28 Lockwood Avenue Belrose DEVELOPMENT APPLICATION SEPP 65 REPORT

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DKO ARCHITECTURE

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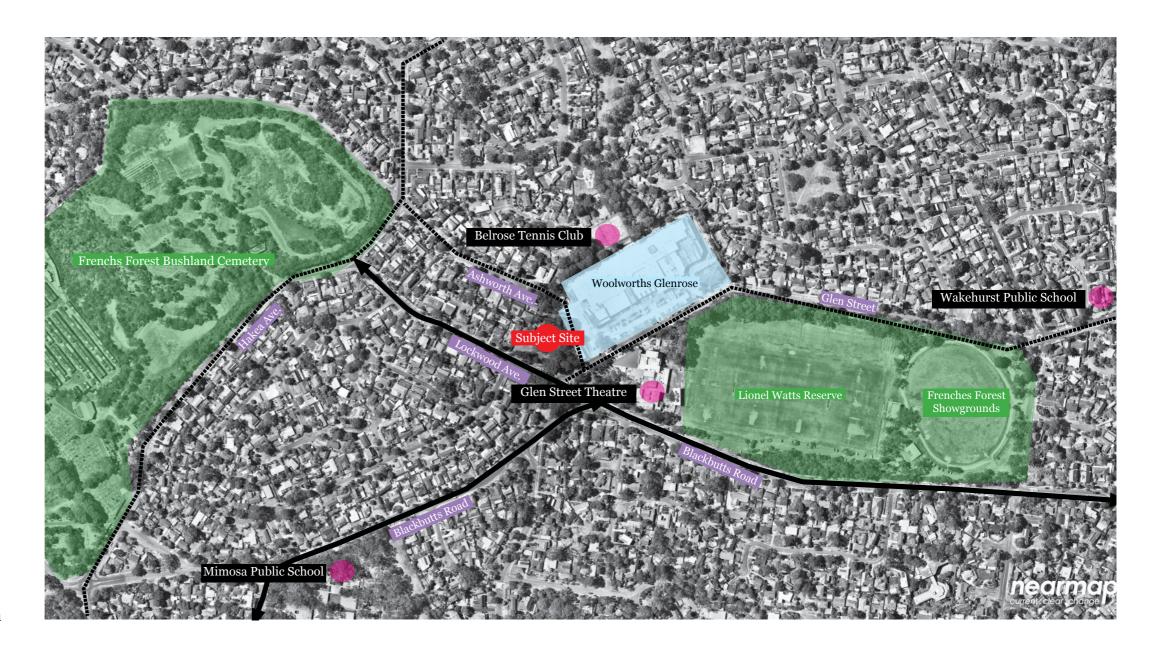
The development responds to its location and future urban context. The role of DKO's architecture is to mediate between the existing condition and the future urban context.

Our design concept provides a framework which responds intelligently and sensitively to its location and relative context. As Belrose evolves further to meet changing conditions, it is vital that its architecture and built fabric changes in order to preserve and improve on its identity while responding to the needs of a new generation.

The subject site is within the growing suburb of the Warringah Council, an area that will undergo a significant transformation in terms of urban density. The precinct encompasses both existing and planned public transport connections that will help provide a diverse and sustainable community.

This urban design report has been prepared in support of the submitted planning proposal. It is intended to supplement the SEPP65 Report and assist council in determining the submitted development application.

The report evaluates the site in relation to the proposed architecture, the urban interface, the public realm, building mass and scale, pedestrian and vehicle connectivity, and amenity to the residents and public.





INTRODUCTION 1.2 URBAN CONTEXT

The subject site is located approximately:

- . Glenrose Village Shopping Centre- 50m
- . Glenrose Tennis Court- 100m
- . Austlink Business Park 4km
- . Northern Beaches Hospital 2.5km
- . Sydney Harbour National Park 11.2km
- . Westfield Warringah Mall 6.1km
- . Sydney CBD 20km
- . North Sydney 9.8km

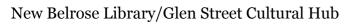
- **Lindfield Station**
- Northern Beaches Hospital Precinct
- Garigan National park
- Wakehurst Golf Club
- **Austlink Business Park**
- **Bus Network**
- IIII Train Line





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Glenrose Village/ shopping centre



