

# 1 State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Buildings (SEPP 65) & Residential Flat Design Code

### TABLE 1 – RESIDENTIAL FLAT DEVELOPMENT CODE (RFDC)

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CONTROL	COMPLIANCE	COMMENT
Part 1. Local Context		
Primary Development Controls		
<b>Building Depth:</b> In general, an apartment building depth of 10-18 metres is appropriate. Developments that propose wider than 18 metres must demonstrate how satisfactory day lighting and natural ventilation are to be achieved.	No	The building depth varies in size above the recommended building depth range. This is justified in the Design Report at <b>Appendix A</b> , in summary, to maximise spatial efficiency and to reduce the bulk of the building, a central core typology has been adopted. This form creates a deeper overall building. The deepest area of the floor plate is mostly occupied by the core, with common area circulation corridors receiving good amenity such as natural light, ventilation and views.
<ul> <li>Building Separation: Suggested dimensions within a development, for internal courtyards and between adjoining sites are:</li> <li>24 metres between habitable rooms/balconies</li> <li>18 metres between habitable rooms/balconies and non-habitable rooms</li> <li>12 metres between non-habitable rooms</li> </ul>	Yes	The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower. Refer to Design Report at <b>Appendix A</b> .
Part 2. Site Design		
Site Configuration		
<b>Deep soil zones:</b> A minimum of 25 percent of the open space area of a site should be a deep soil zone; more is desirable.	No	Deep soil: 3,260sqm (23.3% of site area). The site currently operates as a regional stormwater detention basin. The replacement stormwater infrastructure requires a 1,800sqm below grade tank in addition to 1,200sqm of bio-filtration wetlands at ground level.

CONTROL	COMPLIANCE	COMMENT
		Although the proposed scheme consists of 85% landscaped area, the replacement stormwater infrastructure restricts achievable deep soil planting. The marginal deficit of deep soil is considered appropriate given the above spatial constraints and the provision of the new neighbourhood park with a combination of Eucalypts, rainforest natives, Jacaranda and deciduous species.
<b>Open space:</b> The area of communal open space required should generally be at least between 25 of the site area.	Yes	Refer to Design Report at <b>Appendix A.</b>
Planting on structures: Minimum soil depth for planting.	Yes	Refer to Landscape Report at Appendix B.
Site Amenity		
<b>Safety:</b> Carry out a formal crime risk assessment for all residential developments of more than 20 new dwellings.	Yes	Refer to Design Report at <b>Appendix A.</b>
<b>Visual Privacy:</b> Refer to Building Separation minimum standards (see Building Separation).	Yes	The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower. Refer to Design Report at <b>Appendix A.</b>
Site Access		
<b>Building Entry:</b> Provide as direct a physical and visual connection as possible between street and entry.	Yes	Refer to Design Report at <b>Appendix A.</b>
<b>Parking:</b> Provide bicycle parking which is easily accessible from ground level and from apartments.	Yes	Refer to Traffic and Parking Report at <b>Appendix D</b> .

