Architecture Urban Design Interiors

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7/05/2021

John Fitzgerald Development Manager Landmark Group 25/88 Philip Street Sydney NSW 2000 T +61 282 110 436 E Adam@landmarkgr.com

Dear Anthony

Re: 2 Delmar Parade, Deewhy - DA No. 2017/1183, Mod2020/0081

I, Ben Pomroy confirm that pursuant to Clause 50(1AB) of the Environmental Planning and Assessment Regulation 2000 (**EPA Reg**), I am a qualified architect, which means a person registered as an architect in accordance with the Architects Act 2003, as defined by Clause 3 of the EPA Reg.

I directed the design of the proposed development stated above and I provide the accompanying explanation to verify that the proposed development achieves the design quality principles set out in Schedule 1 of the State Environmental Planning Policy No. 65 – Design Quality Principles.

I also provide the accompanying summary to verify, in terms of the Apartment Design Guide, how the proposed development achieves the objectives of Part 3 & 4 of that guide.

Yours sincerely, Ben Pomrov

Principal

Nominated Architect (NSW): Ben Pomroy Registration Number: 7918

- Encl. Sepp65 Statement ADG Objectives Review
- CC. Aaron Sutherland Russell Isaac-Cole

Principals Shane Rothe, Kim Lowman, Nigel Hobart, Chris Hayton, Stuart Marsland, Jonothan Cowle, Jeff Brown, Duncan Betts, Ben Pomroy

SEPP 65 Design **Quality Principles** Statement

2 Delmar Parade

Dee Why, NSW 2099



Project no. 219132 Status \$4.55





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Principle 1: Context & Neighbourhood Character

Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions.

Responding to context involves identifying the desirable elements of an area's existing or future character. Well-designed buildings respond to and enhance the qualities and identity of the area including the adjacent sites, streetscape and neighbourhood.

Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.

Comment:

The subject property comprises of one allotment addressing Delmar Parade and Pittwater Road in the suburb of Dee Why. The allotment is currently occupied by a two storey commercial development and ancillary car parks.

An approved DA on the subject site was based on the additional height and FSR anticipated for the area. This proposal seeks to modify and improve the approved scheme. The proposed development responds to the existing context and recognises that the locality is undergoing a transition towards higher densities and heights, as enabled by the planning controls which have been developed to encourage development and promote a liveable city.

The new building will contribute to the identity of the area with the incorporation of ground level retail and street front activation and articulated built form, whilst at the same time will not dominate or be overbearing upon its adjoining neighbours or the streetscape blending in with the future form.

Principle 2: Built Form & Scale

Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings.

Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements.

Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook.

Comment:

The built form of the proposed development is appropriate in the Delmar Parade and Pittwater Road streetscapes and achieves the objectives of the relevant built form controls. The refined podium and tower forms adhere to the street setbacks to hold the comer of Delmar Parade and Pittwater Road.

Three architectural treatments are given to distinguish the ground floor retail, residential podium and residential tower. The articulated street wall forms of the podium and tower creates a significant acoustic barrier for the central courtyard that is carved out for communal open space.

The building facades have been articulated and setback to provide an appropriate level of visual bulk when viewed from surrounding areas and will achieve the desired future character of the area.

Principle 3: Density

Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context.

Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment.

Comment:

The proposed development density is appropriate for the site and existing context.

The site's allowable total FSR is 3.2:1 and a height limit of 24m. The proposal achieves a total FSR of 3.08:1 a total area of 6344 m^2 which is within the allowable 3.2:1 FSR

The development comprises retail, commercial, and residential apartments. The retail spaces are located on the ground level and have a total area of 208 m². The commercial spaces are also located on the ground level and have a total area of 324 m², while the 71 residential apartments are located on the first level to the sixth level and have a total area of 5328 m².

Principle 4: Sustainability

Good design combines positive environmental, social and economic outcomes.

Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials and deep soil zones for groundwater recharge and vegetation.

