# SUSTAINABLE MANAGEMENT PLAN



PROPOSED MIXED-USE DEVELOPMENT

1-7 Waterfront Place, Port Melbourne

> GIW24041 Revision C

Prepared for: GFM Group Pty Ltd (ACN 675 440 730) in its capacity as trustee of the GFM BTS Trust Subtrust No. 4 (ABN 12 757 352 180)

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### Revision History

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# Contents

L	imitations	1
(	Copyright	1
F	Revision History	1
Со	ntents	2
1.	Introduction	3
F	Project Information	3
Ċ	Statutory Requirements	4
E	Built Environment Sustainability Scorecard (BESS)	4
F	Responsibilities & Implementation	5
Ç	Sources of Information	5
2.	ESD Summary	6
3.	BESS Performance	7
4.	ESD Assessment	8
١	Aanagement	8
١	Vater	9
E	Energy	.11
Ç	Stormwater	.16
I	ndoor Environment Quality	17
٦	ransport	20
Ν	Aaterials	.23
١	Vaste Management	24
ι	Jrban Ecology	26
I	nnovation	29
App	pendices	.30
A	Appendix A: WSUD Response	.30
A	Appendix B: Preliminary FirstRate Certificates	.36
A	Appendix C: Preliminary J4D6 Façade Calculator	37
A	Appendix D: Renewable Energy	.38
A	Appendix E: Daylight Modelling	.39
A	Appendix F: BESS Assessment	. 50



#### 1. Introduction

### **Project Information**

GIW Environmental Solutions Pty Ltd ("GIW") has been engaged by GFM Group Pty Ltd (ACN 675 440 730) in its capacity as trustee of the GFM BTS Trust Subtrust No. 4 (ABN 12 757 352 180) to provide Environmentally Sustainable Design (ESD) consulting services for the proposed mixed-use development at 1-7 Waterfront Place, Port Melbourne.

The proposed development will include 84 apartments, 2 retail tenancies, communal areas constructed over ground plus 9 levels and basement carpark, and will consist of the following:

- 5 x 1-bedroom apartments
- 24 x 2-bedroom apartments
- 46 x 3-bedroom apartments
- 9 x 4-bedroom apartments / loft
- 593m<sup>2</sup> retail

The site located at 1-7 Waterfront Place, Port Melbourne has an approximate surface area of 5,487m<sup>2</sup> and is currently the location of a 2-storey building. Distance from the site to Melbourne CBD is approximately 4km.



Figure 1 - Pre-existing sites at 1-7 Waterfront Place, Port Melbourne.



## Statutory Requirements

This Sustainable Management Plan (SMP) has been prepared to assess the proposed development's sustainability credentials and performance targets in accordance with City of Port Phillip Planning Scheme - Clause 15.01-2L-02 Environmentally Sustainable Development, which states:

Development Type	Application Requirement	Example Tools
Development of 10 or more	Sustainability Management Plan (SMP)	BESS
dwellings.		Green Star
		MUSIC
		STORM

Further to the above, this SMP also responds to Victoria Planning Provisions VC216 - Clause 15.01-2S.

### Built Environment Sustainability Scorecard (BESS)

The proposed mixed-use development has been assessed against the Built Environment Sustainability Scorecard (BESS) guidelines. The BESS tool addresses nine key environmental categories as follows:



Figure 2 - BESS Environmental Categories (www.bess.net.au)

All ESD measures described under the nine key environmental categories are proposed to be suitably incorporated into relevant project documentation at the appropriate project phase.



### Responsibilities & Implementation

GFM Group Pty Ltd (ACN 675 440 730) in its capacity as trustee of the GFM BTS Trust Subtrust No. 4 (ABN 12 757 352 180) will be responsible for the suitable implementation of the requirements of this report throughout the design and development phases. Should the development be sold the responsibility will pass to the new owner. At such time as a builder is novated or a building contract is put in place the builder will be responsible for implementation during the construction phase. At occupancy, the Owners Corporation and individual lot owners and or tenants will be responsible for the correct use of installed equipment and building systems in line with the provided Building User's Guide.

### Sources of Information

The following 'Sources of Information' have been used to guide the design solutions:

- Woods Bagot Project No. 131042 Planning Drawings Rev A (dated: 17/01/2025).
- Woods Bagot Project No. 131042 Urban Context Report Rev A (dated: 17/01/2025)
- Municipal Association of Victoria SDAPP Explained; Building Design for a Sustainable Future
- Built Environment Sustainability Scorecard (BESS)
- CSIRO 1999, Urban Stormwater Best Practise Environmental Management Guidelines



# 2. ESD Summary

The proposed mixed-use development at 1-7 Waterfront Place, Port Melbourne will implement the following ESD initiatives:

- 1. The project achieves a total BESS score of 70% with no mandatory category (IEQ, Energy, Water, Stormwater) below 50%.
- 2. 70% (59 out of 87) of the development's apartments are naturally cross-ventilated.
- 3. Daylight modelling has been conducted for a representative sample of apartments. The summary result is as follows:
  - 90% of living floor area achieves >90% above DF 1
  - 86% of bedroom floor area achieves >90% above DF0.5
- 4. The retail areas are targeting a 2% DF to 60% of the nominated area.
- 5. 52% (44 out of 84) of apartments achieve at least 3 hours of sunlight.
- 6. The development is provided with a comprehensive shading strategy.
- 7. The development is to achieve a 7.0 Star average NatHERS Energy Rating result.
- 8. The non-residential areas aim to reduce heating and cooling energy consumption below the reference case (BCA Section J 2022).
- 9. The development is to utilise a heat pump hot water system.
- 10. A 30kW Solar PV system is to be located on the roof of the proposed development.
- 11. Individual cold water and electricity meters will be provided to the apartments, commercial tenancies and communal areas.
- 12. Water efficient fittings and fixtures are applied throughout.
- 13. A 25,000-litre rainwater tank will harvest rainwater from all roof areas. This tank will be connected to all retail WC's, pool backwash and makeup. A 35,000-litre rainwater tank will harvest rainwater from all terraces and will be connected to landscape irrigation.
- 14. The landscaping is to be a combination of native vegetation with no irrigation demand after the initial establishment period or where landscape irrigation is required, the irrigation system will be connected to rainwater tank.
- 15. In total 84 bicycle spaces are to be provided for residents.
- 16. In total 17 bicycle spaces are to be provided for residential visitors.
- 17. In total 6 bicycle spaces are to be provided for employees & 2 bicycle spaces are to be provided for non-residential visitors.
- 18. 1,068m2 of communal space will be provided at ground and level 1.
- 19. The communal food production area will be provided at ground floor public realm.



#### **BESS** Performance 3.

The project achieves a total BESS score of 70% with no mandatory category (IEQ, Energy, Water, Stormwater) below 50%. This figure represents a percentage improvement over a benchmark project. A score of 50% and higher equates to 'best practice' and is an effective pass of the BESS tool. A score of 70% and higher equates to BESS 'excellence' and exists as a higher benchmark in the tool.





#### 4. **ESD** Assessment

### Management

Council ESD objectives:

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

Criteria		Construction and Building Management Actions		
Pre- Application Meeting	To ensure appropriate sustainable design principles and strategies are considered from the preliminary design stage of each development.	GIW has been involved in a pre-application meeting with Council on 08/01/2025.		
Metering	To provide building users	Electricity, and cold water metering is to be provided to each individual apartment and retail/civic tenancy.		
	with information that allows monitoring of energy and water consumption	Lighting and general power to common areas is to be separately metered to quantify energy used for common areas spaces.		
		Additionally, the main electrical switchboard to contain at least two empty three-phase circuit breaker slots and four DIN rail spaces labelled to indicate the use of each space for a battery system.		
	To encourage and	A Building User's Guide will be provided to all occupants explaining the correct use of installed equipment and building systems. This shall cover at a minimum:		
Building User's Guide	recognise initiatives that will help building users to use the building more efficiently.	<ul> <li>Energy and Environmental Strategy</li> <li>Monitoring and Targeting</li> <li>Building Services</li> <li>Transport Facilities</li> <li>Materials and Waste Policy</li> <li>Expansion/Re-fit Considerations</li> <li>References and Further Information</li> </ul>		



### Water

Council ESD 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 minimize associated water costs

Criteria		Development Provision					
		WELS 4 Star - Toilets	WELS 6 Star - Taps	WELS 4 Star - Showerhead	WELS 5 Star - Dishwasher		
Potable Water Reduction	To reduce total potable water use due through the use of	<text><text><text><text><text></text></text></text></text></text>	The more water efficient water efficient water efficient water efficient water and in the second sec	<text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>			
Rainwater Collection & Reuse	efficient fixtures, appliances, and the use of rainwater.	A 25,000-litre rainwater tank will harvest rainwater from all roof areas. This tank will be connected to all retail WC's, pool backwash and makeup. A 35,000-litre rainwater tank will harvest rainwater from all terraces and will be connected to landscape irrigation. It is estimated that combined this will save more than 489kL of potable water every year and meet 76.9% of the demand in these areas.					
		hydraulics services engineer at the design development phase.					
		Refer Appendix A – WSUD Response					
Landscape Irrigation	To ensure the efficient use of water and to reduce total operating potable water use through encouraging water efficient landscape design.	The landscaping no irrigation den where landscape be connected to	g is to be a combi nand after the ini e irrigation is requ rainwater tank.	nation of native tial establishmer uired, the irrigatio	vegetation with It period or on system will		



Criteria		Development Provision
Building System Water Use Reduction	Ensure the efficient use of water, to reduce total operating potable water use and to encourage the appropriate use of alternative water sources for cooling and fire testing systems.	<ul> <li>&gt;80% of fire test water (e.g. hydrant pump test water or SCV annubar test) is to be reused on site.</li> <li>The proposed development is to incorporate air-cooled HVAC systems for both the residential and non-residential areas within the development.</li> </ul>



# Energy

Council ESD objectives:

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

Criteria	Development P			on			
		The National Construction Code (NCC) Class 2 – Sole Occupancy Unit(s) residential building component is to be designed in accordance with NCC Section J (2022) NatHERS requirements. The residential units are targeting to achieve an average 7.0 Star rating, with no unit achieving below 6.0 Stars.					
To redu needed Thermal achieve Performance comfort Rating - summe Residential winter - improvi comfort greenhc amingio		Further to th following hea	is the c ting and	levelopment cooling load	will neec I limits:	to compl	y with the
		Climate Zone		Heating load limits (MJ/m2)		Cooling load limits (MJ/m2)	
		21 Melbourn	ne RO	Average: 48 Maximum: 58	A 5 N	verage: 32 1aximum: 3	80 (BADS)
	To reduce energy needed to achieve thermal comfort in summer and winter - improving comfort, reducing greenhouse gas emissions	The apartment below sample achieve these FirstRate Cert	nts are o e ratings e requir tificates	currently ach s demonstra ements. Refe	ieving a t te the de er Appen	7.3 Star av velopment dix B for F	erage. The s ability to Preliminary
		Apartment No.	ACE Total MJ/M	ACE Heating 2	ACE Cooling	ACE NCFA	Star Rating
	energy	00.2M1	59.7	53.2	6.5	104.2	7.1
	consumption, and maintenance	01.3F	63.1	51.5	11.6	231.4	6.9
	costs.	02.3U	39.7	23.3	16.4	138.6	8.2
		02.3B	27.2	19.9	7.3	141.6	8.9
		03.3J	63	52.3	10.7	156.5	6.9
		04.3K	69.8	41.5	28.3	155.9	6.6
		04.3N	70.9	49.6	21.3	135.5	6.5
		04.3X	41.9	28.8	13.1	147.3	8.1



Criteria	Development Provision					
	05.2H	54.7	33.7	21	110.5	7.4
	06.30	56.8	32.9	23.9	184.4	7.3
	06.2B	57.1	43.3	13.8	114.5	7.2
	07.3Z	66.3	54.8	11.5	128.3	6.8
	08.4F	46.1	22.7	23.4	218.3	7.9
	09.3S	70.8	52.1	18.7	206.6	6.5
	Average	56.2	40.0	16.3	155.3	7.3

\*Apartments are assessed using FirstRate5 v5.5.5a

Construction assumptions for preliminary FirstRate ratings are listed below. Note, these assumptions are based on the sample of apartments assessed and may vary throughout the development. These assumptions are not to be relied upon for any other purpose beyond Town Planning assessment.

Element	Material	Insulation Value
Floor	Concrete	R3.2
External Walls	Concrete	R2.5
	Spandrel	R2.5
Internal Walls	Concrete	R1.8
	Plasterboard	R2.5
Where exposed above	Concrete	R2.75
Roof & Large Terraces	Concrete	R4.6 (applied above the slab)
Fixed Windows (L1-2)	Aluminium Framed, Double Glazed, Argon Filled, Low-E, Clear	Total System: - U-Value: 2.71 - SHGC: 0.58
Sliding Doors (L1- 2)	Aluminium Framed, Double Glazed, Argon Filled, Low-E, Clear	Total System: - U-Value: 3.19 - SHGC: 0.48
Awning Windows (L1-2)	Aluminium Framed, Double Glazed, Argon Filled, Low-E,	Total System: - U-Value: 4.42



Criteria		Development Provision			
			Clear	- SHGC: 0.41	
		Fixed Windows (L3-9)	Aluminium Framed, Double Glazed, Argon Filled, Spectrally Selective	Total System: - U-Value: 2.69 - SHGC: 0.40	
		Sliding Doors/ Windows (L3-9)	Aluminium Framed, Double Glazed, Argon Filled, Spectrally Selective	Total System: - U-Value: 2.83 - SHGC: 0.39	
		Awning Windows (L3-9)	Aluminium Framed, Double Glazed, Argon Filled, Spectrally Selective	Total System: - U-Value: 3.35 - SHGC: 0.37	
Thermal Performance Rating – Non- Residential	To reduce energy needed to achieve thermal comfort in summer and winter - improving comfort, reducing greenhouse gas emissions, energy consumption, and maintenance costs.	The non-residential areas aim to reduce heating and cooling energy consumption below the reference case (BCA Section J 2022). Refer Appendix C – Preliminary J4D6 Façade Calculator.			
Electrification	To support the transition to renewable energy sources.	The development will	be all-electric with no	gas connection.	
HVAC System	To ensure the efficient use of energy and to reduce consumption of	Inverter split systems conditions of the habi efficiency of the air co rating of best availabl measurement standa	are to be installed and table rooms of each a onditioning system is t e under MEPS Post-Oc rd.	d sized to maintain partment. The o be within 1 star ctober 2012	
	electricity.	non-residential areas.			
Hot Water	To ensure the	The development is to utilise a heat pump hot water system.			