CONTROL	COMPLIANCE	COMMENT				
<b>Pedestrian Access:</b> Follow accessibility standard AS 1428 (Pt 1 & 2) as a minimum. Provide barrier free access to at least 20 percent of dwellings in the development.	Yes	Refer to the Access Report submitted with the Environmental Impact Staten			ement.	
<b>Vehicle Access:</b> Generally limit the width of driveways to a max of 6m. Locate vehicle entries away from main pedestrian entries and on secondary frontages.	Yes	Refer to Traffic and Parking Report at <b>Appendix D</b> .				
Part 3. Building Design						
Building Configuration						
<b>Apartment Layout:</b> Single-aspect apartments should be limited in depth to 8 metres from a window.	No	Residential apartments are 10 and 11 metres deep, however rooms planned beyond 8 metres depth are non-habitable rooms such as bathrooms and storage areas which do not require natural light. This configuration is therefor considered appropriate.			b	
The back of a kitchen should be no more than 8 metres from a window.	Yes	Refer to the Arc	hitectural Drawir	ngs at <b>Appendix A</b>	<b>A</b> .	
If council chooses to standardise apartment sizes, a range of sizes that do not exclude affordable housing should be used. As a guide, the Affordable Housing	Yes	ТҮРЕ	NO.	%	AREA	
Service suggest the following minimum apartment sizes, which can contribute to housing affordability:		1 Bed	171	46%	50-65 sqm	
<ul> <li>1 bedroom apartment 50m2</li> </ul>		2 Bed	162	44%	71-85 sqm	
<ul> <li>2 bedroom apartment 70m2</li> </ul>		3 Bed	27	7.5%	99-108 sqm	
<ul> <li>3 bedroom apartment 95m2</li> </ul>		4 Bed	9	2.5%	155 sqm	
<b>Balconies:</b> Provide primary balconies for all apartments with a minimum depth of 2 metres.	Yes	Refer to the Arc	hitectural Drawir	ngs at <b>Appendix A</b>	<b>A</b> .	

CONTROL	COMPLIANCE	COMMENT
Ceiling heights: In mixed use buildings: 3.3 metre minimum for ground floor retail or commercial and for first floor residential, retail or commercial to promote future flexibility of use. In residential flat buildings or other residential floors in mixed use buildings: in general, 2.7 metre minimum for all habitable rooms on all floors, 2.4 metres is the preferred minimum for all non-habitable rooms, however 2.25m is permitted.		Refer to the Architectural Drawings at <b>Appendix A</b> .
<b>Internal Circulation:</b> In general, where units are arranged off a double-loaded corridor, the number of units accessible from a single core/corridor should be limited to eight.	Yes	Refer to the Architectural Drawings at <b>Appendix A</b> .
<ul> <li>Storage: In addition to kitchen cupboards and bedroom wardrobes, provide accessible storage facilities at the following rates:</li> <li>studio apartments 6m3</li> <li>one-bedroom apartments 6m3</li> <li>two-bedroom apartments 8m3</li> <li>three plus bedroom apartments 10m3</li> </ul>	Yes	Refer to the Architectural Drawings at <b>Appendix A.</b>
Building Amenity		
<b>Daylight Access:</b> Living rooms and private open spaces for at least 70 percent of apartments in a development should receive a minimum of three hours direct sunlight between 9 am and 3 pm in mid-winter. In dense urban areas a minimum of two hours may be acceptable.	Yes	<ul><li>68% of residential apartments achieve 3 hours of solar access between 9am and 4pm on 22nd June. 78% of residential apartments achieve 2 hours of solar access between 9am and 4pm on 22nd June.</li><li>It is argued that Site 68 is situated within a dense urban area and as such the two hour provision, as described in the RFDC is acceptable.</li></ul>

CONTROL	COMPLIANCE	COMMENT
		Further, the adjacent residential tower on Site 3 overshadows the proposed development for one hour between 2pm and 3pm on 22 June. This further emphasises that the site is located in a precinct with a developing character of high density urban form and as such it is considered that the area constitutes a dense urban form and the lower standard of solar access should be applied.
Limit the number of single-aspect apartments with a southerly aspect (SW-SE) to a maximum of 10 percent of the total units proposed.	No	0% of apartments have a south facing orientation. 21% of apartments have a south eastern orientation. As argued in the Design Report these apartments have achieved excellent amenity through prime city skyline views. Given the spatial constraints of the site, the buildings orientation is considered appropriate.
<b>Natural Ventilation:</b> Building depths, which support natural ventilation typically range from 10 to 18 metres.	No	Although the building depth varies in size above the length range of 10-18 metres, the proposal meets the cross ventilation percentage requirement of 60% (see below).
Sixty percent (60%) of residential units should be naturally cross ventilated.	Yes	60% of residential units achieve cross-flow ventilation.
Twenty five percent (25%) of kitchens within a development should have access to natural ventilation.	Yes	31% of kitchens receive access to natural cross-flow ventilation.

