

SummitCare Randwick

NCC 2019 Section J Compliance Report

Project No: SYD1029 Date: **Revision**: 04

1 June 2021





Creating great environments with great people

Project:	SummitCare Randwick	
Location:	11-19 Frenchmans Road Randwick, NSW, 2031	
Prepared by:	ADP Consulting Pty Ltd Level 3, 8 Spring Street Sydney NSW 2000	
Project No:	SYD1029	
Revision:	04	
Date:	1 June 2021	

Rev	Date	Comment	Author	Signature	Technical Review	Signature	Authorisat ion	Signature
01	05/12/19	Draft Issue for Information	AK	Aafsta	ZN	Þ	РР	á?
02	10/12/19	DA Issue	AK	Aafsta	ZN	Þ	РР	á?
03	06/08/20	Updated Issue	ZN	Þ	RR	R	РР	32
04	01/06/21	Updated DA Issue	ZN	Þ	RR	R	РР	22

Project Team	
Client / Principal	SummitCare
Architect	Boffa Robertson Group





Creating great environments with great people

Contents

Exec	utive Summary	3
1.	Introduction	5
1.1	Project Context	5
1.2	Assessment Assumptions and References	6
2.	Section J DTS Compliance	7
2.1	Overview	7
2.2	Terminology	7
3.	Part J1 Building Fabric	8
3.1	Responsible Designer	8
3.2	Summary of Requirements	8
3.3	J1.1 Application of Part	8
3.4	J1.2 Thermal Construction Installations	8
3.5	J1.3 Roof & Ceiling Constructions	9
3.6	J1.4 Roof lights	9
3.7	J1.5 Wall-Glazing Construction System	9
3.8	J1.6 Floors	10
4.	Part J3 Building Sealing	11
4.1	Building Fabric	11
5.	Conclusions & Recommendations	12



Executive Summary

ADP Consulting has been engaged to undertake the following Section J report detailing the Deemed-to-Satisfy (DTS) Wall-Glazing performance requirements for the proposed SummitCare development to be located at 11-19 Frenchmans Road, Randwick, NSW.

This Section J report has been prepared to support the DA submission as a legislative requirement in accordance with NCC Section J 2019 provisions and has been provided to advise on the minimum Part J1 & J3 (Building Fabric) requirements needed for compliance.

Based on a review of the proposed Architectural drawings and the calculations carried out in this report the following minimum Part J1 performance requirements have been provided.

Fabric insulation to be provided as follows:

Envelope Construction	Total System R-Value (m ² K/W)
J1.3 Roof and ceiling construction	≥ 3.70
J1.4 Roof lights	N/A
J1.5a Total System external wall construction (all facades)	≥ 1.40
J1.5b Total System internal wall construction (between conditioned & unconditioned areas)	≥ 1.00
J1.6a Floor construction (above an unconditioned zone)	≥ 2.00 (downwards heat flow)
J1.6b Floor construction (slab on ground)	≥ 2.00 (downwards heat flow)

Glazing performance has been assessed as per the Section J wall-glazing calculator. The following performance is to be provided for the relevant orientations outlined below:

Glazing – Frame Construction (Non-uniform solution)	Orientation	Total System U-Value (W/m²K)	Total System SHGC
J1.5c Ground Floor to Level 3	North	≤ 4.00	≤ 0.31
J1.5c Ground Floor to Level 3	East	≤ 4.00	≤ 0.41
J1.5c Ground Floor to Level 3	South	≤ 4.00	≤ 0.32
J1.5c Ground Floor to Level 3	West	≤ 4.00	≤ 0.29



Should the project wish to pursue a uniform glazing solution for the development, the following glazing performance has been provided below:

Glazing – Frame Construction	Orientation	Total System U-Value	Total System
(Uniform solution)		(W/m²K)	SHGC
J1.5c Total Window Frame construction	All facades	≤ 4.50	≤ 0.36

Please Note: the above window frame construction values are AFRC total system values and include both the glazing and frame.

We understand that the above glazing system may not be a desirable solution for the project. Should the project wish to consider a less stringent uniform glazing system, a JV3 alternative verification assessment can be undertaken.

Please note the following:

- > It assumed that all other NCC Section J requirements (J5 to J8) will be designed to meet the minimum Deem-to-Satisfy (DTS) requirements
- Compliance is subject to confirmation from the D&C contractor that all as-installed details pertaining to the thermal performance are within the performance requirements as detailed in this report. It is the responsibility of the D&C contractor, architect and building surveyor to ensure all final construction selections are compliant.
- > Any changes to the architecture plans may result in a change to the wall-glazing performance specifications detailed in this report.