Criteria		Development Provision
System	efficient use of energy and to reduce consumption and greenhouse emissions from water heating.	
Car Park Ventilation	To ensure the efficient use of energy, reduce total operating greenhouse gas emissions and to reduce energy peak demand.	Carpark ventilation fans are driven by a VSD motor connected to CO sensors within the carpark. The inclusion of CO sensor control will allow the ventilation fans to ramp down when the car park is unoccupied. The system is to be designed in accordance with AS1668.2. The mechanical services engineer is responsible for the design and specification of the system. The contractor is to procure and install the specified system. Maintenance requirements of the CO sensor system are to be included in the O&M manual.
Clothes Drying	Ensure the efficient use of energy and to reduce energy consumption and greenhouse emissions associated with clothes drying	NIL
Internal Lighting - Residential	To ensure the efficient use of energy, to reduce energy consumption, greenhouse emissions associated with artificial lighting, and to reduce energy peak demand.	<ul> <li>The maximum illumination power density (W/sqm) is at least 20% lower than NCC 2022 requirements.</li> <li>Lighting power density shall be as follows: <ul> <li>Dwellings: No greater than average 4W/m<sup>2</sup></li> <li>POS: No greater than average 4W/m<sup>2</sup></li> <li>Back of house and indoor car parks: No greater than average 5W/m<sup>2</sup></li> </ul> </li> <li>All common area, external and carpark lighting is to be controlled with daylight, motion sensors or timers (whichever is deemed appropriate).</li> </ul>
Internal	To ensure the	The maximum illumination power density (W/m2) in the non-



Criteria		Development Provision	
Lighting – Non- Residential	efficient use of energy, to reduce	residential areas meets the requirements of Table J7D3a of the NCC 2022 Section J.	
	consumption,	Lighting power density shall be as follows:	
	greenhouse emissions associated with artificial lighting, and to reduce energy peak demand.	• Retail: No greater than average 14W/m <sup>2</sup>	
		A 30kW Solar PV system is to be located on the roof of the proposed development. The system is expected to generate approximately 40,204kWh and will contribute towards the common area lighting and power.	
Renewable Energy Systems - Solar	To encourage on- site renewable energy generation and reduce greenhouse emissions.		
		Location Solar PV System	
		Refer Appendix D – Renewable Energy	



## Stormwater

Council ESD 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

Criteria		Development Provision
Stormwater Treatment Treatment Treuse of stormwate runoff and maximise of stormwate	To minimise negative environmental	The eWater – Model for Urban Stormwater Improvement Conceptualisation (MUSIC) tool has been applied to determine performance relative to Best Practice Environmental Management Guidelines (Victoria Stormwater Committee, 1999). As per City of Hume Planning Scheme - Clause 53.18 Stormwater Management in Urban Development, the development is required to achieve a compliant MUSIC.
	Impacts of stormwater runoff and maximise onsite re-use of stormwater.	<ul> <li>Rainwater collection off all roof areas is to be directed to a 25,000 litre tank connected to all retail WC's, pool backwash and makeup.</li> <li>Rainwater collection off all terraces is to be directed to a 35,000 litre tank connected to landscape irrigation.</li> <li>Prior to the LPOD an Atlan EcoCepter followed by Atlan FlowFilter will need to be installed to filter the rainwater before entering the stormwater system.</li> </ul>
		Refer Appendix A – WSUD Response.



# Indoor Environment Quality

Council ESD 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.

Criteria		Development Provision	
Daylight Access -	To provide a high level of amenity and energy efficiency	Daylight modelling has been conducted for a representative sample of apartments. The summary result is as follows:	
		% of living floor area above DF 1.0	% of bedroom floor area above DF 0.5
Residential	through design	90	86
	for natural light.	Refer Appendix E - Daylight Mod	delling.
Winter Sunlight	To provide a high level of amenity and reduce need for artificial heating in winter.	52% (44 out of 84) of apartme sunlight.	ents achieve at least 3 hours of
Daylight Access – Non- Residential	To provide a high level of amenity and energy efficiency through design for natural light.	The retail areas are targeting a 2 area.	2% DF to 60% of the nominated
Minimal Internal Bedrooms	90% of bedrooms have an external window.	NIL internal bedrooms.	
Effective Natural Ventilation	To provide fresh air and passive cooling opportunities.	70% (59 out of 87) of the develo naturally cross-ventilated. Apart windows on opposite or adjaced sided ventilated.	opment's apartments are tments are provided with nt facades or are effective single



Criteria		Development Provision
	To provide freeb	Outdoor air rate for the commercial areas is to be 50% increased
Ventilation – Non-	air and passive	compared to AS 1668:2012.
Residential cooling cooling opportunities.	This is to be included in the mechanical design and specifications.	
Thermal Comfort	To provide comfortable indoor spaces and reduce energy needed for heating and cooling.	<text><text><text><text></text></text></text></text>
Thermal Comfort – Non- Residential	To provide comfortable indoor spaces and reduce energy needed for heating and cooling.	The development is provided with a comprehensive shading strategy:



Criteria		Development Provision
		None of the regular use areas of the commercial areas are provided with ceiling fans.
Air Quality – Non- Residential	All paints and adhesives meet the maximum total indoor pollutant emission limits.	All internally applied paints adhesives and sealants are to have a low or ultra-low VOC content in line with Green Star Buildings V1 Credit 13.
	All carpet meets the maximum total indoor pollutant emission limits.	All internally applied carpets are to have a low VOC content in line with Green Star Buildings V1 Credit 13.
	All engineered wood meets the maximum total indoor pollutant emission limits.	All internally applied engineered wood products are to have low formaldehyde levels in line with Green Star Buildings V1 Credit 13.



# Transport

Council ESD objectives:

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

### **Council Best Practice Standard**

<b>•</b> • •	
Crit	eria
0	0110

#### Development Provision

Bicycle Parking<br/>- Residential &To encourage<br/>and recognise<br/>initiatives that<br/>facilitate cycling.



In total 84 bicycle spaces are to be provided for residents. This will provide a ratio of approximately 1 resident bicycle space for every apartment.



In total 17 bicycle spaces are to be provided for residential visitors. This will provide a ratio of approximately 1 visitor bicycle space for every 5 apartments.

Bicycle Parking – Non-Residential & Non-Residential Residential Visitors To encourage and recognise initiatives that facilitate cycling.



In total 6 bicycle spaces are to be provided for employees. This represents a 50% increase over the planning scheme requirements.



In total 2 bicycle spaces are to be provided for nonresidential visitors. This represents a 50% increase over the planning scheme requirements.

End of Trip To minimise car NIL



Criteria Development Provision	
Facilities -dependency andNon-to ensure that theResidentialbuilt environmentis designed topromote the useof publictransport,walking andcycling.	

One charging point for electrical vehicles is integrated in the proposed development.



	To minimise car dependency and to ensure that the	Location of electric charging point.
Electric Vehicle Infrastructure	built environment is designed to promote the use of public	<ul> <li>Future infrastructure for electrical charging points is incorporated in the services design including dedicated electrical distribution boards (DB-EV) for EV charging on every floor of the parking lot per NCC 2022 Table J9D4.</li> <li>Each DB-EV must be fitted with a charging control system with the ability to manage and schedule charging of electric vehicles in response to total building demand.</li> </ul>
	transport, walking and cycling.	
		When associated with a Class 2 building, have capacity for each circuit to support an electric vehicle charger able to deliver a minimum of 12 kWh from 11:00 pm to 7:00 am daily.
		Class 5 to 9 building, have capacity for each circuit to support an electric vehicle charger able to deliver a minimum of 12 kWh from 9:00 am to 5:00 pm daily.
		Additionally, each DB-EV must be sized to support the future installation of a 7 kW (32 A) type 2 electric vehicle charger in 100% of the car parking spaces associated with a Class 2 building.



Criteria		Development Provision
		20% of car parking spaces associated with a Class 3, 7b, 8 or 9 building.
Car Share Scheme	To minimise car dependency and to ensure that the built environment is designed to promote the use of public transport, walking and cycling.	NIL
Motorbikes / Mopeds	To minimise car dependency and to ensure that the built environment is designed to promote the use of public transport, walking and cycling.	The proposed development will incorporate min. 6 motorbike / moped spaces in the basement carpark.



# Materials

ESD objectives:

- Use of low embodied energy materials.
- Encourage use of recycled and reusable materials in building construction and undertake adaptive reuse of buildings, where practical.

Criteria		Development Provision
Embodied Energy	Limited use of high embodied energy metals and materials, especially in a design with intended high churn (e.g. retail)	The design will seek to limit the use of high embodied energy metal finishes. At least 40% of coarse aggregate in the concrete is crushed slag aggregate or other alternative materials (measured by mass across all concrete mixes in the project).
Structural and Reinforcing Steel	Commitment to source structural and reinforcing steel from a responsible steel maker	<ul> <li>The building's steel (by mass) is to be sourced from a Responsible Steel Maker with:</li> <li>a currently valid and certified ISO 14001 Environmental Management System (EMS) in place; and</li> <li>is a member of the World Steel Association's (WSA) Climate Action Programme (CAP)</li> </ul>
Sustainable Timber	Commitment to source timber from sustainably managed source, with proof of audit trail.	Where timber is to be used, such timbers are to accord with the GBCA's 'Essential' criteria for forest certification. This may include FSC and / or PEFC Certification which are both internationally recognised schemes ensuring that timber is sourced from sustainable sources. Alternatively, recycled timber will be used.
PVC	Commitment to source best practice PVC products	<ul> <li>Permanent formwork, pipes, flooring, blinds and cables in the project will seek to comply with the following:</li> <li>Meet the GBCA's Best Practice Guidelines for PVC. or;</li> <li>The supplier holds a valid ISO140001 certification.</li> </ul>
Sustainable Products	Commitment to source products that meet the transparency and sustainability requirements	The project will incorporate products that meet the transparency and sustainability requirements where deemed appropriate. This includes the following: reused products, recycled content products, environmental product declarations, third party certified and stewardship programs.



## Waste Management

Council ESD 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.
- To meet Councils' requirement that all multi-unit developments must provide a Waste Management Plan in accordance with the *Guide to Best Practice for Waste Management in Multi-unit Developments 2010*, published by Sustainability Victoria.

Criteria		Development Provision
Building Re-use	To ensure waste avoidance, reuse and recycling during the design.	None of the existing structure is re-used.
Construction and Demolition Waste	To reduce construction waste going to landfill	At least 80% of the waste generated during construction and demolition has been diverted from landfill.
Food & Garden Waste	To ensure waste avoidance, reuse and recycling during the operational life of the building.	Green waste storage is provided in the basement 1 bin room.

#### **Council Best Practice Standard**

Convenience	
of Recycling	

To ensure waste avoidance, reuse and recycling during the operational life of the building.



Separate general, recycling, glass and organic waste storage will be provided at basement level 1.

Retail/civic is to be provided with separate general, recycling and food and organics waste bins. This requirement is to be included in the owners corporation rules or lease agreement.



Council Best Practice Standard	
Criteria	Development Provision
	Kitchen joinery for the residential units is to provide appropriate spatial allowance for food and organics, general and recycling waste collection.



# Urban Ecology

Council ESD 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.

### **Council Best Practice Standard**

Criteria		Development Provision	
		1,068m <sup>2</sup> of communal space will be provided at ground and level 1. Communal space will include the following amenities: home offices, landscaping, wellness centre, entertaining zone with golf simulator, private dining and lounge space.	
		Additionally, 100m <sup>2</sup> of communal space for the retail areas is provided at ground floor.	
Communal Space	To encourage and recognise initiatives that facilitate interaction between building occupants.		
		Communal appage will be provided at ground and lovel 1	

Communal space will be provided at ground and level 1



Criteria		Development Provision	
Vegetation	To encourage and recognise the use of vegetation and landscaping within and around developments.	Planter boxes are to be located throughout the building. Landscaped area is to be located at ground and level 1. The total area of vegetation is 21% of the site area.	
Green Walls / Roof	To encourage the appropriate use of green roofs, walls and facades to mitigate the impact of the urban heat island effect.	<text></text>	
Private Open Space - Balcony / Courtyard Ecology	To encourage plants in a healthy ecological context to be grown on balconies and in courtyards.	All balconies or private open space have been provided with a tap and floor waste allowing residents to cultivate their own gardens.	
Food Production - Residential	To encourage the production of fresh food on- site.	Min. 65m <sup>2</sup> of communal food production area will be provided.	



Criteria		Development Provision
		The communal food production area will be provided at ground floor public realm.
Heat Island	To reduce the contribution of	Roofs are to have a three year SRI of minimum 60
Effect	the project site to the 'heat island effect	Unshaded hard-scaping elements are to have a three year SRI of minimum 40.



## Innovation

Council ESD objectives:

• To encourage innovative technology, design and processes in all development, which positively influence the sustainability of buildings.

Criteria		Development Provision
Carbon Neutral Ready Development	The building to be carbon neutral ready for future implementation.	The proposed development will be established with a carbon neutral power agreement between developer, owner's corporation, and electrical retailer to provide GreenPower for the communal areas. It is the intent to maintain this agreement for a minimum of 10 years. Occupants will be provided with GreenPower options within the Welcome Pack.
Air Tightness Testing	To improve facade air tightness and building energy efficiency.	Air tightness testing for a sample of units (10-20%) will be undertaken prior to plasterboard being installed and at practical completion. The development is to achieve an air permeability rate of 10 m <sup>3</sup> /hr.m <sup>2</sup> at 50 Pa reference pressure.
ESD Checkpoint during	To ensure that all ESD items are suitably installed and incorporated during construction.	An ESD professional will be engaged throughout the design and construction process. The ESD professional will perform a minimum of 2 site inspections during the construction phase to ensure suitable implementation of the ESD initiatives. Any deficiencies compared to the endorsed SMP will be escalated to the project manager and resolved.
Construction Phase		The checkpoint assessments will be undertaken at two stages as follows:
		<ul> <li>Site Inspection 1: Prior to installation of internal linings.</li> <li>Site inspection 2: At the time of project completion.</li> </ul>
Life Cycle Assessment	To gain insight into the embodied carbon of the development	A life cycle assessment is to be undertaken during the Design Development / Construction phases. The embodied carbon of the development will be benchmarked against a standard practice building to determine the percentage reduction achieved. The life cycle results will be used to inform material selection, construction practices and end of life treatment.



