



ADVERTISED PLAN

196 GLENGALA ROAD SUNSHINE WEST
MARIAN COLLEGE CHAPEL

SUSTAINABLE DESIGN ASSESSMENT

This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright

DOCUMENT PROPERTIES

DOCUMENT BY: WRAP Engineering Pty Ltd
Level 2, 600 Church Street
Cremorne, Victoria 3121

DESCRIPTION: Sustainable Design Assessment

PROJECT NAME: 196 Glengala Road Sunshine West – Marian College Chapel

PROJECT SITE: 196 Glengala Road Sunshine West

PROJECT NUMBER: 26396

DOCUMENT AMENDMENTS

REVISION	DETAILS	AUTHOR/S	DATE	REVIEWD BY
01	Draft issue	BR	22/05/2026	KG
02	Issue for TP Submission	BR	02/06/2026	KG

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**

**ADVERTISED
PLAN**

CONTENTS

1	INTRODUCTION.....	4
1.1	SITE DESCRIPTION	4
1.2	DEVELOPMENT SUMMARY	5
1.3	COUNCIL PLANNING REQUIREMENTS.....	5
1.4	REFERENCE DOCUMENTATION.....	5
2	ESD ASSESSMENT.....	6
2.1	INDOOR ENVIRONMENT QUALITY	6
2.2	ENERGY EFFICIENCY	7
2.3	WATER EFFICIENCY	8
2.4	STORMWATER MANAGEMENT.....	9
2.5	BUILDING MATERIALS	9
2.6	TRANSPORT.....	10
2.7	WASTE MANAGEMENT	11
2.8	URBAN ECOLOGY	12
2.9	CONSTRUCTION AND BUILDING MANAGEMENT	12
3	BESS ASSESSMENT	13
	APPENDIX A – VOC & FORMALDEHYDE LIMITS	14
	APPENDIX B – DAYLIGHT ASSESSMENT	16
	APPENDIX C – EFFECTIVE NATURAL VENTILATION	18
	APPENDIX D – SECTION J ASSESSMENT	20
	APPENDIX E – BESS ASSESSMENT	29

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

1 INTRODUCTION

This Sustainable Design Assessment (SDA) has been prepared to assist the design, construction and operation of the proposed development of 196 Glengala Road Sunshine West – Marian College Chapel to achieve a range of best-practice sustainable development objectives.

WRAP Engineering have assessed the proposed plans and provided input to the design team.

This SDA captures initiatives necessary to ensure that the development meets the sustainability requirements of Brimbank City Council in particular the ESD requirements of the following Planning Clauses:

- 15.01-2L-02 Environmentally Sustainable Development
- 53.18 Stormwater Management in Urban Development

1.1 SITE DESCRIPTION

The project site at 196 Glengala Road Sunshine and the area of work is approximately 2,104 m². The existing Learning and Diversity HUB building on the site will be demolished and will be replaced by this new Chapel building.



Figure 1 Subject site

**ADVERTISED
PLAN**

1.2 DEVELOPMENT SUMMARY

The proposed development will consist of the following:

- Ground Level –Chapel, Store, Chair Store, Egress, DDA WC and Narthex.

1.3 COUNCIL PLANNING REQUIREMENTS

The Brimbank City Council expects new developments to be designed, built and maintained at a level that reflects best practice sustainable development outcomes. The ESD response will need to ensure that the design meets sustainability targets in the areas of energy reduction, water use reduction and water sensitive urban design, indoor environment quality, materials selection, transportation, waste management and urban ecology.

Brimbank City Council, as a member/participant of SDAPP, has identified 10 Key Sustainable Building Categories to be addressed. These categories are as follows:

- Energy Efficiency;
- Water Efficiency;
- Stormwater Management;
- Indoor Environment Quality;
- Building Materials;
- Construction and Waste Management;
- Transport;
- Urban Ecology;
- Building Management; and
- Innovation.

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

The council's Planning Scheme also encourages the use of relevant ESD tools to assess the proposed development. For this project, the following tools will be used:

- Built Environment Sustainability Scorecard (BESS) – a holistic sustainability assessment tool subscribed to by Brimbank City Council;
- WSUD assessment (by Civil).

This SDA incorporates initiatives to ensure that the Council's ESD requirements are satisfied by addressing the Key Sustainable Building Categories, demonstrating that Council's Best Practice Standards will be achieved, and using relevant and appropriate ESD assessment tools.

1.4 REFERENCE DOCUMENTATION

This SDA should be read in conjunction with the other relevant documentation included within the development's town planning submission to council. These documents may include the following:

- Architectural documentation by Mcildowie Partners dated 22/05/26.
- Landscape plans
- Stormwater Management Plan

**ADVERTISED
PLAN**

2 ESD ASSESSMENT

The following sections outline the ESD assessment which has been completed for the project. The assessment is presented within the Key Sustainable Building Categories, and for each item following information is provided:

1. A short description of the ESD initiative and/or the project's design response;
2. The nominated party responsible for implementation of the initiative; and
3. The stage of the project at which implementation could be demonstrated.

Within this assessment, the level of detail that has been provided is generally in proportion to what is appropriate or practicable at this early stage of design. This is described or explained within each item, with future commitments included as appropriate.

2.1 INDOOR ENVIRONMENT QUALITY

2.1.1 OBJECTIVES

- To achieve a healthy indoor environment quality for the wellbeing of building occupants.
- To provide a naturally comfortable indoor environment will lower the need for building services, such as artificial lighting, mechanical ventilation and cooling and heating devices.

2.1.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Daylight Glazing with a VLT of at least 40% will be specified for the development. A daylight assessment has been completed for the project and indicates that 86% of the chapel space will achieve a Daylight Factor of at least 2%. This is compliant with BESS requirements. Please refer to Appendix B for details.	Architect Consultant	Contract Documentation
Effective Ventilation The outside air will be provided through operable windows. 100% of the chapel area complies with the BESS natural ventilation requirements. Refer to Appendix C.	Architect	Contract Documentation
Volatile Organic Compounds All paints, adhesives, sealants and carpets will not exceed the limits outlined in Appendix A.	Architect Services Engineer	Contract Documentation
Formaldehyde All engineered wood products will have 'low' formaldehyde emissions, certified as E0 or better, or will not exceed the limits outlined in Appendix A.	Architect	Contract Documentation

**ADVERTISED
PLAN**

2.2 ENERGY EFFICIENCY

2.2.1 OBJECTIVES:

- To ensure the efficient use of energy.
- To reduce total operating greenhouse emissions.
- To reduce energy peak demand.
- To reduce associated energy costs.

2.2.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Heating and Cooling Systems The project will utilise high efficiency reverse-cycle HVAC units.	Services Engineer	Contract Documentation
Building Fabric Energy Efficiency A preliminary Section J assessment has been completed for this project. The building fabric will meet the BESS Deemed-to-Satisfy requirements for energy efficiency.	Architect ESD Consultant	Design Development
Artificial Lighting The maximum illumination power density (W/m ²) in at least 90% of the area of the spaces will meet the requirements in Table J7D3a of the NCC 2025 Vol 1.	Services Engineer	Contract Documentation
Solar PV A solar PV array of at least 15 kW will be provided, with final sizing to be coordinated during the design development phase.	Services Engineer	Contract Documentation

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

**ADVERTISED
PLAN**

2.3 WATER EFFICIENCY

2.3.1 OBJECTIVES:

- To ensure the efficient use of water.
- To reduce total operating potable water use.
- To encourage the collection and reuse of stormwater.
- To encourage the appropriate use of alternative water sources (e.g. grey water).
- To minimise associated water costs.

2.3.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Water Fixtures and Fittings The following minimum Water Efficiency Labelling Scheme (WELS) star ratings will be specified: - Toilets: 4 Star - Taps (bathroom and kitchen): 5 Star	Architect	Contract Documentation
Waterless HVAC All HVAC systems will use air-cooled heat rejection systems.	Services Engineer	Contract Documentation
Fire System Test Water Not applicable - The proposed chapel building is less than 300m ² and does not require a wet fire system. Only portable fire extinguishers are provided.	-	-

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

**ADVERTISED
PLAN**

2.4 STORMWATER MANAGEMENT

2.4.1 OBJECTIVES:

- To reduce the impact of stormwater run-off.
- To improve the water quality of stormwater run-off.
- To achieve best practice stormwater quality outcomes.
- To incorporate water sensitive urban design principles.

2.4.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Stormwater Pollution Reduction The project will achieve a Best Practice stormwater pollution reduction. Refer to storm water management plan for details.	Architect Services Engineer Civil Engineer	Contract Documentation

2.5 BUILDING MATERIALS

2.5.1 OBJECTIVES:

- To minimise the environmental impacts materials used by encouraging the use of materials with a favourable lifecycle assessment based on the following factors:
 - Fate of material
 - Recycling/Reuse
 - Embodied energy
 - Biodiversity
 - Human health
 - Environmental toxicity
 - Environmental responsibility.

2.5.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Insulation All insulants will have zero ozone depletion potential (ODP).	Contractor	Construction
Refrigerants All HVAC refrigerants used in the development will be selected to have an Ozone Depletion Potential (ODP) of zero.	Services Engineer	Contract Documentation

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

2.6 TRANSPORT

2.6.1 OBJECTIVES:

- To minimise car dependency.
- To ensure that the built environment is designed to promote the use of public transport, walking and cycling.