1. Introduction

ADP Consulting has been engaged to undertake the following Section J report detailing the Deemed-to-Satisfy (DTS) wall-glazing performance requirements for the proposed development to be located at 11-19 Frenchmans Road, Randwick, NSW.

The purpose of this report is to demonstrate that all construction elements meet the minimum DTS requirements outline in the NCC 2019 Section J, Part J1 & J3 provisions.

1.1 **Project Context**

The new development is comprised of a 4-storey building proposed to be located in the suburb of Randwick, south-east of Sydney. The development is situated to the south of McLennan Avenue and Astolat Street and to the north of the Frenchmans road.



Figure 1 Proposed Development Site

The development contains carparking facilities for residents/visitors, communal landscaped common areas, common dining area, healthcare, fitness facility and residential rooms (Class 9c). Each Individual room has been designed with one or two single beds, storage area, private amenities and balconies or courtyard for private use.



1.2 Assessment Assumptions and References

This Section J Report has been based on the following documents:

- > Provided by Boffa Robertson Architects
 - Updated Architectural Drawing package (Rev A) 14/05/2021

This report should be read in conjunction with the **ADP Noise Impact Assessment Report (Rev 03)**, all relevant plans and specifications, and any supplementary regulatory information as nominated further within the body of this report.



2. Section J DTS Compliance

2.1 Overview

Section J of the NCC was introduced to set minimum energy efficiency measures for the various classifications of building types while still maintaining acceptable internal environmental conditions for occupants. The measures were designed to reduce the use of artificial heating and cooling, improve the energy performance of lighting, conditioning, and ventilation, and reduce energy loss through air leakage.

These reductions are achieved by setting specific prescriptive design criteria for the building fabric (section J1 & J3) and the building services (section J4 to J8). Compliance is the achieved when these minimum prescriptive requirements are met.

2.2 Terminology

2.2.1 Thermal Performance of a Wall-Glazing Construction

When determining an appropriate wall-glazing construction for a building project, the buildings thermal envelope will be required to comply with certain performance values for energy efficiency and occupant thermal comfort. The two heat transfer mechanisms that determine the performance of a wall-glazing construction include conduction and solar heat gain.

In order to comply with the Section J provisions, the wall-glazing system must achieve a specified U-value and Solar Heat Gain coefficient (SHGC). It is important to note, that these values are to be read as "total system values" and are inclusive of both the frame and glazing¹.

2.2.2 U-Value

U-value is the measure of a wall-glazing constructions ability to conduct heat. The lower the U-value, the greater the insulation properties of the construction. In all cases regardless of climate zone, a façade construction with high performance insulation properties will assist with improving a buildings occupant thermal comfort and energy efficiency. It is also to be noted that the conductive U-value is equal to the inverse of insulative R-value (U = 1/R).

2.2.3 R-Value

R-value is the measure of a wall-glazing constructions resistance to heat flow. The higher the R-value, the higher the level of insulation and thermal performance. It is also to be noted that the insulative R-value is equal to the inverse of the conductive U-value (R = 1/U).

2.2.4 Solar Heat Gain Coefficient (SHGC)

Solar Heat Gain Coefficient (SHGC) is the fraction of incident solar radiation admitted through a window. In a warm climate, windows which have a low SHGC allow less solar radiation to pass through. This reduces the buildings heat load and need for active cooling².

¹ Thermal Performance values are available for all aluminium window and door products as part of their WERS rating (<u>http://www.wers.net/wers-</u>home).

² Further information on glazing performance can be found at (<u>https://www.yourhome.gov.au/passive-design/glazing</u>



3. Part J1 Building Fabric

3.1 Responsible Designer

For the purposes of Part J1 – Building Fabric compliance, the responsible designers are identified as the project Architect and Façade Engineer (where applicable). The minimum insulation and glazing recommendations outlined in this report must be addressed for construction.

It assumed that all other NCC Section J requirements (J5 to J8) will be designed to meet the minimum Deemto-Satisfy (DTS) requirements and will be the responsibility of the D&C contractor, services sub-contractors and building surveyor to ensure the final construction incorporates a compliant solution.

3.2 Summary of Requirements

Part J1 establishes minimum construction and performance provisions required for the projects specific climate zone and building classification. This will apply to the following Part J1 criteria:

- > J1.2 Thermal Construction Installations
- > J1.3 Roof and ceiling construction
- > J1.4 Roof lights
- > J1.5 Combined Wall & Glazing System
- > J1.6 Floor Constriction

Insulation and glazing performance requirements have been provided to meet the minimum compliance measures for the above areas.