Glen Street Theatre



Belrose Tennis Club



Glen Street Caltex



Park on Corner of Glen St & Blackbutts Rd



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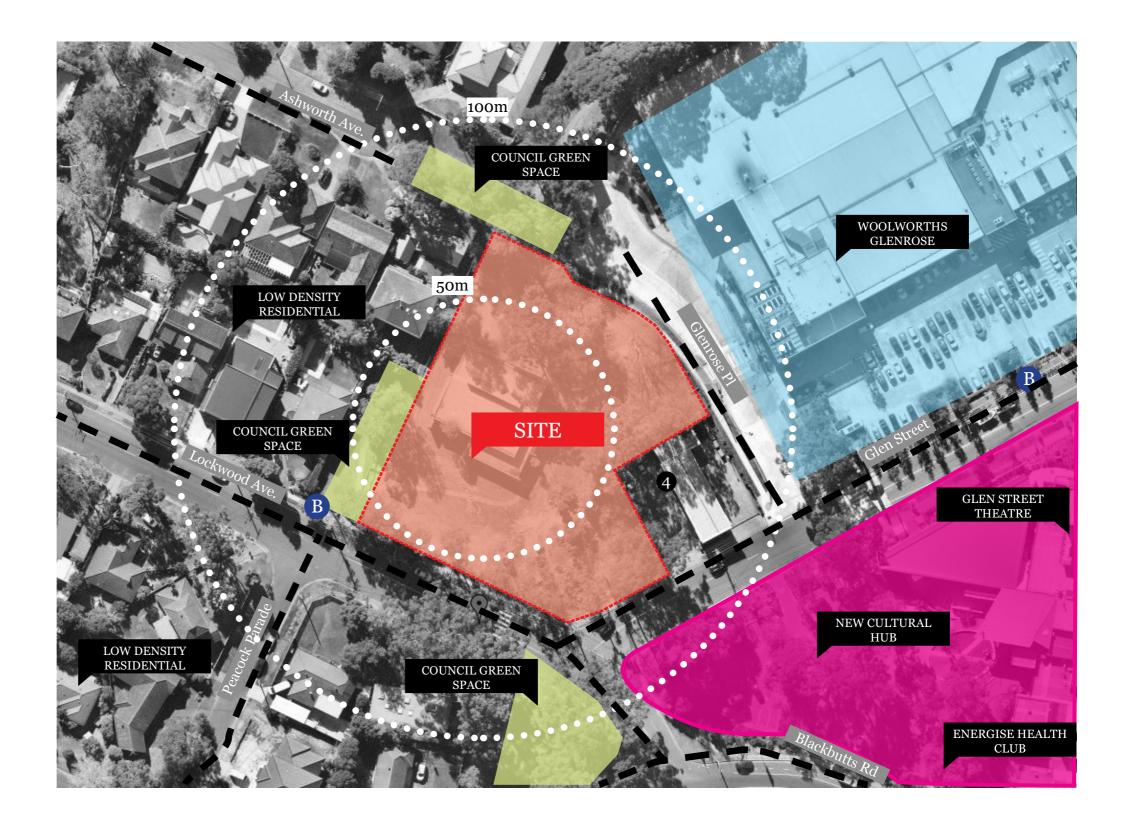
Gooddesignresponds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions. Responding to context involves identifying the desirable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

Response

The proposal complies with Local Centre under the Warringah LEP 2011 and will complement the desired future character of the area.

The proposed buildings are highly articulated and have been visually broken down into volumes. The massing will sensitively respond to existing conditions and is aligned with Council's future plans for the area.

The proposed development complies with ADG setback requirements to most of its boundaries. The proposal incorporates attractive landscape areas that surround the built form on ground level. Generous private open spaces are provided to ground floor units, with communal open spaces at basement and lower ground level of the building allowing for an activated and dynamic street character. The proposed development is compatible with the built form context of the site.





6.12.2019

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.

Response

The bulk and height of the design proposal has been carefully considered to respond to Belrose transition into a higher density area. As opposed to having linear buildings, the proposed scheme breaks up the massing on site through incorporating multiple breaks in the building for articulation.

These buildings are designed as distinctive families of building elements that respond sensitively to the architectural character and expression of the existing and proposed surrounding buildings within its vicinity. The visual bulk of the buildings are softened further as a result of material selection, massing techniques and landscaping that is located at the base of each building.



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.

Response

The proposal delivers a total of 51 dwellings. These apartments range in sizes to promote a diverse mix of unit types that respond to the controls of Northern Beaches Council.

As part of a developing neighbourhood, the site context is characterised by existing and proposed residential flat buildings of approximately 3 storeys from street view.