2.6.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Active Transport Facilities The development will utilise the school's existing bike parking facilities.	Architect	Contract Documentation
Access to Public Transport The development is located in a suburban setting, with access to trains and bus. It scores a "Some Transit Score" of 47 out of 100.	n/a	
Walking Access to Amenities The development is "Car-Dependent", achieving a Walk Score of 47 out of 100.	n/a	

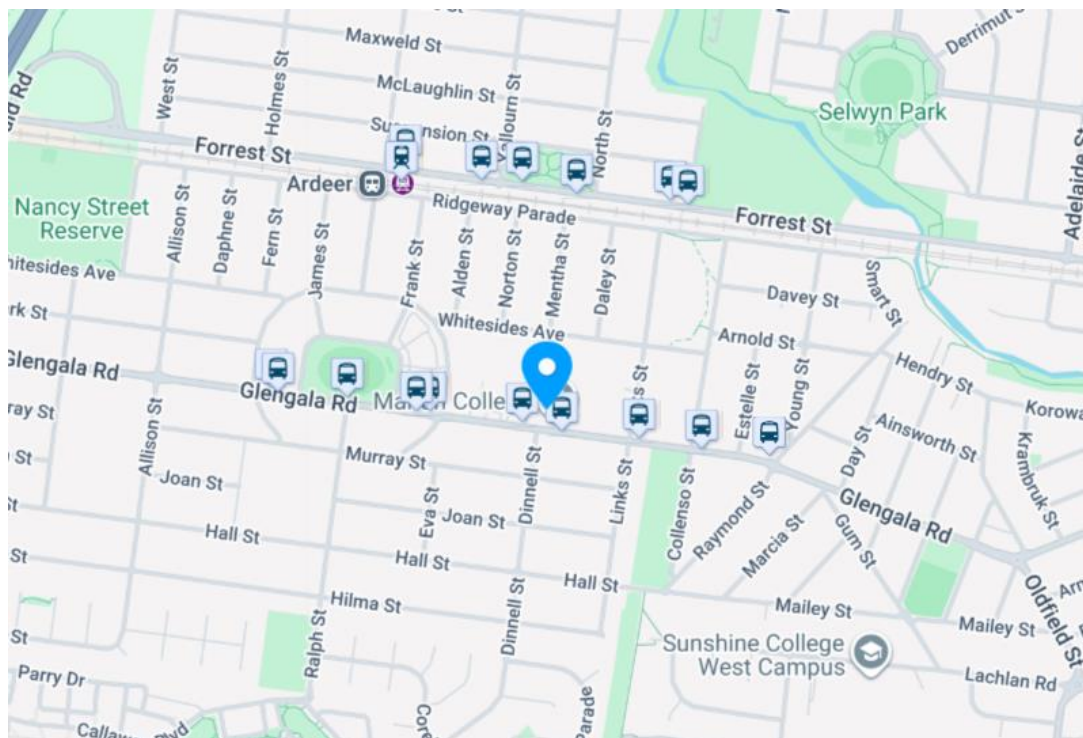


Figure 2: Public transport local area map showing site location.

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

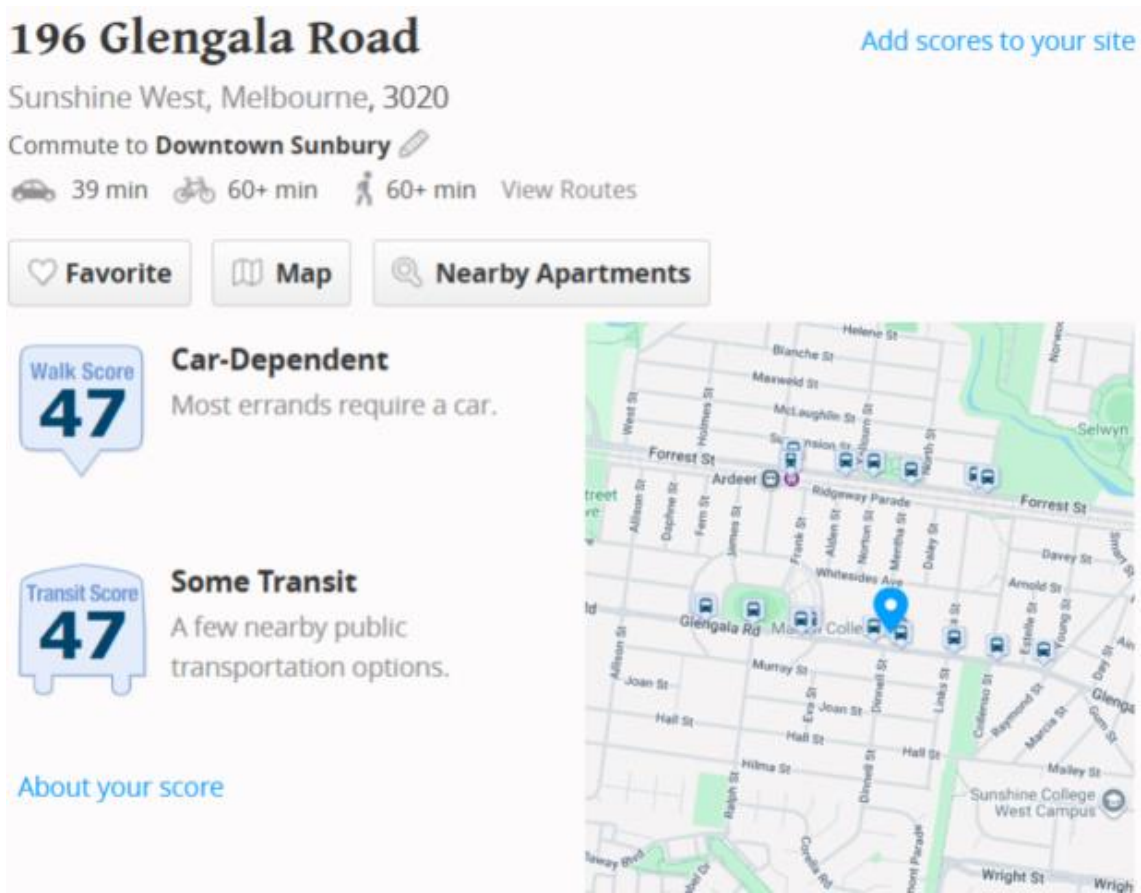


Figure 3: Walk Score and Transit Score for the site location.

2.7 WASTE MANAGEMENT

2.7.1 OBJECTIVES:

- To ensure waste avoidance, reuse and recycling during the design, construction and operation stages of development.
- To ensure long term reusability of building materials.

2.7.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Operational Waste Recycling facilities will be provided and separated from general waste but will be co-located to provide convenient access to recycling.	Architect & Waste Consultant	Contract Documentation

ADVERTISED
PLAN

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

2.8 URBAN ECOLOGY

2.8.1 OBJECTIVES:

- To protect and enhance biodiversity.
- To provide sustainable landscaping.
- To protect and manage all remnant indigenous plant communities.
- To encourage the planting of indigenous vegetation.

2.8.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Vegetation Approximately 10% of the site area will be covered by vegetation as per landscape drawings.	Landscape	Contract Documentation

2.9 CONSTRUCTION AND BUILDING MANAGEMENT

2.9.1 OBJECTIVES:

- To encourage a holistic and integrated design and construction process and ongoing high performance.

2.9.2 DEVELOPMENT RESPONSE

ESD INITIATIVE	RESPONSIBILITY & IMPLEMENTATION	PROJECT STAGE
Construction Environmental Management The contractor will prepare and implement a Best Practice project-specific EMP at the start of construction. The EMP will be developed in accordance with the industry standard NSW Environmental Management Systems Guidelines or equivalent.	Contractor	Construction
Building Commissioning and Tuning A comprehensive building commissioning and tuning plan will be implemented for all major building services.	Contractor	Construction onwards

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

3 BESS ASSESSMENT

A summary of the BESS results is presented below. The full report is provided in Appendix E.

BESS, 196 Glengala Road Sunshine West - Marian College Chapel 196 Glengala ...

BESS Buildings Report

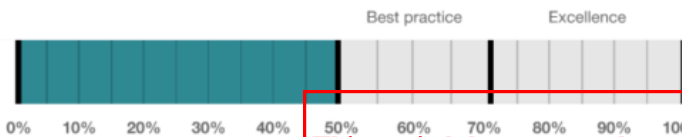
Built Environment Sustainability Scorecard



This BESS report outlines the sustainable design commitments of the proposed development at 196 Glengala Rd Sunshine West Victoria 3020. The BESS report and accompanying documents and evidence are submitted in response to the requirement for a Sustainable Design Assessment or Sustainability Management Plan at Brimbank City Council.

Note that where a Sustainability Management Plan is required, the BESS report must be accompanied by a report that further demonstrates the development's potential to achieve the relevant environmental performance outcomes and documents the means by which the performance outcomes can be achieved.