3.3 J1.1 Application of Part

Section J 2019, Part J1 is applicable to the scope of the design and construction works identified for the project. For the purposes of this project the proposed works consist of the development of a new 4-storey aged care facility.

This report is intended to provide an analysis of the proposed building envelope as required under Part J1 and will demonstrate compliance using the NCC 2019 Wall-Glazing calculator shown in (Figure 2).

3.4 J1.2 Thermal Construction Installations

All insulation installed for the project must comply with section J1.2 of the BCA. Please note that for the purpose of this report, the following provisions only apply to new constructions. All Installed insulation must adhere to the following requirements:

- > Form a continuous barrier with ceilings, walls bulkheads, floors or similar that inherently contribute to the building's thermal envelope
- > Abut or overlaps all adjoining insulation other than insulation located at supporting members such as studs, noggings, furring channels or similar
- > It is important that the insulation provided must not hinder the safe or effective operation of any service or fittings
- > All insulation must comply with AS4859.1.



Creating great environments with great people

Specific installation requirements further referring to bulk or reflective insulation are outlined in Part J1.2 of the NCC 2019 Section J provisions.

3.5 J1.3 Roof & Ceiling Constructions

Roofs or ceilings must achieve a minimum total R-value greater than or equal to R3.7 for a downward direction of heat flow. The solar absorptance of the upper surface of the roof must not be more than 0.45.

3.6 J1.4 Roof lights

No roof lights have been identified on the Architectural drawings. It is assumed that no roof light or sky light will be provided for the project.

3.7 J1.5 Wall-Glazing Construction System

Part J1.5 establishes the minimum external wall and window construction performance required for the proposed building. This is assessed against the projects climate zone as per the Australian Building Codes Board (ABCB) Climate Zone Map (Figure 3). The development is situated in climate zone 5 – warm temperate.

Compliance for each wall orientation is identified as the Total System U-Value of the wall-glazing construction and is determined through the use of the NCC Section J 2019 Wall-Glazing Calculator (Figure 2).



Figure 2 NCC 2019 Wall-Glazing Calculator

Figure 3 ABCB Climate Zone



Based on a review of the proposed Architectural drawings, the following minimum Part J1 performance requirements have been provided.

Fabric insulation to be provided as follows:

Envelope Construction	Total System R-Value (m ² K/W)
J1.5a Total System external wall construction (all facades)	≥ 1.40
J1.5b Total System internal wall construction (between conditioned & unconditioned areas)	≥ 1.00

Glazing performance has been assessed as per the Section J wall-glazing calculator. The following performance is to be provided for the relevant orientations outlined below:

Glazing – Frame Construction (Non-uniform solution)	Orientation	Total System U-Value (W/m²K)	Total System SHGC
J1.5c Ground Floor to Level 3	North	≤ 4.00	≤ 0.31
J1.5c Ground Floor to Level 3	East	≤ 4.00	≤ 0.41
J1.5c Ground Floor to Level 3	South	≤ 4.00	≤ 0.32
J1.5c Ground Floor to Level 3	West	≤ 4.00	≤ 0.29

Should the project wish to pursue a uniform glazing solution for the development, the following glazing performance has been provided below:

Glazing – Frame Construction	Orientation	Total System U-Value	Total System
(Uniform solution)		(W/m²K)	SHGC
J1.5c Total Window Frame construction	All facades	≤ 4.50	≤ 0.36

Please Note: the above window frame construction values are AFRC total system values and include both the glazing and frame.

The maximum solar admittance for the above solution is calculated as a percentage of incident solar irradiance allowed on a wall-glazing construction. Part J1.5b stipulates that the solar admittance for each façade aspect must not exceed a maximum value of 0.10.

3.8 J1.6 Floors

Floors must achieve the minimum total R-values specified in the table below:

Envelope Construction	Total System R-Value (m ² K/W)
J1.6a Floor construction (above an unconditioned zone)	\geq 2.00 (downwards heat flow)
J1.6b Floor construction (slab on ground)	\geq 2.00 (downwards heat flow)



4. Part J3 Building Sealing

4.1 Building Fabric

The building sealing requirements for any new works are as follows:

- > Seals must be fitted to each edge of a door, operable window or the like
- > An entrance to a building, if leading to a conditioned space must have an airlock, self-closing door, revolving door or the like
- > Ceilings, walls, floors and any opening such as a window frame, door frame, roof light frame or the like must be:
 - constructed to minimise air leakage in accordance with when forming part of the building envelop
 - enclosed by internal lining systems that are close fitting at ceiling, wall and floor junctions; or
 - sealed at junctions and penetrations with close fitting architrave, skirting or cornice; or expanding foam, rubber compressible strip, caulking or the like