# Appendices

# Appendix A: WSUD Response

### Site layout Plan

The following architectural mark-up illustrates the rainwater collection and impervious areas of the proposed development site.



Figure 1 - Mark-up of water catchment and impervious areas



#### Weather File

Rainfall Station	Time Step
Melbourne Airport	6 minutes

#### **Demand Inputs**

A 25,000-litre rainwater tank is to be connected to all retail toilets and pool backwash and make-up. The following demand assumptions have been included in the modelling:

	Toilet Flushing
Assumption	<ul> <li>Occupant density for the retail per NCC Section D – Part D2 Table D2D18 and AS1668.2-2012.</li> <li>20L per day per occupant for toilet flushing.</li> <li>150m<sup>3</sup> pool.</li> <li>Monthly backwash using 1,000 litre.</li> <li>Average 323 litre evaporation per day.</li> </ul>
Volume (kL/yr)	148kL

A second 35,000-litre rainwater tank is to be connected to the landscape irrigation with a total annual demand of 1,145kL/yr. The following monthly demand assumptions have been included in the modelling:

Monthly Demand	Percentage of Annual Demand (%)
January	15
February	13
March	7
April	7
Мау	7
June	3
July	3
August	3
September	9
October	9
November	9
December	15



#### **MUSIC Model**

A compliant MUSIC model result is achieved with the following WSUD initiatives:

- Rainwater collection off all roof areas is to be directed to a 25,000 litre tank connected to all • retail WC's, pool backwash and makeup.
- Rainwater collection off all terraces is to be directed to a 35,000 litre tank connected to landscape irrigation.
- Prior to the LPOD an Atlan EcoCepter followed by Atlan FlowFilter will need to be installed to • filter the rainwater before entering the stormwater system

The development demonstrates an improvement on the stormwater quality performance objectives as outlined in the Urban Stormwater Best Practice Environmental Management Guidelines (Victoria Stormwater Committee, 1999) for reduction in total suspended solids (TSS), total phosphorus (TP) and total nitrogen (TN) loads. Refer Figure 2 and Table 1 below for the stormwater quality performance objectives and results.



Sources	Residual Load	% Reduction
2.448	1.614	34.06
431.6	45.93	89.36
0.8828	0.1183	86.6
6.5	1.711	73.68
91.39	0.2644	99.71
	Sources 2.448 431.6 0.8828 6.5 91.39	Sources         Residual Load           2.448         1.614           431.6         45.93           0.8828         0.1183           6.5         1.711           91.39         0.2644

Figure 2 - MUSIC Model



	CSIRO performance objectives (reduction %)	1-7 Waterfront Place, Port Melbourne (reduction %)
Suspended Solids	80%	89.36%
Total Nitrogen	45%	73.68%
Total Phosphorus	45%	86.6%
Gross Pollutants	70%	99.71%

Table 1 - Stormwater quality performance objectives

#### WSUD Strategy

The development will include the provision of a 25,000-litre rainwater tank and associated pump in the basement garage. The rainwater tank is to be connected to all retail WC's, pool backwash and makeup.

The development will also include the provision of a 35,000-litre rainwater tank and associated pump in the basement garage. The rainwater tank is to be connected to landscape irrigation.





Prior to the LPOD an Atlan EcoCepter followed by Atlan FlowFilter will need to be installed to filter the rainwater before entering the stormwater system.





Figure 5 – Atlan EcoCepter 1500 series

#### Site Management Statement

Figure 6 - Atlan FlowFilter HS.400/1

Prevention of litter, sediments and pollution entering the stormwater system in the construction phase is to be addressed through introduction of the following initiatives:

- Buffer strips to pervert stormwater runoff.
- Gravel sausage filters at stormwater inlets to prevent silt, mud or any other site contaminant from entering the stormwater system.
- Silt fences under grates at surface entry inlets to prevent sediment from entering the stormwater system.
- Temporary rumble grids to vibrate mud and dirt off vehicles prior to leaving the site.
- The site is to be kept clean from any loose rubbish or rubble. •
- Introduction of offsite construction for building elements where deemed appropriate. •

The builder is to include these initiatives in the construction management plan and address these during site induction of relevant contractors.



### Maintenance Program

The following maintenance requirements are to be programmed to ensure the rainwater tank operates effectively:

Item	Description	Maintenance Interval
Gutters and downpipes	Eave and box gutters are to be inspected and cleaned to prevent large debris from being washed into rainwater tank.	3 monthly
First flush system (as applicable)	Inspect and clean excess sediment from diverter chamber to prevent blockages.	3 monthly
Tank contents	Siphon the tank to inspect contents. If sludge is present, a plumber will be required to drain tank contents and clean the tank.	2 to 3 years
Tank structure	Inspect tank externally for leaks	Yearly
Pump system	Inspect pump wiring, plumbing and check for smooth operation.	6 monthly
Plumbing	Plumbing and fixtures connected to the rainwater tank is to be inspected for leaks.	Yearly

The following maintenance requirements are to be programmed to ensure the Atlan Ecocepter and Atlan FlowFilter operates effectively:

Item	Description	Maintenance Interval
Atlan EcoCepter & Atlan FlowFilter	Visual inspection for silt and pollutant accumulation.	Every 6 months (or earlier as deemed necessary)
Silt Removal	Silt removal as required using conventional vacuum suction equipment.	Every 6 months (or earlier as deemed necessary)
Filters	Filter inserts are easily interchangeable and are to be replaced.	As deemed necessary


Appendix B: Preliminary FirstRate5 Certificates

# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. 8QCQAPYTQ6

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 1, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

# Construction and environment

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 104.2 Unconditioned\* 2.5 Total 106.7 Garage - Exposure type suburban NatHERS climate zone 21 Melbourne RO

# **★**Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

# **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

# Thermal performance star rating

7.1 The more stars the more energy efficient

# 59.7 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	53.2	6.5		
Load limits	N/A	N/A		

#### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

# Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
  - NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7.1 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

Graph key:

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 1, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS	Certificate
THRUT IMITO	ourinicate

# 7.1 Star Rating as of 23 Jan 2025

Certificate check	Approval sta	age Constru stage	ction		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	r checked	authority/ r checked checked	authority/ r checked	ncy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consent surveyo Builder o	Consent surveyo	Occupai	1
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match to number on this Certificate?	the				
Thermal performance check					C
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?	r 🔲				
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate	9?				
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamp plans or as installed match what is shown in the External wall type table on this Certificate?	ed 🗌				
Does the external wall shade (colour) match what is shown in the 'External walk type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or a installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?	s 🛛				
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations' (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?	B				
Ceiling		1			
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?	as 🗌				
Roof Does the external roof shade (colour) on the NatHERS stamped plans or as					
installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Please note that an "external door" between the modelled dwelling and a share space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidat the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? Fexample, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".	For				
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	NatHERS Certificate	7.1	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construct stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
	Additional NCC requirements for thermal performance (not include	d in the Na	tHERS a	ssessme	nt)		
	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home pe	rformance a	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?		0				
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nati	IERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
/	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirement energy efficiency requirements. Additional notes	Additional re s and any st	quirements	s that must tory variatio	also be sat	licC	

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7.1 Star Rating as of 23 Jan 2025

### Room schedule

Room	Zone Type	Area [m²]
Shared 1	basementCarPark	2365.3
Bedroom 2	bedroom	16
Bath	dayTime	6.7
Bedroom 1	bedroom	12.1
WIR	nightTime	7.6
Ensuite	nightTime	8.2
Pantry	unconditioned	2.5
Entry	dayTime	8.9
Kitchen/Living	kitchen	44.8

# Window and glazed door type and performance

#### Default\* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availabl	e		4			
Custom* windows				Substitution to	lerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
CAP-057-13 A	Capral 900 Sliding Door DG 6EA/12Ar/6	3.19	0.48	0.46	0.5	
CAP-041-52 A	Capral 425 Fixed Window DG 6/12Ar/6EA	2.71	0.58	0.55	0.61	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*
Bedroom 2	CAP-057-13 A	W02	3900	2110	sliding	45.0	s	No
Bedroom 1	CAP-057-13 A	VV03	3900	2110	sliding	45.0	S	No
Kitchen/Living	CAP-057-13 A	W05	3900	3250	sliding	45.0	S	No
Kitchen/Living	CAP-041-52 A	Opening 15	3900	1110	fixed	0.0	s	No

# Roof window\* type and performance value

Default\* roof windows

		Substitution tolerance ranges		
Window ID Window description	Maximum U-value* SHGC*	SHGC lower limit SH	IGC upper limit	
No Data Available				

NatHERS Certific	cate		7.1 5	Star Rating as of 23 Jan 20	025
Custom* roof winde	ows			Substitution tole	erance ranges
		Ма	ximum	SHGC lower limit	SHGC upper limit
Window ID	Window descript	tion U-v	value* SHG	C*	
No Data Available					
Roof window	v* schedule	Openin	ng Area Width	Outdoo	r Indoor
No Data Available		W 110. 76	[m] [mm]	Onentation shade	Shade
No Data Available					
Skylight" typ	pe and performal	nce			
Skylight ID		Skyligh	t description	Skylight shaft ref	lectance
No Data Available					
Skylight* sci	hedule				
Location		Skylight No	Skylight shaft	Area Orient- Ou	utdoor
No Data	Skylight iD	Skylight NC	. iengtn [mm]	[m <sup>-</sup> ] auon sh	lade Dinuser
Available					
External doc	r schedule				
External doc	or schedule	[mm] W	idth [mm]	Opening % Orion	tation
External doc Location	o <b>r <i>schedule</i></b> Height	[mm] W	idth [mm]	Opening % Orien	tation
External doc Location No Data Available	or <i>schedule</i> Height	[mm] W	ïdth [mm]	Opening % Orien	tation
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External doc Location No Data Available External wat	or schedule Height	[mm] W	idth [mm]	Opening % Orien	tation
External doc Location No Data Available External wal	or schedule Height	[mm] W Solar absorpt	idth [mm] Wall shade	Opening % Orien Bulk insulation	tation Reflective wall wran*
External doc Location No Data Available External wall Wall ID Wall t	or schedule Height	[mm] W Solar absorpt	fidth [mm] Wall shade ance [colour]	Opening % Orien Bulk insulation [R-value]	tation Reflective wall wrap*
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External doc Location No Data Available External wall Mall ID Wall t 1 1-7 W Retain 2 1-7 W Intern 3 1-7 W Intern 4 1-7 W	Ar schedule Height Height I type ype Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront - Concrete Ext	x[mm] W Solar absorpt pourne - 0.5 pourne - 0.5 pourne - 0.5 0.5	ridth [mm] Wall shade [colour] Medium Medium Medium	Opening %       Orient         Bulk insulation       [R-value]         Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)       Glass fibre batt: R2.5 (R2.5)	tation  Reflective wall wrap* No No No No No
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External doc Location No Data Available External wall Mall ID Wall t 1 1-7 W Retain 2 1-7 W Intern 3 1-7 W Intern 4 1-7 W External wall Location Shared 1	Ar schedule Height Height I type ype Vaterfront Place, Port Melt al Plasterboard Stud Wall Vaterfront Place, Port Melt al Plasterboard Stud Wall Vaterfront - Concrete Ext I schedule Wall ID	Imm]       W         Solar       absorpt         pourne -       0.5         pourne -       pourne -         p	ridth [mm] Wall shade ance [colour] Medium Medium Medium Medium feat Orientation pro S 0	Opening %       Orient         Bulk insulation       [R-value]         Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)       Glass fibre batt: R2.5 (R2.5)         Glass fibre batt: R2.5 (R2.5)       Glass fibre batt: R2.5 (R2.5)         rizontal shading ture* maximum vertice feature maximum vertice feature       No	tation  Reflective wall wrap* No No No No No all shading re* (yes/no)
External doc Location No Data Available External wall Wall ID Wall t 1 1-7 W Retain 2 1-7 W Intern 3 1-7 W Intern 4 1-7 W External wall Location Shared 1	Ar schedule Height I type ype Vaterfront Place, Port Melt al Plasterboard Stud Wall Vaterfront Place, Port Melt al Plasterboard Stud Wall Vaterfront - Concrete Ext Vaterfront - Concrete Ext I schedule Wall ID 1	Imm]       W         Solar absorpt         Dourne -       0.5	ridth [mm] Ance Vall shade [colour] Medium Medium Medium Medium Hor feat Orientation S 0 E 0	Opening %       Orient         Bulk insulation       [R-value]         Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)       Glass fibre batt: R2.5 (R2.5)         Glass fibre batt: R2.5 (R2.5)       Vertice feature         rizontal shading ture* maximum jection [mm]       Vertice feature         No       No	tation  Reflective wall wrap* No No No No No Sal shading re* (yes/no)
External doc Location No Data Available External wall Mall ID Wall t 1 1-7 W Retain 2 1-7 W Intern 3 1-7 W Intern 4 1-7 W External wall Location Shared 1 Shared 1	Ar schedule Height Height I type ye Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront Place, Port Melk al Plasterboard Stud Wall Vaterfront - Concrete Ext I schedule Wall ID 1 1	Imm]       W         Solar       absorpt         pourne -       0.5         pourne -       pourne -         p	idth [mm]   ance Wall shade   [colour] Medium   Medium Medium   Medium Medium   Medium Medium   Medium Medium   Medium Medium	Opening %       Orient         Bulk insulation       [R-value]         Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)       Glass fibre batt: R2.5 (R2.5)         Glass fibre batt: R2.5 (R2.5)       Vertice feature         rizontal shading ture* maximum jection [mm]       Vertice feature         No       No	tation  Reflective wall wrap* No No No No Sal shading re* (yes/no)

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 1, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