Your BESS Score



52%

Project details

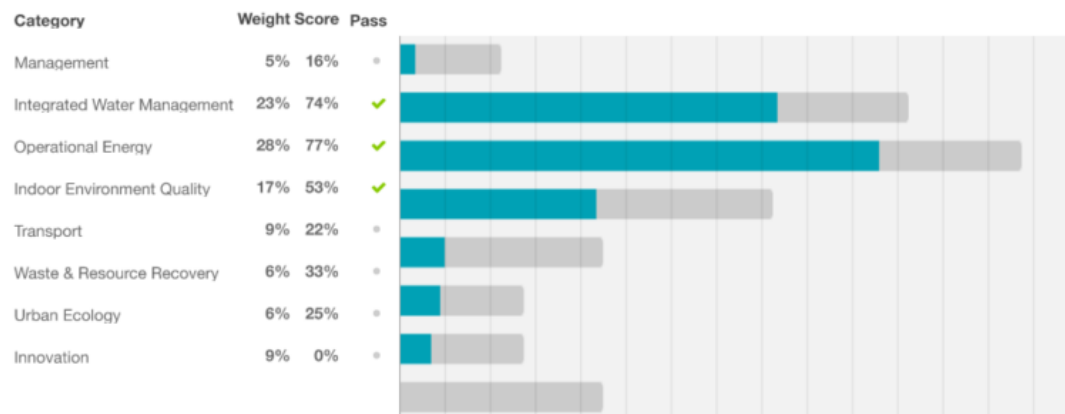
Name 196 Glengala Road Sunshine West - Marian College Chapel
Address 196 Glengala Rd Sunshine West - Marian College Chapel
Project ID 218319AC-R1
BESS Version BESS-10
Date 02 June 2026
Software version 2.3.0-B.654

Site type Non-residential development
Account admin@wrapengineering.com.au
Application no.
Site area 2,104 m²
Building floor area 273 m²

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

Performance by category

● This project ● Maximum available



**ADVERTISED
PLAN**

APPENDIX A – VOC & FORMALDEHYDE LIMITS

VOC LIMITS – PAINTS, ADHESIVES & SEALANTS

PRODUCT CATEGORY	MAX. TVOC (g/L OF READY TO USE PRODUCT)
General purpose adhesives and sealants	50
Interior wall and ceiling paint, all sheen levels	16
Trim, varnishes and wood stains	75
Primers, sealers and prep coats	65
One and two pack performance coatings for floors	140
Acoustic sealants, architectural sealant, waterproofing membranes and sealant, fire retardant sealants and adhesives	250
Structural glazing adhesive, wood flooring and laminate adhesives and sealants	100

VOC LIMITS – CARPETS

COMPLIANCE OPTIONS	COMPLIANCE CRITERIA
A – PRODUCT CERTIFICATION	The product is certified under a recognised Product Certification Scheme (listed on the GBCA website http://new.gbca.org.au/product-certification-schemes/) or other recognised standards. The certificate must be current at the time of project registration or submission and list the relevant product name and model.
B – LABORATORY TESTING	<u>ASTM D5116:</u> - Total VOC limit: 0.5mg/m² per hour, & - 4-PC limit: 0.05mg/m² per hour <u>ISO 16000 / EN 13419:</u> - TVOC at three days: 0.5mg/m² per hour <u>ISO 10580 / ISO/TC 219 (Document N238):</u> - TVOC at 24 hours: 0.5mg/m² per hour

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

FORMALDEHYDE LIMITS

TEST PROTOCOL	EMISSION LIMIT/ UNIT OF MEASUREMENT
AS/NZS 2269:2004, testing procedure AS/NZS 2098.11:2005 method 10 for Plywood	≤1mg/ L
AS/NZS 1859.1:2004 - Particle Board, with use of testing procedure AS/NZS 4266.16:2004 method 16	≤1.5 mg/L
AS/NZS 1859.2:2004 - MDF, with use of testing procedure AS/NZS 4266.16:2004 method 16	≤1mg/ L
AS/NZS 4357.4 - Laminated Veneer Lumber (LVL)	≤1mg/ L
Japanese Agricultural Standard MAFF Notification No.701 Appendix Clause 3 (11) - LVL	≤1mg/ L
JIS A 5908:2003- Particle Board and Plywood, with use of testing procedure JIS A 1460	≤1mg/ L
JIS A 5905:2003 - MDF, with use of testing procedure JIS A 1460	≤1mg/ L
JIS A1901 (not applicable to Plywood, applicable to high pressure laminates and compact laminates)	≤0.1 mg/m ² hr
ASTM D5116 (applicable to high pressure laminates and compact laminates)	≤0.1 mg/m ² hr
ISO 16000 part 9, 10 and 11 (also known as EN 13419), applicable to high pressure laminates and compact laminates	≤0.1 mg/m ² hr (at 3 days)
ASTM D6007	≤0.12mg/m ³
ASTM E1333	≤0.12mg/m ³
EN 717-1 (also known as DIN EN 717-1)	≤0.12mg/m ³
EN 717-2 (also known as DIN EN 717-2)	≤3.5mg/m ² hr

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

**ADVERTISED
PLAN**

APPENDIX B – DAYLIGHT ASSESSMENT

A daylight assessment has been undertaken in accordance with the BESS daylight methodology using Better Building modelling software. The assessment demonstrates that the nominated regularly occupied areas achieve a minimum daylight factor of 2% under uniform design sky.

Based on the assessment results, the project is considered to satisfy the applicable BESS daylight performance requirements.

Under this assessment methodology, there is a requirement that the project must specify glazing with Visible Light Transmission (VLT) at least 40%.

Table 1 Daylight compliance

Level	Occupied Floor Area (m ²)	Daylight Complaint Area (m ²)
Ground	217.9	186.4
Overall Compliance	86%	

To provide a high level of amenity and energy efficiency through design for natural light, a minimum score of 33% is targeted by BESS. The project has achieved a daylight factor of 2% to 86% of the regular occupied areas.

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

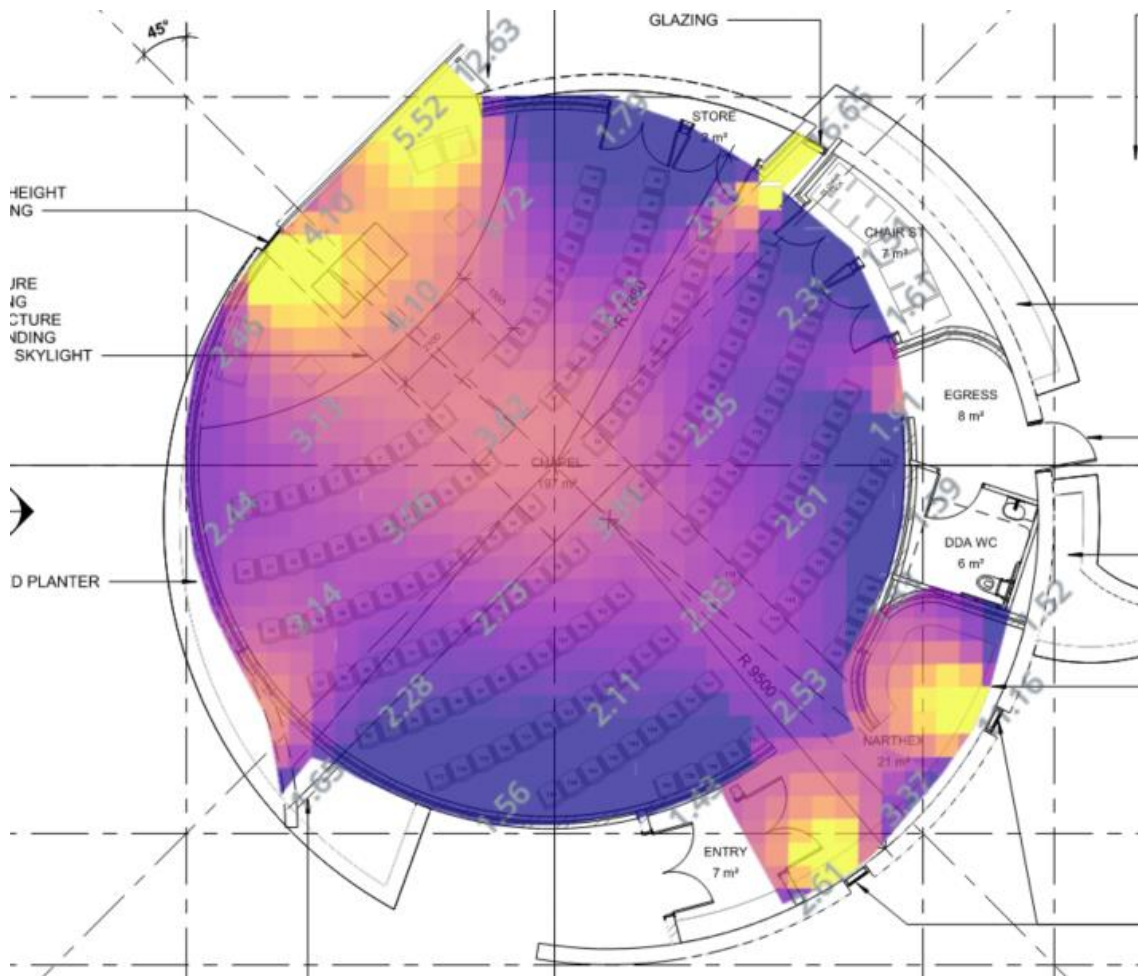


Figure 4 Daylight compliant area for ground floor

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

**ADVERTISED
PLAN**

APPENDIX C – EFFECTIVE NATURAL VENTILATION

EFFECTIVE NATURAL VENTILATION

Chapel area within the building has been assessed for effective ventilation against the BESS criteria for cross-ventilation or single-sided ventilation. The results of this assessment are presented below.