The proposal takes in consideration factors of overshadowing, amenity and privacy impacts between existing and future buildings, open space patterns, existing vegetation, demand for new public domain elements, variety of lot sizes and shapes and changing streetscape and scale.

The residential density of the proposal is sustainable, suitable, and supports this developing nature. The proposal fits in the context and possesses the ability to be supported by existing and future infrastructure.



Apartment Design Guide

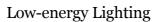
Good design combines positive environmental, social and economic outcomes. Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs.

Other elements include recycling and reuse of materials and waste, use of sustainable materials, and deep soil zones for groundwater recharge and vegetation.

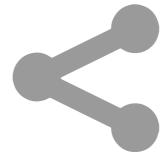
Response

The proposed development will reduce the necessity for mechanical heating and cooling with 63% of units designed to be cross ventilated. In addition to this, 73% of the units will receive 2 hours solar access during winter.





used throughout the building. fixtures and fittings as well as energy efficient lighting, air-conditioning, lifts, and appliances to minimise water running costs for residents. and energy loads.



Smart Building Systems

Low-energy lighting will be Integrated building systems Water retention tanks and such as heating, cooling and hot Rainwater tanks are provided to Energy Efficient water heaters waterwillbedesigned to respond retain and reuse the rainwater will also be integrated into the to the environmental conditions collected on site for irrigation development. Additionally, the of the site. The consolidation of the communal gardens and proposal will use water saving of these building-wide systems other water uses in the building. will minimise environmental A BASIX certificate has been impact, installation costs, and submitted as part of this significantly reduce ongoing application and demonstrates



Rainwater Collection

that the development meets the government's criteria for energy efficiency.



BASIX Targets

Through the strategies outlined above, the proposal will achieve at least the minimum NSW Benchmark Consumption for energy and water.

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Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in greater aesthetic quality and amenity for both occupants and the adjoining public domain. Landscape design builds on the existing site's natural and cultural features in responsible and creative ways. It enhances the development's natural environmental performance by coordinating water and soil management, solar access, microclimate, tree canopy and habitat values. It contributes to the positive image and contextual fit of development throughrespectforstreetscape and neighbourhood character, or desired future character. Landscape design should optimise usability, privacy and social opportunity, equitable access and respect for neighbours' amenity, and provide for practical establishment and long term management.

Response

Landscaping of public spaces wrap around the building on street level across Glenrose Pl and Lockwood Ave. It provides a visual buffer that enhances the streetscape character and establishes a clearly identifiable, engaging and welcoming entry for both residents and the public into the central courtyard area.

The courtyard area is utilised for a generous communal open space with a variety of uses that caters for a diverse range of residents and activity levels.

Additional podium landscaping of communal open spaces for the private use of residents is provided across Levels 1 and 2.



Ground Floor Landscape Plan prepared by Paul Scrivener Landscape









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

Response

Due consideration has been given to solar access, cross ventilation, indoor and outdoor spaces, visual and acoustic privacy, efficient layouts, outlook and storage areas. Parking for residential, recycling and waste storage areas are provided across the basement levels.

Generally the proposed development is aligned to provide maximum amenity to a majority of the dwellings, with most units demonstrating northern or eastern aspect. The proportion of all units that achieve minimum 2 hours of sunlight into living room windows between 9am and 3pm during mid winter complies with constraints outlined in the ADG. In terms of natural cross ventilation, the development reaches a compliance at 63%. Balconies are designed to provide usable outdoor space while maintaining privacy between units as sufficient private open spaces ensure good solar penetration and ventilation to each unit.

The design proposal complies with SEPP 65 criteria and thus provides a high level of amenity to all apartments.







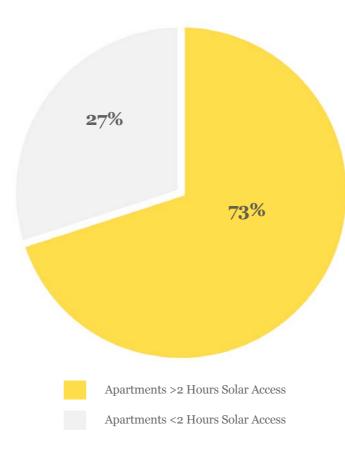
2.6 - PRINCIPLE 06 AMENITY - SOLAR ACCESS

Solar Access

The proposed development is designed to provide the maximum amenity to a majority of the dwellings, with most units possessing northerneastern aspects.

