	DEEP SOIL ZONES		
3E-1 061	Objective: Deep soil zones are suitable for healthy plant & tree growth, improve residential amenity and promote management of water and air quality.		
	Design Criteria		
1	Deep soil zones are to meet the following minimum requirements:	The basement has been set in from the northern and southern boundaries to provide a deep soil zone of 321m2, 6% of	
	Site Area Minimum Deep Soil Zone	the site area. This not meet the 7% criteria	

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

the site area. This not meet the 7% criteria however, a structural set down throughout the common out door area has been provided to allow for significant planting. While the dimension of the deep soil zone is less than 6m, it is contiguous with the deep soil within existing and new streets.

Considered

ADG Item Description On some sites it may be possible to provide larger deep soil zones, depending on the site area & context: 10% of the site as deep soil on sites with an area of 650sqm -. 1,500sqm • 15% of the site as deep 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: Basement & sub-basement car park design that is . consolidated beneath building footprints Use of increased front & 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 Achieving the design criteria may not be possible on some sites including where: location & 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 is achieved & alternative forms of planting provided 3F-1

VISUAL PRIVACY					
Objective: Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external & internal visual privacy.				\checkmark	
Design Criteria					
Separation between windows & balconies is provided to ensure visual privacy is achieved. Minimum required separation distances from buildings to the side & rear boundaries are as follows:			The distance between townhouses and apartment building ranges from 9-12m. While less than 12m is a technical non-compliance, the rear elevation of the townhouse here been designed to		
Building Height (m)	Habitable Rooms & Balconies. (m)	Non-Habitable Rooms (m)	the townhouses has been designed to provide good levels of visual privacy.		
up to 12 4 storeys)	6	3			
up to 25 (5-8 storeys)	9	4.5		\checkmark	
over 25 (9+ storeys)	12	6			
Note: Separation distances between buildings on the same site should combine required building separations depending on the type of room. Gallery access circulation should be treated as habitable space when measuring privacy separation distances between neighbouring properties.					
Design Guidance				Considered	
Generally as the height increases, one step in the built form is desirable due to building separations. Any additional steps do not cause a 'ziggurat' appearance			The form of the 7-storey building includes one signifcant step at the east end at Level 4.	YES	
For residential buildings ne distances are measured as		ngs, separation			
Retail, office spaces & commercial balconies use the habitable room distances				N/A	
· Service & plant areas	s 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:			The townhouses have been designed with internal courtyards and front gardens in order to gain the benefit of winter sun from the north, while the provide a variable in from the north,		
 site layout & building are orientated to minimise privacy impact (see 3B Orientation) 			whilst preventing overlooking from apartments to the south.	YES	
	rtments on different leve paration distances (see				

Ref.

3F

p63

- appropriate visual separation distances (see pg 63 figure 3F.4)

Notes	Compliance
Within Lot S3, a deep soil area is limited due to the building envelopes set out in the Stage 1 Masterplan. Significant areas of deep soil are provided in nearby parts within the Masterplan (e.g. Lot E2), reducing the need for deep soil within Lot S3.	N/A
Planter beds located throughout the central communal space of the proposed development, with soil depths of up to 1m, allow for the growth of large trees with large canopies.	YES
	YES

DA DESIGN REPORT ADG Ref. Notes Compliance Item Description Apartment buildings have an increased separation distance of 3m (in addition to 3F-1 Design Criteria) when adjacent to a different zone N/A that permits lower density residential development, to provide for a transition in scale & increased landscaping (pg 63 figure 3F.5) Direct lines of sight are avoided for windows & balconies across Veritcal louvres have been provided where YES required corners No separation is required between blank walls YES 3F-2 **Objective:** Site & building design elements increase privacy p65 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 The communal open space is separated from separated from private open space & windows to apartments, adjacent apartments, several landscape design particularly habitable room windows. Design solutions include: measures, such as buffer planting, trellis planting, pergolas and screens. . setbacks Generous soil depths are proposed for podium . solid or partially solid balustrades on balconies at lower levels planting, ranging from 300mm to 900mm, fencing and/or trees and vegetation to separate spaces such that substantial screen planting is screening devices possible. . bay windows or pop out windows to provide privacy in one direction & outlook in another YES 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 Bedrooms, living spaces & other habitable rooms are separated N/A from gallery access & other open circulation space by the apartment's service areas Balconies & private terraces are located in front of living rooms to YES increase internal privacy Windows are offset from the windows of adjacent buildings YES Recessed balconies and/or vertical fins are used between adjacent YES balconies 3G **PEDESTRIAN ACCESS & ENTRIES** 3G-1 Objective: Building entries & pedestrian access connects to p67 and addresses the public domain. Design Guidance Considered Multiple entries (including communal building entries & individual YES ground floor entries) activate the street edge Entry locations relate to the street & subdivision pattern, and the YES existing pedestrian network Building entries are clearly identifiable. Communal entries are clearly YES distinguishable from private entries Where street frontage is limited, a primary street address should be provided with clear sight lines and pathways to secondary building YES entries 3G-2 **Objective:** Access, entries & pathways are accessible & p67 easy to identify. **Design Guidance** Considered Building access areas including lift lobbies, stairwells & hallways are YES clearly visible from the public domain & communal spaces The design of ground floors & underground car parks minimise level YES changes along pathways & entries Steps & ramps are integrated into the overall building & landscape YES desian For large developments 'way finding' maps are provided to assist N/A visitors & residents