Comment:

The design makes efficient use of natural resources, energy and water throughout its full cycle, including construction.

Energy efficient building response is developed through passive design and sun control elements. The building design is characterised by exceptional and dynamic qualities of space, natural light, air flow and solar access to achieve high personal comfort and low energy consumption.

The living areas of the apartments have been orientated to maximise sunlight, daylight and natural ventilation. The apartments are accessed from a single lift lobby, eliminating internal double loaded corridors; the living areas of the apartments are all orientated to the North to achieve excellent solar access and district views. Overall the project has 100% (71) Residential apartments with 2 hours' solar access between 9.00am and 3.00 pm, and 93% (66) Residential apartments are cross-ventilated, by either cross or corner air flow. All the units have been designed to maximise natural ventilation, through the provision of dual aspect units and kitchens within 8 metres of windows. The development will not be reliant upon automatic climate control to provide appropriate amenity for residents.

The carbon footprint is further reduced by energy efficient appliances; fittings and services such as water reduction showerheads; dual flush toilets; gas cook tops; microwave ovens; and energy efficient hot water systems.

Waste minimisation and recycling strategies have been incorporated into the development.

Principle 5: Landscape

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well-designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood.

Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, co-ordinating water and soil management, solar access, micro-climate, tree canopy, habitat values and preserving green networks.

Good landscape design optimises useability, privacy and opportunities for social interaction, equitable access, respect for neighbours' amenity and provides for practical establishment and long-term management.

Comment:

The existing site does not provide any areas of high-quality landscaping. Formal landscape area is provided on the east side and centre of the first level adjoining the communal open space areas. The landscaping provided will contribute to the enjoyment of these areas.

Principle 6: Amenity

Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident wellbeing.

Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas and ease of access for all age groups and degrees of mobility.

Comment:

The architectural design provides enhanced amenity through the physical, spatial and environmental qualities of the development. The development comprises 71 residential apartments with a mix of 29×1 beds (31%), 37 x 2 beds (55.5%), 5 x 3 beds (13.6%) and includes 7 adaptable apartments (10%).

A total of 113 car spaces are provided on ground and through-out two levels of basements with secure parking comprising 83 residential apartments' car spaces, 17 retail car spaces and 14 visitor car spaces including parking for the accessible and adaptable apartments. Each apartment is provided a storage cage in the basement with a minimum volume of 4m³ in addition to storage provided within the apartment.

The apartments have been designed to achieve solar access, natural ventilation, visual and acoustic privacy, storage, indoor and outdoor open space, diverse layouts, service areas, outlook and ease of access and mobility for all ages.

The internal sizes of each apartment room is at or above the minimums set out in the Apartment Design Guide, with the internal layouts focused on generous living area, and high levels of access to natural light.

Principle 7: Safety

Good design optimises safety and security within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety.

A positive relationship between public and private spaces is achieved through clearly defined secure access points and well-lit and visible areas that are easily maintained and appropriate to the location and purpose.

Comment:

The design of the development optimises safety and security, both internal to the development and to the public domain. Safety and security have also been considered in accordance with CPTED principles of surveillance, access, territorial reinforcement and space management.

The pedestrian entry point is highly visible from both the internal area of the development and the public domain which will allow safe access and egress from and to the building. The development has been designed to avoid hidden corners or concealment points with secure gates provided to any deep recesses within the building form. The apartment and corridor layouts encourage passive surveillance over the street and communal open spaces.

Controlled vehicular access to the building is provided by secure car park access from Delmar Parade, with direct access from the car park to the lift lobbies for residents, the audio intercom system at the main entry lobby, car park entry to communicate with residents and key card access for residents.

Principle 8: Housing Diversity and Social Interaction

Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets.

Well-designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix.

Good design involves practical and flexible features, including different types of communal spaces for a broad range of people and providing opportunities for social interaction among residents.

Comment:

All residential units and basement parking areas are accessible by lift and close regard has been made in the design to ensure that an appropriate number of units could be adopted to suit the needs of people with disabilities or the elderly.