7.1 Star Rating as of 23 Jan 2025

Shared 1	2	3300	24496	Ν	0	No
Shared 1	2	3300	4920	W	0	No
Shared 1	2	3300	11469	Ν	0	No
Shared 1	2	3300	12412	E	0	No
Shared 1	1	3300	11552	E	0	No
Shared 1	1	3300	20035	Ν	0	No
Shared 1	2	3300	6230	W	0	No
Shared 1	2	3300	12796	S	0	No
Shared 1	2	3300	12723	W	0	No
Shared 1	2	3300	6722	Ν	0	No
Shared 1	2	3300	5299	W	0	No
Shared 1	2	3300	7850	Ν	0	No
Shared 1	2	3300	13787	E	0	No
Shared 1	2	3300	6599	Ν	0	No
Shared 1	2	3300	22325	W	0	No
Shared 1	2	3300	4882	N	0	No
Shared 1	1	3300	2895	W	0	No
Shared 1	2	3300	4980	S	0	No
Shared 1	2	3300	3729	W	0	No
Shared 1	2	3300	4980	Ν	0	No
Shared 1	1	3300	6207	W	0	No
Shared 1	2	3300	5005	S	0	No
Shared 1	2	3300	5127	W	0	No
Bedroom 2	3	4050	5145	W	0	No
Bedroom 2	4	4050	3103	S	0	Yes
Bath	3	4050	2081	W	0	No
Bedroom 1	3	4050	3862	E	0	No
Bedroom 1	4	4050	3136	S	0	Yes
WIR	3	4050	2428	E	0	No
Ensuite	3	4050	2660	E	0	No
Ensuite	3	4050	3086	Ν	0	No
Pantry	3	4050	1987	Ν	0	Νο
Entry	3	4050	1983	W	0	No
Entry	3	4050	4477	N	0	No
Kitchen/Living	4	4050	5363	S	5383	Yes
Kitchen/Living	3	4050	1922	N	0	No

# Internal wall type

Wall ID Wall type

Area [m<sup>2</sup>] Bu

Bulk insulation

7.1 Star Rating as of 23 Jan 2025

1

1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall

142.5

# Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Shared 1	FR5 - 250mm concrete slab	119.9	Enclosed	R0.0	none
Shared 1	FR5 - 250mm concrete slab	551.3	Enclosed	R0.0	none
Shared 1	FR5 - 250mm concrete slab	1694.1	Enclosed	R0.0	none
Shared 1	FR5 - 250mm concrete slab	0	Enclosed	R0.0	none
Shared 1	FR5 - 250mm concrete slab	0	Enclosed	R0.0	none
Bedroom 2	FR5 - 200mm concrete slab	16	Enclosed	R3.2	Carpet
Bath	FR5 - 200mm concrete slab	6.7	Enclosed	R3.2	Tiles
Bedroom 1	FR5 - 200mm concrete slab	12.1	Enclosed	R3.2	Carpet
WIR	FR5 - 200mm concrete slab	7.6	Enclosed	R3.2	Carpet
Ensuite	FR5 - 200mm concrete slab	8.2	Enclosed	R3.2	Tiles
Pantry	FR5 - 200mm concrete slab	2.5	Enclosed	R3.2	Timber
Entry	FR5 - 200mm concrete slab	8.9	Enclosed	R3.2	Timber
Kitchen/Living	FR5 - 200mm concrete slab	44.8	Enclosed	R3.2	Timber

# Ceiling type

Location		Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Shared 1		FR5 - 200mm concrete slab	R3.2	No
Shared 1		Plasterboard	R0.0	No
Shared 1		Plasterboard	R0.0	No
Shared 1		Plasterboard	R0.0	No

# Ceiling penetrations\*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bedroom 2	6	Downlights	80	80	Sealed
Bath	1	Exhaust Fans	250	250	Sealed
Bath	3	Downlights	80	80	Sealed
Bedroom 1	5	Downlights	80	80	Sealed
WIR	3	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
Ensuite	3	Downlights	80	80	Sealed
Pantry	1	Downlights	80	80	Sealed
Entry	4	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed

NatHERS Certificate			7.1 Star Rating as	of 23 Jan 2025
Kitchen/Living	18	Downlights	80 8	0 Sealed
Ceiling <i>fans</i> Location			Quantity	Diameter [mm]
No Data Available				
Roof type		Added insulatio [R-value]	n Solar absorptanc	e Roof shade [colour]
Slab:Slab - Suspended S Suspended Slab	Slab : 300mm: 300mm	0.0	0.5	Medium
Slab:Slab - Suspended S Suspended Slab	Slab : 200mm: 200mm	0.0	0.5	Medium
Thermal bridging	g schedule for ste	el frame elem	nents	
Building element	Steel section dimension [height x width, mm]	is Frame spacing	Steel thickness [mm] [BMT,mm]	Thermal break [R-value]
External wall	90 x 40	600	0.75	0
Appliance scheo (not applicable if a Who Note: A flat assumption o	<b>Dule</b> le of Home performance f 5W/m2 is used for lighting	assessment is not c ), therefore lighting is	onducted for this certifica not included in the appliance	ate) be schedule.
		· /	Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
Appliance/ system type No Whole of Home perfor Heating system	Location ormance assessment condu	Fuel type ucted for this certificat	Minimum efficiency/ performance e.	Recommended capacity
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type	Location ormance assessment condu	Fuel type acted for this certificat	Minimum efficiency/ performance e. Minimum efficiency/ performance	Recommended capacity Recommended capacity
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor	Location ormance assessment condu- Location ormance assessment condu	Fuel type acted for this certificat Fuel type acted for this certificat	Minimum efficiency/ performance e. Minimum efficiency/ performance e.	Recommended capacity Recommended capacity
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor Hot water system	Location ormance assessment condu- Location ormance assessment condu-	Fuel type acted for this certificat Fuel type acted for this certificat	Minimum efficiency/ performance e. Minimum efficiency/ performance e.	Recommended capacity Recommended capacity
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor Hot water system	Location ormance assessment condu- Location ormance assessment condu-	Fuel type Incted for this certificat Fuel type Incted for this certificat Minimum efficiency/	Minimum efficiency/ performance e. Minimum efficiency/ performance e. Hot Water CER	Recommended capacity Recommended capacity Assessed daily
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor Hot water system Appliance/ system type No Whole of Home perfor	Location ormance assessment condu- bormance assessment condu- Fuel type	Fuel type acted for this certificat Fuel type acted for this certificat Minimum efficiency/ performance	Minimum efficiency/ performance e. Minimum efficiency/ performance e. Hot Water CER Zone Zone	Recommended capacity Recommended capacity Assessed daily a 3 STC load
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor Hot water system Appliance/ system type No Whole of Home perfor No Whole of Home perfor	Location ormance assessment condu- bormance assessment condu- Fuel type	Fuel type acted for this certificat Fuel type acted for this certificat Minimum efficiency/ performance acted for this certificat	Minimum efficiency/ performance e. Minimum efficiency/ performance e. Hot Water CER Zone Zone e. Minimum efficien	Recommended capacity Recommended capacity Assessed daily a 3 STC load
Appliance/ system type No Whole of Home perfor Heating system Appliance/ system type No Whole of Home perfor Hot water system Appliance/ system type No Whole of Home perfor Pool/spa equipment Appliance/ system type	Location ormance assessment condu- brance assessment condu- ormance assessment condu- fuel type	Fuel type Incted for this certificat Fuel type Incted for this certificat Minimum efficiency/ performance Incted for this certificat	Minimum efficiency/ performance e. Minimum efficiency/ performance e. Hot Water CER Zone Zone e. Minimum efficien performance	Recommended capacity Recommended capacity Assessed daily a 3 STC load
Appliance/ system type No Whole of Home perform Heating system Appliance/ system type No Whole of Home perform Hot water system No Whole of Home perform No Whole of Home perform Pool/spa equipment Appliance/ system type No Whole of Home perform No Whole of Home perform	Location ormance assessment condu- brance assessment condu- Fuel type ormance assessment condu- ormance assessment condu-	Fuel type Incted for this certificat Fuel type Incted for this certificat Minimum efficiency/ performance Incted for this certificat Fuel type Incted for this certificat	Minimum efficiency/ performance         e.         Minimum efficiency/ performance         e.         Hot Water CER Zone         Zone         Zone         e.         Minimum efficiency/ performance         e.         Minimum efficiency         e.         Minimum efficiency         e.	Recommended         Recommended         capacity         Recommended         capacity         Assessed daily         a 3 STC         load

7.1 Star Rating as of 23 Jan 2025

#### (not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System typeOrientationSystem size or generation capacityNo Whole of Home performance assessment conducted for this certificate.

# Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

#### System type

No Whole of Home performance assessment conducted for this certificate.

Size [battery storage capacity]

# Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 7.1 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 7.1 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

.....

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 1, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. V30PSFVY54

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 2, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Prepared by

# **Construction and environment**

Rev M

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 231.4 Unconditioned\* 4.3 Total 235.7 Garage - Exposure type suburban NatHERS climate zone 21 Melbourne RO

# ★ Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

# **NCC Requirements**

NCC provisions Volume 1 State/Territory variation Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating



# 63.1 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	51.5	11.6
Load limits	N/A	N/A

#### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

# Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 12

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.9 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 2, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHER	RS Certifi	cate

# 6.9 Star Rating as of 23 Jan 2025

Certificate check	Approval stage	Construct stage	tion		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	br checked t authority/	r checked checked	t authority/ r checked	incy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assess	surveyo Builder	Consen surveyo	Occupa	1
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match number on this Certificate?	n the				
Thermal performance check	6				C
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed do schedule' and 'Roof window schedule' tables on this Certificate?	or 🗌 🗌				
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certification of the second se	ate?				
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stam plans or as installed match what is shown in the External wall type table on th Certificate?	is C				
Does the external wall shade (colour) match what is shown in the 'External wat type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?	as 🗌 🗌				
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaus fans, etc) shown on the NatHERS-stamped plans or as installed match what i shown in the 'Ceiling penetrations' table on this Certificate?	s D D				
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans of installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?	or as				
Roof					
installed match what is shown in the 'Roof type' table on this Certificate?			Ш		
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a sha space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalid the Certificate.	ate				
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".	For	ו			
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?			D		

i	NatHERS Certificate	6.9	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construct stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q.				
	Whole of Home performance check (not applicable if a Whole of Home performance check	formance a	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
and the second sec	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	s that must	also be sat	lisfied ICC	

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6.9 Star Rating as of 23 Jan 2025

# Room schedule

Room	Zone Type	Area [m²]
WIR	nightTime	7.6
Bedroom 2	bedroom	12.4
Ensuite	nightTime	11.2
Second Kitchenette	dayTime	9.3
Pantry	dayTime	6.3
Powder	unconditioned	4.3
Entry	dayTime	12.5
Master Ensuite	nightTime	5.2
Master WIR	nightTime	3.6
Master Bedroom	bedroom	16.7
Ensuite 3	dayTime	5.4
WIR 3	nightTime	3.9
Bedroom 3	bedroom	13.7
Corridor bedroom	dayTime	3.1
Study	dayTime	6.7
Corridor	dayTime	12.4
Kitchen/Living	kitchen	101.4

# Window and glazed door type and performance

### Default\* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					
Custom* windows				Substitution to	plerance ranges

Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-057-13 A	Capral 900 Sliding Door DG 6EA/12Ar/6	3.19	0.48	0.46	0.5

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*	/
Bedroom 2	CAP-057-13 A	W01	2700	2340	sliding	45.0	N	No	
Master Bedroom	CAP-057-13 A	VV04	2700	3000	sliding	45.0	W	No	
Bedroom 3	CAP-057-13 A	VV05	2700	2560	sliding	45.0	W	No	
Study	CAP-057-13 A	VV08	2700	2310	sliding	45.0	W	No	