TOTAL NUMBER OF SPACES	1
NO. SPACES – EFFECTIVE NATURAL VENTILATION	1
% SPACES – EFFECTIVE NATURAL VENTILATION	100%

Legend

Compliant – Effective Natural Ventilation

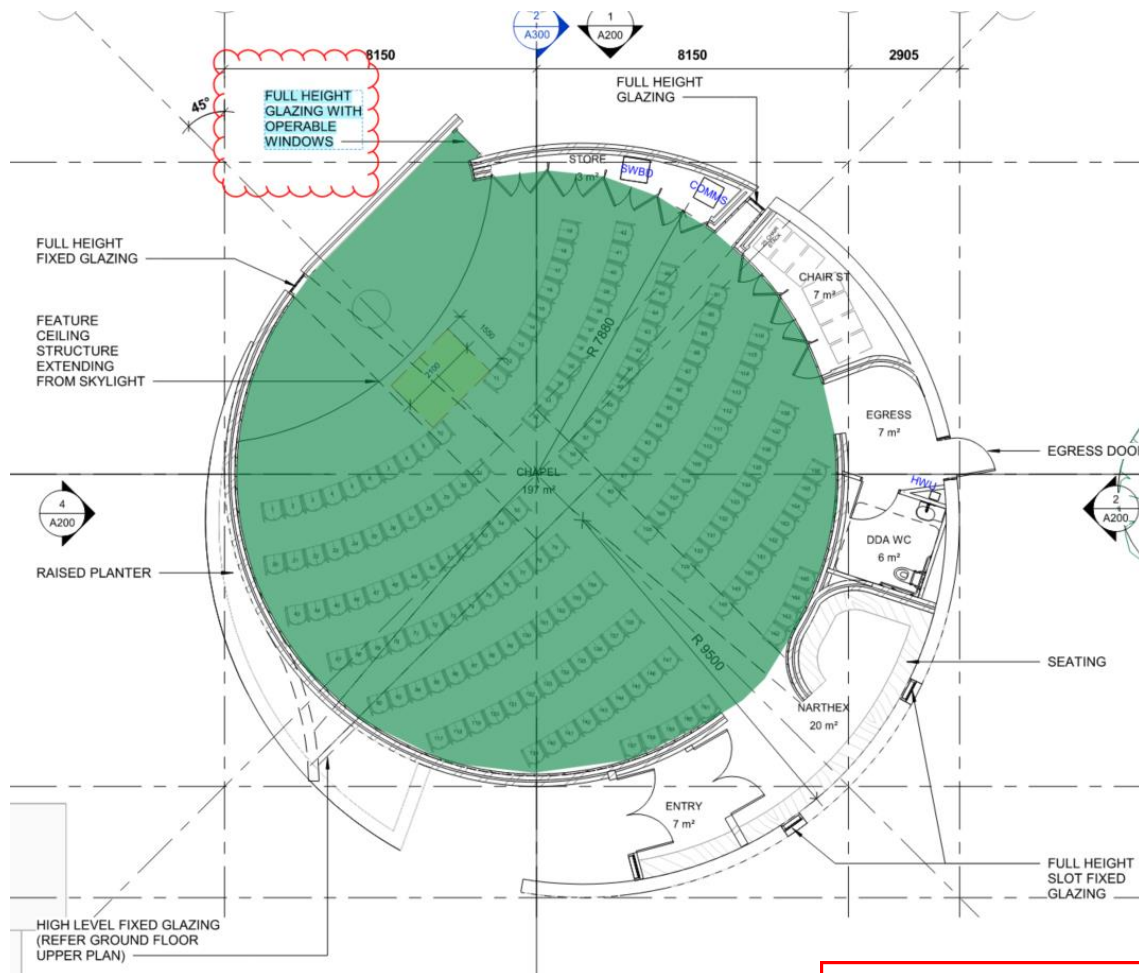


Figure 5 Natural ventilation for building– Compliant area

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

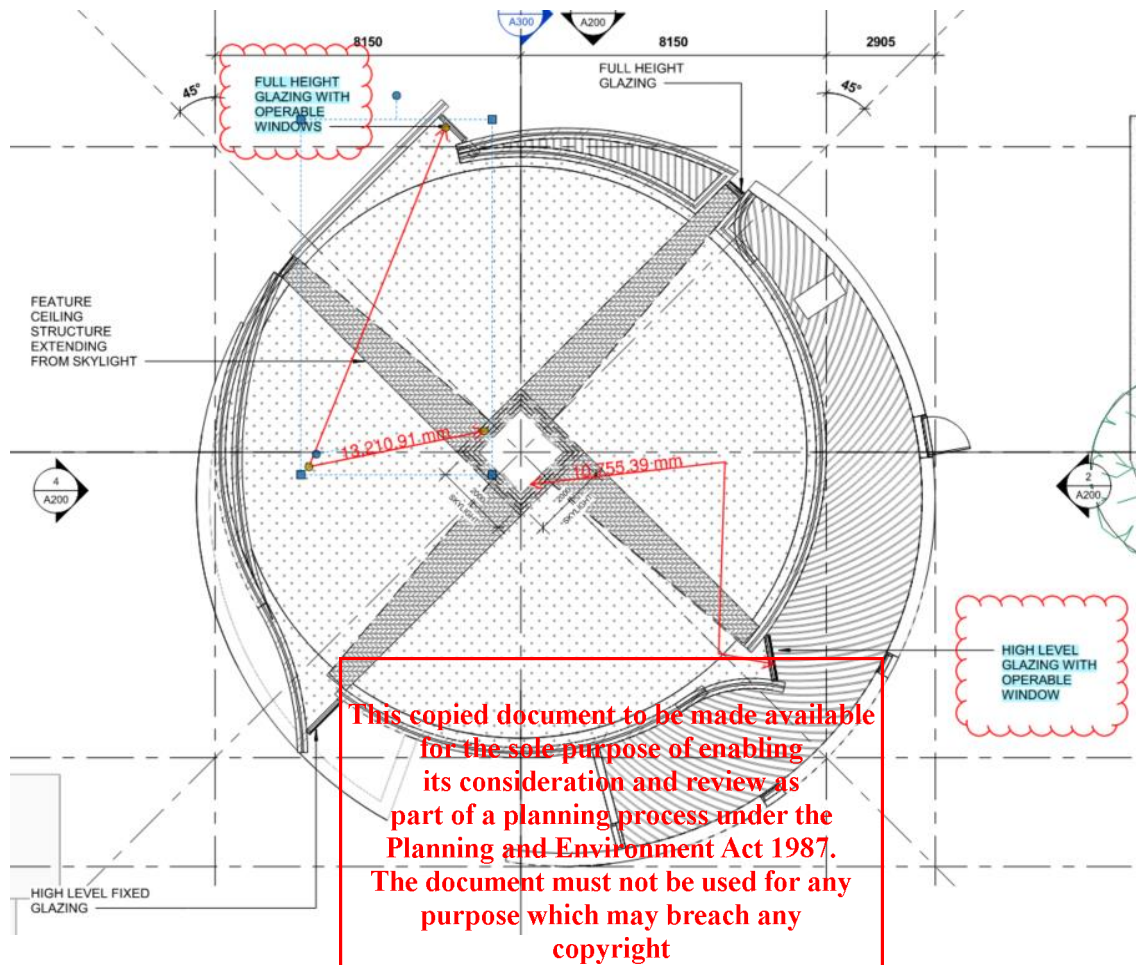


Figure 6 Natural ventilation for building – Breez path and operable windows (GF upper)

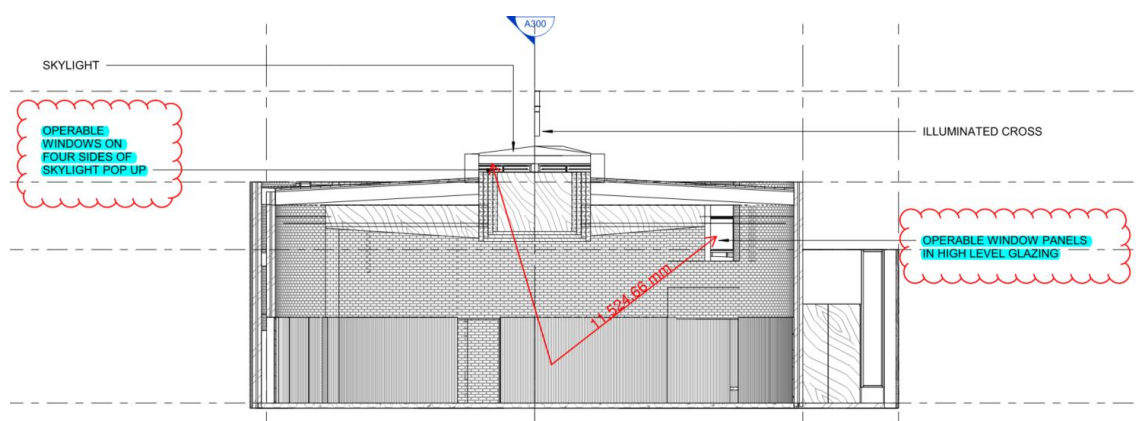


Figure 7 Natural ventilation for building – Breez path and operable windows (Section view)

**ADVERTISED
PLAN**

APPENDIX D – SECTION J ASSESSMENT

ADVERTISED PLAN

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**

DESIGN MEMORANDUM

PROJECT:	196 Glengala Road Sunshine West – Marian College Chapel		
PROJECT NO:	26396	DM NO:	01 Rev01
FROM:	Bree Ramezani	DATE:	18/05/2026
ATTENTION:	COMPANY:	EMAIL:	
Michelle Liu	McIldowie Partners	mliu@mcildowiepartners.com.au	

NCC SECTION J ASSESSMENT

INTRODUCTION

This Design Memorandum (DM) provides a summary of the preliminary NCC 2025 Section J assessment which have been completed for 196 Glengala Rd, Sunshine West, Marian College Chapel.

NCC SCOPE

This assessment addresses the following Parts of the NCC only:

- Part J4 – Building Fabric
- Part J5 – Building Sealing

CLASSIFICATIONS

This assessment assumes the following:

- NCC 2025
- Building Class 9b – Assembly building (Church)

SOURCES OF INFORMATION

The following sources of information were used in the assessment:

- Architectural plans and elevations drawings dated 12/05/2026 and 01/05/2026.

BUILDING ENVELOPE

This assessment applies to all building elements that form the thermal envelopes of the buildings, specifically those that separate a conditioned space or habitable room from the exterior of the building or from an adjacent non-conditioned space such as a car park, plant room or similar.