For large developments electronic access & audio/video intercom are provided to manage access

ADG Ref.	Item Description	Notes	Compliance
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
ЗH	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		YES
	security doors/gates minimise voids in the facade		.20
	 where doors are not provided, visible interiors reflect facade design, and building services, pipes & ducts are concealed 		
	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	The site is relatively flat, and the basement entry location was determined by the best outcome for the street environment and public domain.	YES
	Car park entry & access are located on secondary streets or lanes where available	The basement entry is located to the north of the site, on the new road ST3. This is a secondary street in terms of pedestrian activity and vehicle movement.	YES
	Vehicle standing areas that increase driveway width & encroach into setbacks are avoided		N/A
	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		N/A
	The need for large vehicles to enter or turn around within the site is avoided		YES
	Garbage collection, loading & servicing areas are screened		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 .

. Level changes

· Landscaping for separation **BICYCLE & CAR PARKING** 3J 3J-1 **Objective:** Car parking is provided based on proximity to p71 public transport in metropolitan Sydney & centres in regional areas. **Design Criteria**

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YES

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		\checkmark
	Considered	
	YES	
	YES	
		✓
	Considered	

YES



DA DESIGN REPORT

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	A concrete Infrastructure DA will contain an	Considered	
	Where a car share scheme operates locally, car share parking spaces are provided within the development.	A separate Infrastructure DA will contain on street share parking distributed throughout the masterplan.	N/A	
	Where less car parking is provided in a development, council do not provide on street resident parking permits		N/A	
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	Subject to future detailed design development	YES	
3J-3 p73	Objective: Car park design & access is safe and secure.			\checkmark
	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	The basement is mechanically ventilated due to its location below ground. This avoids protrusion of the car park above ground and provides opportunities for a well connected, well activated ground plane.	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.			√
	Design Guidance		Considered	
	On-grade car parking is avoided		YES	

ADG Ref. Item Description 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 th . primary street frontage Cars are screened from view of streets, buildings, communa 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 Stormwater run-off is managed appropriately from car parki surfaces Bio-swales, rain gardens or on site detention tanks are . provided, where appropriate Light coloured paving materials or permeable paving system are used. Shade trees are planted between every 4-5 parking spaces to reduce increased surface temperatures to large areas of paving 3J-6 Objective: Visual & environmental impacts of above grou p75 enclosed car parking are minimised. PART4 DESIGNING THE BUILDING **4A** SOLAR & DAYLIGHT ACCESS 4A-1 **Objective:** To optimise number of apartments receiving p79 sunlight to habitable rooms, primary windows & private of space. Design Criteria 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 3 A maximum of 15% of apartments in a building receive no direct sunlight between 9 am - 3 pm at mid winter Design Guidance

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

Single aspect, single storey apartments have a northerly or easte aspect

Living areas are located to the north and service areas to the sou & west of apartments

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

- Dual aspect apartments
- Shallow apartment layouts
- Two storey &mezzanine level apartments
- Bay windows

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nal &			
		N/A	
king		IN/A	
ms ing			
Ind		N/A	
oen			
			v
	Within Lot S3, 66% of dwellings receive 2 hrs of direct sun between 9am and 3pm at midwinter.		
	Building S3.3 has a south-facing street address, and in response to this, a high		
	proportion of apartments have south-		
	facing living rooms in order to activate the street and also to take advantage of		
t	views over the adjacent parkland. These apartments are typically dual-aspect		
ıl	through-apartments, and as such receive northern sun in winter (generally to		NO
u	bedrooms) as well benefitting from a high- degree of cross ventilation.		
	Private open space is provided to the		
	northern and southern frontages of the through-apartments, such that direct solar		
	access is possible at midwinter. Across Lot S3 the proportion of apartments		
	receiving direct midwinter sun to private open space is 85%.		
)	13% of apartments receive no direct		\checkmark
	sunlight at midwinter.	Considered	•
ct		YES	
erly			
,		NO	
uth	In Building S3.3, some apartments have been designed with south-facing living rooms in		
	order to address the street in that direction, and also take advantage of views over Paine	NO	
nber	Reserve. All apartments layouts are either dual-aspect or		
	shallow in plan.		
		YES	