The design maximises the amount of natural daylight received by each unit. The proportion of all units that achieve a minimum 2 hours of sunlight into living room windows between 9 am and 3 pm during mid winter is 73%

2 Hours Solar Access (SEPP ADG)



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2.6 - PRINCIPLE 06 AMENITY - SOLAR ACCESS



Ground Floor

14/19 Solar Access: No Solar Access: 1/19

7/11

11/16 Solar Access: No Solar Access: 1/16



COMMENSAL OFFEN SPACE BILOW +161.800 +164.300 LOCKWOOD AVENUE

SOLAR ACCESS CALCULATIONS

Units with 2+ Hrs Solar Access: 37/51 73%

Units with no Solar Access: 6/51 12%

Level 2 Solar Access: 5/5 No Solar Access: 0/5

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2.6 - PRINCIPLE 06 AMENITY - VENTILATION

Apartment Design Guide (ADG)

Natural ventilation is the movement of sufficient volumes of fresh air through an apartment to create a comfortable indoor environment. Sustainable design practice incorporates natural ventilation by responding to the local climate and reduces the need for mechanical ventilation and air conditioning. To achieve adequate natural ventilation, apartment design must address the orientation of the building, the configuration of apartments and the external building envelope..

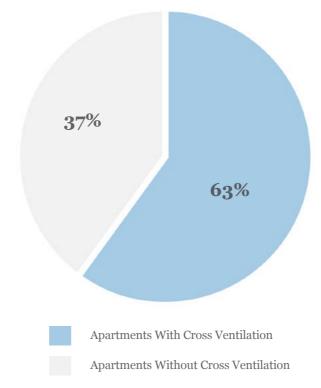
Response

The development consists generally of open plan units with relatively shallow apartment depths which facilitates good ventilation to all habitable rooms. A high number of cross through and corner apartments within the development also allow the proposed design to achieve a high percentage of well-ventilated units.

Outlined by the State Environmental Planning Policy No.65 - Apartment Design Guide, a minimum of 60% of total apartments within the first 9 storeys (51 units) require cross-ventilation.

The building's orientation take full advantage of prevailing breezes to maximize the movement of fresh air to create a comfortable indoor environment. Large openable windows and doors are to be effectively incorporated to reduce the need for mechanical ventilation and air conditioning.

Cross Ventilated Apartments (SEPP ADG)



2.6 - PRINCIPLE 06 AMENITY - VENTILATION



Lower Ground Floor



10/19 **Ground Floor** 9/16



COMMUNAL OPEN SPACE BELOW [+161.800] [+164.300]

CROSS VENTILATION CALCULATIONS

Cross Ventilated Units

32/51 63%

Level 2 8/11

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Ground Floor Cross Ventilation Study

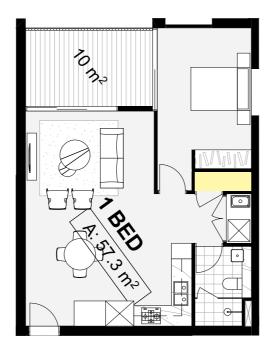
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2.6 - PRINCIPLE 06 AMENITY - STORAGE

Response

A minimum $6m^3$ of storage is required for 1 Bedroom Units. $8m^3$ for 2 Bedroom Units and $10m^3$ for 3 Bedroom Units.

A minimum of 50% of the storage required is provided in each unit through storage cupboards with the remainder 50% provided in storage cages located within the basement, easily accessible from the lift cores.



1 BEDROOM UNIT TOTAL 3M² STORAGE IN APARTMENT



2 BEDROOM UNIT TOTAL 7M² STORAGE IN APARTMENT



BASEMENT 3 PLAN

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.

Response

The design proposal provides clear and well defined lobby entries to each building and main entries off Lockwood Avenue and Glenrose Place. These lobby entries will have clear and unobstructed views from the street and will be secure, lockable and well-lit for the safety of the residents.

A variety of landscaped areas are provided to increase the passive surveillance and safety to the development. Integrated activities in the landscape and large lobbies provide a vibrant area for fostering safety and interaction.

Furthermore, all external spaces will have multiple clear sight lines without obstacles, low shrub planting will reduce the number of places to hide and all paths will be well-lit at night time and designed to meet relevant Australian Lighting Standards.

All areas including entries and communal open spaces are highly visible providing great passive surveillance. Corner balconies and windows provide a wider degree of casual surveillance along the street and open spaces across the site.