The apartments facing Pittwater Rd have been designed to benefit from a breezeway typology, locating bedrooms away from Pittwater Rd. The spatial arrangement includes a 'back yard' space adjoining the circulation breezeway and balcony to the 'front'. This allows apartments to address both the street and internal courtyard, opening vistas to views and the streetscape.

Principle 9: Aesthetics

Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures.

The visual appearance of a well-designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape.

Comment:

An appropriate composition of building elements, material textures and colours have been utilized to reflect the positive elements of the existing neighbourhood.

The design is composed of predominantly glazed ground floor walls to encourage and maximise street activation to retail and commercial spaces. The bulk and mass of the podium is emphasised by the brick balustrade walls and dark cement rendered external walls, both of which help the form to hold the street corner. The upper levels are composed of white cement render and Hebel Power Panels or similar diminish the effective height of the tower form whilst providing contrast to the podium.

The building has been designed to promote visual interests and avoid blank unarticulated walls. The front façade is composed in bay elements with strong horizontality and material change to provide a visual segmentation of the building.

The development will positively contribute to the desired future character of the area. The design responds well to the present and future character of the surrounding area through the use of rich but simple material selections, proportions and simple building forms.



Brisbane, Melbourne, Sydney rothelowman.com.au

Apartment Design Guide Objectives – Part 3 & 4

2 Delmar Parade Dee Why, NSW 2099



219132 Status



7/05/2021

Date /

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Rev C

Revision	Date	Notes – Revisions are noted in bold italics
A	26/02/2020	S4.55 Submission
В	05/08/2020	RFI Response
С	07/05/2021	S4.55 Submission

	Objective	Design Criteria	Objective Achieved	Comment
Part 3 Siting the	Development			
Site Analysis		that design decisions have been based on te conditions and their relationship to the	Yes	An extensive site analysis, site concept and masterplan has been completed based on a multi-layer urban design and context study.
Orientation				The proposed building is aligned to the street grid and creates a block-defining urban form. The building is primarily oriented in a north-south axis. This north-south axis maximises equitable solar access to the apartments. All apartments resultantly receive two hours solar access via either the east or west.
	Objective 3B-2 Overshadowing of nei winter	ghbouring properties is minimised during mid-	Yes	The subject site is separated from neighbouring properties to the east and south, with roads at the north and west interfaces, providing appropriate separation to reduce overshadowing. The proposed built form has a narrow southern frontage to assist solar access to 816-818 Pittwater Rd.
Public Domain Interface			Yes	Access from the public street to the building entries are straight, clear and legible, providing safe access to the proposed development. Pedestrian paths are activated with commercial frontages, and private terraces and entries, providing passive surveillance of all areas.
	Objective 3C-2 Amenity of the public	domain is retained and enhanced	Yes	The public domain of all adjacent streets is enhanced with active commercial frontages on the ground floor. The building entries are legible and all services, loading and car parking, where possible, are located in secure zones behind screening.