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 	Dual aspect apartments with south-facing living rooms are proposed in Building S3.3 due to the south-facing street address and the significant views available in this direction.		
	 on south facing sloping sites significant views are oriented away from the desired aspect for direct sunlight Design drawings need to demonstrate how site constraints & orientation preclude meeting Design Criteria & how the development 		N/A	
4A-2 p81	meets the objective. Objective: Daylight access is maximised where sunlight is limited.			\checkmark
1	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		YES	
	 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 Light coloured internal finishes 		YES	
4A-3 p81	Objective: Design incorporates shading & glare control, particularly for warmer months.			~
por	Design Guidance		Considered	
	 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 & planting Horizontal shading to north facing windows 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) 		YES	
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 The area of unobstructed window openings should be equal to at		YES	
	least 5% of the floor area served Light wells are not the primary air source for habitable rooms		N/A	
	 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 Windows that occupants can reconfigure to funnel breezes 		YES	
	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.			V
	Design Guidance		Considered	

ADG Ref.		Item Description		Ν
		Natural ventilation to sin following design solutio Primary windows (generally not suit Stack effect ventil naturally ventilate i bathrooms & laund Courtyards or buil	are augmented with plenums and light wells able for cross ventilation) ation, solar chimneys or similar used to nternal building areas or rooms such as	C rc g li ⁿ e
4B-3 p85		•	of apartments with natural cross vent te comfortable indoor environments for	
		Design Criteria		
1	1	in the first nine storey storeys or greater are if any enclosure of the	ments are naturally cross ventilated is of the building. Apartments at ten deemed to be cross ventilated only balconies at these levels allows tilation and cannot be fully enclosed	8
2	2	Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line		
		Design Guidance		
			ual aspect apartments, cross through partments, and limited apartment depths	
	-	areas on one side of an	nents, external window & door opening sizes/ apartment (inlet side) are approximately ndow & door opening sizes/areas on the nent (outlet side)	
	-	Apartments are designed & rooms that might obs	ed to minimise the number of corners, doors truct airflow	
		Apartment depths, com maximise cross ventilati	nbined with appropriate ceiling heights, ion & airflow	
4C	_	CEILING HEIGHTS		
4C-1 p87		Objective: Ceiling he ventilation & daylight	eight achieves sufficient natural access.	
	_	Design Criteria		
1	1	Measured from finish minimum ceiling heig	ed floor level to finished ceiling level, hts are:	
			mum Ceiling Height I mixed-used buildings (m)	
			mum Ceiling Height	
		for apt and	mum Ceiling Height I mixed-used buildings (m)	
		for apt and Habitable rooms Non-habitable	mum Ceiling Height I mixed-used buildings (m) 2.7	
		for apt and Habitable rooms Non-habitable rooms	mum Ceiling Height I mixed-used buildings (m) 2.7 2.4	
		for apt and Habitable rooms Non-habitable rooms	mum Ceiling Height Imixed-used buildings (m) 2.7 2.4 2.7 for main living area floor 2.4 for second floor, where its area	
		for apt and Habitable rooms Non-habitable rooms For 2 storey apts	mum Ceiling Height mixed-used buildings (m) 2.7 2.4 2.7 for main living area floor 2.4 for second floor, where its area does not exceed 50% of the apt area 1.8 at edge of room with 30deg	
		for apt and Habitable rooms Non-habitable rooms For 2 storey apts Attic spaces If located in mixed- used areas	mum Ceiling Height mixed-used buildings (m)2.72.42.7 for main living area floor 2.4 for second floor, where its area does not exceed 50% of the apt area1.8 at edge of room with 30deg minimum ceiling slope3.3 for ground and first floor to	
		for apt and Habitable rooms Non-habitable rooms For 2 storey apts Attic spaces If located in mixed- used areas	Image: Second system2.72.42.7 for main living area floor2.4 for second floor, where its areadoes not exceed 50% of the apt area1.8 at edge of room with 30degminimum ceiling slope3.3 for ground and first floor topromote future flexibility of use	
		for apt and Habitable rooms Non-habitable rooms For 2 storey apts Attic spaces If located in mixed- used areas These minimums do Design Guidance	Image: Second system2.72.42.7 for main living area floor2.4 for second floor, where its areadoes not exceed 50% of the apt area1.8 at edge of room with 30degminimum ceiling slope3.3 for ground and first floor topromote future flexibility of use	
4C-2 p87		for apt and Habitable rooms Non-habitable rooms For 2 storey apts Attic spaces If located in mixed- used areas These minimums do Design Guidance Ceiling height accommon distribution	mum Ceiling Height mixed-used buildings (m) 2.7 2.4 2.7 for main living area floor 2.4 for second floor, where its area does not exceed 50% of the apt area 1.8 at edge of room with 30deg minimum ceiling slope 3.3 for ground and first floor to promote future flexibility of use not preclude higher ceilings if desired	Та