## 2 Draft Amendment No.3 to SEPP 65 & the Draft Apartment Design Guide

#### TABLE 2 – DRAFT APARTMENT DESIGN GUIDE

PROVISION	COMPLIANCE	COMMENT				
2F Building Separation	Yes		The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower.			
3E Deep Soil	Yes	Deep soil: 3,26	Deep soil: 3,260sqm (23.3% of site area).			
3F Visual Privacy	Yes		The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower.			
3G Pedestrian Access and Entries	Yes	The proposal p	The proposal provides multiple entries that connect directly with the public domain. Entries are clearly identifiable.			
3H Vehicle Access	Yes	The proposal locates vehicle access points generally in accordance with the Parkview Precinct Land Uses Plan in the Master Plan 2030.				
3J Bicycle and Car Parking	Yes	The proposed on-site parking provision is within the maximum number of car parking spaces permitted on the site. Refer to the Traffic and Transport Assessment included at <b>Appendix D</b> .				
4A Apartment Mix	Yes	The application	n proposes the fo	llowing mix of dwe	elling types:	
		ТҮРЕ	NO.	%	AREA	
		1 Bed	171	46%	50-65 sqm	
		2 Bed	162	44%	71-85 sqm	
		3 Bed	27	7.5%	99-108 sqm	
		4 Bed	9	2.5%	155 sqm	

PROVISION	COMPLIANCE	COMMENT
4C Facades	Yes	As shown throughout the architectural package, the proposal results in a high quality architectural building that responds positively to the surrounding streetscape and public domain. The garden slots and façade design creates a well-defined frame to the public domain whilst integrating the development into the streetscape and foreground. The building entrance is well shaded and easily accessible from adjacent footpaths. Refer to the Design Report at <b>Appendix A</b> .
4F Landscape Design	Yes	Refer to Landscape Report at Appendix B.
4L Solar and Daylight Access	No	<ul> <li>68% of residential apartments achieve 3 hours of solar access between 9am and 4pm on 22nd June. 78% of residential apartments achieve 2 hours of solar access between 9am and 4pm on 22nd June.</li> <li>It is argued that Site 68 is situated within a dense urban area and as such the two hour provision, as described in the RFDC is acceptable. Further, the adjacent residential tower on Site 3 overshadows the proposed development for one hour between 2pm and 3pm on 22 June. This further emphasises that the site is located in a precinct with a developing character of high density urban form and as such it is considered that the area constitutes a dense urban form and the lower standard of solar access should be applied.</li> </ul>
4N Apartment Layout	Yes	Refer to the Architectural Plans attached at Appendix A.
40 Ceiling Heights	Yes	Refer to the Design Report at Appendix A.
4P Private Open Space and Balconies	Yes	Refer to the Design Report at Appendix A.
4Q Natural Ventilation	Yes	60% of residential units achieve cross-flow ventilation.
4R Storage	Yes	Storage is provided for all units in accordance with the minimum requirements outlined in the RFDC, through the provision of internal storage rooms and basement storage cages. The Design Report, provided at <b>Appendix A</b> , includes a detailed storage schedule, outlining the proposed storage arrangement per apartment type.
4S Acoustic Privacy	Yes	Refer to the Acoustic Assessment submitted with the Environmental Impact Statement.

PROVISION	COMPLIANCE	COMMENT
4T Noise and Pollution	Yes	Refer to the Acoustic Assessment submitted with the Environmental Impact Statement.
4U Energy Efficiency	Yes	Refer to the ESD Report submitted with the Environmental Impact Statement.
4W Waste Management	Yes	Refer to Waste Management Plan submitted with the Environmental Impact Statement.