Good design responds to the social context and needs of the local community in terms of lifestyles, affordability, and access to social facilities. New developments should optimise the provision of housing to suit the social mix and needs in the neighbourhood or, in the case of precincts undergoing transition, provide for the desired future community.

New developments should address housing affordability by optimising the provision of economic housing choices and providing a mix of housing types to cater for different budgets and housing needs.

Response

The proposed development has been designed with a high level of social contribution in mind, not only to its residents, but to the local community.

On ground level, safe and activated areas for visitors and residents to meet and interact will be provided. Below, basement levels will have a residential garage that also serves as a space for residential and bicycle storage.

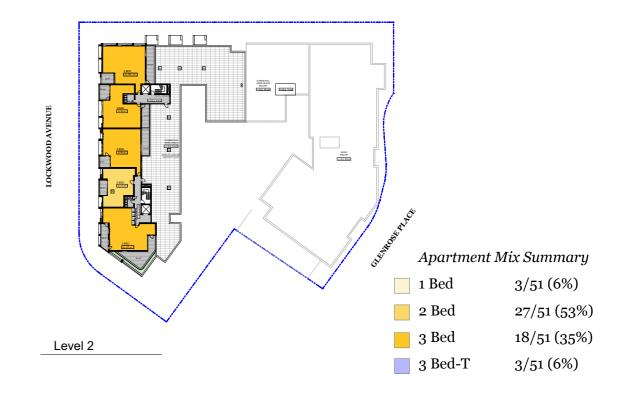
The communal gardens on the podium level are a common asset shared amongst the development's community. These shared facilities and spaces will foster social interactions between residents and promote a real sense of community.

The proposal includes a variety of different housing typologies that will be offered in different sizes and layouts. The mix in housing typologies will cater for a range of households and help diversify the residents of the development.









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

Response

The development proposes a collection of buildings surrounding a central landscaped plaza-like area on lower entry levels with a diverse retail offering. The proposal establishes a clearly identifiable, engaging and welcoming main entrance for residents and visitors located on Glenrose Place and a secondary entrance located on Lockwood Ave.

Materials, Colours and Textures

The colour choices utilise a natural brick podium holding a lighter material palette on the upper levels, giving a sense of depth to the facade presentation. The façade is composed primarily of brick, which varies in tone throughout the buildings. This reinforces the articulation of the façade achieved through varied setbacks and step downs in building mass. The brick element contributes to the texture and materiality of the façade and responds to the general character of the surrounding buildings.