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perable glass louvre windows to habitable coms combined with generous operable lazed panels to habitable rooms and <i>v</i> ing rooms located off balconies assist to ncourage natural ventilation.	YES	
		✓
3% of dwellings are naturally cross entilated.		✓
		\checkmark
	Considered	
	YES	
		\checkmark
		✓
	Considered	
he ceiling heights to habitable rooms can ccommodate ceiling fans if required.	YES	
		\checkmark
	Considered	

	N REPORT				
ADG Ref.	Item Description		Notes	Compliance	
	A number of the followin	g design solutions are used: in apartment is defined using changes in			
	or double height sp	ternatives such as raked or curved ceilings, baces rooms are provided, for example, smaller		YES	
	rooms feel larger & Ceiling heights are that bulkheads do from floor to floor 8	more spacious with higher ceilings maximised in habitable rooms by ensuring not intrude. The stacking of service rooms coordination of bulkhead location above s, such as robes or storage, can assist		YES	
4C-3 087	Objective: Ceiling he building use over the l	ights contribute to the flexibility of ife of the building.			\checkmark
	Design Guidance			Considered	
		evel apartments should be greater than the esign Criteria allowing flexibility & conversion	The ground floor ceiling heights of Building S3.3 range from 2.7m to 3.3m. Lot S3 is considered a residential precinct, and is not considered a likely location for future retail uses. The provision of new retail in Lots N1 and E1 is considered an important aspect of the Newmarket Green masterplan.	YES	
4D	APARTMENT SIZE	& LAYOUT			
4D-1 p89		t of rooms within apartment is sed & provides a high standard of			√
	Design Criteria				
1	Apartments have the	following minimum internal areas:			
	Apartment Type	Minimum Internal Area (sqm)			
	Studio	35			
	1 Bedroom	50			
	2 Bedroom	70			√
	3 Bedroom	90			
		areas include only one bathroom. increase the minimum internal area by			
	A fourth bedroom & fu minimum internal area	urther additional bedrooms increase the a by 12sqm each			
2	a total minimum glass	has a window in an external wall with area of not less than 10% of the floor light & air is not borrowed from other			√
	Design Guidance			Considered	
	Kitchens is not located a apartments (such as hal	as part of the main circulation space in larger lway or entry space)		YES	
	A window is visible from	any point in a habitable room		YES	
	demonstrate that they a	or room dimensions are not met, apartments re well designed and demonstrate the of the space with realistically scaled furniture as.	Unit plans with realistically scaled furniture are demonstrated on drawing series DA.S3.05.	YES	
4D-2 p89	Objective: Environme maximised.	ental performance of the apartment is			✓
	Design Criteria				
1	ceiling height	is are limited to a maximum of 2.5 x the			~
2		iving, dining & kitchen are combined) oom depth is 8m from a window			~
	Design Guidance			Considered	
		eiling heights allow for proportional up to the permitted max depths	Kitchen depths of approximately 8m to 8.5m have been provided to the open plan layouts with ceilings of 2.7m generally.	YES	

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ADG Ref.	Item Description			
	All living areas & bedroo building	oms are located on t	he external face of	
	 Where possible: bathrooms & laund main living spaces 	dries have external c s are oriented toward from noise sources	ppenable window I the primary outlook	
4D-3 p91	Objective: Apartme accommodate a varie	nt layouts are desi ety of household a	gned to activities & needs.	
	Design Criteria			
1	Master bedrooms ha bedrooms 9sqm (exc			
2	Bedrooms have a mi wardrobe space)	nimum dimension	of 3m (excluding	
3		bined living/dining & 1 bedroom apar droom apartments	tments	
4	The width of cross-or least 4m internally to			
	Design Guidance			
	Access to bedrooms, b areas minimising direct			
	All bedrooms allow a m	inimum length of 1.5	im for robes	
	Main bedroom of aparts wardrobe of minimum 1			
	Apartment layouts allow Dimensions that far removal	-	design solutions incl urniture arrangements	
		e of activities & priva vithin the apartment	cy levels between	
	Dual master apartments			
	title are regarded a of the BCA & for c	artments which are s as two sole occupan alculating mix of apa	separate but on the sa acy units for the purpo artments ns (rectangular space	
	2:3 are more easily	y furnished than squ		
			ble floor space in roo	
4E	PRIVATE OPEN SP			
4E-1 p93	Objective: Apartme open space & balcor			
	Design Criteria			
1	All apartments are re follows:	quired to have prir	nary balconies as	
	Apartment Type	Minimum Area (sqm)	Minimum Depth (m)	
	Studio	4	-	
	1 Bedroom	8	2	
	2 Bedroom	10	2	
	3+ Bedroom	12	2.4	