## 3 Sydney Olympic Park Master Plan 2030

#### TABLE 3 – SYDNEY OLYMPIC PARK MASTER PLAN 2030

Provision	COMPLIANCE	COMMENT				
4.0 General Controls and Guideline	4.0 General Controls and Guidelines					
4.1 Introduction	Yes	The proposal has been prepared in accordance with the reports, policies and guidelines documented in the Introduction section of the SOP Master Plan 2030.				
4.2 Sustainability	Yes	The proposal meets the sustainability controls. Refer to the Ecologically Sustainable Development (ESD) Report (including BASIX) attached at Appendix J.				
4.3 Public Domain	Yes	<ul> <li>The proposal includes:</li> <li>Pedestrian and bicycle through site links, improving accessing from Sydney Olympic Park railway station and town centre through to Bicentennial Park and the future Parkview Precinct.</li> <li>A new neighbourhood park, with a combination of Eucalypts, rainforest natives, Jacaranda and deciduous species, as well as the relocated palm trees from the corner of Australia Avenue and Bennelong Parkway.</li> <li>Refer to the Landscape Report and Landscape Drawings attached at Appendix B.</li> </ul>				
4.4 Event Access and Closures	Yes	<ul> <li>The Parkview Precinct will be affected by major ANZ Stadium events, the Royal Easter Show and other smaller events. The roadways surrounding the site are not subject to closures and access can be achieved along Australia Avenue and Bennelong Parkway. The proposal will therefore be able to accommodate the public domain closures.</li> <li>In order to best manage transport and parking related issues and in the interests of minimising negative Major Event Capability impacts:</li> <li>The proposal locates vehicle access points generally in accordance with the Parkview Precinct Land Uses Plan in the Master Plan 2030.</li> </ul>				

Provision	COMPLIANCE	COMMENT
		<ul> <li>The proposal complies with the car parking requirement in order to provide sufficient parking is provided for residents, staff and visitors. This should ensure that parking required during events remains available.</li> <li>The site and the proposed development are located well away from major event venues; major event support infrastructure such as car parks and bus terminals; event transport routes and major event car-parking routes. This ensures there is no conflict during major events.</li> <li>Refer Traffic and Parking Report attached at Appendix D.</li> </ul>
4.5 Land Uses and Density - La	and Use	
Land Use	Yes	The proposal complies with allowable land uses for the subject site.
Floor Space Ratio	No	<ul> <li>The maximum floor space for the site is 2.2:1 inclusive of the 10% design excellence incentive. The proposal results in a floor space ratio of 2.4:1. This is justified by a Clause 4.6 exception at Section 6.2.5 in the EIS Report, in summary:</li> <li>The proposal has been subject to on-going consultation with SOPA and the SOPA Design Review Panel, who have provided support for the proposed re-distribution of floor space, from the previously envisaged four-storey podium and thirty-storey tower building, to a slender tower with landscaped ground plane and separate child care centre.</li> <li>The proposal is the direct result of a Design Excellence Competition, in which recommendations were made by the Competition Jury and SOPA Design Review Panel to increase the size of the vertical slots, 'make public' the third 'privatised' vertical slot by redistributing the lost residential floor space to the top of the building, incorporate ground floor retail / commercial uses, and create internal public seating areas overlooking the vertical slots.</li> <li>The area of additional floor space does not increase the intensity of use, in fact the additional floor space decreases the efficiency of the building in order to improve residential amenity.</li> </ul>