5. Conclusions & Recommendations

Based on a full review of the Architectural drawings provided by Boffa Robertson Group and the calculations carried out in this report the following minimum Part J1 performance requirements have been provided. Fabric insulation to be provided as follows:

Envelope Construction	Total System R-Value (m ² K/W)
J1.3 Roof and ceiling construction	≥ 3.70
J1.4 Roof lights	N/A
J1.5a Total System external wall construction (all facades)	≥ 1.40
J1.5b Total System internal wall construction (between conditioned & unconditioned areas)	≥ 1.00
J1.6a Floor construction (above an unconditioned zone)	\geq 2.00 (downwards heat flow)
J1.6b Floor construction (slab on ground)	\geq 2.00 (downwards heat flow)

Glazing performance has been assessed as per the Section J wall-glazing calculator. Should the project wish to pursue a uniform glazing solution for the development, the following glazing performance has been provided below:

Glazing – Frame Construction	Orientation	Total System U-Value	Total System
(Uniform solution)		(W/m²K)	SHGC
J1.5c Total Window Frame construction	All facades	≤ 4.50	≤ 0.36

Please Note: the above window frame construction values are AFRC total system values and include both the glazing and frame.

We understand that the above glazing systems may not be a desirable solution for the project. Should the project wish to consider a less stringent uniform glazing system, a JV3 energy modelling solution can be undertaken.



Appendix A DTS Façade-Glazing Report (Non-Uniform Solution)

SummitCare Randwick - Ground Floor



MINING NOTICE AND UNCLAMENT RESPECT OF THIS CALCULATION So accessing or unique to be following: White are has been taken in the preparation of this calculator, is not accessing, unique or provide and up-to-date version by checking the Australian Building Codes Board, the average of the following: White are has been taken in the preparation of this calculator, is not accessing, unique or this calculator, is not accessing or unique or this calculator. The maximum extent permitted by law. This calculator is not legit or professional active. Persons rely upon this calculator environments the accessing of the formation or unique or the scalculator is not legit or professional active. Persons rely upon this calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique of the intervent or unique of the intervent on the formation or unique of the intervent on the formation or unique or the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the state accessing of the intervent on the state of of any information when many approximate and the information of the second s

The material in this calculator is li information only and without warr Website For information regardir ensed under a Creative (nties of any kind. You ma

SummitCare Randwick - First Floor



MINING NOTICE AND UNCLAMENT RESPECT OF THIS CALCULATION So accessing or unique to be following: White are has been taken in the preparation of this calculator, is not accessing, unique or provide and up-to-date version by checking the Australian Building Codes Board, the average of the following: White are has been taken in the preparation of this calculator, is not accessing, unique or this calculator, is not accessing or unique or this calculator. The maximum extent permitted by law. This calculator is not legit or professional active. Persons rely upon this calculator environments the accessing of the formation or unique or the scalculator is not legit or professional active. Persons rely upon this calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique of the intervent or unique of the intervent on the formation or unique of the intervent on the formation or unique or the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the state accessing of the intervent on the state of of any information when many approximate and the information of the second s

The material in this calculator is li information only and without warrs Website For information regardin ensed under a Creative (nties of any kind. You ma

SummitCare Randwick - Second Floor



MINING NOTICE AND UNCLAMENT RESPECT OF THIS CALCULATION So accessing or unique to be following: White are has been taken in the preparation of this calculator, is not accessing, unique or provide and up-to-date version by checking the Australian Building Codes Board, the average of the following: White are has been taken in the preparation of this calculator, is not accessing, unique or this calculator, is not accessing or unique or this calculator. The maximum extent permitted by law. This calculator is not legit or professional active. Persons rely upon this calculator environments the accessing of the formation or unique or the scalculator is not legit or professional active. Persons rely upon this calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique of the intervent or unique of the intervent on the formation or unique of the intervent on the formation or unique or the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the state accessing of the intervent on the state of of any information when many approximate and the information of the second s

The material in this calculator is li information only and without warr Website For information regardir ensed under a Creative (nties of any kind. You ma

SummitCare Randwick - Third Floor



MINING NOTICE AND UNCLAMENT RESPECT OF THIS CALCULATION So accessing or unique to be following: White are has been taken in the preparation of this calculator, is not accessing, unique or provide and up-to-date version by checking the Australian Building Codes Board, the average of the following: White are has been taken in the preparation of this calculator, is not accessing, unique or this calculator, is not accessing or unique or this calculator. The maximum extent permitted by law. This calculator is not legit or professional active. Persons rely upon this calculator environments the accessing of the formation or unique or the scalculator is not legit or professional active. Persons rely upon this calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique or the calculator is not legit or professional active. Persons rely upon this calculator environments the formation or unique of the intervent or unique of the intervent on the formation or unique of the intervent on the formation or unique or the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the formation or unique of the intervent on the formation or unique of the intervent on the state and the intervent of the intervent on the state accessing of the intervent on the state of of any information which may approximately and the second seco