Design Guidance

Increased communal open space are provided where the number or size of balconies are reduced

	Notes	Compliance	
		YES	
: &	Bathrooms and laundries are typically located to the rear of the apartments in order to maximise daylight and ventilation to habitable bedrooms and living rooms. Living spaces are orientated toward the primary outlook where possible and away from noise sources.	YES	
			\checkmark
r			✓ ✓
			\checkmark
	There are some minor non compliant living rooms with in 2BF, 2BF(U) and 2BH(U) and total 8 units out of the 122. Detailed apartment plans showing realist furniture layouts can be found in the DA.S3.05 drawing series.		
at ts			\checkmark
		Considered	
living		YES	
		YES	
ha		YES	
elude: ts & same oses es ph pms		YES	
te			\checkmark
ng to			√
		Considered	

N/A

DA DESIGN REPORT

NDG Ref.	Item Description Notes	Compliance
	Storage areas on balconies is additional to the minimum balcony size	N/A
	 Balcony use may be limited in some proposals where: consistently high wind speeds at 10 storeys & above close proximity to road, rail or other noise sources exposure to significant levels of aircraft noise heritage & adaptive reuse of existing buildings In these situations, juliet balconies, operable walls, 	N/A
	enclosed wintergardens bay windows are appropriate. Other amenity benefits for occupants are provided in the apartments or in the development or both. Natural ventilation is also demonstrated	
E-2 93	Objective: Primary private open space & balconies are appropriately located to enhance liveability for residents	\checkmark
	Design Guidance	Considered
	Primary open space & balconies are located adjacent to the living room, dining room or kitchen to extend the living space	YES
	POS & balconies predominantly 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
IE-3 095	Objective: Private open space & balcony design is integrated into & contributes to the overall architectural form & detail of the building	✓
	Design Guidance	Considered
	Solid, partially solid or transparent fences & balustrades are selected to respond to the location. They are designed to allow views & passive surveillance of the street while maintaining visual privacy & allowing for a range of uses on the balcony. Solid & partially solid balustrades are preferred	YES
	Full width full height glass balustrades alone are generally not desirable	YES
	Projecting balconies are integrated into the building design. The design of soffits are considered	YES
	Operable screens, shutters, hoods & pergolas are used to control sunlight & wind	YES
	Balustrades are set back from the building or balcony edge where overlooking or where safety is an issue	YES
	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	YES
	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	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 F-1	COMMON CIRCULATION & SPACES Objective: Common circulation spaces achieve good	
097	amenity & properly service the number of apartments	· · · · · · · · · · · · · · · · · · ·

ADG Ref. Item Description 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 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 Daylight & natural ventilation are provided to all common circulation spaces that are above ground Windows are provided in common circulation spaces & are adjacent to the stair or lift core or at the ends of corridors Longer corridors greater than 12m in length from the lift core are articulated. Design solutions include: Series of foyer areas with windows & spaces for seating . 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 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: · Sunlight & natural cross ventilation in apartments Access to ample daylight & natural ventilation in common circulation spaces 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 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 4F-2 **Objective:** Common circulation spaces promote safety & p99 provide for social interaction between residents Design Guidance Direct & legible access are provided between vertical circulation points & apartment entries by minimising corridor or gallery length to give short, straight, clear sight lines Tight corners & spaces are avoided Circulation spaces are well lit at night Legible signage are provided for apartment numbers, common areas & general wayfinding Incidental spaces, eg space for seating in a corridor, at a stair landing, or near a window are provided In larger developments, community rooms for activities such as owners corporation meetings or resident use, are provided & are co-located with communal open space Where external galleries are provided, they are more open than closed above the balustrade along their length 4G STORAGE 4G-1 Objective: Adequate, well designed storage is provided in p101 each apartment Design Criteria

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Notes	Compliance	
		\checkmark
		N/A
	Considered	
	YES	
	N/A	
	N/A	
	YES	
		\checkmark
	Considered	
	YES	
	N/A	
	N/A	
		\checkmark