Aged Face Brick



Light Face Brick



White Face Brick



Grey Painted Pre-Cast



Metal Screen

Table 1.	Summary of compliance with the key Apartment Design Guide '	
Control	ADG Design Criteria	Compliance
		Site area: 5,322 m ²
		Required Communal open space: 1330.5 m² (25%)
3D Communal Open space	Minimum of 25% of the site area should be devoted to communal open space.	Proposed Communal open space: 1,870 m² (35%)
		Communal open space is provided at both the Basement 2 courtyard, as well as podium Levels 1 and 2. A high level of sol access is achieved to all communal open spaces, therefore providing a high level of amenity.
		Compliance achieved
	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	The built form located in front of the communal open space is of low scale in nature, the majority of the communal space located on the podium levels receives the required solar access between 9am and 3pm on June 21st
	am and 3 pm on 21 June (mid-winter).	Compliance achieved
		Site area: 5,322 m ²
3E Deep Soil Zones	Minimum of 7% of a site should be a deep soil zone with the following	Required Deep soil: 372.5 m² (7 %)
	minimum dimensions:	Proposed deep soil zone: 423 m² (8%)
	- greater than 1,500m ² – 6m	Compliance achieved
	Up to four storeys/12 meters	The buildings domenstrate a compution of 6 metros to the boundary between habitable recome (beloomies
	6 meters to the boundary between habitable rooms/balconies	The buildings demonstrate a separation of 6 metres to the boundary between habitable rooms/balconies. Compliance achieved
3F	3 meters to the boundary between non-habitable rooms	Compnance achieved
Visual Privacy	Five to eight storeys /up to 25 meters	
Building	 9 meters to the boundary between habitable rooms/balconies 4.5 meters to the boundary between non-habitable rooms 	
separation	Nine storeys and above/ over 25 meters	
	12 meters between habitable rooms/balconies	
	6 meters between non-habitable rooms	
	The maximum car parking rates are as follows:	Car parking rates comply with the requirements of the WDCP 2011 Car Parking Requirements for residential car parking
3J	Residential	Retail/Gym car parking numbers comply with the minimum rates of the RMS Guide to Traffic Generating Developments
	0.5 Spaces per 1 Bed 0.5 Spaces per 2Bed	Prints Provide Plant Providence of Community of the boundary of community of the boundary of t
	1.2 Spaces per 3 Bed	Refer to Drawing DA001 Development Summary for the breakdown of car parking spaces. Compliance achieved
Bicycle and Car Parking	Retail: 1 per 50m2	Compitance achieved
	Commercial: 1 per 125m2 Childcare: 1 space per 100m2	
	Cinidcare: 1 space per 100iii2	
	Vicitors: 11 ± 1 per 15 units over 70 units	
	Visitors: 11 + 1 per 15 units over 70 units.	
4A	Living rooms and private open spaces of at least 70% of apartments in a	Minimum number of apartments with 2hrs solar access required: 36/51 units (70%) Proposed: 37/51 (72%)
4A	<u> </u>	Minimum number of apartments with 2hrs solar access required: 36/51 units (70%) Proposed: 37/51 (73%)
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Table 1. Control Solar + Daylight	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 Summary of compliance with the key Apartment Design Guide 6	Proposed: 37/51 (73%) Design Criteria' Compliance
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Table 1. Summary of compliance with the key Apartment Design Guide 'Design Criteria'		
Control	ADG Design Criteria	Compliance
4D-3 Apartment Size + layout	Master bedrooms have a minimum area of 10m2 and other bedrooms 9m2 (excluding wardrobe space).	Compliance achieved
	Bedrooms have a minimum dimension of 3m (excluding wardrobe space).	Compliance achieved
	Living rooms or combined living/dining rooms have a minimum width of: 3.6m for studio and 1 bedroom apartments 4m for 2 and 3 bedroom apartments	Compliance achieved 3.6m and 4.0m are provided for 1 bed apartments 4.0m minimum provided for 2 & 3 bed apartments
	The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts.	Compliance achieved Minimum width of cross over apartments are 4m
4E Private open space and balconies	Apartments are to have the following balcony dimensions: • 1br – 8sqm with min.2m depth	Compliance achieved
	2br - 10sqm with min. 2m depth 3br - 12sqm with min. 2.4m depth	
	Ground level apartments should contain a minimum of 15m² of open space, with a minimum dimension in one direction of 3m.	Compliance achieved Ground level apartments and apartments located adjacent to the podium contain a minimum of $15m^2$ of private open space with minimum dimension of $3m$
4F Common circulation and spaces	The maximum number of apartments off a circulation core on a single level is eight.	Compliance achieved
	For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40.	Compliance Achieved
4G Storage	Studio apartments require 4m² of storage area One bedroom dwellings require 6m³ of storage area Two bedroom dwellings require 8m³ of storage area. Three bedroom dwellings require 10m³ of storage area.	Where storage is not wholly provided within the unit itself, the remainder is provided in the carpark via storage cages. In the instance where storage cages are required, at least 50% of the apartment's storage is provided within the apartment itself. The total combined storage areas provided for each dwelling meets the minimum areas required. Compliance achieved

DKO ARCHITECTURE | 28 LOCKWOOD AVENUE - BELROSE | PLATINUM | PROJECT NUMBER | 6.12.2019 | DA - SEPP 65 REPORT | PROPERTY GROUP | 11574 | PAGE 21

DKO ARCHITECTURE

6th December 2019

Council of Submission:

Northern Beaches Council

PO Box 82 Manly, NSW 1655

Re:

28 Lockwood Avenue, Belrose

SEPP 65 Design Statement

To Whom It May Concern,

Pursuant to Clause 50(1A) of the Environmental Planning and Assessment Regulation 2000, effective from July 26, 2003;

I hereby declare that I am a qualified designer, which means, a person registered as an architect in accordance with the Architects Act 1921, as defined by Clause 3 of the Environmental Planning and Assessment Regulation 2000.

I directed the design of the residential development stated above and I affirm that the design achieves the design quality principles as set out in Part 1 of the 'State Environmental Planning Policy No.65- Design Quality of Residential Apartment Development';

I have provided further detail on the design's compliance with all nine of the principles in the SEPP 65 Design Compliance Table accompanying this Development Application.

Yours Faithfully

Nicholas Byrne

Associate Director

Registration Number: 7806 (NSW)