The material in this calculator is li information only and without warr Website For information regardir

ensed under a Creative nties of any kind. You m



Appendix B DTS Façade-Glazing Report (Uniform Solution)

SummitCare Randwick - Uniform Solution





Appendix C Insulation Mark-up





Boffa Robertso	, information and design n Group. Any inconsiste and Standards are to be	ncies b	etween drawn ir		
LEGEND					
	DUNDARY				
	ASONRY WALL				
	JTLINE OF WA		SOVE / BE	1 OW	
				2011	
		S			
RL.00.00 PF	ROPOSED LEV	ELS			
	PROPOSED DOOR				
			1		
	ROPOSED WIN	DOW			
M	OBILE BATH				
CI	EILING FAN				
• E>		в то	REMAIN		
	(ISTING TREES EMOVED	6 то	BE		
NE	NEW TREES				
ACOUSTIC REQUIREMENTS					
Rw 3	36 10.38mm lam	inate	d OR Rw (36 6/12/8 glass	
Rw 3	31 10mm monoli	thic (DR Rw 34	6/12/6 glass	
Rw 2	7 6mm monolith	nic O	R Rw 34 6	/12/6 glass	
NCC 2019 -	SECTION	J R	EQUIR	EMENTS	
Envelope Constru	ction		Total Sys (m²K/W)	stem R-Value	
J1.3 Roof and ce	iling constructio	n	≥ 3.70		
J1.4 Roof lights			N/A		
	J1.5a Total System external wall			≥ 2.39	
construction (all facades)					
J1.5b Total System internal wall construction (between conditioned & unconditioned areas)		≥ 1.00			
J1.6a Floor construction (above an unconditioned zone)		≥ 2.00			
J1.6b Floor construction No insulation required (concrete slab on ground)		ation required			
Glazing - Frame Construction (Uniform solution)	Construction		al System SHGC	Total System SHGC	
J1.5c Total WindowAll facades≤ 4.00≤ 0.29Frame construction			≤ 0.29		

А	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Proj	ect	

SUMMIT CARE 11-19 Frenchmans Road, Randwick

Drawing

LOWER BASEMENT FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net ĮΟČ



0m 2 5 S C A L E : 1: 200 @ A1 S C A L E : 1: 400 @ A3



LEGEND					
	BOUNDARY				
	MASONRY WALL				
	STUD WALL				
	OUTLINE OF WALL ABOVE / BELOW				
	ROOF OUTLINE				
	NEW FENCE				
+ ex.RL.00.00	EXISTING LEVELS				
RL.00.00	PROPOSED LEVELS				
H H	PROPOSED DOOR				
	PROPOSED WINDOW				
\bigcirc	MOBILE BATH				
	CEILING FAN				
EXISTING TREES TO REMAIN					
(°)	° EXISTING TREES TO BE REMOVED				
	NEW TREES				
	ACOUSTIC REQUIREMENTS Rw 36 10.38mm laminated OR Rw 36 6/12/8 glass				
R	w 31 10mm monol	thic (OR Rw 34	6/12/6 glass	
R	w 27 6mm monolit	nic O	R Rw 34 6	/12/6 glass	
NCC 2019	- SECTION	JR	EQUIR	EMENTS	
Envelope Cons	truction		Total Sy (m²K/W)	stem R-Value	
J1.3 Roof and	I ceiling construction	n	≥	3.70	
J1.4 Roof ligh	ts		1	N/A	
J1.5a Total System external wall ≥ 2.39 construction (all facades)				2.39	
J1.5b Total System internal wall ≥ 1.00 construction (between conditioned & unconditioned areas)			1.00		
J1.6a Floor construction ≥ 2.00 (above an unconditioned zone)			2.00		
J1.6b Floor construction No insulation required (concrete slab on ground)			ation required		
Glazing - Frame Construction (Uniform solutio			al System SHGC	Total System SHGC	
J1.5c Total Window All facades ≤ 4.00 ≤ 0.29 Frame construction					

© This document, information and design concepts shown in it are copyright to Boffa Robertson Group. Any inconsistencies between drawn information and current Codes and Standards are to be notified immediately.