DA DESIGN REPORT

ADG Ref.	Item Description		Notes	Compliance
1	In addition to storage the following storage i	in kitchens, bathrooms and bedrooms, is provided:	All apartments meet the minimum storage requirements, and all apartments have at	
	Apartment Type	Storage Size Volume (cubic m)	least 50% of the required storage located within the apartment.	
	Studio	4		
	1 Bedroom	6		v
	2 Bedroom	8		
	3+ Bedroom	10		
	At least 50% of the reative the apartment	quired storage is to be located within		
	Design Guidance			Considered
	Storage is accessible fro	om either circulation or living areas		YES
		conies (in addition to the minimum balcony e balcony design, weather proofed & n the street		N/A
	Left over space such as	under stairs is used for storage		YES
4G-2 p101		l storage is conveniently located, ed for individual apartments		v
	Design Guidance			Considered
	Storage not located in a specific apartments	partments is secure and clearly allocated to		YES
	Storage is provided for la	arger & less frequently accessed items		YES
		I or basement car parks is provided at paces or in cages, such that allocated car ible		YES
	If communal storage roc common circulation area	ms are provided they are accessible from as of the building		YES
	Storage not located in apartment is integrated into the overall building design & not visible from public domain			YES
4H	ACOUSTIC PRIVAC	Y		
4H-1 p103	Objective: Noise tran buildings & building la	nsfer is minimised through the siting of yout		v
	Design Guidance			Considered
		ration is provided within the development Idings/adjacent uses (see 2F Building Privacy)		YES
	Window & door opening	s are orientated away from noise sources		YES
		ngs including building entries & corridors are each other while quieter areas are located areas		YES
	Storage, circulation area buffer noise from externa	is & non-habitable rooms are located to al sources		YES
	The number of party wa & are appropriately insul	lls (shared with other apartments) are limited ated		YES
	plant rooms, building se	garage doors, driveways, service areas, rvices, mechanical equipment, active & circulation areas should be located at rooms	The driveway entry to the basement is located within 3m of the easternmost townhouse. The typically narrow plan of the townhouse results in bedroom being located within this zone. A masonry wall is proposed to separate the townhouse and the basement, and window openings are located away from the noise source where possible.	NO
4H-2 p103	Objective: Noise imp through layout & acou	pacts are mitigated within apartments istic treatments		v
	Design Guidance			Considered
	using a number of the fo	t separates noisy spaces from quiet spaces, Illowing design solutions:		
	Doors separate diff	noise requirements are grouped together ferent use zones ooms are co-located to act as sound buffers		YES

Ref. Item Description 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 no conflict with streetscape or other amenity requirements 4J **NOISE & POLLUTION** 4J-1 **Objective:** In noisy or hostile environments impacts of p105 external noise & pollution are minimised through careful sitir & layout 4J-2 **Objective:** Appropriate noise shielding or attenuation p105 techniques for building design, construction & choice of materials are used to mitigate noise transmission Design Guidance 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 enclose balconies (wintergardens) Using materials with mass and/or sound insulation or absorption properties eg solid balcony balustrades, external screens & soffits 4K APARTMENT MIX 4K-1 Objective: A range of apartment types & sizes is provided p107 cater for different household types now & into the future Design Guidance A variety of apartment types is provided The apartment mix is appropriate, taking into consideration: · Distance to public transport, employment & education centre Current market demands & projected future demographic . trends Demand for social & affordable housing Different cultural & socioeconomic groups . Flexible apartment configurations are provided to support diverse household types & stages of life including single person household families, multi-generational families & group households 4K-2 **Objective:** The apartment mix is distributed to suitable p107 locations within the building Design Guidance Different apartment types are located to achieve successful facade composition & to optimise solar access 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 4L GROUND FLOOR APARTMENTS 4L-1 **Objective:** Street frontage activity is maximised where p109 ground floor apartments are located Design Guidance Direct street access are provided to ground floor apartments 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 Retail or home office spaces are located along street frontages 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.

ADG

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	Notes	Compliance	
Э			
		VEO	
		YES	
not			
ng		N/A	
			\checkmark
		Considered	
ad			
ed		YES	
l to			\checkmark
		Considered	
		YES	
es			
		YES	
ds,		YES	
ao,		120	
			\checkmark
le		Considered	
IE		YES	
re		YES	
			\checkmark
		Considered	
		YES	
of			
		YES	
		NI/A	

N/A

N/A

A DESIG	IN REPORT		
ADG Ref.	Item Description	Notes	Compliance
L-2 109	Objective: Design of ground floor apartments delivers amenity & safety for residents		✓
	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 		YES
	 Window sill heights minimise sight lines into apartments Integrating balustrades, safety bars or screens with exterior design 		
	 Solar access is maximised through: High ceilings & tall windows Trees & shrubs allow solar access in winter & shade in summer 		YES
Μ	FACADES		
M-1 111	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 Defined base, middle & top of buildings Revealing & concealing certain elements 		YES
	Building services are integrated within the overall facade		YES
	 proportion to streetscape & with consideration of human scale. Solutions include: Well composed horizontal & vertical elements Variation in floor heights to enhance the human scale 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 		YES
	Building facades relate to key datum lines of adjacent buildings through upper level setbacks, parapets, cornices, awnings or colonnade heights		YES
	Shadow is created on the facade throughout the day with building articulation, balconies & deeper window reveals		YES
M-2 111	Objective: Building functions are expressed by the facade		✓
	Design Guidance		Considered
	Building entries are clearly defined Important corners are given visual prominence through change in		YES
	articulation, materials or colour, roof expression or changes in height Apartment layout is expressed externally through facade features		YES
J	such as party walls & floor slabs ROOF DESIGN		
N-1 13	Objective: Roof treatments are integrated into the building design & positively respond to the street		✓
	Design Guidance		Considered
	 Roof design relates to the street. Design solutions include: Special roof features & strong corners Use of skillion or very low pitch hipped roofs 		
	 Use of skillion or very low pitch hipped roots Breaking down the massing of the roof by using smaller elements to avoid bulk Using materials or pitched form complementary to adjacent 		YES
	buildings		