NatHERS Certifica	ate			6.9 \$	Star Rating as of	<sup>2</sup> 23 Jan 2025	
Kitchen/Living	CAP-057-13 A	W010	2700 54	30 sliding	45.0	N	No
Kitchen/Living	CAP-057-13 A	W12	2700 663	30 sliding	0.0	W	No
Roof window	i* type and	performal	nce value				
Default* roof windov	ws						
•			Maximu	m	Substi	tution tolerand	e ranges
Window ID	Window o	lescription	U-value	* SHG	C* SHGC lov	wer limit SHG	C upper limit
No Data Available							
Custom* roof winds							
Custom Tool windo	WS				Substi	tution tolerand	e ranges
Window ID	Window	locarintian	Maximu	m * SUC	SHGC Iov	wer limit SHG	C upper limit
No Data Available	window d	description	0-value	5160	<b>.</b>		
Roof window	ı* schedule						
Location Mi		Window no	Opening A	rea Width	Orientation	Outdoor	Indoor
No Data Available		window no.	70 [n	1.1 fuuul	Orientation	snade	snade
NU Dala Avallabie							
No Data Available							-
Skylight* typ	e and perfo	ormance	$\frown$				
Skylight* typ Skylight ID	e and perfo	ormance	Skylight des	cription	Skylight	t shaft reflecta	nce
Skylight* typ Skylight ID No Data Available	e and perfo	ormance	Skylight des	cription	Skylight	t shaft reflecta	nce
Skylight* typ Skylight ID No Data Available	e and perfo	ormance	Skylight des	cription	Skylight	t shaft reflecta	nce
Skylight* typ Skylight ID No Data Available Skylight* sch	e and perfo	ormance	Skylight des	cription kylight shaft	Skylight	t shaft reflecta	nce
Skylight* typ Skylight ID No Data Available Skylight* sch Location	e and perfo nedule Skyligh	ormance	Skylight des Skylight No. le	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflectat ent- Outdoo on shade	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available	e and perfo nedule Skyligh	ormance	Skylight des Si Skylight No. le	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflectat ent- Outdoo on shade	nce or Diffuser
Skylight* typ Skylight ID No Data Available Skylight* sch Location No Data Available	e and perfo	ormance	Skylight des Si Skylight No. le	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflectat ent- Outdoo on shade	nce or Diffuser
Skylight* typ Skylight ID No Data Available Skylight* sch Location No Data Available External doo	e and perfo nedule Skyligh	ormance	Skylight des Sl Skylight No. le	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflectat ent- Outdoo on shade	nce or Diffuser
Skylight* typ Skylight ID No Data Available Skylight* sch Location No Data Available External doo Location	e and perfo nedule Skyligh	ormance ht ID Height [mm]	Skylight des Si Skylight No. le Width	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflecta ent- Outdoo on shade Orientation	nce or Diffuser
Skylight* typ Skylight ID No Data Available Skylight* sch Location No Data Available External doo Location No Data Available	e and perfo nedule Skyligh	ormance ht ID Height [mm]	Skylight des Skylight No. le Width	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflecta ent- Outdoo on shade Orientation	nce or Diffuser
Skylight* typ Skylight ID No Data Available Skylight* sch Location No Data Available External doo Location No Data Available	e and perfo nedule Skyligh r schedule	ormance nt ID Height [mm]	Skylight des Skylight No. le Width	cription kylight shaft ngth [mm]	Skylight Area Ori [m²] atic	t shaft reflecta ent- Outdoo on shade Orientation	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available         External doo         Location         No Data         Available         External doo         Location         No Data Available         External doo         Location         No Data Available	e and perfo nedule Skyligh r schedule	ormance ht ID Height [mm]	Skylight des Si Skylight No. le Width	cription kylight shaft ngth [mm] [mm] Wall shade	Skylight Area Ori [m²] atic Opening %	t shaft reflecta ent- Outdoo on shade Orientation	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External doo         Location         No Data Available         Wall ID       Wall ty	e and perfo nedule Skyligh or schedule	ormance ht ID Height [mm]	Skylight des Skylight No. le Width Solar absorptance	cription kylight shaft ngth [mm] [mm] Wall shade [colour]	Skylight Area Ori [m²] atio Opening % Bulk insulation [R-value]	t shaft reflecta ent- Outdoo on shade Orientation	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External wall         Wall ID       Wall ty	e and perfo nedule Skyligh or schedule	bormance	Skylight des Skylight No. le Width Solar absorptance	cription cylight shaft ngth [mm] [mm] Wall shade [colour] Madium	Skylight Area Ori [m²] atic Opening % Bulk insulation [R-value] Glass fibre batt density = 12 kz	t shaft reflectation ent- Outdoo on shade Orientation Corientation (k = 0.044 (m3)	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available         External doo         Location         No Data         Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External wall         Wall ID       Wall ty         1       1-7 Wall	e and perfo nedule Skyligh or schedule	bormance ht ID Height [mm]	Skylight des Si Skylight No. le Width Solar absorptance 0.5	cription kylight shaft ngth [mm] [mm] Wall shade [colour] Medium	Skylight Area Ori [m²] atic Opening % Bulk insulation [R-value] Glass fibre batt density = 12 kg. (R2.5)	t shaft reflectation ent- Outdoo on shade Orientation (k = 0.044 /m3) No	nce or Diffuser
Skylight* typ         Skylight ID         No Data Available         Skylight* sch         Location         No Data         Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External doo         Location         No Data Available         External wall         Wall ID       Wall ty         1       1-7 Wall         2       1-7 Wall	e and performed bedule Skyligh or schedule by pe aterfront - Plaster	bormance	Skylight des Si Skylight No. le Width Solar absorptance 0.5	cription kylight shaft ngth [mm] [mm] Wall shade [colour] Medium	Skylight Area Ori [m²] atic Opening % Bulk insulation [R-value] Glass fibre batt density = 12 kg. (R2.5) Glass fibre batt	t shaft reflectation ent- Outdoo on shade Orientation (k = 0.044 /m3) No	nce or Diffuser

# External wall schedule

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 2, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

6.9 Star Rating as of 23 Jan 2025

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
WIR	1	2700	1987	E	0	No
WIR	2	2700	173	Ν	0	Yes
WIR	2	2700	159	E	0	No
Bedroom 2	2	2700	3326	E	11755	Yes
Bedroom 2	2	2700	152	NE	0	No
Bedroom 2	2	2700	286	NE	0	No
Bedroom 2	2	2700	3127	N	4709	Yes
Ensuite	1	2700	3194	E	0	No
Second Kitchenette	1	2700	2665	E	0	No
Pantry	1	2700	1802	E	0	No
Powder	1	2700	1236	E	0	No
Entry	1	2700	3021	S	0	No
Entry	1	2700	4134	E	0	No
Entry	1	2700	973	W	0	No
Master Ensuite	1	2700	2718	S	0	No
Master WIR	1	2700	1895	S	0	No
Master Bedroom	2	2700	3130	W	1113	Yes
Master Bedroom	1	2700	3641	S	0	No
Bedroom 3	2	2700	3186	W	4750	Yes
Study	2	2700	2948	W	4952	Yes
Corridor	1	2700	2194	S	0	No
Kitchen/Living	2	2700	6278	N	4720	Yes
Kitchen/Living	2	2700	436	NW	4245	Yes
Kitchen/Living	2	2700	9643	W	2624	Yes

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ] Bulk insulation	
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	234.3	

# Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
WIR	FR5 - 200mm concrete slab	7.6	Elevated	R3.2	Carpet
Bedroom 2	FR5 - 200mm concrete slab	12.4	Elevated	R3.2	Carpet
Ensuite	FR5 - 200mm concrete slab	11.2	Elevated	R3.2	Tiles
Second Kitchenette	FR5 - 200mm concrete slab	9.3	Elevated	R3.2	Tiles
Pantry	FR5 - 200mm concrete slab	6.3	Elevated	R3.2	Timber

6.9 Star Rating as of 23 Jan 2025

Powder	FR5 - 200mm concrete slab	4.3	Elevated	R3.2	Tiles
Entry	FR5 - 200mm concrete slab	6.6	Enclosed	R0.0	Timber
Entry	FR5 - 200mm concrete slab	5.9	Elevated	R3.2	Timber
Master Ensuite	FR5 - 200mm concrete slab	5.2	Elevated	R3.2	Tiles
Master WIR	FR5 - 200mm concrete slab	3.6	Elevated	R3.2	Carpet
Master Bedroom	FR5 - 200mm concrete slab	16.7	Elevated	R3.2	Carpet
Ensuite 3	FR5 - 200mm concrete slab	5.4	Elevated	R3.2	Tiles
WIR 3	FR5 - 200mm concrete slab	3.9	Elevated	R3.2	Carpet
Bedroom 3	FR5 - 200mm concrete slab	13.7	Elevated	R3.2	Carpet
Corridor bedroom	FR5 - 200mm concrete slab	3.1	Elevated	R3.2	Carpet
Study	FR5 - 200mm concrete slab	6.7	Elevated	R3.2	Timber
Corridor	FR5 - 200mm concrete slab	12.4	Elevated	R3.2	Timber
Kitchen/Living	FR5 - 200mm concrete slab	101.4	Elevated	R3.2	Timber

# Ceiling type

Location	Construction material/type	Bulk insulation R-valueReflective[may include edge batt values]wrap*
No Data Available		
Ceiling penetrations*		

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
WIR	3	Downlights	80	80	Sealed
Bedroom 2	5	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
Ensuite	5	Downlights	80	80	Sealed
Second Kitchenette	1	Exhaust Fans	250	250	Sealed
Second Kitchenette	3	Downlights	80	80	Sealed
Pantry	3	Downlights	80	80	Sealed
Powder	1	Exhaust Fans	250	250	Sealed
Powder	2	Downlights	80	80	Sealed
Entry	5	Downlights	80	80	Sealed
Master Ensuite	1	Exhaust Fans	250	250	Sealed
Master Ensuite	2	Downlights	80	80	Sealed
Master WIR	1	Downlights	80	80	Sealed
Master Bedroom	7	Downlights	80	80	Sealed
Ensuite 3	1	Exhaust Fans	250	250	Sealed
Ensuite 3	2	Downlights	80	80	Sealed
WIR 3	1	Downlights	80	80	Sealed
Bedroom 3	5	Downlights	80	80	Sealed

NatHERS Certificate				6.9 Star Rating	as of 23	Jan 2025	
Corridor bedroom	1	Dov	wnlights	80	80	Sealed	
Study	3	Dov	wnlights	80	80	Sealed	
Corridor	5	Dov	wnlights	80	80	Sealed	
Kitchen/Living	1	Ext	aust Fans	250	250	Sealed	_
Kitchen/Living	41	Dov	wnlights	80	80	Sealed	
Ceiling fans Location No Data Available			Qua	antity		Diameter [mm]	
Roof type							
Construction		Add [R-\	led insulation /alue]	Solar absorpta	nce	Roof shade [colour]	
Slab:Slab - Suspended S Suspended Slab	Slab : 200mm: 200m	m 0.0		0.5		Medium	
merma bridging		i sicerna					
Building element External wall	Steel section dim [height x width, m 90 x 40	ensions im] Frai 600	me spacing [mm]	Steel thickness [BMT,mm] 0.75		Thermal break [R-value] 0	
Building element External wall Floor Appliance sched	Steel section dim [height x width, m 90 x 40 100 x 50	ensions [m] Fra 600 450	me spacing [mm] ) )	Steel thickness [BMT,mm] 0.75 1.50		Thermal break [R-value] 0 0	_
Building element External wall Floor Appliance sched (not applicable if a Who Note: A flat assumption of	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for	ensions [m] Fran 600 450 hance assessin lighting, therefore	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia	icate) ance sch	Thermal break [R-value] 0 0 edule.	
Building element External wall Floor Appliance sched (not applicable if a Who Note: A flat assumption of Cooling system	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for	ensions [m] Fran 600 450 hance assess lighting, therefor	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity	
Building element External wall Floor Appliance sched (not applicable if a Who Note: A flat assumption of Cooling system Appliance/ system type No Whole of Home perfor	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for Location brmance assessment	ensions [m] Fran 600 450 hance assesses lighting, therefor Fue t conducted for	me spacing [mm] ) nent is not conduct ore lighting is not inclu I type perf this certificate.	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity	
Building element External wall Floor Appliance sched (not applicable if a Who Note: A flat assumption of Cooling system Appliance/ system type No Whole of Home perform	Steel section dim [height x width, m 90 x 40 100 x 50 Dule ble of Home perform f 5W/m2 is used for Location ormance assessment	ensions [m] Fran 600 450 hance assesses lighting, therefor Fue t conducted for	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certifuded in the applia	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity	
Building element         External wall         Floor         Appliance scheder         (not applicable if a Who Note: A flat assumption of         Cooling system         Appliance/ system type         No Whole of Home perfor         Heating system	Steel section dim [height x width, m 90 x 40 100 x 50 Dule ble of Home perform f 5W/m2 is used for Location ormance assessment	ensions [m] Fran 600 450 100 100 100 100 100 100 100 1	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity	
Building element External wall Floor Appliance sched (not applicable if a Who Note: A flat assumption of Cooling system Appliance/ system type No Whole of Home perfor Heating system	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for Location ormance assessment	ensions [m] France 600 450 100 100 100 100 100 100 100 1	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia imum efficiency. formance	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity Recommended	
Building element         External wall         Floor         Appliance scheder         (not applicable if a Who Note: A flat assumption of         Cooling system         Appliance/ system type         No Whole of Home perfor         Heating system         Appliance/ system type         No Whole of Home perfor         Model of Home perfor         No Whole of Home perfor         No Whole of Home perfor	Steel section dim [height x width, m 90 x 40 100 x 50 Dule de of Home perform f 5W/m2 is used for Location ormance assessment Location	ensions [m] Fra 600 450 hance assess lighting, therefor Fue t conducted for Fue t conducted for	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia imum efficiency/ formance	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity Recommended capacity	
Building element         External wall         Floor         Appliance scheder         (not applicable if a Who Note: A flat assumption of         Cooling system         Appliance/ system type         No Whole of Home performed         Heating system         Appliance/ system type         No Whole of Home performed         Mathematical System type         No Whole of Home performed	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for Location ormance assessment browner assessment	ensions [m] France 600 450 hance assessmilighting, therefore t conducted for Fue t conducted for	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia imum efficiency/ formance	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity Recommended capacity	
Building element         External wall         Floor         Appliance scheder         (not applicable if a Who Note: A flat assumption of         Cooling system         Appliance/ system type         No Whole of Home perfor         Heating system         No Whole of Home perfor         No Whole of Home perfor         Heating system         Heating system         Hot water system	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for Location ormance assessment Location	ensions [m] France 600 450 hance assessmilighting, therefore t conducted for Fue t conducted for	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia imum efficiency. formance	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity Recommended capacity	
Building element         External wall         Floor         Appliance scheder         (not applicable if a Who Note: A flat assumption of         Cooling system         Appliance/ system type         No Whole of Home perfor         Heating system         No Whole of Home perfor         No Whole of Home perfor         Heating system         Hot water system	Steel section dim [height x width, m 90 x 40 100 x 50 Dule le of Home perform f 5W/m2 is used for Location ormance assessment	ensions [m] France 600 450 hance assessme lighting, therefore Fue t conducted for Fue t conducted for Minimum efficience	me spacing [mm]	Steel thickness [BMT,mm] 0.75 1.50 ed for this certif uded in the applia imum efficiency formance	icate) ance sch	Thermal break [R-value] 0 0 edule. Recommended capacity Recommended capacity	

No Whole of Home performance assessment conducted for this certificate.

### Pool/spa equipment

Appliance/ system type

Fuel type

Minimum efficiency/

performance

\*Refer to glossary.

Recommended

capacity

6.9 Star Rating as of 23 Jan 2025

Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

# Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System typeOrientationSystem size or generation capacityNo Whole of Home performance assessment conducted for this certificate.