А	Development Application Re-Issue	14.05.2021
No.	Amendment	Date

SUMMIT CARE

11-19 Frenchmans Road, Randwick

Drawing

BASEMENT FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net



0m 2 5 S C A L E : 1: 200 @ A1 S C A L E : 1: 400 @ A3 15r



Insulation Legend (Total System Values)
Internal Wall Insulation R1.00
External Wall Insulation R1.40
Roof Insulation R3.7
Floor Insulation R2.0

LEGEND				
BC	UNDARY			
MASONRY WALL				
ST	UD WALL			
OL	OUTLINE OF WALL ABOVE / BELOW			
RC	OF OUTLINE			
NE	W FENCE			
+ ex.RL.00.00 EX	EXISTING LEVELS			
RL.00.00 PR	0 PROPOSED LEVELS			
PR	PROPOSED DOOR			
PR	OPOSED WIN	DOW	1	
мс	MOBILE BATH			
EXISTING TREES TO REMAIN				
existing trees to be REMOVED				
NE	WTREES			
ACOUSTIC F	REQUIRE	ЛЕN	NTS	
Rw 3	6 10.38mm lam	inate	d OR Rw 3	36 6/12/8 glas
Rw 3	1 10mm monoli	thic (OR Rw 34	6/12/6 glass
Rw 2	7 6mm monolitl	nic O	R Rw 34 6	/12/6 glass
NCC 2019 - 9	SECTION	J R		
Envelope Construc	tion		Total Sys (m²K/W)	stem R-Value
J1.3 Roof and cei	ling constructio	n	2	3.70
J1.4 Roof lights			1	N/A
J1.5a Total System external wall			≥	2.39
construction (all facades) J1.5b Total System internal wall construction (between conditioned & unconditioned areas)			≥ 1.00	
J1.6a Floor construction (above an unconditioned zone)			≥	2.00
J1.6b Floor construction (concrete slab on ground) No insulation requi			ation require	
			Total Syster SHGC	
J1.5c Total Window All facades ≤ 4.00 ≤ 0.29 Frame construction			≤ 0.29	

C This document, information and design concepts shown in it are copyright to Boffa Robertson Group. Any inconsistencies between drawn information and current Codes and Standards are to be notified immediately.

A	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Duri		

Project SUMMIT CARE

11-19 Frenchmans Road, Randwick

Drawing

GROUND FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net



0m 2 5 SCALE: 1: 200 @ A1 SCALE: 1: 400 @ A3 15r



Insulation Legend (Total System Values) Internal Wall Insulation R1.00 External Wall Insulation R1.40 **Roof Insulation** R3.7 Floor Insulation R2.0



	odes an	d Standards are to be	notified	immediately.		
LEGEND						
	BO	UNDARY				
	MAS		SONRY WALL			
	= STUD WALL					
	OUTLINE OF WALL ABOVE / BELOW					
	ROOF OUTLINE					
	NEW FENCE					
+ ex.RL.00.00	EXISTING LEVELS					
RL.00.00	PROPOSED LEVELS					
₩	¥					
	PR	OPOSED DOC	R			
ff						
	PR	OPOSED WIN	DOW			
$\langle \rangle$	MOBILE BATH					
	CEILING FAN					
	EXISTING TREES TO REMAIN					
(°)	EXISTING TREES TO BE REMOVED					
	NEW TREES					
ACOUSTI		-			20.0/40/2 - 1	
					36 6/12/8 glass	
		10mm monoli				
ſ	₹₩ 27	6mm monolith		K KW 34 0	12/6 glass	
NCC 2019) - S	SECTION	JR	EQUIR	EMENTS	
Envelope Con	struc	tion		Total Sys (m²K/W)	stem R-Value	
J1.3 Roof an	d ceil	ing constructio	n	2	3.70	
J1.4 Roof lig	hts			1	N/A	
J1.5a Total Sy construction (a				≥	2.39	
J1.5b Total Sy construction (b unconditioned	internal wall en conditioned	≥ 1.00		1.00		
J1.6a Floor construction (above an unconditioned zone)			≥ 2.00			
J1.6b Floor construction (concrete slab on ground) No insulation required			ation required			
Glazing - Fram Construction (Uniform soluti		Orientation		al System SHGC	Total System SHGC	
J1.5c Total WindowAll facades≤ 4.00≤ 0.29Frame construction			≤ 0.29			

A	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Proi	ect	

SUMMIT CARE 11-19 Frenchmans Road, Randwick

Drawing

FIRST FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7009 Fax. (02) 9406 7099 Email : brgroup@brgr.net





Insulation I	Legend
(Total Systen	n Values)