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

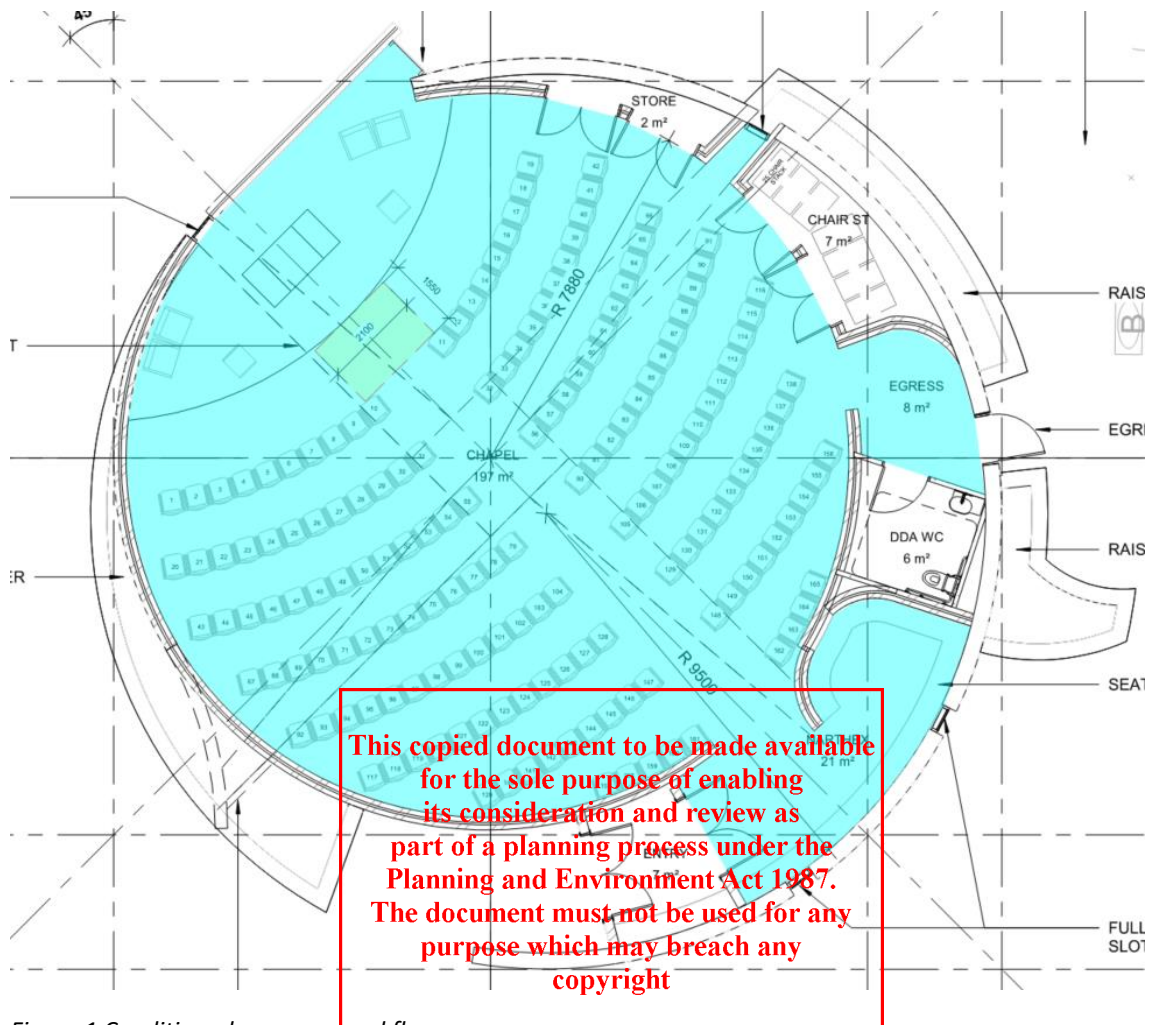


Figure 1 Conditioned space ground floor

DISCLAIMER

This assessment is only a review against the minimum regulatory energy efficiency requirements as stipulated in the Building Code of Australia. It has not taken into consideration any related design or construction criteria or considerations such as operational energy efficiency, capital costs, construction detailing, thermal comfort, condensation, mechanical services design, or acoustic performance.

USE OF THIS MEMORANDUM

The following notes apply in relation to the acceptable use of this document:

1. For the building permit submission, all thermal performance and construction details must be explicitly documented within the architectural documentation. It is not acceptable for the architectural drawings, schedules or specifications to include notes such as "refer to ESD/energy/Section J report" or similar.
2. This document is not to be used by contractors or suppliers for the purpose of tendering, quoting or pricing.

**ADVERTISED
PLAN**

SECTION J REQUIREMENTS

The following section relates to the NCC Section J assessment for the Class 9b part of the building results of the preliminary assessment are presented in Appendix-B.

PART J4 – BUILDING FABRIC

The following table provides a summary of the required construction detailing and minimum total thermal insulative requirements for the different façade elements within the building.

Table 1: Part J4 construction and insulation requirements.

ITEM	ELEMENT	NCC DEEMED-TO-SATISFY REQUIREMENTS
J4D3	Thermal Constructions	General Insulation: Must comply with AS/NZS 4859.1 and be installed so that it— (i) forms a continuous barrier with ceilings, walls, bulkheads, floors, slab-edges or the like that inherently contribute to the thermal barrier; and (ii) is continuous below and around box gutters, parapets and the like; and (iii) abuts or overlaps adjoining insulation other than at supporting members such as posts, beams, truss chords, rafters, studs, noggings, joists, turning channels, slab edges and the like where the insulation must be against the member; and (iv) does not affect the safe or effective operation of a service or fitting. Reflective Insulation: Must be installed with— (i) the necessary airspace to achieve the required R-Value between a reflective side of the reflective insulation and a building lining or cladding; and (ii) the reflective insulation closely fitted against any penetration, door or window opening; and (iii) the reflective insulation adequately supported by framing members; and (iv) each adjoining sheet of roll membrane being— (A) overlapped not less than 50 mm; or (B) taped together. Bulk Insulation: Must be installed so that— (i) it maintains its position and thickness, other than where it is compressed between cladding and supporting members, water pipes, electrical cabling or the like; and (ii) in a ceiling, where there is no bulk insulation or reflective insulation in the wall beneath, it overlaps the wall by not less than 50 mm.

ITEM	ELEMENT	NCC DEEMED-TO-SATISFY REQUIREMENTS
J4D4	Roofs	External Roofs: - Minimum added insulation R-Value R_M3.6. - External roof material solar absorptance must be ≤ 0.45.
J4D5	Roof Lights	Roof light: (i) a total area of not more than 5% of the floor area of the room or space served; and (ii) transparent and translucent elements, including any imperforate ceiling diffuser, with a combined performance of total U – Value (U_w) ≤ 3.9 and SHGC_w ≤ 0.51.
J4D6	Walls and Glazing	External Walls: - Minimum added insulation R-Value R_M2.5 to all constructed walls. - Insulation must extend from the floor up to the roof and make a continuous boundary with the roof insulation. Refer to insulation mark up at the end of this document for the thermal boundary. External Glazed Windows and Doors: All Windows and Sliding Doors: Total U-Value U_w ≤ 6.0 W/m² , SHGC_w ≤ 0.6
J4D7	Floor	Concrete Ground on Floor (CSOG) No insulation required.

Notes:

- **R_T** is the total R-value of the building element, including cladding, internal finishes, air gaps and air films.
- **R_M** means the R-value of the insulation.
- **U_w** is total U-value of the window element, including glazing and frame.
- **SHGC_w** is the total SHGC of the window element, including glazing and frame.

Refer to Appendix B for mark-ups showing the above details.

**ADVERTISED
PLAN**

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

PART J3 – BUILDING SEALING

The following table provides a summary of the design and construction provisions required to meet the BCA deemed-to-satisfy requirements for building sealing:

Table 2: Part J5 building sealing requirements

ITEM	ELEMENT	RETAIL – BCA DEEMED-TO-SATISFY REQUIREMENTS
J5D5	Windows and Doors	- Operable external windows and doors must be fitted with a seal. - Windows must comply with AS2047. - External doors that lead into air-conditioned spaces greater than 50 m² must be self-closing or have an air-lock.
J5D6	Exhaust Fans	Exhaust fans serving a conditioned or habitable space must be fitted with a self-closing damper.
J5D7	Roofs, Walls and Floors	Must be constructed to minimise air leakage, using internal lining systems that are close fitting or by using sealants, caulking, skirting, architraves and the like.

NEXT STEPS

The next steps in the design and documentation process are recommended as follows:

1. Review this advice carefully and ensure that all relevant parties understand the requirements and implications for the design and construction specifications.
2. Prepare the project's construction, insulation, window and glazing specifications in accordance with the thermal performance parameters noted in this advice. If you are unsure of specific details, we recommend that you liaise with your preferred insulation, window or glazing supplier to confirm compliant product specifications.