Battery schedule (not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 2, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 6.9 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 6.9 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 2, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. RM77MP1ROT

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 4, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

# **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 141.6 Unconditioned\* 2.2 Total 143.8 Garage - Exposure type suburban NatHERS climate zone 21 Melbourne RO

# **★**Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

# **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

# Thermal performance star rating

8.9 The more stars the more energy efficient

# 27.2 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	19.9	7.3
Load limits	55	38

#### Features determining load limits

Floor type	N
(lowest conditioned area)	
NCC climate zone 1 or 2	Y
Outdoor living area	Y
Outdoor living area ceiling fan	Y

### Whole of Home performance rating

I/A

No Whole of Home performance rating generated for this certificate

# Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

8.9 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

Graph key:

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 4, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS	Certificate

# 8.9 Star Rating as of 23 Jan 2025

Cartificate check		Approval	stage	Construct stage	ion		
The checklist covers important items impacting the dwelling' It is recommended that the accuracy of the whole certificate	s ratings. is checked.	r checked	authority/ checked	hecked	authority/ checked	cy/other	
Note: The boxes indicate when and who should check each It is not mandatory to complete this checklist.	item.	Assessor	Consent surveyor	Builder c	Consent surveyor	Occupan	
Genuine certificate check							
Does this Certificate match the one available at the web add verification link on the front page?	fress or QR code						
Does the NatHERS certificate number on the NatHERS-star number on this Certificate?	mped plans match the		D				
Thermal performance check							
Windows and glazed doors							
Does the window size, opening type and location shown on stamped plans or as installed match what is shown in 'Window schedule' and 'Roof window schedule' tables on this Certific	the NatHERS- ow and glazed door ate?		<b>P</b>	D			
Does the installed windows meet the substitution tolerances SHGC* and U-values*) as shown in the 'Window and glazed performance' and 'Roof window type and performance' table	(AFRC* based door type and es on this Certificate?						
External walls			1	1			
Does the external wall bulk insulation (R-value) shown on the plans or as installed match what is shown in the External wa Certificate?	e NatHERS-stamped all type table on this	<b>P</b>					
Does the external wall shade (colour) match what is shown type' table on this Certificate?	in the 'External wall						
Floor							
Does the floor insulation (R-value) shown on the NatHERS-sinstalled match what is shown in the 'Floor type' table on this	stamped plans or as s certificate?						
Ceiling penetrations*							R
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. do fans, etc) shown on the NatHERS-stamped plans or as insta shown in the 'Ceiling penetrations' table on this Certificate?	ownlights, exhaust alled match what is						
Ceiling						- V	
Does the ceiling insulation (R-value) shown on the NatHERS installed match what is shown in the ' <i>Ceiling type</i> ' table on the	S-stamped plans or as his Certificate?			D			
Does the external roof shade (colour) on the NatHERS stam installed match what is shown in the 'Roof type' table on this	ped plans or as						
Apartment entrance doors (NCC Class 2 assessm	ents only)	-	4				
Does the 'External Door Schedule' show apartment entrance Please note that an "external door" between the modelled do space, such as an enclosed corridor or foyer, should not be assessment (because it overstates the possible ventilation) a the Certificate.	e doors? welling and a shared included in the and would invalidate				٦		
Exposure*							
Has the appropriate exposure type (terrain) (shown on page example, it is unlikely that a ground-floor apartment is "expo- high-rise apartment is "protected".	1) been applied? For sed" or a top floor						
Heating and cooling load limits*							
Do the load limits settings (shown on page 1) match the value Standard 2022: NAtHERS heating and cooling load limits for climate zone?	ues in the ABCB r the appropriate						

i	NatHERS Certificate	8.9	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construct stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?		1				
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q.				
	Whole of Home performance check (not applicable if a Whole of Home performance check	formance a	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
and the second sec	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. At include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements. Additional notes	dditional red and any st	quirements	that must	also be sat	lisfied ICC	

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8.9 Star Rating as of 23 Jan 2025

# Room schedule

Room	Zone Type	Area [m²]
Bedroom 1	bedroom	10.5
Bedroom 2	bedroom	11.4
Bathroom	dayTime	4.8
Laundry	unconditioned	2.2
Bedroom 3	bedroom	13.1
Ensuite 1	nightTime	9
WIR 1	dayTime	9.2
Ensuite 2	nightTime	4.7
WIR 2	dayTime	8.6
Corridor 2	dayTime	4.3
Corridor	dayTime	6.5
Entry	dayTime	7.4
Kitchen/Living	kitchen	52

# Window and glazed door type and performance

Default\* windows

		Substitution to	elerance ranges
Window ID Window description	Maximum U-value* SHGC*	SHGC lower limit	SHGC upper limit
No Data Available			
Custom* windows		Substitution to	elerance ranges

		Maximum		CLICC Lawren lineit	SHGC upper limit	
Window ID	Window description	U-value*	SHGC*	SHGC lower limit		
CAP-057-13 A	Capral 900 Sliding Door DG 6EA/12Ar/6	3.19	0.48	0.46	0.5	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom 1	CAP-057-13 A	Opening 18	1950	2115	sliding	45.0	N	No
Bedroom 2	CAP-057-13 A	Opening 17	1950	2500	sliding	45.0	N	No
Bedroom 3	CAP-057-13 A	Opening 14	2700	2950	sliding	45.0	N	No
Kitchen/Living	CAP-057-13 A	Opening 16	2700	4150	sliding	45.0	N	No

# Roof window\* type and performance value

Default\* roof windows

#### Substitution tolerance ranges

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 4, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS C	ertificate					8.9 Si	tar Rating as of	23 Jan 202	25
Window ID		Window des	scription	Maxin U-valı	num ue*	SHGC	* SHGC lov	ver limit S	HGC upper limit
No Data Ava	ailable								
Custom* roo	fwindows						Substi	tution toler	ance ranges
Window ID		Window de	scription	Maxin U-valı	num ue*	SHGC	* SHGC lov	ver limit S	HGC upper limit
No Data Ava	ailable								
Roof wir	ndow* sc	chedule							
Location	Window	un v	Vindow no	Opening %	Area	Width	Orientation	Outdoor shade	Indoor shade
No Data Ava	ailable		vindow no.	/0	[111]	[11111]	Onentation	Sildue	Shade
No Data / W									
Skylight	* type ar	nd perfor	mance						
Skylight ID				Skylight d	escriptio	n	Skylight	t shaft refle	ctance
No Data Ava	ailable								
Skylight Location No Data Available	* schedu	<i>lle</i> Skylight	D S	kylight No.	Skylight length [n	shaft nm]	Area Ori [m²] atic	ent- Out on sha	door de Diffuser
External	door sc	hedule							
Location		н	eight [mm]	Widt	th [mm]		Opening %	Orienta	tion
No Data Ava	ailable								
External	wall typ	e							
Wall ID	Wall type			Solar absorptan	Wall ce [colo	shade ur]	Bulk insulation [R-value]		Reflective wall wrap*
1	1-7 Waterfro	nt - Concrete	Ext	0.5	Medi	um	Glass fibre batt density = 12 kg (R2.5)	(k = 0.044 /m3)	No
2	1-7 Waterfro Concrete Int	nt Place, Por	t Melbourne -	0.5	Medi	um	Glass fibre batt density = 12 kg/ (R1.8)	(k = 0.044 /m3)	No
3	1-7 Waterfro	nt - Plasterbo	pard Int	0.5	Medi	um	Glass fibre batt density = 12 kg (R2.5)	(k = 0.044 /m3)	No
External	wall sch	nedule				Horiz	zontal shading		
			Height	Width		featu	re* maximum	Vertica	l shading
Location		Wall I	D [mm]	[mm]	Orientati	on proje	ection [mm]	feature	* (yes/no)
Bedroom 1		1	2700	3755	Е	855		Yes	

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 4, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

8.9 Star Rating as of 23 Jan 2025

Bedroom 1	1	2700	2796	Ν	932	Yes
Bedroom 2	1	2700	3036	Ν	919	Yes
Bathroom	2	2700	2637	W	0	No
Laundry	2	2700	1222	W	0	No
Bedroom 3	3	2700	4394	W	0	No
Bedroom 3	1	2700	2996	N	6223	Yes
WIR 1	3	2700	2936	S	0	No
WIR 1	1	2700	4188	E	8410	Yes
WIR 1	1	2700	2559	E	830	Yes
Corridor	3	2700	3310	S	0	No
Entry	2	2700	1980	W	0	No
Entry	3	2700	3758	S	0	No
Kitchen/Living	3	2700	3964	S	0	No
Kitchen/Living	1	2700	5085	Ν	6182	Yes

# Internal wall type

Wall ID Wall type

FR5 - Internal Plasterboard Stud Wall

Area [m<sup>2</sup>] Bulk insulation 170.4

# Floor type

1

			Sub-floor	Added insulat	ion
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Bedroom 1	FR5 - 200mm concrete slab	10.5	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 200mm concrete slab	11.4	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab	4.8	Enclosed	R0.0	Tiles
Laundry	FR5 - 200mm concrete slab	2.2	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 200mm concrete slab	0.2	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 200mm concrete slab	13	Enclosed	R0.0	Carpet
Ensuite 1	FR5 - 200mm concrete slab	0.7	Enclosed	R0.0	Tiles
Ensuite 1	FR5 - 200mm concrete slab	8.4	Enclosed	R0.0	Tiles
WIR 1	FR5 - 200mm concrete slab	4.3	Enclosed	R0.0	Carpet
WIR 1	FR5 - 200mm concrete slab	4.9	Enclosed	R0.0	Carpet
Ensuite 2	FR5 - 200mm concrete slab	1.1	Enclosed	R0.0	Tiles
Ensuite 2	FR5 - 200mm concrete slab	3.6	Enclosed	R0.0	Tiles
WIR 2	FR5 - 200mm concrete slab	3.6	Enclosed	R0.0	Carpet
WIR 2	FR5 - 200mm concrete slab	5	Enclosed	R0.0	Carpet
Corridor 2	FR5 - 200mm concrete slab	4.3	Enclosed	R0.0	Timber
Corridor	FR5 - 200mm concrete slab	6.5	Enclosed	R0.0	Timber
Entry	FR5 - 200mm concrete slab	7.4	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	13.5	Enclosed	R0.0	Timber

NatHERS Certificate	e	8.9 Star Rating as of 23 Jan 2025					
Kitchen/Living	FR5 - 200mm concrete s	lab 38.4	Enclosed R0.0	Timber			
Ceiling type							
		Construction	Bulk insulation R-val	ue Reflective			
Location		material/type	[may include edge ba	itt values] wrap*			
Bedroom 1		Plasterboard	R2.8	No			
Bedroom 2		Plasterboard	R2.8	No			
Ensuite 1		Plasterboard	R2.8	No			
WIR 1		Plasterboard	R2.8	No			
Ensuite 2		Plasterboard	R2.8	No			
WIR 2		Plasterboard	R2.8	No			
Kitchen/Living		Plasterboard	R2.8	No			

# Ceiling penetrations\*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bedroom 1	4	Downlights	80	80	Sealed
Bedroom 2	5	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Laundry	1	Downlights	80	80	Sealed
Laundry	1	Exhaust Fans	250	250	Sealed
Bedroom 3	5	Downlights	80	80	Sealed
Ensuite 1	4	Downlights	80	80	Sealed
Ensuite 1	1	Exhaust Fans	250	250	Sealed
WIR 1	4	Downlights	80	80	Sealed
Ensuite 2	2	Downlights	80	80	Sealed
Ensuite 2	1	Exhaust Fans	250	250	Sealed
WIR 2	3	Downlights	80	80	Sealed
Corridor 2	2	Downlights	80	80	Sealed
Corridor	3	Downlights	80	80	Sealed
Entry	3	Downlights	80	80	Sealed
Kitchen/Living	21	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed

Quantity

# Ceiling fans

Location No Data Available

# Roof type

Diameter [mm]

	NatHERS Certificate			8.9 Star Rating as of 2	3 Jan 2025	
	Construction		Added insulation [R-value]	Solar absorptance	Roof shade [colour]	
	Slab:Slab - Suspended S Suspended Slab	Slab : 200mm: 200mm	0.0	0.5	Medium	
1	Thermal bridging	g schedule for stee	el frame element	8		
	Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]	
	No Data Available	$\sim$				
	Appliance sched	dule				
	(not applicable if a Whole of Home performance assessment is not conducted for this certificate). Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.					
	Cooling system					
	Appliance/ system type	Location	Mi Fuel type pe	inimum efficiency/ erformance	Recommended capacity	
	No Whole of Home perfo	ormance assessment conduc	ted for this certificate.			
	Heating system					
	Appliance/ system type	Location	Mi Fuel type pe	inimum efficiency/ erformance	Recommended capacity	
	No Whole of Home perfo	ormance assessment conduc	cted for this certificate.			
	No Whole of Home performed Hot water system	ormance assessment conduc	oted for this certificate.			
	No Whole of Home performed to the second sec	ormance assessment conduction of the second se	ted for this certificate. Inimum fficiency/ Hot V	Vater CER	Assessed daily	
	No Whole of Home performed by the water system	Fuel type p	ted for this certificate.	Vater CER Zone Zone 3 S	Assessed daily STC load	
	No Whole of Home performance/ Hot water system Appliance/ system type No Whole of Home performance/	Fuel type promance assessment conduction	teted for this certificate.	Vater CER Zone Zone 3 S	Assessed daily STC load	
	No Whole of Home performance Hot water system Appliance/ system type No Whole of Home performance Pool/spa equipment	Mei Fuel type pormance assessment conduction	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/	Assessed daily STC load	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home perfor Pool/spa equipment Appliance/ system type No Whole of Home perfor	Fuel type promance assessment conductions of the fuel type promance assessment conductions of type promance assessment conductions of type promance assessment conductions of type proma	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed	Fuel type p ormance assessment conduction Fuel type p ormance assessment conduction ormance assessment conduction	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed Onsite renewable	Fuel type p Fuel type p ormance assessment conduction pormance assessment conduction bormance assessment conduction bormance assessment conduction bormance assessment conduction	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed Onsite renewable (not applicable if a Whome	Fuel type p Fuel type p ormance assessment conduct ormance assessment conduct be energy schedule ole of Home performance a	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed Onsite renewable (not applicable if a Whole System type No Whole of Home performed No Whole of Home p	mance assessment conduct      M     e     Fuel type p      ormance assessment conduct      ormance assessment conduct      e     ormance assessment conduct      e     ormance assessment conduct      one performance assessment conduct      on	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed No Whole	Mei Fuel type p ormance assessment conduct ormance assessment conduct be energy schedule ole of Home performance assessment conduct ormance assessment conduct	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener	Assessed daily STC load Recommended capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed Battery schedule (not applicable if a Whole	Me Fuel type p ormance assessment conduct ormance assessment conduct ble of Home performance a ormance assessment conduct of Home performance a	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener	Assessed daily STC load Recommended capacity ation capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed Battery schedule (not applicable if a Whole System type	Image: Series of Home performance assessment conduction	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener cted for this certificate) Size [battery storage	Assessed daily STC load Recommended capacity ation capacity	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed System type No Whole of Home performed System type No Whole of Home performed System type	Image: Series of Home performance assessment conduction         Image: Series of Home performance a	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener cted for this certificate) Size [battery storage	Assessed daily STC load	
	No Whole of Home performed Hot water system Appliance/ system type No Whole of Home performed Pool/spa equipment Appliance/ system type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed (not applicable if a Whole System type No Whole of Home performed System type No Whole of Home performed System type No Whole of Home performed System type	Image: Series of Home performance assessment conduction         Image: Series of Home performance a	ted for this certificate.	Vater CER Zone Zone 3 S Minimum efficiency/ performance cted for this certificate) System size or gener cted for this certificate) Size [battery storage	Assessed daily STC load Recommended capacity ation capacity	

# Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 8.9 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 8.9 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees). a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\*

(eg eaves and balconies)
## Nationwide House Energy Rating Scheme® NatHERS® Certificate No. TOD0NC6ZPK

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

#### Property

Address

Sample 3, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Prepared by

### **Construction and environment**

Rev M

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 138.6 Unconditioned\* 4.4 Total 143 Garage - Exposure type suburban NatHERS climate zone 21 Melbourne RO

## **★** Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

# Thermal performance star rating



## 39.7 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	23.3	16.4
Load limits	N/A	N/A

#### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

## About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

## Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:
  - Yes
  - No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
  - NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable
    - Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

8.2 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 3, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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NACHERS	Certificate
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## 8.2 Star Rating as of 23 Jan 2025

Certificate check		Approval	stage	Construct stage	tion		
The checklist covers important items impacting the dwelling's ra It is recommended that the accuracy of the whole certificate is c	tings. hecked.	r checked	authority/ checked	hecked	authority/ checked	cy/other	
Note: The boxes indicate when and who should check each iten It is not mandatory to complete this checklist.	n.	Assesso	Consent surveyor	Builder c	Consent surveyor	Occupan	
Genuine certificate check							
Does this Certificate match the one available at the web address verification link on the front page?	s or QR code						
Does the NatHERS certificate number on the NatHERS-stampe number on this Certificate?	d plans match the						
Thermal performance check							G
Windows and glazed doors							
Does the window size, opening type and location shown on the stamped plans or as installed match what is shown in 'Window a schedule' and 'Roof window schedule' tables on this Certificate'	NatHERS- and glazed door ?		<b></b>				
Does the installed windows meet the substitution tolerances (AF SHGC* and U-values*) as shown in the 'Window and glazed do performance' and 'Roof window type and performance' tables of	RC* based or type and n this Certificate?						
External walls							
Does the external wall bulk insulation (R-value) shown on the N plans or as installed match what is shown in the External wall ty Certificate?	atHERS-stamped pe table on this						
Does the external wall shade (colour) match what is shown in the type' table on this Certificate?	ne 'External wall						
Floor							
Does the floor insulation (R-value) shown on the NatHERS-stan installed match what is shown in the 'Floor type' table on this ce	nped plans or as rtificate?						
Ceiling penetrations*							
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. down fans, etc) shown on the NatHERS-stamped plans or as installed shown in the 'Ceiling penetrations' table on this Certificate?	lights, exhaust I match what is						
Ceiling							
Does the ceiling insulation (R-value) shown on the NatHERS-sta installed match what is shown in the 'Ceiling type' table on this C	amped plans or as Certificate?						
Roof							
Does the external roof shade (colour) on the NatHERS stamped installed match what is shown in the 'Roof type' table on this Ce	d plans or as ertificate?						
Apartment entrance doors (NCC Class 2 assessment	ts only)						
Does the 'External Door Schedule' show apartment entrance do Please note that an "external door" between the modelled dwell space, such as an enclosed corridor or foyer, should not be inclu assessment (because it overstates the possible ventilation) and the Certificate.	oors? ing and a shared uded in the would invalidate						
Exposure*							
Has the appropriate exposure type (terrain) (shown on page 1) I example, it is unlikely that a ground-floor apartment is "exposed high-rise apartment is "protected".	been applied? For " or a top floor						
Heating and cooling load limits*							
Do the load limits settings (shown on page 1) match the values Standard 2022: NAtHERS heating and cooling load limits for the climate zone?	in the ABCB appropriate						

i	NatHERS Certificate	8.2 Star Rating as of 23 Jan 2025					
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
7	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q.				
	Whole of Home performance check (not applicable if a Whole of Home performance check	ormance as	sessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ar include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional rec and any sta	quirements	s that must	also be sat	isfied CC	

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8.2 Star Rating as of 23 Jan 2025

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## Room schedule

Room	Zone Type	Area [m²]
Bedroom 1	bedroom	12.5
Bedroom 2	bedroom	13.8
Corridor	dayTime	4.1
Bath	dayTime	5.9
Blankets	unconditioned	4.4
Entry	dayTime	11.9
Kitchen/Living	kitchen	56.6
Master Ensuite	nightTime	9.6
Master Bedroom	bedroom	12.1
Master WIR	dayTime	12.2

## Window and glazed door type and performance

Default\* windows

			Substitution to	lerance ranges
Window ID Window description	Maximum U-value* SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availa	ble			
Custom* windo	ws		Substitution to	lerance ranges

Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-057-13 A	Capral 900 Sliding Door DG 6EA/12Ar/6	3.19	0.48	0.46	0.5
CAP-055-52 A	Capral 419 Flushline Fixed Window DG 6/12Ar/6EA	2.71	0.58	0.55	0.61
CAP-051-06 A	Capral 35 Awning in 400 Frame DG 6EA/12Ar/6	4.42	0.41	0.39	0.43

## Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*
Bedroom 1	CAP-057-13 A	VV01	2700	2450	sliding	45.0	W	No
Bedroom 2	CAP-055-52 A	W04	1950	2100	fixed	0.0	W	No
Bedroom 2	CAP-051-06 A	Opening 21	1950	1000	awning	60.0	W	No
Kitchen/Living	CAP-057-13 A	W08	2700	1600	sliding	45.0	W	No
Kitchen/Living	CAP-055-52 A	W05	1950	1420	fixed	0.0	W	No
Kitchen/Living	CAP-051-06 A	Opening 22	1950	1420	awning	60.0	W	No
Master Bedroom	CAP-057-13 A	W09	2700	2350	sliding	45.0	W	No
								The second se