 Internal Wall Insulation R1.00
 External Wall Insulation R1.40
Roof Insulation R3.7
Floor Insulation R2.0

LEGENI	D				
	- во	UNDARY			
	I MA	SONRY WALL			
	= STI	JD WALL			
	- OU	TLINE OF WA	LL AE	BOVE / BE	LOW
	RO	OF OUTLINE			
	NE	W FENCE			
+ ex.RL.00.00	EXI	STING LEVEL	S		
RL.00.00	PR	OPOSED LEVI	ELS		
fT	PR	OPOSED DOC	R		
	PR	OPOSED WINI	DOW	1	
\bigcirc	МО	BILE BATH			
	CE	ILING FAN			
	EXI	STING TREES	в то	REMAIN	
(°		STING TREES MOVED	в то	BE	
	NE	W TREES			
ACOUST	IC R	EQUIREN	ΛEΝ	NTS	
	Rw 36	3 10.38mm lam	inate	d OR Rw 3	36 6/12/8 glass
	Rw 31	10mm monoli	thic (DR Rw 34	6/12/6 glass
	Rw 27	6mm monolith	nic O	R Rw 34 6	/12/6 glass
NCC 201	9 - 5	SECTION	J R	EQUIR	EMENTS
Envelope Co	nstruc	tion		Total Sys (m²K/W)	stem R-Value
J1.3 Roof a	nd ceil	ing constructio	n	≥ :	3.70
J1.4 Roof li	ghts			١	N/A
J1.5a Total S construction (≥ :	2.39
J1.5b Total S construction (unconditioned	betwee	en conditioned	&	2	1.00
J1.6a Floor of (above an un				≥ ;	2.00
J1.6b Floor (concrete slat	constru	ction		No insula	ation required
Glazing - Fran Construction (Uniform solu		Orientation		al System SHGC	Total System SHGC

J1.5c Total Window All facades $\leq 4.00 \leq 0.29$

Frame construction

А	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Proj	ect	

SUMMIT CARE 11-19 Frenchmans Road, Randwick

Drawing

SECOND FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net



15m



0	This docume
G	Boffa Roberts

This document, information and design concepts shown in it are copyright to Boffa Robertson Group. Any inconsistencies between drawn information and current Codes and Standards are to be notified immediately.

BASIX and Th	ermal Comfort Inclusions
Floors	Concrete between levels, no insulation required
Walls	External walls: Brick Veneer with R2.0 insulation (insulation only value) External colour: Medium (0.475 <sa<0.7) Inter-tenancy walls: Minimum 75mm Hebel Power Panel to walls adjacent to neighbours and hallways, no insulation required. Internal walls (within units): Plasterboard on studs</sa<0.7)
Windows	Aluminium framed double glazing: U-value: 3.40 (equal to or lower than) SHGC: 0.33 (±10%) Given values are AFRC total window system values (glass and frame) Note: Openability modelled as per BASIX Thermal Protocol – 4.14.2 and NatHERS Technical Note 1.2 – 10.11 with regards to restricted openings
Ceilings	Plasterboard ceiling with R3.0 insulation (insulation only value) to where roof is above. Plasterboard ceiling, no insulation where neighbouring units are above. Note: Loss of ceiling insulation due to penetrations from down lights have been accounted for in accordance with BCA Technical Note 2 and Sealed LED down lights at a maximum of one every 2.5m2
Roof	Metal roof with foil backed blanket (Ru1.3 and Rd1.3) External colour: Dark (SA > 0.7)
Floor coverings	Tiles to throughout
Hot water system	Central gas-fired boiler with R1.0 (~38mm) insulation to ring main and supply risers
Fixtures	Showerheads: 4.0 star low flow (>4.5L but <=6.0L/min) Toilets: 4.0 star Kitchen taps: 5.0 star Bathroom vanity taps: 5.0 star
Cooling systems	Ceiling fans + single phase air conditioning to living areas and bedrooms: Min. 3 star
Heating systems	Ceiling fans + single phase air conditioning to living areas and bedrooms: Min. 3 star
Appliances	Dish washer: 3.0 star water & 4.0 star energy rating Clothes washer: 3.0 star water & 4.0 star energy rating Clothes dryer: 6.0 star energy rating Refrigerator: 3.5 star energy rating
Ventilation in units	Kitchen - Individual fan, externally ducted to façade, manual on/off switch Bathrooms - Individual fan, externally ducted to façade, manual on/off switch Laundry - Individual fan, externally ducted to façade, manual on/off switch
Other	Electric cooktop & electric oven Well-ventilated fridge space Air conditioning day-night zoned between bedrooms and living areas