	Objective	Design Criteria			Objective Achieved	Comment
Communal and Public Open Space	Objective 3D-1 An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping	Communal open space has a minimum area equal to 25% of the site (see figure 3D.3) 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)			Yes	The communal open space exceeds the 25% minimum as identified in the communal open space drawings. The communal open space will include high quality landscaping and place making features such as plantings, bench seating and terraces promoting high amenity and useability of the space. 50% of the principal useable parts of the communal open space achieve a minimum of 2 hours direct sunlight between 9:00 am and 3:00pm
	Objective 3D-2 Communal open spac respond to site conditions and be attr			of activities,	Yes	Communal open spaces provide a selection of sub-spaces with varying uses, to allow for simultaneous use by multiple groups. The Architectural and landscape drawings articulate the open space and landscaping strategy.
	Objective 3D-3 Communal open spac	e is designed to maximise safety			Yes	Communal open spaces are clearly defined and legible with open areas. They are overlooked by private terraces and upper level apartments, promoting passive surveillance.
	Objective 3D-4 Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood			e existing	N/A	Publicly-owned open space is not provided in the proposed development.
Deep Soil Zones	Objective 3E-1 Deep soil zones provide areas on the site that allow					With provision for necessary engineering infrastructure on the ground floor, the full site is utilised. To offset, formal landscape
	for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality	Site Area	Min Dimensions	Deep Soil Zone (% of Site Area)	_	areas are provided on the east side and centre of the first floor, adjoining the communal open space areas.
		Less than 650m²	-	7%		
		650m ² -1500m ²	Зт	-		
		Greater than 1500m ²	6m	-		
		Greater than 1500m ² with significant tree cover	6m	_		
Visual Privacy	Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy	Separation between windows and balconies is provided to ensure visual privacy is achieved. Minimum required separation distances from buildings to the side and rear boundaries are as follows:			Yes	The Apartment Design Guide provides an 'Objective', followed by 'Design Criteria' and also 'Design Guidance'. The Apartment Design Guide provides that these perform the following role:

Objective	Design Criteria			Objective Achieved	Comment
Note: Separation distances between buildings on the same site should combine required building	Building Height	Habitable rooms and balconies	Non- habitable rooms		 A description of the topic and an explanation of its role and importance Objectives that describe the desired design outcomes
separations depending on the type of room	Up to 12m (4 storeys)	6m	3m		 3.Design criteria that provide the measurable requirements for how an objective can be achieved. 4.Design guidance that provides advice on how the objectives and design criteria can be achieved through appropriate
	Up to 25m (5- 8 storeys)	9m	4.5m		design responses, or in cases where design criteria cannot be met.
	Over 25m (9+ storeys)	12m	6m		 Objective 3F-1 of the ADG states the following: Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy Therefore, the desired outcome is to 'achieve reasonable levels of external and internal visual privacy'. The Design Criteria provides a measurable standard which, if satisfied, is one method for demonstrating that this objective is achieved. The measurable standard is a separation distance from the boundary of 6 metres for habitable rooms and balconies up to 4 storeys, and 9 metres for habitable rooms and balconies from 5-8 storeys. This measurable standard is one method for demonstrating the achievement of the desired design outcome of the Objective but does not preclude an alternative method for achieving this objective. In this instance, the proposal adopts alternative performance-based design solutions for demonstrating the achievement of the desired outcome for reasonable levels of visual privacy to the east. These include: 9 m setbacks to glazing lines. 0 paque high-level windows (1800mm sill height) where glazing lines are within the 9m setback. 1000mm wide planter boxes at balcony edges. 500mm high horizontal louvers installed on the external side of planter boxes which prevents horizontal and downward views. The net result is the provision for higher levels of visual privacy than that which would be achieved with a 9 metre setback.

	Objective	Design Criteria	Objective Achieved	Comment
				party wall condition as windows on this elevation are screened secondary windows. Articulation and visual interest are accordingly achieved on this facade, which importantly addresses the approach view coming into the Dee Why town centre, especially in the short term before 816 Pittwater Road is developed.
				In addition, landscaping on Level 4 enhances the visual separation of the two sites, with screen planting proposed within planter boxes. Here no areas for seating or external entertainment are catered for along the common boundary, with the primary open space being on the Pittwater Road frontage.
				Accordingly, the proposed design successfully satisfies Objective 3F-1 of the ADG in that reasonable levels of external and internal visual privacy are achieved by the application. For further information please refer to the sections in the S4.55
		sign elements increase privacy without ir and balance outlook and views from habitable	Yes	document. The comprehensive solar and view analysis has allowed for buildings to be sited, and heights modulated, to take advantage of keys views and solar access. Privacy between apartments has been considered in the building separation and internal space planning.
Pedestrian Access and Entries	Objective 3G-1 Building entries and the public domain	pedestrian access connects to and addresses	Yes	The apartment lobby clearly addresses Delmar Parade. Care has been taken to create legible and permeable access for pedestrians throughout the development.
	Objective 3G-2 Access, entries and	pathways are accessible and easy to identify	Yes	Where possible, high ceiling entry spaces have been provided to create access points visible from the public domain
	Objective 3G-3 Large sites provide p connection to destinations	pedestrian links for access to streets and	N/A	
Vehicle Access		is are designed and located to achieve safety, ans and vehicles and create high quality	Yes	Car park and loading access points are consolidated to minimise interruption to street frontages. The vehicle access points are clear and legible, and separated from pedestrian entries to separate the movements of each.
Bicycle and Car Parking	Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional	For development in the following locations: on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or	Yes	Car parking has been provided in exceedance of the rates provided in the Amended Warringah DCP 2011 for developments with the Dee Why Town Centre.
	areas	on land zoned, and sites within 400 metres of land zoned, B3 Commercial Core, B4 Mixed		