ADG Ref.	Item Description	Nc
	Roof treatments are integrated with the building design. Design	
	solutions include: Roof design is in proportion to the overall building size, scale 	
	& form	
	Roof materials compliment the building	
4N-2	Service elements are integrated Objective: Opportunities to use roof space for residential	
p113	accommodation & open space are maximised	
	Design Guidance	
	Habitable roof space are provided with good levels of amenity. Design solutions include:	
	Penthouse apartments	
	Dormer or clerestory windows	
	· Openable skylights	
	Open space is provided on roof tops subject to acceptable visual & acoustic privacy, comfort levels, safety & security considerations	
4N-3 p113	Objective: Roof design incorporates sustainability features	
1	Design Guidance	
	Roof design maximises solar access to apartments during winter &	
	 provides shade during summer. Design solutions include: Roof lifts to the north 	
	• Eaves & overhangs shade walls & windows from summer sun	
	Skylights & ventilation systems are integrated into the roof design	
40	LANDSCAPE DESIGN	
40-1 p115	Objective: Landscape design is viable & sustainable	
	Design Guidance	
	Landscape design is environmentally sustainable & can enhance environmental performance by incorporating:	
	Diverse & appropriate planting	
	Bio-filtration gardens	
	 Appropriately planted shading trees Areas for residents to plant vegetables & herbs 	
	Composting	
	Green roofs or walls	
	Ongoing maintenance plans are prepared	
	Microclimate is enhanced by:	
	 Appropriately scaled trees near the eastern & western elevations for shade 	
	 Balance of evergreen & deciduous trees to provide shading in summer & sunlight access in winter 	
	Shade structures such as pergolas for balconies & courtyards	
	Tree & shrub selection considers size at maturity & the potential for roots to compete.	
40-2	Objective: Landscape design contributes to streetscape &	
p115	amenity	
	Design Guidance Landscape design responds to the existing site conditions including:	
	Changes of levels	
	· Views	
	Significant landscape features including trees & rock outcrops	
	Significant landscape features are protected by: • Tree protection zones	
	Appropriate signage & fencing during construction	
	Plants selected are endemic to region & reflect local ecology	
4P	PLANTING ON STRUCTURES	
4P-1 p117	Objective: Appropriate soil profiles are provided	

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otes	Compliance	
	YES	
		\checkmark
	Considered	
	YES	
	YES	
		\checkmark
	Considered	
	YES	
	YES	
		\checkmark
	Considered	-
	YES	
	YES	
	YES	
	YES	
		\checkmark
	Considered	
	YES	
	YES	
	YES	
		\checkmark

DA DESIGN REPORT

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A	1 1 7

ADG Ref.	Item Description		Notes	Compliance	
	Design Guidance			Considered	
	Structures are reinforce	ed for additional saturated soil weight		YES	
				YES	
		s for plant sizes should be provided in			
	accordance with:				
	Site Area (sqm)	Recommended Tree Planting			
	Up to 850	1 medium tree per 50sqm of deep soil zone		YES	
	850 - 1,500	1 large tree or 2 medium trees per 90sqm of deep soil zone			
	Greater than 1,500	1 large tree or 2 medium trees per 80sqm of deep soil zone			
4P-2 p117	Objective: Plant gro selection & maintena	owth is optimised with appropriate Ince			\checkmark
	Design Guidance			Considered	
	 Drought & wind to Seasonal change 			YES	
	A landscape maintenar	nce plan is prepared		YES	
		nditions ting regime r, stormwater or recycled grey water is used		YES	
4P-3 p117		on structures contributes to the quality & al & public open spaces			\checkmark
	Design Guidance			Considered	
	Design solutions includ Green walls with s Wall design that ir Green roofs, parti domain Planter boxes	prates opportunities for planting on structures. le: specialised lighting for indoor green walls neorporates planting cularly where roofs are visible from the public and to accommodate green walls should	The proposed development incorporates planting at ground level throughout the communal open space. Planting is also proposed at the Level 4 and level 7 terraces.	YES	
		uilding facade & consider the ability of the			
4Q	UNIVERSAL DESIG	GN			
4Q-1 p119		I design features are included in promote flexible housing for all s			√
	Design Guidance			Considered	
		ve a benchmark of 20% of the total ating the Livable Housing Guideline's design features		YES	
4Q-2 p119	Objective: A variety are provided	of apartments with adaptable designs			\checkmark
	Design Guidance			Considered	
	Adaptable housing sho relevant council policy	ould be provided in accordance with the		YES	