	BOUNDARY			
	MASONRY WALL	-		
	STUD WALL			
	OUTLINE OF WA	LL AI	BOVE / BE	LOW
	ROOF OUTLINE			
	NEW FENCE			
+ ex.RL.00.00	EXISTING LEVEL	S		
RL.00.00	PROPOSED LEV	ELS		
H H	PROPOSED DOO	OR		
	PROPOSED WIN	DOW	1	
\bigcirc	MOBILE BATH			
	CEILING FAN			
(EXISTING TREES	S TO	REMAIN	
(°	EXISTING TREES	S TO	BE	
	NEW TREES			
ACOUSTI		ИЕГ	NTS	
	Rw 36 10.38mm lan	ninata		36 6/12/8 alass
	Rw 31 10mm monol			
	Rw 27 6mm monolit			
				12/0 yiass
NCC 2019	- SECTION	JR	EQUIR	EMENTS
Envelope Cons	struction		Total Sys (m ² K/W)	stem R-Value
J1.3 Roof and	d ceiling constructio	on	≥	3.70
J1.4 Roof ligh	nts		1	N/A
J1.5a Total Sy construction (al	stem external wall I facades)		≥	2.39
	rstem internal wall etween conditioned areas)	&	≥	1.00
	nstruction Inditioned zone)		≥	2.00
J1.6a Floor co (above an unco	,		No insul	ation required
(above an unco J1.6b Floor co				
(above an unco	e Orientation		al System	Total System SHGC

А	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Proj	ect	

SUMMIT CARE 11-19 Frenchmans Road, Randwick

Drawing

THIRD FLOOR PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net



0m 2 5 S C A L E : 1: 200 @ A1 S C A L E : 1: 400 @ A3

15m



Insulation Legend (Total System Values)

 Internal Wall Insulation R1.00
 External Wall Insulation R1.40
Roof Insulation R3.7
Floor Insulation R2.0



C This document, information and design concepts shown in it are copyright to Boffa Robertson Group. Any inconsistencies between drawn information and current Codes and Standards are to be notified immediately.

current C	odes an	d Standards are to be	notified	immediately.	
LEGEND					
		UNDARY			
		SONRY WALL	·		
	STL	JD WALL			
	OU.	TLINE OF WA	LL AE	BOVE / BE	LOW
	RO	OF OUTLINE			
····	NE۱	N FENCE			
+ ex.RL.00.00	EXI	STING LEVEL	S		
RL.00.00	PR	OPOSED LEV	ELS		
H	PR	OPOSED DOC	R		
	PR	OPOSED WIN	DOW	,	
$\langle \rangle$	МО	BILE BATH			
	CEI	LING FAN			
	EXI	STING TREES	6 то	REMAIN	
		STING TREES MOVED	б то	BE	
	NE\	W TREES			
ACOUSTI					00.0/40/0 slass
					36 6/12/8 glass
		10mm monoli			
F	KW 27	6mm monolith		R RW 34 6	12/6 glass
NCC 2019) - S	ECTION	J R	EQUIR	EMENTS
Envelope Con	struc	tion		Total Sys (m²K/W)	stem R-Value
J1.3 Roof an	d ceil	ing constructio	n	2	3.70
J1.4 Roof lig	hts			N/A	
J1.5a Total Sy construction (a				≥	2.39
J1.5b Total Sy construction (b unconditioned a	/stem etwee	internal wall en conditioned	&	2	1.00
J1.6a Floor co (above an unco				2	2.00
J1.6b Floor co (concrete slab				No insula	ation required
Glazing - Fram Construction (Uniform soluti		Orientation		al System SHGC	Total System SHGC
J1.5c Total Wir Frame construc		All facades		≤ 4.00	≤ 0.29

А	Development Application Re-Issue	14.05.2021
No.	Amendment	Date
Proj	ect	
	ect MMIT CARE	

Drawing ROOF PLAN



boffa robertson group architecture, health and aged care planning, project management

Suite 7, Level 1 Epica, 9 Railway Street Chatswood NSW 2067 AUSTRALIA Tel. (02) 9406 7000 Fax. (02) 9406 7099 Email : brgroup@brgr.net



0m 2 5 S C A L E : 1: 200 @ A1 S C A L E : 1: 400 @ A3

15m



Creating great environments with great people

Melbourne

Level 11, 60 Albert Road South Melbourne VIC 3205 T. 03 9521 1195 Sydney Level 3, 8 Spring Street Sydney NSW 2000 τ. 02 8203 5447 Brisbane Ground Floor, 102 Adelaide Street Brisbane QLD 4000 τ. 07 3088 4022

adpconsulting.com.au