ADVERTISED PLAN

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

APPENDIX A – PART J1.5 GLAZING CALCULATIONS

The preliminary J4D6 calculations for the chapel spaces is presented below:

METHOD 1

FAÇADE	Façade U Value		Wall R Value		SA	
	U Value	Compliant?	R Value	Compliant?	SA	compliant?
North	0.80	Yes	1.81	Yes	0.03	Yes
East	1.34	Yes	1.88	Yes	0.09	Yes
South	1.43	Yes	1.89	Yes	0.10	Yes
West	0.85	Yes	1.81	Yes	0.03	Yes

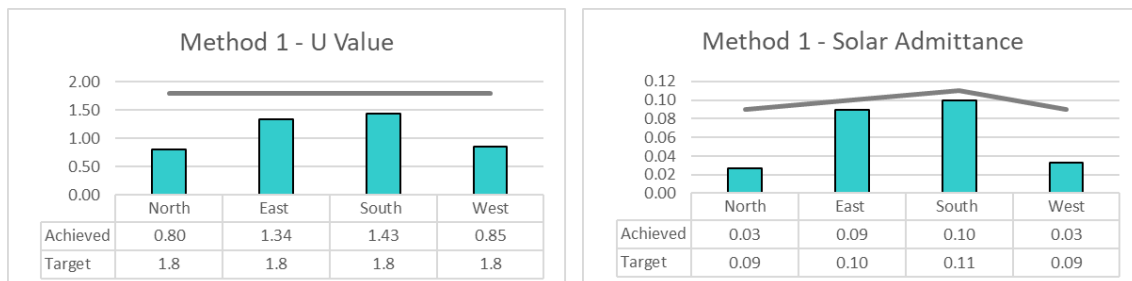


Figure 2 Method 2 results

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

**ADVERTISED
PLAN**

APPENDIX B – INSULATION MARK-UPS

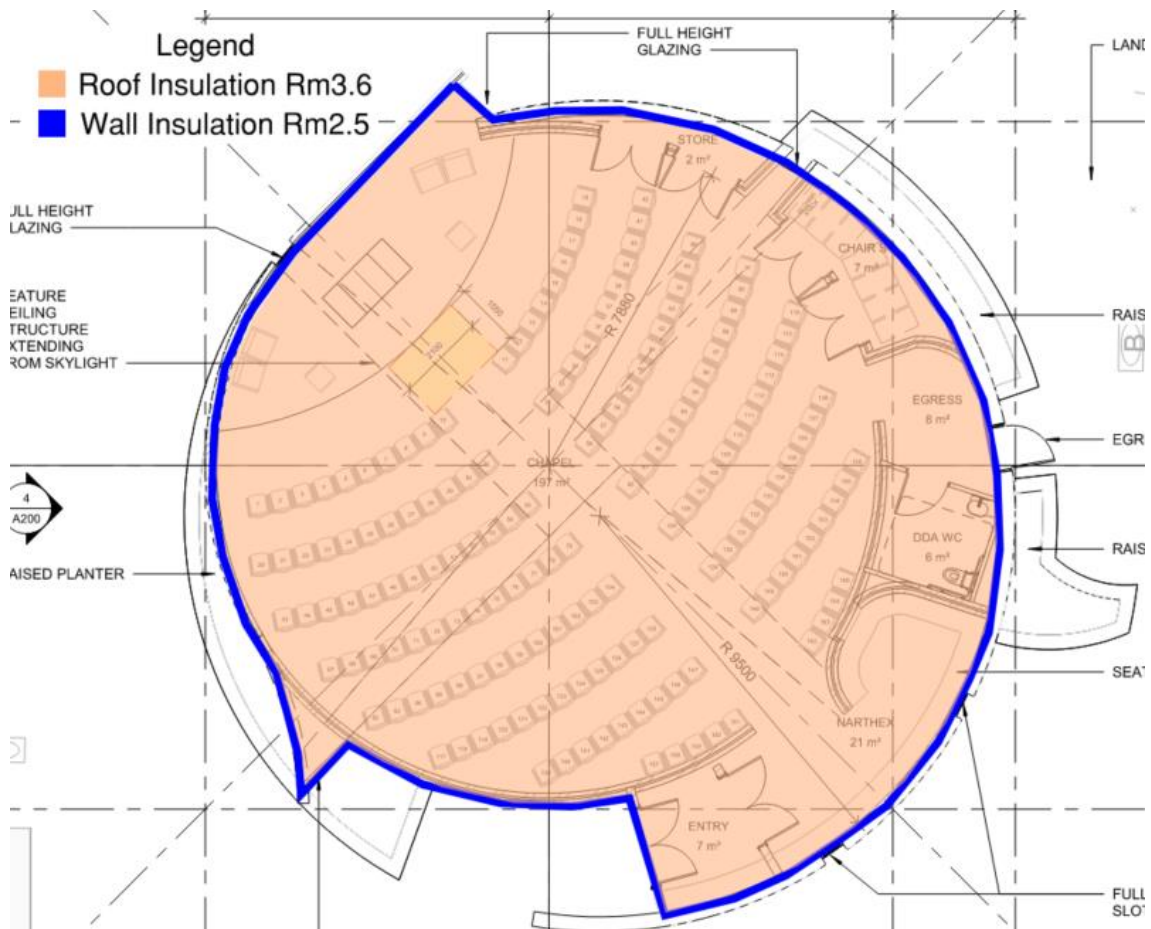


Figure 3 Insulation markups ground floor

ADVERTISED PLAN

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**

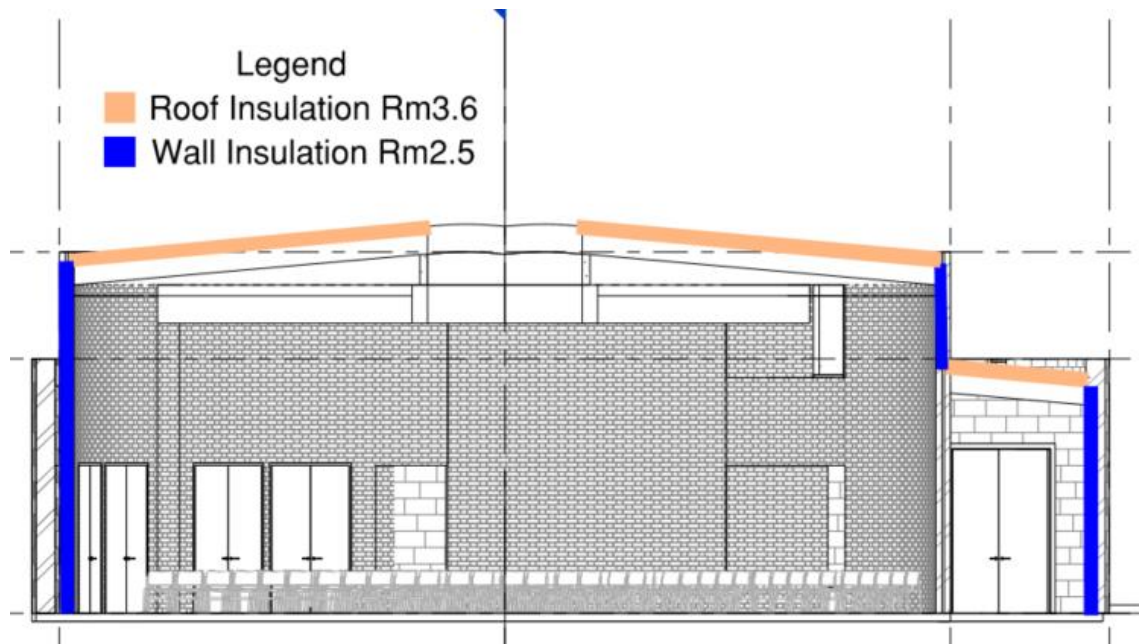


Figure 4 Insulation markups section view

ADVERTISED PLAN

— End of Design Memorandum —

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

APPENDIX E – BESS ASSESSMENT

Please refer to the BESS Report attached on the following pages.

**ADVERTISED
PLAN**

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**

BESS Buildings Report

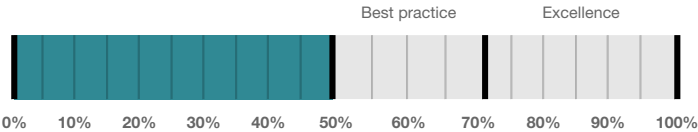
Built Environment Sustainability Scorecard



This BESS report outlines the sustainable design commitments of the proposed development at 196 Glengala Rd Sunshine West Victoria 3020. The BESS report and accompanying documents and evidence are submitted in response to the requirement for a Sustainable Design Assessment or Sustainability Management Plan at Brimbank City Council.

Note that where a Sustainability Management Plan is required, the BESS report must be accompanied by a report that further demonstrates the development's potential to achieve the relevant environmental performance outcomes and documents the means by which the performance outcomes can be achieved.

Your BESS Score



52%

Project details

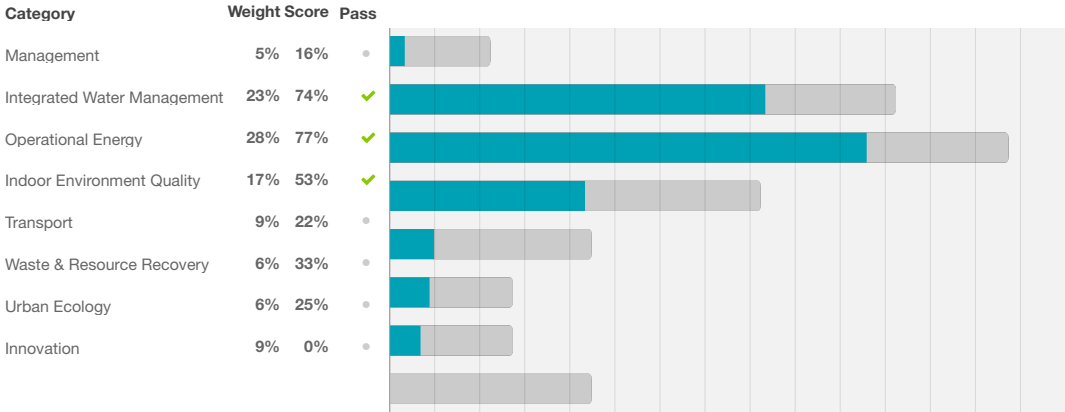
Name	196 Glengala Road Sunshine West - Marian College Chapel
Address	196 Glengala Rd Sunshine West Victoria 3020
Project ID	218319AC-R1
BESS Version	BESS-10
Date	02 June 2023
Software version	2.3.0-B.654
Site type	Non-residential development
Account	admin@wrapengineering.com.au
Application no.	
Site area	2,104 m ²
Building floor area	273 m ²