	Objective	Design Criteria	Objective Achieved	Comment
		Use or equivalent in a nominated regional centre the minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less The car parking needs for a development must be provided off street.		
	Objective 3J-2 Parking and facilities a	re provided for other modes of transport	Yes	Secure bicycle parking is provided in the basements which exceeds Councils' minimum requirements. In addition, storage cages in the basements are large enough to accommodate bicycles.
	Objective 3J-3 Car park design and ad	ccess is safe and secure	Yes	The car parks are secured with electronic, automated doors triggered by residents. The aisles are clear and unobstructed with clear lines of site to fire stairs and to lift entrances.
	Objective 3J-4 Visual and environmen minimised	tal impacts of underground car parking are	Yes	
	Objective 3J-5 Visual and environmen minimised	tal impacts of on-grade car parking are	Yes	The majority of car parking is located within basements. Any on-grade parking is screened behind commercial or retail spaces and roofed with landscaped areas.
	Objective 3J-6 Visual and environmen parking are minimised	tal impacts of above ground enclosed car	N/A	
Solar and Daylight Access	Objective 4A-1 To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space	Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas	Yes	All apartments achieve two hours of solar access between 9am and 3pm in midwinter. Please refer to a breakdown of solar access per unit in the architectural drawings.
		In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at mid-winter	N/A	
		A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid-winter	Yes	There are no south facing apartments, and no apartments receive no sun in mid-winter.
	Objective 4A-2 Daylight access is may	kimised where sunlight is limited	N/A	

	Objective	Design Criteria	I	Objective Achieved	Comment
	Objective 4A-3 Design incorporates s months	hading and glare c	control, particularly for warmer	Yes	The articulated facades are designed for summer shading with deep balconies.
Natural	Objective 4B-1 All habitable rooms ar	e naturally ventilat	ed		Openable windows are proposed for all habitable rooms.
Ventilation	Objective 4B-2 The layout and design ventilation	of single aspect a	partments maximises natural		Openable windows are proposed for all habitable rooms.
	Objective 4B-3 The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents	ross cross ventilated in the first nine storeys of the building.		Yes	Most apartments (93%) are naturally cross ventilated. Single- aspect apartments have been designed with open-plan layouts and dual frontages to both streetscape and internal courtyard to maximise any available natural ventilation.
		through apartme	^r a cross-over or cross- ent does not exceed 18m, line to glass line		
Ceiling Height	<i>Objective 4C-1 Ceiling height achieves sufficient natural ventilation and daylight access</i>	Measured from finished floor level to finished ceiling level, minimum ceiling heights for apartment and mixed-use buildings are:		Yes	The floor-to-floor height on the ground floor enables a 3600mn ceiling to the retail and commercial tenancies. The floor-to-floor heights of the residential levels allow
		Habitable Rooms	2.7m	-	2700mm ceilings to all living areas and bedrooms.
		Non-Habitable	2.4m		
		For 2 Storey Apartments	2.7m for main living area floor 2.4m for second floor, where its area does not exceed 50% of the apartment area		
		Attic Spaces	1.8m at edge of room with a 30-degree minimum ceiling slope		
		If located in mixed use areas	3.3m for ground and first floor to promote future flexibility of use		
	Objective 4C-2 Ceiling height increase provides for well-proportioned rooms		ace in apartments and	Yes	Bulkheads are to be minimised as much as possible with flat ceilings in living areas and bedrooms.
	Objective 4C-3 Ceiling heights contril of the building	oute to the flexibilit	ty of building use over the life	Yes	Ceiling heights of the retail and commercial spaces on ground are maximised to allow for a variety of uses.