#### 4.6 Building Form and Amenity

Provision	COMPLIANCE	COMMENT
Building Depth Controls	No	The building depth varies in size above the recommended building depth range. This is justified in the Design Report at <b>Appendix A</b> , in summary, to maximise spatial efficiency and to reduce the bulk of the building, a central core typology has been adopted. This form creates a deep depth. The deepest area of the floor plate is mostly occupied by the core, with common area circulation corridors receiving good amenity such as natural light, ventilation and views.
Building Height Controls	No	<ul> <li>The maximum building height for the site is 90m, The proposal results in a building height of 110.7m. This is justified with a Clause 4.6 exception at Section 6.2.5 in the EIS Report, in summary:</li> <li>The proposal has been subject to on-going consultation with SOPA and the SOPA Design Review Panel, who have provided support for the proposed re-distribution of floor space, from the previously envisaged four-storey podium and thirty-storey tower building, to a slender tower with landscaped ground plane and separate child care centre.</li> <li>The proposal is the direct result of a Design Excellence Competition, in which recommendations were made by the Competition Jury and SOPA Design Review Panel to increase the size of the vertical slots and 'make public' the third 'privatised' vertical slot by redistributing the lost residential floor space to the top of the building.</li> <li>There is no tangible nexus between the height variation and the overall intensity of site use.</li> <li>The area of non-compliance will not result in any unreasonable solar access or privacy impacts.</li> <li>The proposed built form and height is consistent with the desired future character of the Parkview Precinct and the Sydney Olympic Park Town Centre, as envisaged by the SEPP Major Development and the Sydney Olympic Park Master Plan 2030.</li> </ul>
Minimum Ceiling Heights	Yes	The proposal complies with the ceiling height control.
Rooftop Services Zone	Yes	The lift over run and motor room extend above the roof top by 1.8m.
Building Separation	Yes	The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower.         Refer to Design Report at Appendix A.

Provision	COMPLIANCE	COMMENT
Building Setbacks	Yes	Refer to the Architectural Drawings at Appendix A.
Tower Building Controls	Yes	Street setbacks - N/A         Above podium setbacks - No podium is provided         Separation distances - The nearest adjacent developments, Site 3 Australia Towers, and Site 67, are 84 and 74 metres away from the closest point of the proposed residential tower.         Maximum horizontal dimensions - The typical floor-plate comprises 1,250sqm. Three "garden slots" are provided per floor-plate which creates vegetated communal spaces within the building which enable all residents to enjoy high quality outlook, views and solar access irrespective of the apartment occupied.         Maximum distances to natural light sources - The building depth varies in size above the recommended building depth range. This is justified in the Design Report at Appendix A, in summary, to maximise spatial efficiency and to reduce the bulk of the building, a central core typology has been adopted. This form creates a deep depth. The deepest area of the floor plate is mostly occupied by the core, with common area circulation corridors receiving good amenity such as natural light, ventilation and views. The garden slots provide ventilation, increased solar access and views.         Building articulation - As shown on the architectural plans and photo montages, the proposal results in a building highly articulated with garden slots running the height of the building. This articulation minimises the bulk of the tower and impacts positively on the public domain.
Accessibility	Yes	The development has accessible paths of travel that are continuous throughout. The proposed development has demonstrated an appropriate degree of accessibility. Refer to Access Report submitted with the Environmental Impact Statement.
Design Excellence	Yes	The Site 68 Design Excellence Competition was conducted in accordance with the endorsed Design Excellence Strategy and Design Competition Brief, which sought architectural schemes for one residential tower building and associated landscape / urban design works.

Provision	COMPLIANCE	COMMENT
		Consistent with the Design Excellence Strategy, the Design Competition was run as an invited two-stage process involving a Stage 1: Expression of Interest and Stage 2: Design Competition. The four short listed Architectural practices presented to the Competition Jury on Friday 6 June 2014. Consistent with the Competition Brief, the Jury decided upon a winning proposal by unanimous agreement, being the scheme presented by Bates Smart. The Bates Smart scheme achieved the highest level of consistency with the Design Brief and demonstrated Design Excellence. A copy of the endorsed Design Competition Report was submitted with the Environmental Impact Statement.
Building Expression	Yes	As shown throughout the architectural package, the proposal results in a high quality architectural building that responds positively to the surrounding streetscape and public domain. The garden slots and façade design creates a well-defined frame to the public domain whilst integrating the development into the streetscape and foreground. The building entrance is well shaded and easily accessible from adjacent footpaths. Refer to the Design Report at <b>Appendix A</b> .
Cross Ventilation	Yes	60% of residential units achieve cross-flow ventilation.
Noise	Yes	Refer to Noise and Vibration Assessment submitted with the Environmental Impact Statement.
Waste Management	Yes	Refer to Waste Management Plan submitted with the Environmental Impact Statement.
Residential Building: Sepp 65	No	See SEPP 65 compliance assessment above.
Residential Building: Affordable Housing	Yes	The proposal is not required to provide any affordable housing. However, it is noted that the increased supply of dwellings on the site will improve affordability in the area.