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright



Performance by category

● This project ● Maximum available



Buildings

Name	Height	Footprint	% of total footprint
Chapel	1	273 m²	100%

Dwellings & Non Res Spaces

Non-Res Spaces

Name	Quantity	Area	Building	% of total area
Public building				
Chapel	1	273 m²	Chapel	100%
Total	1	273 m²	100%	

Supporting Evidence

Shown on Floor Plans		This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	Response	Status
Credit	Requirement			
Integrated Water Management 2.1	Location of any stormwater management systems (rainwater tanks, raingardens, buffer strips)			-
Operational Energy 4.2	Location and size of solar photovoltaic system			-
Transport 1.4	Location of non-residential bicycle parking spaces			-
Waste & Resource Recovery 2.2	Location of recycling bins			-
Urban Ecology 2.1	Location and size of vegetated areas			-

Supporting Documentation

Credit	Requirement	Response	Status
Management 2.3a	Section J glazing assessment		-
Integrated Water Management 2.1	STORM report or MUSIC model		-
Operational Energy 1.1	Energy Report showing calculations of reference case and proposed buildings		-
Operational Energy 3.7	Average lighting power density and lighting type(s) to be used		-
Operational Energy 4.2	Specifications of the solar photovoltaic system(s)		-
Indoor Environment Quality 1.4	A short report detailing assumptions used and results achieved.		-

ADVERTISED
PLAN

Credit summary

Management Overall contribution 4.5%

		16%
1.1 Pre-Application Meeting		0%
2.3 Thermal Performance Modelling - Non-Residential		50%
3.2 Metering - Non-Residential		N/A ✦ Scoped Out
		N/A - Single tenancy
3.3 Metering - Common Areas		N/A ✦ Scoped Out
		N/A - No common area
4.1 Building Users Guide		0%

IWM Overall contribution 22.5%

		74%	✔ Pass
1.1 Potable Water Use		42%	✔ Achieved
2.1 Stormwater Treatment		100%	✔ Achieved
3.1 Water Efficient Landscaping		0%	
4.1 Building Systems Water Use		N/A	✦ Scoped Out
N/A - The proposed chapel building is less than 300 m ² and does not require a wet fire system. Only portable fire extinguishers are provided. No water-cooled chillers are proposed.			

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

ADVERTISED
PLAN

Operational Energy Overall contribution 27.5%

		Minimum required 50%	77%	✓ Pass
1.1 Thermal Performance Rating - Non-Residential			37%	
2.1 Greenhouse Gas Emissions			100%	
2.2 Peak Demand			100%	
2.6 Electrification			100%	
2.7 Energy consumption			100%	
3.1 Carpark Ventilation			N/A	✦ Scoped Out
				N/A
3.2 Hot Water - Non-Residential			100%	
3.7 Internal Lighting - Non-Residential			100%	
4.1 Combined Heat and Power (cogeneration / trigeneration)			N/A	✦ Scoped Out
				No cogeneration or trigeneration system in use.
4.2 Renewable Energy Systems - Solar			100%	
4.4 Renewable Energy Systems - Other			N/A	✦ Scoped Out
				No other (non-solar PV) renewable energy is in use.

IEQ Overall contribution 16.5%

		Minimum required 30%	53%	✓ Pass
1.4 Daylight Access - Non-Residential			86%	✓ Achieved
2.3 Ventilation - Non-Residential			50%	✓ Achieved
3.4 Thermal comfort - Shading - Non-Residential			0%	
3.5 Thermal Comfort - Ceiling Fans - Non-Residential			0%	
4.1 Air Quality - Non-Residential			100%	

Transport Overall contribution 9.0%

		22%
1.4 Bicycle Parking - Non-Residential		100%
1.5 Bicycle Parking - Non-Residential Visitor		0%
1.6 End of Trip Facilities - Non-Residential		0%
2.1 Electric Vehicle Infrastructure		0%
2.2 Car Share Scheme		0%
2.3 Motorbikes / Mopeds		0%

**ADVERTISED
PLAN**

Waste & Resource Recovery Overall contribution 5.5%

		33%
1.1 Construction Waste - Building Re-Use		0%
2.1 Operational Waste - Food & Garden Waste		0%
2.2 Operational Waste - Convenience of Recycling		100%

Urban Ecology Overall contribution 5.5%

		25%
1.1 Communal Spaces		0%
2.1 Vegetation		50%
2.2 Green Roofs		0%
2.3 Green Walls and Facades		0%
3.2 Food Production - Non-Residential		0%

Innovation Overall contribution 9.0%

		0%
1.1 Innovation		0%

ADVERTISED
PLAN

This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright

Credit breakdown

Management Overall contribution 4.5%

		16%
1.1 Pre-Application Meeting		0%
Score Contribution	This credit contributes 50% towards the category score.	
Criteria	Has an ESD professional been engaged to provide sustainability advice from schematic design to construction? AND Has the ESD professional been involved in a pre-application meeting with Council?	
Question	Criteria Achieved ?	
Project	No	
2.3 Thermal Performance Modelling - Non-Residential		50%
Score Contribution	This credit contributes 33.3% towards the category score.	
Criteria	Has a preliminary facade assessment been undertaken in accordance with NCC2022 Section J4D6?	
Question	Criteria Achieved ?	
Public building	Yes	
Criteria	Has a preliminary facade assessment been undertaken in accordance with either NCC2022 Section J4D6 or the Energy Efficiency (NBE) Act 1987?	
Question	Criteria Achieved ?	
Public building	Yes	
3.2 Metering - Non-Residential		N/A  Scoped Out
This credit was scoped out		N/A - Single tenancy
3.3 Metering - Common Areas		N/A  Scoped Out
This credit was scoped out		N/A - No common area
4.1 Building Users Guide		0%
Score Contribution	This credit contributes 16.7% towards the category score.	
Criteria	Will a building users guide be produced and issued to occupants?	
Question	Criteria Achieved ?	
Project	No	

ADVERTISED
PLAN

IWM Overall contribution 22.5%74% ✔ Pass

Do you have a reticulated third pipe or an on-site water recycling system?: No

Are you installing a swimming pool?: No

Stormwater profile

Which stormwater modelling software are you using?: MUSIC or other modelling software

Blue Factor score achieved?: 100

Flow: 5 %

Total Suspended Solids: 80 %

Total Phosphorus: 52 %

Total Nitrogen: 50 %

Fixtures, fittings & connections profile

Building: Chapel

Showerhead: Scope out

Bath: Scope out

Kitchen Taps: ✔ >= 5 Star WELS ratingBathroom Taps: ✔ >= 6 Star WELS rating

Dishwashers: Scope out

WC: ✔ >= 4 Star WELS rating

Urinals: Scope out

Washing Machine Water Efficiency: Scope out

Non-potable water source connected to Toilets: ✔

Non-potable water source connected to Laundry (washing machine): No

Non-potable water source connected to Hot Water System: No

This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright

1.1 Potable Water Use42% ✔ Achieved

Score Contribution This credit contributes 33.3% towards the category score.

Criteria What is the reduction in total potable water use due to efficient fixtures, appliances, rainwater use and recycled water use? To achieve points in this credit there must be >25% potable water reduction.

Output Reference

Project 468 kL

Output Proposed (excluding rainwater and recycled water use)

Project 343 kL

Output Proposed (including rainwater and recycled water use)

Project 343 kL

Output % Reduction in Potable Water Consumption

Project 26 %

2.1 Stormwater Treatment100% ✔ Achieved

Score Contribution		This credit contributes 60% towards the category score.	
Criteria		Has best practice stormwater management been demonstrated?	
Output		Flow	
Project		5 %	
Output		Min Suspended Solids reduction	
Project		80 %	
Output		Total Suspended Solids reduction	
Project		80 %	
Output		Min Phosphorus reduction	
Project		45 %	
Output		Total Phosphorus reduction	
Project		52 %	
Output		Min Nitrogen reduction	
Project		45 %	
Output		Total Nitrogen reduction	
Project		50 %	
3.1 Water Efficient Landscaping		0%	
Score Contribution		This credit contributes 6.7% towards the category score.	
Criteria		Low water consumption landscaping installed	
Question		Criteria Met/Yes/No	
Project		N/A	
4.1 Building Systems Water Use		N/A ✦ Scoped Out	
N/A - The proposed chapel building is less than 300 m² and does not require a wet fire system. Only portable fire extinguishers are provided. No water-cooled chillers are proposed.		This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	
This credit was scoped out		N/A - The proposed building is less than 300 m² and does not require a wet fire system. Only portable fire extinguishers are provided. No water-cooled chillers are proposed.	