	Objective	Design Criteria		Objective Achieved	Comment
Apartment Size and Layout	Objective 4D-1 The layout of rooms within an apartment is functional,	Apartments are requ minimum internal are	ired to have the following eas:	Yes	Please refer to a per-unit schedule of apartment sizes in the architectural drawings.
	well organised and provides a high standard of amenity	Apartment Types	Minimum Internal Area		
		Studio	35 <i>m</i> ²		
		1 Bedroom	50m ²		
		2 Bedroom	70m ²		
		3 Bedroom	90m ²		
		The minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5m ² each. A fourth bedroom and further additional bedrooms increase the minimum internal area by 12m ² each Every habitable room must have a window in an external wall with a total minimum glass area of not less than 10% of the floor area of the room. Daylight and air may not be borrowed from other rooms			
	Objective 4D-2 Environmental performance of the apartment is maximised	Habitable room dept maximum of 2.5 x th		Yes	
		and kitchen are com	(where the living, dining bined) the maximum h is 8m from a window	Yes	
	Objective 4D-3 Apartment layouts are designed to accommodate a variety of household activities and needs		ave a minimum area of Irooms 9m2 (excluding	Yes	
		Bedrooms have a mi (excluding wardrobe	inimum dimension of 3m space)	Yes	
		have a minimum wio	1-bedroom apartments	Yes	

	Objective			Objective Achieved	Comment	
				Yes		
Private Open Space and	Objective 4E-1 Apartments provide appropriately sized private open	All apartments a balconies as foll		have primary	Yes	Please refer to a per-unit schedule of balcony sizes in architectural drawings.
Balconies	space and balconies to enhance residential amenity	Dwelling type	Minimum Area	Minimum Depth	-	
		Studio	4m ³	-		
		1 bedroom	8 <i>m</i> ³	2m		
		2 bedrooms	10m ³	2m		
		3+ bedrooms	12m³	2.4m		
		The minimum ba as contributing t				
		For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a minimum area of 15m ² and a minimum depth of 3m.			Yes	As above
	Objective 4E-2 Primary private open space and balconies are appropriately located to enhance liveability for residents				Yes	All primary balconies and terraces are located adjacent to a living space.
	Objective 4E-3 Private open space an contributes to the overall architectural	Objective 4E-3 Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building				The balconies form an integral part of the building design.
	Objective 4E-4 Private open space an	•			Yes	All balconies can meet the minimum safety provisions
Common Circulation and Spaces	Objective 4F-1 Common circulation spaces achieve good amenity and		The maximum number of apartments off a circulation core on a single level is eight			The maximum number of units off a single core on any level is fourteen. Where the number of units per core exceeds eight, natural light and ventilation to the lobby has been pursued.