Ref.	Item Description	Notes	Compliance	
	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 		YES	
	Larger car parking spaces for accessibility			
	Parking titled separately from apartments or shared car parking arrangements			
4Q-3 p119	Objective: Apartment layouts are flexible & accommodate a range of lifestyle needs			•
	Design Guidance		Considered	
	Flexible design solutions include:	All apartment plans feature open plan living		
	Rooms with multiple functions	arrangements and at least 2 bathrooms to the 2 bedroom and 3 bedroom layouts.		
	Dual master bedroom apartments with separate bathrooms		YES	
	Larger apartments with various living space options			
	 Open plan 'loft' style apartments with only a fixed kitchen, laundry & bathroom 			
4R	ADAPTIVE REUSE			Ν
4S	MIXED USE			١
4T	AWNING & SIGNAGE			١
4U	ENERGY EFFICIENCY			
4U-1 p127	Objective: Development incorporates passive environmental design.			
	Design Guidance		Considered	
	Adequate natural light is provided to habitable rooms (see 4A Solar & Daylight Access)	All apartments receive adequate natural light to all habitable rooms, whether direct or indirect.	YES	
	Well located, screened outdoor areas are provided for clothes drying		YES	
4U-2 p127	Objective: Passive solar design is incorporated to optimise heat storage in winter & reduce heat transfer in summer.			
	Design Guidance		Considered	
	A number of the following design solutions are used:			
	· Use of smart glass or other on north & west elevations			
	 Thermal mass maximised in floors & walls of north facing rooms 			
	Polished concrete floors, tiles or timber rather than carpet		YES	
	 Insulated roofs, walls & floors. Seals on window & door openings 			
	Overhangs & shading devices such as awnings, blinds & screens			
	Provision of consolidated heating & cooling infrastructure is located in a centralised location (eg basement)		YES	
4U-3 p127	Objective: Adequate natural ventilation to minimise the need for mechanical ventilation.			1
	Design Guidance		Considered	
	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 & as many non-habitable rooms, common areas & circulation spaces as 		YES	
4V	possible WATER MANAGEMENT & CONSERVATION			
4V-1	Objective: Potable water use is minimised.			
p129	Design Guidance		Considered	
	Water efficient fittings, appliances & wastewater reuse are incorporated		YES	
	Apartments are individually metered		YES	
	······································		YES	

	AN REPORT		
ADG Ref.	Item Description	Notes	Compliance
	Drought tolerant, low water use plants are used within landscaped areas		YES
V-2 0129	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		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 Porous & open paving materials is maximised On site stormwater & infiltration, including bio-retention systems such as rain gardens or street tree pits 		YES
V-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		YES
	On large sites, parks or open spaces are designed to provide temporary on site detention basins		N/A
W	WASTE MANAGEMENT		
IW-1 0131	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
W-2 131	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	Subject to detailed design development	YES
X	BUILDING MAINTENANCE		
X-1 133	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 Hoods over windows & doors to protect openings Detailing horizontal edges with drip lines to avoid staining 		YES
	 Detailing for 20 that edges with drip lines to avoid starting surfaces Methods to eliminate or reduce planter box leaching Appropriate design & material selection for hostile locations 		
IX-2	Objective: Systems & access enable ease of maintenance.		

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ADG Ref.	Item Description	Notes	Compliance
	Window design enables cleaning from the inside of the building	Subject to detailed design development. The majority of glazing is operable and located on balconies. Smaller fixed windows are typically able to be cleaned via adjacent operable windows.	YES
	Building maintenance systems are incorporated & integrated into the design of the building form, roof & facade		YES
	Design does not require external scaffolding for maintenance access		YES
	Manually operated systems such as blinds, sunshades & curtains are used in preference to mechanical systems		YES
	Centralised maintenance, services & storage are provided for communal open space areas within the building		YES
4X-3 o133	Objective: Material selection reduces ongoing maintenance costs.		١
	Design Guidance		Considered
	 A number of the following design solutions are used: Sensors to control artificial lighting in common circulation & spaces Natural materials that weather well & improve with time, such as face brickwork Easily cleaned surfaces that are graffiti resistant Robust & durable materials & finishes in locations which receive heavy wear & tear such as common circulation areas & lift interiors 	All materials selected for Lot S3 are robust and durable. These include brickwork, anodised aluminium panels and powdercoated aluminium screens, each of which require minimal long term maintenance.	YES