ADVERTISED
PLAN

Operational Energy Overall contribution 27.5%

		Minimum required 50%	77%	✓ Pass
--	--	----------------------	-----	--------

Project profile	
Use the BESS Deem to Satisfy (DtS) method for Non-residential spaces?:	Yes
Are you installing any renewable energy system(s) (other than solar photovoltaic)?:	No
Energy Supply:	All-electric
Solar Photovoltaic system profile	
System Size (lesser of inverter and panel capacity): Solar Photovoltaic system 1	15.0 kW peak
Orientation (which way is the system facing)?: Solar Photovoltaic system 1	North
Inclination (angle from horizontal): Solar Photovoltaic system 1	10.0 Angle (degrees)
Non-residential Deemed-to-Satisfy profile	
Do all exposed floors and ceilings (forming part of the envelope) demonstrate a minimum 10% improvement in required NCC2022 insulation levels (total R-value upwards and downwards)?:	Yes
Does all wall and glazing demonstrate meeting the required NCC2022 facade calculator (or better than the total allowance)?:	Yes
Are heating and cooling systems within one Star of the most efficient equivalent capacity unit available, or Coefficient of Performance (CoP) & Energy Efficiency Ratios (EER) not less than 85% of the CoP & EER of the most efficient equivalent capacity unit available?:	Yes
Are water heating systems within one star of the best available, or 85% or better than the most efficient equivalent capacity unit?:	Yes
This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	
1.1 Thermal Performance Rating - Non-Residential	37%
Score Contribution	This credit contributes 36.4% towards the category score.
Criteria	What is the % reduction in heating and cooling energy consumption against the reference case (NCC2022 Section J)?
2.1 Greenhouse Gas Emissions	100%
Score Contribution	This credit contributes 9.1% towards the category score.
Criteria	What is the % reduction in annual greenhouse gas emissions against the benchmark?
2.2 Peak Demand	100%
Score Contribution	This credit contributes 4.5% towards the category score.
Criteria	What is the % reduction in the instantaneous (peak-hour) demand against the benchmark?
2.6 Electrification	100%

Score Contribution	This credit contributes 13.6% towards the category score.	
Criteria	Is the development all-electric?	
Question	Criteria Achieved?	
Project	Yes	
2.7 Energy consumption		100%
Score Contribution	This credit contributes 18.2% towards the category score.	
Criteria	What is the % reduction in annual energy consumption against the benchmark?	
3.1 Carpark Ventilation		N/A  Scoped Out
This credit was scoped out	N/A	
3.2 Hot Water - Non-Residential		100%
Score Contribution	This credit contributes 4.5% towards the category score.	
Criteria	What is the % reduction in annual energy consumption (gas and electricity) of the hot water system against the benchmark?	
3.7 Internal Lighting - Non-Residential		100%
Score Contribution	This credit contributes 9.1% towards the category score.	
Criteria	The building must be designed to be all electric and must be designed to be in at least 90% of the area of the building. The building must be designed to be in at least 90% of the area of the building. The building must be designed to be in at least 90% of the area of the building.	
Question	Criteria Achieved?	
Public building	No	
4.1 Combined Heat and Power (cogeneration / trigeneration)		N/A  Scoped Out
This credit was scoped out	No cogeneration or trigeneration system in use.	
4.2 Renewable Energy Systems - Solar		100%
Score Contribution	This credit contributes 4.5% towards the category score.	
Criteria	What % of the estimated energy consumption of the building class it supplies does the solar power system provide?	
Output	Solar Power - Energy Generation per year	
Public building	18,178 kWh	
Output	% of Building's Energy	
Public building	179 %	
4.4 Renewable Energy Systems - Other		N/A  Scoped Out
This credit was scoped out	No other (non-solar PV) renewable energy is in use.	

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

ADVERTISED PLAN

IEQ Overall contribution 16.5%

		Minimum required 50%	53%	✓ Pass
--	--	----------------------	-----	--------

1.4 Daylight Access - Non-Residential			86%	✓ Achieved
Score Contribution	This credit contributes 35.3% towards the category score.			
Criteria	What % of the nominated floor area has at least 2% daylight factor?			
Question	Percentage Achieved?			
Public building	86 %			
2.3 Ventilation - Non-Residential			50%	✓ Achieved
Score Contribution	This credit contributes 35.3% towards the category score.			
Criteria	What % of the regular use areas are effectively naturally ventilated?			
Question	Percentage Achieved?			
Public building	100 %			
Criteria	What increase in outdoor air is available to regular use areas compared to the minimum required by AS 1668.2:2012?			
Question	Percentage Achieved?			
Public building	0 %			
Criteria	What percentage of regular use areas have the systems designed to achieve, to monitor and maintain the indoor air quality?			
Question	Percentage Achieved?			
Public building	0 %			
3.4 Thermal comfort - Shading - Non-Residential			0%	
Score Contribution	This credit contributes 17.6% towards the category score.			
Criteria	What percentage of east, north and west glazing to regular use areas is effectively shaded?			
Question	Percentage Achieved?			
Public building	0 %			
3.5 Thermal Comfort - Ceiling Fans - Non-Residential			0%	
Score Contribution	This credit contributes 5.9% towards the category score.			
Criteria	What percentage of regular use areas in tenancies have ceiling fans?			
Question	Percentage Achieved?			
Public building	-			
4.1 Air Quality - Non-Residential			100%	
Score Contribution	This credit contributes 5.9% towards the category score.			

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

Criteria	Do all paints, sealants and adhesives meet the maximum total indoor pollutant emission limits?
Question	Criteria Achieved ?
Public building	Yes
Criteria	Does all carpet meet the maximum total indoor pollutant emission limits?
Question	Criteria Achieved ?
Public building	Yes
Criteria	Does all engineered wood meet the maximum total indoor pollutant emission limits?
Question	Criteria Achieved ?
Public building	Yes

ADVERTISED PLAN

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**

Transport Overall contribution 9.0%

		22%
--	--	-----

1.4 Bicycle Parking - Non-Residential		100%
--	--	------

Score Contribution	This credit contributes 22.2% towards the category score.
Criteria	Have the planning scheme requirements for employee bicycle parking been exceeded by at least 50% (or a minimum of 2 where there is no planning scheme requirement)?
Question	Criteria Achieved ?
Public building	Yes
Question	Bicycle Spaces Provided ?
Public building	1

1.5 Bicycle Parking - Non-Residential Visitor		0%
--	--	----

Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Have the planning scheme requirements for visitor bicycle parking been exceeded by at least 50% (or a minimum of 1 where there is no planning scheme requirement)?
Question	Criteria Achieved ?
Public building	No
Question	Bicycle Spaces Provided ?
Public building	0

1.6 End of Trip Facilities - Non-Residential		0%
---	--	----

Score Contribution	This credit contributes 22.2% towards the category score.
Criteria	Have adequate bicycle parking been provided. Is there also: * 1 shower for the first 5 employee bicycle spaces plus 1 to each 10 employee bicycle spaces thereafter, changing facilities adjacent to showers; and * one secure locker per employee bicycle space in the vicinity of the changing / shower facilities?
Question	Number of showers provided ?
Public building	0
Question	Number of lockers provided ?
Public building	0
Output	Min Showers Required
Public building	1
Output	Min Lockers Required
Public building	1

2.1 Electric Vehicle Infrastructure		0%
--	--	----

Score Contribution	This credit contributes 22.2% towards the category score.
Criteria	Are facilities provided for the charging of electric vehicles?
Question	Criteria Achieved ?
Project	No

2.2 Car Share Scheme		0%
-----------------------------	--	----

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright.

Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Has a formal car sharing scheme been integrated into the development?
Question	Criteria Achieved ?
Project	No
2.3 Motorbikes / Mopeds	0%
Score Contribution	This credit contributes 22.2% towards the category score.
Criteria	Are a minimum of 5% of vehicle parking spaces designed and labelled for motorbikes (must be at least 5 motorbike spaces)?
Question	Criteria Achieved ?
Project	No

Waste & Resource Recovery Overall contribution 5.5%

	33%
--	-----

1.1 Construction Waste - Building Re-Use	0%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	If the development is on a site that has been previously developed, has at least 30% of the existing building been re-used?
Question	Criteria Achieved ?
Project	No
2.1 Operational Waste - Food & Garden Waste	0%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	Are facilities provided for on-site management of food and garden waste?
Question	Criteria Achieved ?
Project	No
2.2 Operational Waste - Convenience of Recycling	100%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	Are the recycling facilities at least as convenient for occupants as facilities for general waste?
Question	Criteria Achieved ?
Project	Yes

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

ADVERTISED PLAN

Urban Ecology Overall contribution 5.5%

		25%
1.1 Communal Spaces		0%
Score Contribution	This credit contributes 12.5% towards the category score.	
Criteria	Is there at least the following amount of common space measured in square meters : * 1m ² for each of the first 50 occupants * Additional 0.5m ² for each occupant between 51 and 250 * Additional 0.25m ² for each occupant above 251?	
Question	Common space provided	
Public building	0.0 m ²	
Output	Minimum Common Space Required	
Public building	27 m ²	
2.1 Vegetation		50%
Score Contribution	This credit contributes 50% towards the category score.	
Criteria	How much of the site is covered with vegetation, expressed as a percentage of the total site area?	
Question	Percentage Achieved ?	
Project	10 %	
2.2 Green Roofs		0%
Score Contribution	This credit contributes 12.5% towards the category score.	
Criteria	Does the development incorporate a green roof?	
Question	Percentage Achieved ?	
Project	No	
2.3 Green Walls and Facades		0%
Score Contribution	This credit contributes 12.5% towards the category score.	
Criteria	Does the development incorporate a green wall or green façade?	
Question	Criteria Achieved ?	
Project	No	
3.2 Food Production - Non-Residential		0%
Score Contribution	This credit contributes 12.5% towards the category score.	
Criteria	What area of space per occupant is dedicated to food production?	
Question	Food Production Area	
Public building	-	
Output	Min Food Production Area	
Public building	7 m ²	

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

ADVERTISED PLAN

Innovation Overall contribution 9.0%

		0%
1.1 Innovation		0%
Score Contribution	This credit contributes 100% towards the category score.	
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?	

Disclaimer

The Built Environment Sustainability Scorecard (BESS) has been provided for the purpose of information and communication. While we make every effort to ensure that material is accurate and up to date (except where denoted as 'archival'), this material does in no way constitute the provision of professional or specific advice. You should seek appropriate, independent, professional advice before acting on any of the areas covered by BESS.

The Municipal Association of Victoria (MAV) and CASBE (Council Alliance for a Sustainable Built Environment) member councils do not guarantee, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of BESS, any material contained on this website or any linked sites

ADVERTISED
PLAN

**This copied document to be made available
for the sole purpose of enabling
its consideration and review as
part of a planning process under the
Planning and Environment Act 1987.
The document must not be used for any
purpose which may breach any
copyright**