	Objective	Design Criteria		Objective Achieved	Comment
	properly service the number of apartments		storeys and over, the of apartments sharing a	N/A	An additional lift is also provided in these cases such that the maximum number of apartments served per lift is 40.
	Objective 4F-2 Common circulation interaction between residents	n spaces promote safety	and provide for social	Yes	The ground floor lobby has been designed to allow a direct, clear and legible access from the street.
Storage	Objective 4G-1 Adequate, well designed storage is provided in each apartment		ge in kitchens, bathrooms following storage is	Yes	All apartment storage meets or exceeds the minimum standard. Most units have more than 50% of the storage internal to the
		Dwelling Type	Storage size volume	-	unit. Each apartment also has been a basement storage cage.
		Studio	4m ³	-	Please refer to a per-unit schedule of internal storage sizes in the architectural drawings.
		1 bedroom	6 <i>m</i> ³	-	the architectural trawings.
		2 bedrooms	8 <i>m</i> ³	-	
		3+ bedrooms	10m ³	-	
		At least 50% of the located within the a	required storage is to be apartment		
	Objective 4G-2 Additional storage i for individual apartments	is conveniently located,	accessible and nominated	Yes	Secure basement storage is clearly and accessibly located in the car park.
Acoustic Privacy	Objective 4H-1 Noise transfer is mi building layout	nimised through the siti	ng of buildings and	Yes	Care has been taken to avoid major acoustic clashes and limiting windows onto narrow spaces. Secondary terraces are provided and orientated away from Pittwater Road to mitigate road noise impacts.
	Objective 4H-2 Noise impacts are r acoustic treatments	nitigated within apartme	ents through layout and	Yes	Care has been taken to co-locate similar room types where possible and to use buffers, such as wardrobes, between different spaces.
Noise and Pollution	Objective 4J-1 In noisy or hostile en pollution are minimised through the			Yes	Apartments facing Pittwater Road are provided with secondary terraces are provided and orientated away from Pittwater Road to mitigate road noise and pollution.
	Objective 4J-2 Appropriate noise su design, construction and choice of			N/A	
Apartment Mix	Objective 4K-1 A range of apartme. household types now and into the t		t types and sizes is provided to cater for different ture		The building provides a mix of 1, 2, and 3 bedroom apartments to meet market needs. Breezeway apartments are provided to further diversify housing choice within the development.
	Objective 4K-2 - The apartment mix building	x is distributed to suitab	le locations within the	Yes	Apartment types are mixed throughout the building.
Ground Floor Apartments	Objective 4L-1 Street frontage activ are located	vity is maximised where	ground floor apartments	N/A	

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	Objective	Design Criteria	Objective Achieved	Comment
	Objective 4L-2 Design of ground floo residents	or apartments delivers amenity and safety for	N/A	
Facades	Objective 4M-1 Building facades pro respecting the character of the local	ovide visual interest along the street while area	Yes	Care has been taken to ensure proportionally-balanced- buildings which fit within the surrounding future context. A diverse mix of façade typologies has been developed for this project to give each form a unique presence.
	Objective 4M-2 Building functions a	re expressed by the facade	Yes	Each façade confidently addresses its specific function through varying materials and forms, with high proportions of glazing expressing retail and commercial functions in contrast to the more solid residential component.
Roof Design	Objective 4N-1 Roof treatments are respond to the street	integrated into the building design and positively	Yes	The roof has been carefully integrated into the overall aesthetic of the facades and neighbouring context.
	Objective 4N-2 Opportunities to use open space are maximised	roof space for residential accommodation and	Yes	A large communal space is provided on top of the podium.
	Objective 4N-3 Roof design incorpo	rates sustainability features	Yes	Roof areas will be intensively thermally insulated to maximise passive thermal comfort in the upper-most apartments.
Landscape Design	Objective 40-1 Landscape design is	viable and sustainable	Yes	The landscape design has a focus on amenity with the inclusion of key place making elements such as seating and terraces. Simple design elements, high quality materiality of hardscaping along with an appropriate mix of native and introduced plant species will be a long lasting, easy to maintain landscape which can be adapted to suit a variety of uses over time.
	Objective 40-2 Landscape design c	ontributes to the streetscape and amenity	Yes	The landscape design maximises the amenity of the communal open space by balancing planted areas with areas for residents to relax or interact.
Planting on Structures	Objective 4P-1 Appropriate soil prof	iles are provided	Yes	The landscape has been designed with lower planting zones and shrubs in appropriately sized bases.
	Objective 4P-2 Plant growth is optim	nised with appropriate selection and maintenance	Yes	The landscape has been designed with a diverse range of native and exotic species appropriate to the various areas and planting opportunities.
	Objective 4P-3 Planting on structure communal and public open spaces	es contributes to the quality and amenity of	Yes	Landscape design includes a variety of plantings to soften the communal open space areas.
Universal Design	, , , , , , , , , , , , , , , , , , , ,		Yes	At least 20% of apartments are capable of achieving the Liveable Housing Guidelines silver level. Please refer to a per- unit schedule of LHA compliance in the architectural drawings.
	Objective 4Q-2 A variety of apartme	nts with adaptable designs are provided	Yes	10% of the units are adaptable with accessible car space. There are a mix of adaptable apartment types