Provision	COMPLIANCE	COMMENT				
Residential Building: Minimum Apartment Sizes	Yes	The application proposes the following mix of dwelling types:				
		TYPE	NO.	%	AREA	
		1 Bed	171	46%	50-65 sqm	
		2 Bed	162	44%	71-85 sqm	
		3 Bed	27	7.5%	99-108 sqm	
		4 Bed	9	2.5%	155 sqm	
Residential Building: Apartment Mix	Yes	See above.				
Residential Building: Balconies	Yes	Refer to the Architectural Drawings at Appendix A.				
Residential Building: Visual Privacy	Yes	Refer to the Architectural Drawings at Appendix A.				
Residential Building: Solar Access	No	<ul> <li>68% of residential apartments achieve 3 hours of solar access between 9am and 4pm on 22nd June. 78% of residential apartments achieve 2 hours of solar access between 9am and 4pm on 22nd June.</li> <li>It is argued that Site 68 is situated within a dense urban area and as such the two hour provision, as described in the RFDC is acceptable. Further, the adjacent residential tower on Site 3 overshadows the proposed development for one hour between 2pm and 3pm on 22 June. This further emphasises that the site is located in a precinct with a developing character of high density urban form and as such it is considered that the area constitutes a dense urban form and the lower standard of solar access should be applied.</li> </ul>				

Provision	COMPLIANCE	COMMENT
Residential Building: Daylight Access	No	The habitable rooms in all of the proposed apartments will have daylight access. The apartments are 10 and 11 metres deep, however rooms planned beyond 8 metres depth are non-habitable rooms such as bathrooms and storage areas which do not require natural light. This configuration is therefore considered appropriate.
Residential Building: Storage	Yes	Storage is provided for all units in accordance with the minimum requirements outlined in the RFDC, through the provision of internal storage rooms and basement storage cages. The Design Report, provided at <b>Appendix A</b> , includes a detailed storage schedule, outlining the proposed storage arrangement per apartment type.
4.7 Access and Parking	Yes	The proposed on-site parking provision is within the maximum number of car parking spaces permitted on the site. Refer to the Traffic and Transport Assessment included at <b>Appendix D</b> .
4.8 Transport Strategies and Infrastructure	Yes	Refer to the Traffic and Transport Assessment included at <b>Appendix D</b> .
4.9 Landscape and Site		
Open Space	Yes	The proposal also provides significant communal open spaces for the residents. Refer to Design Report at Appendix A.
Residential Open Space	Yes	Refer to Design Report at Appendix A.
Safety And Security	Yes	<ul> <li>The residential units and facade achieve high levels of visual surveillance over the proposed area of public domain as well as to incorporate privacy provisions.</li> <li>Living areas are located against the facade with full width frontage. Bedrooms are set back from the facade by generous balconies of 2.1 to 3.0 metres in typical depth to provide visual privacy from pedestrians at ground level. Horizontal fins varying between 600 and 150mm in depth incorporated into the spandrel, balcony handrail and living room facades permit direct views out while also providing privacy when viewed from below.</li> <li>Refer to Design Report at Appendix A.</li> </ul>

Provision	COMPLIANCE	COMMENT	
Deep Soil	Yes	Deep soil: 3,260sqm (23.3% of site area).	
Stormwater Management	Yes	Refer to the Stormwater and Flooding Assessment attached at Appendix G.	
4.10 Community Facilities	Yes	The proposal includes the provision of a child care centre.	