	Objective	Design Criteria	Objective Achieved	Comment
	Objective 4Q-3 Apartment layouts are needs	flexible and accommodate a range of lifestyle	Yes	The design offers a diverse range of apartment types
Adaptive Reuse	Objective 4R-1 New additions to exist complementary and enhance an area		N/A	
	Objective 4R-2 Adapted buildings pro future adaptive reuse	vide residential amenity while not precluding	N/A	
Mixed Use	Objective 4S-1 Mixed use developmen provide active street frontages that en	nts are provided in appropriate locations and courage pedestrian movement	Yes	Active frontages are maximised throughout the entire mixed- use precinct. Great care has been taken to ensure that commercial uses activate the ground plane with permeable pedestrian networks throughout the whole site.
	Objective 4S-2 Residential levels of th development, and safety and amenity		Yes	Each commercial space has a separate entrance. Residential entries are integrated within the podium design and fit within the commercial and retail ground floor uses. Residential apartments above take on a more domestic character in their architecture.
Awnings and Signage				Arcade and awnings are provided to the retail and commercial frontages along Pittwater Road and Delmar Parade. These are carefully integrated into the gently curved podium.
	Objective 4T-2 Signage responds to the	e context and desired streetscape character	Yes	Building identification signage will be located the building entry, adjacent to the proposed letterboxes. Any retail or commercial signage will be integrated into the shopfront design.
Energy Efficiency	Objective 4U-1 Development incorpor	ates passive environmental design	Yes	Passive environmental design features are provided including large tree planting and water elements in the landscape for reduction of temperature
	Objective 4U-2 Development incorpor storage in winter and reduce heat tran	ates passive solar design to optimise heat sfer in summer	Yes	The general orientation of buildings in a north-south axis assists with solar access and shading for all of the apartments. The articulated building façade and balconies to each apartment provide shading in summer and solar access in winter.
	Objective 4U-3 Adequate natural vento ventilation	lation minimises the need for mechanical	Yes	Refer to BASIX assessment
Water	Objective 4V-1 Potable water use is m	inimised	Yes	Refer to BASIX assessment
Management and Conservation	Objective 4V-2 Urban stormwater is tra- receiving waters	eated on site before being discharged to		Refer to civil engineer's details
	Objective 4V-3 Flood management sys	stems are integrated into site design	N/A	
Waste Management	Objective 4W-1 Waste storage facilitie streetscape, building entry and amening	s are designed to minimise impacts on the y of residents	Yes	Waste management is handled entirely within the building envelope to minimise impact on the streetscape.



	Objective	Design Criteria	Objective Achieved	Comment
	Objective 4W-2 Domestic waste is minimised by providing safe and convenient source separation and recycling		Yes	Separate recycling facilities and rooms for each apartment are provided. Refer to Waste Management Report
Building Maintenance	Objective 4X-1 Building design detail provides protection from weathering		Yes	Robust finishes have been selected for maintenance and high- durability
	Objective 4X-2 Systems and access enable ease of maintenance		Yes	Stair access is provided to all rooftop plant and equipment. Other services areas are located on the ground floor or within the basements.
	Objective 4X-3 Material selection reduces ongoing maintenance costs		Yes	Where possible, high- durability, pre-finished, untreated or natural-finish materials are proposed for building facades.