8.2 Star Rating as of 23 Jan 2025

# Roof window\* type and performance value

Substitution tolerance ranges         Maximum No Data Available       Maximum U-value*       SHGC       SHGC lower limit       SHGC upper limit         Custom* roof windows       Substitution tolerance ranges       Substitution tolerance ranges       Substitution tolerance ranges         Window ID       Window description       U-value*       SHGC*       SHGC lower limit       SHGC upper limit         No Data Available       Window description       U-value*       SHGC*       SHGC lower limit       SHGC upper limit         No Data Available       Window description       U-value*       SHGC*       SHGC lower limit       SHGC upper limit         No Data Available       Window ID       Window no.       No       % [m²]       [mm]       Outdoor       Indoor         Skylight ID       No Data Available       Skylight description       Skylight shaft       Skylight shaft       Skylight shaft       Outdoor       findoor         Skylight ID       Skylight No       Skylight No       Skylight Shaft       Area       Orient-       Outdoor       finduor         No Data Available       Skylight No       Skylight No       findun       Mid finduor       orient-       Outdoor       finduor         No Data Available       Skylight No       finduor       Mid finduor	Default" roof windows					
Window ID       Window description       Maximum U-value*       SHGC       Ised upper limit       SHGC upper limit         No Data Available       Substitution to lerance ranges         Custom* roof windows       SHGC       SHGC lower limit       SHGC upper limit         Window ID       Window description       U-value*       SHGC       SHGC lower limit       SHGC upper limit         No Data Available       Window ID       Window description       SHGC*       SHGC*       Indoor         No Data Available       Window ND       Window no.       % [m³]       Mindio       Indoor       Indoor         No Data Available       Skylight type and performance       Skylight description       Skylight shaft       Area       Orient-       Outdoor       Shade       Diffuser         No Data Available       Skylight shaft       Area       Orient-       Outdoor       Shade       Diffuser         No Data Available       Skylight shaft       Area       Orient-       Outdoor       Shade       Diffuser         No Data Available       Skylight film       Skylight shaft       Area       Orient-       Outdoor       Diffuser         No Data Available       Skylight film       Skylight film       Opening %       Orientation       Mindow       Mindow					Substitution t	olerance ranges
Window ID       Window description       U-value*       SHGC*       Of Color Month Minik       Color Oppontunities         No Data Available       SHGC*       Of Color Mindows       SHGC*			Maximum		SHGC lower limit	SHGC upper limit
No Data Available         Substitution tolerance ranges         Maximum Uvalue*       SHGC       SHGC lower limit       SHGC upper limit         No Data Available       SHGC lower limit       SHGC upper limit       SHGC upper limit         Roof window* schedule       Opening Area       With       Outdoor       Indoor         No Data Available       Skylight*       Outdoor       Indoor       Indoor         Skylight* type and performance         Skylight*       Skylight description       Skylight shaft reflectance         No Data Available       Skylight description       Skylight shaft reflectance         Skylight*       Skylight shaft       Area       Orient-       Outdoor       Indoor         No Data Available       Skylight No       Indoor       Skylight shaft       Area       Orient-       Outdoor         Skylight* schedule         Location       Skylight No       Indoor       Skylight Skaft       Orient       Outdoor         No Data       Available       Skylight No       Indoor       Skylight Skaft       Orient-       Outdoor         No Data       Available       Skylight No       Indoor       Skylight Skaft       Orientation       Skaft	Window ID	Window description	U-value*	SHGC*		of teo upper infint
Substitution tolerance ranges         Maximum U-value*       SHGC lower limit       SHGC upper limit         No Data Available       SHGC lower limit       SHGC upper limit         Short window visitable         Source windows schedule         Skylight % type and performance         Skylight * type and performance       Skylight description       Skylight shaft reflectance         No Data Available       Skylight shaft       Area       Orient       Outdoor       Outdoor         Skylight * type and performance       Skylight description       Skylight shaft reflectance       Skylight shaft       Orient       Outdoor       Indoor         Skylight b       Skylight Mo       Skylight shaft       Area       Orient       Outdoor       Outdoor         No Data Available       Skylight No. tength [mm]       [m²] ation       Shade       Diffuser         No Data Available       Skylight No. tength [mm]       [m²] ation       Shade       Diffuser         No Data Available       Skylight No. tength [mm]       [m²] ation       Shade       Diffuser         No Data Available       Skylight No. tength [mm]       [m²] ation       Shade       Diffuser         Kotata Available       Stortan (mm]       Vidth [mm]       Opening	No Data Available					
Substitution tolerance ranges         Maximum U-value*       SHGC       SHGC lower limit       SHGC upper limit         No Data Available       SHGC window       SHGC lower limit       SHGC upper limit         Cocation       Window ID       Window no.       Opening Area % [m²]       Width       Outdoor       Indoor         Skolight*       Schedule       Skylight film       Outdoor       Indoor       Indoor         No Data Available       Skylight description       Skylight shaft       Skylight shaft       Area       Orient-       Outdoor         Skylight is       Schedule       Skylight shaft       Area       Orient-       Outdoor       Outdoor         No Data Available       Skylight No. length [mm]       Skylight shaft       Area       Orient-       Outdoor         Skylight is       Skylight No. length [mm]       Mith (mm]       Opening %       Orientation         No Data Available       Skylight No. length [mm]       Opening %       Orientation         Skylight No       Skylight No. length [mm]       Opening %       Orientation         No Data Available       Skylight No. length [mm]       Opening %       Orientation         Stata Available       Height [mm]       Width [mm]       Opening %       Orientation </td <td>Custom* roof windows</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Custom* roof windows					
Maximum U-value*       SHGC       SHGC lower limit       SHGC upper limit         No Data Available       Roof window* schedule       Opening Area % [m²]       Nidth       Outdoor       Indoor         Location       Window ID       Window no.       % [m²]       [mm]       Orientation       shade       shade         No Data Available       Skylight V       Skylight description       Skylight shaft       Skylight shaft       orientation       shade       shade         Skylight V       Skylight ID       Skylight No.       Skylight shaft       Area       Orient-       Outdoor       Diffuser         No Data Available       Skylight No.       Skylight shaft       Area       Orient-       Outdoor       Diffuser         No Data Available       Skylight No.       Skylight Shaft       Area       Orient-       Outdoor       Diffuser         No Data Available       Skylight ID       Skylight ID       Skylight Im       Opening % Orientation       Orientation         No Data Available       Height [mm]       Width [mm]       Opening % Orientation       Shade       Diffuser         No Data Available       Height [mm]       Width [mm]       Opening % Orientation       Shade       Diffuser         Mol Ido       Height [mm]       S					Substitution t	olerance ranges
Window ID       Window description       U-value*       SHGC*         No Data Available         Roof window* schedule         Location       Window ID       Window no.       % [m²] [mm]       Orientation shade       Indoor         No Data Available       Skylight * type and performance       % [m²] [mm]       Orientation       Skylight shaft       Skylight shaft       Skylight shaft       Area       Orient-       Outdoor       Indoor         No Data Available       Skylight description       Skylight shaft       Area       Orient-       Outdoor       Indoor         Skylight*       schedule       Skylight description       Skylight shaft       Area       Orient-       Outdoor         No Data Available       Skylight ID       Skylight No.       length [mm]       [m²] ation       shade       Diffuser         No Data       Available       Skylight ID       Skylight No.       length [mm]       [m²] ation       shade       Diffuser         No Data       Available       Valiable       Valiable       Opening %       Orientation         External door schedule       Solar       Valiabla       Solar       Wali shade       Bulk insulation       Reflective wali         Wali 1D       Wali 1D       Wali type       <			Maximum		SHGC lower limit	SHGC upper limit
No Data Available         Opening Area Width Orientation Shade Shade         Support on Shade Shade         Skylight Mow no.       % [m²] [mm] Orientation Shade Shade         No Data Available       Skylight description       Skylight shaft reflectance         Skylight K pe and performance         Skylight K       Skylight description       Skylight shaft reflectance         No Data Available       Skylight description       Skylight shaft reflectance         Skylight K schedule         Location       Skylight ID       Skylight No. length [mm]       Area Orient Outdoor Shade Diffuser         No Data Available       Skylight No. length [mm]       Medium       Opening % Orientation         No Data Available       Skylight No. length [mm]       Opening % Orientation       Diffuser         External door schedule       Skylight ID       Skylight [m]       Opening % Orientation       No         No Data Available       Solar Available       Solar Bulk insulation       Reflective wall wrap*         Mall ID       Wall type       Solar Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Window ID	Window description	U-value*	SHGC*		
Koof window* schedule       Opening Area       Width       Outdoor       Indoor	No Data Avaliable					
Location       Window ID       Window no.       Opening Area (m²)       Width (mm)       Outdoor (m²)       Indoor (m²)         No Data Available       Skylight <i>type and performance</i> Skylight <i>type and performance</i> Skylight description       Skylight shaft reflectance         No Data Available       Skylight description       Skylight shaft reflectance       Skylight shaft reflectance         Skylight <i>schedule</i> Skylight No. length (mm)       Area Orient Outdoor shade       Outdoor Diffuser         No Data Available       Skylight No. length (mm)       Mrea Orient Outdoor Shade       Oitdoor Shade         External door schedule       Vidth (mm)       Opening % Orientation       Orientation         No Data Available       Height (mm)       Width [mm]       Opening % Orientation         No Data Available       Skylight No. length (mm)       Midth [mm]       Reflective wall wall type         No Data Available       Solar available       Solar Bulk insulation (R-value)       Reflective wall wrap*	Poof window*	schedule				
Location     Window ID     Window no.     % [m²]     Internation     Orientation     State       No Data Available     Skylight / full     Skylight / full     Skylight shaft     Skylight shaft     shade       Skylight*     full     Skylight description     Skylight shaft     Skylight shaft     Area       No Data Available     Skylight shaft     Skylight shaft     Area     Orient-     Outdoor       Skylight*     Skylight ID     Skylight No.     Iength [mm]     Imm]     Area     Orient-       No Data     Skylight ID     Skylight No.     Iength [mm]     [m²]     ation     Shade       No Data     Available     Skylight No.     Iength [mm]     Imm]     Opening %     Orientation       No Data     Available     Skylight No.     Iength [mm]     Imm]     Opening %     Orientation       No Data     Available     Width [mm]     Opening %     Orientation     Orientation       No Data Available     Solar     Wall shade     Bulk insulation     Reflective wall       Wall ID     Wall type     Solar     Wall shade     Bulk insulation     Reflective wall       1     1-7     Waterfront - Plasterboard Int     0-5     Medium     No	ROOI WINDOW 3	Schedule	Opening Area	Width	Outde	oor Indoor
No Data Available         Skylight* type and performance Skylight ID       Skylight description       Skylight shaft reflectance         No Data Available       Skylight shaft       Area       Orient-       Outdoor         Skylight* schedule       Skylight No. length [mm]       Mean       Shafe       Diffuser         No Data Available       Skylight No. length [mm]       Mean       Orient-       Outdoor       Diffuser         Ko Data Available       Skylight ID       Skylight No. length [mm]       Opening %       Orientation       Diffuser         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation       Medium       <	Location Windo	w ID Window no.	% [m²]	[mm]	Orientation shade	e shade
Skylight * type and performance         Skylight ID       Skylight description       Skylight shaft reflectance         No Data Available       Skylight shaft       Area       Orient-       Outdoor         Skylight * schedule       Skylight No. length [mm]       Mrea       Orient-       Outdoor         No Data       Skylight ID       Skylight No. length [mm]       Mrea       Orient-       Outdoor         No Data       Available       Kylight No. length [mm]       Mrea       Orientation       Shade       Diffuser         No Data       Available       Kylight ID       Skylight No. length [mm]       Opening %       Orientation       Diffuser         Kotata Available       Height [mm]       Width [mm]       Opening %       Orientation       Mrea       Mrea </td <td>No Data Available</td> <td></td> <td></td> <td></td> <td></td> <td></td>	No Data Available					
Skylight * type and performance         Skylight 10       Skylight description       Skylight shaft reflectance         No Data Available       Skylight shaft       Area       Orient-       Outdoor         Skylight * schedule       Skylight No. length [mm]       [m²]       ation       shade       Diffuser         Location       Skylight ID       Skylight No. length [mm]       [m²]       ation       shade       Diffuser         Ketternal door schedule       Kylight [mm]       Width [mm]       Opening %       Orientation         Location       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall         Wall 1D       Wall type       Solar       Mall shade       Bulk insulation       Reflective wall         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No       No						
Skylight ID       Skylight description       Skylight shaft reflectance         No Data Available       Skylight shaft       Area       Orient-       Outdoor         Location       Skylight ID       Skylight No. length [mm]       Imm]       Imm]       Outdoor         No Data       Skylight ID       Skylight No. length [mm]       Imm]       Imm]       Outdoor         No Data       Available       Skylight No. length [mm]       Imm]       Opening %       Orientation         Ko Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall         Mo Data Available       Solar       Wall shade       Bulk insulation       Reflective wall         Mail ID       Wall type       Solar       Mall shade       Bulk insulation       Reflective wall         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No       No	Skylight* type a	and performance				
No Data Available         Skylight * schedule       Skylight shaft       Area       Orient-       Outdoor         Location       Skylight ID       Skylight No. length [mm]       [m²]       ation       Shade       Diffuser         No Data Available       Skylight No. length [mm]       [m²]       ation       Shade       Diffuser         External door schedule       Ketternal door schedule       Vidth [mm]       Opening %       Orientation         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         Mali 1D       Wall type       Solar       Medium       No       No         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Skylight ID		Skylight descript	tion	Skylight shaft r	eflectance
Skylight* schedule       Skylight shaft       Area       Orient-       Outdoor         No Data       Skylight ID       Skylight No. length [mm]       [m²]       ation       shade       Diffuser         External door schedule         Location       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	No Data Available					
Skylight* schedule       Skylight shaft       Area       Orient-       Outdoor         Location       Skylight ID       Skylight No. length [mm]       [m²]       ation       shade       Diffuser         No Data       Available       Skylight No. length [mm]       [m²]       ation       shade       Diffuser         External door schedule       Votation       Width [mm]       Opening %       Orientation         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         Mall ID       Wall type       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No						
Location       Skylight ID       Skylight No.       length [mm]       Area orient- [m²]       Outdoor ation       Outdoor shade       Diffuser         No Data Available       Available       Vieth [mm]       Vieth [mm]       Opening %       Orientation         External door schedule       Vieth [mm]       Vieth [mm]       Opening %       Orientation         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         Mall ID       Wall type       Solar       Mali shade       Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No       No	Skylight* sched	dule				
Location       Skylight ID       Skylight No. length [mm]       [m²] ation       shade       Diffuser         No Data       Available       External door schedule       Image: Solar available       Width [mm]       Opening %       Orientation         No Data Available       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar available       Wall shade       Bulk insulation [R-value]       Reflective wall wrap*         Wall ID       Wall type       Solar absorptance       Icolury       Bulk insulation [R-value]       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No						
No Data       Available         External door schedule       Vidth [mm]       Opening %       Orientation         Location       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         Wall ID       Wall type       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No			Skylig	ht shaft	Area Orient-	Outdoor
External door schedule       Width [mm]       Opening %       Orientation         Location       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       External wall type       Solar absorptance [colour]       Bulk insulation [R-value]       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Location	Skylight ID	Skylig Skylight No. length	ht shaft [mm]	Area Orient- [m²] ation	Outdoor shade Diffuser
External door schedule         Location       Height [mm]       Width [mm]       Opening %       Orientation         No Data Available       No Data Available       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         Wall ID       Wall type       Solar       Wall shade       Bulk insulation       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Location No Data Available	Skylight ID	Skylig Skylight No. length	ht shaft [mm]	Area Orient- [m²] ation	Outdoor shade Diffuser
Location     Height [mm]     Width [mm]     Opening %     Orientation       No Data Available     Solar     Wall shade     Bulk insulation     Reflective wall       Wall ID     Wall type     Solar     Wall shade     Bulk insulation     Reflective wall       1     1-7 Waterfront - Plasterboard Int     0.5     Medium     No	Location No Data Available	Skylight ID	Skylig Skylight No. length	ht shaft [mm]	Area Orient- [m²] ation	Outdoor shade Diffuser
No Data Available         External wall type       Solar absorptance       Wall shade [colour]       Bulk insulation [R-value]       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Location No Data Available	Skylight ID	Skylig Skylight No. length	ht shaft [mm]	Area Orient- [m²] ation	Outdoor shade Diffuser
Wall ID       Wall type       Solar absorptance       Wall shade [colour]       Bulk insulation [R-value]       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Location No Data Available External door s Location	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm	ht shaft [mm]	Area Orient- [m²] ation	Outdoor shade Diffuser
Wall ID       Wall type       Solar absorptance       Wall shade [colour]       Bulk insulation [R-value]       Reflective wall wrap*         1       1-7 Waterfront - Plasterboard Int       0.5       Medium       No	Location No Data Available External door s Location No Data Available	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm	ht shaft [mm] ]	Area Orient- [m²] ation Opening % Orie	Outdoor shade Diffuser entation
Wall ID     Wall type     Solar absorptance     Wall shade [colour]     Bulk insulation [R-value]     Reflective wall wrap*       1     1-7 Waterfront - Plasterboard Int     0.5     Medium     No	Location No Data Available External door s Location No Data Available	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm	ht shaft [mm] ]	Area Orient- [m²] ation Opening % Orie	Outdoor shade Diffuser entation
Wall ID         Wall type         absorptance         [colour]         [R-value]         wrap*           1         1-7 Waterfront - Plasterboard Int         0.5         Medium         No	Location No Data Available External door s Location No Data Available External wall ty	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm	ht shaft [mm] ]	Area Orient- [m²] ation Opening % Orie	Outdoor shade Diffuser entation
1 1-7 Waterfront - Plasterboard Int 0.5 Medium No	Location No Data Available External door s Location No Data Available External wall <i>ty</i>	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm	ht shaft [mm] ] all shade E	Area Orient- [m²] ation Opening % Orie	Outdoor shade Diffuser entation Reflective wall
	Location No Data Available External door s Location No Data Available External wall ty Wall ID Wall type	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm Solar Wa absorptance [co	ht shaft [mm] ] all shade B plour] [I	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value]	Outdoor shade Diffuser entation Reflective wall wrap*
2 1-7 Waterfront - Concrete Ext 0.5 Medium Glass fibre batt: R2.5 No	Location         No Data         Available         External door s         Location         No Data Available         External wall type         Wall ID       Wall type         1       1-7 Water	Skylight ID Schedule Height [mm]	Skylig Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Me	ht shaft [mm] ] all shade E plour] [l edium	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value]	Outdoor shade Diffuser entation Reflective wall wrap* No
(R2,5)	Location No Data Available  External door s Location No Data Available  External wall ty Wall ID Wall type 1 1-7 Water 2 1-7 Water	Skylight ID Schedule Height [mm] Vpe front - Plasterboard Int front - Concrete Ext	Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma	ht shaft [mm] ] all shade E blour] [l edium	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5	Outdoor shade Diffuser entation Reflective wall wrap* No
	Location         No Data         Available         External door s         Location         No Data Available         External wall type         1         1-7 Water         2       1-7 Water	Skylight ID Schedule Height [mm] VPC front - Plasterboard Int front - Concrete Ext	Skylig Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Me 0.5 Me	all shade E blour] [I edium ( edium (	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5)	Outdoor shade Diffuser entation Reflective wall wrap* No No
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	Location No Data Available  External door s Location No Data Available  External wall type 1 1-7 Water 2 1-7 Water	Skylight ID Schedule Height [mm] Vpe front - Plasterboard Int front - Concrete Ext Chedule	Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma	ht shaft [mm] ] all shade E blour] [I edium edium ( (	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5)	Outdoor       shade     Diffuser       entation
Height Width feature* maximum Vertical shading	Location No Data Available  External door s Location No Data Available  External wall type 1 1-7 Water 2 1-7 Water External wall s	Skylight ID Schedule Height [mm] VPC front - Plasterboard Int front - Concrete Ext Chedule	Skylig Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Me 0.5 Me	ht shaft [mm] ] all shade E blour] [l edium ( edium ( Horizo featur	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5)	Outdoor shade Diffuser entation Reflective wall wrap* No No
Height Width feature* maximum Vertical shading Location Wall ID [mm] [mm] Orientation projection [mm] feature* (yes/no)	Location No Data Available  External door a Location No Data Available  External wall ty Mail ID Wall type 1 1-7 Water 2 1-7 Water External wall s Location	Skylight ID Schedule Height [mm] VPC front - Plasterboard Int front - Concrete Ext Chedule Heigh Wall ID [mm]	Skylig Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma 0.5 Ma	ht shaft [mm] ] all shade E blour] [I edium edium ( Horizo featur ration project	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5) Ontal shading e* maximum Ver	Outdoor shade Diffuser entation Reflective wall wrap* No No No
HeightWidthfeature* maximumVertical shadingLocationWall ID[mm][mm]Orientationprojection [mm]feature* (yes/no)Bedroom 1127004336S0No	Location No Data Available  External door s Location No Data Available  External wall type 1 1-7 Water 2 1-7 Water 2 1-7 Water Cxternal wall s	Skylight ID Schedule Height [mm] Ape front - Plasterboard Int front - Concrete Ext Chedule Kall ID [mm] 1 2700	Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma 0.5 Ma t Width [mm] Orient 4336 S	all shade E [mm] ] all shade E blour] [l edium ( edium ( Horizo featur ation project	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5) Ontal shading e* maximum Ver ction [mm] feat	Outdoor shade Diffuser entation Reflective wall wrap* No No tical shading ture* (yes/no)
Height Width feature* maximum Vertical shading Location Wall ID [mm] [mm] Orientation projection [mm] feature* (yes/no)	Location No Data Available  External door s Location No Data Available  External wall type 1 1-7 Water 2 1-7 Water External wall s Location	Skylight ID Schedule Height [mm] Vpe front - Plasterboard Int front - Concrete Ext Chedule Heigh Wall ID [mm]	Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma 0.5 Ma	all shade E [mm] ] all shade E blour] [l edium edium ( Horizo featur ration project	Area Orient- [m²] ation Opening % Orie Bulk insulation R-value] Glass fibre batt: R2.5 R2.5) Ontal shading e* maximum Ver	Outdoor shade Diffuser entation Reflective wall wrap* No No No
HeightWidthfeature* maximumVertical shadingLocationWall ID[mm][mm]Orientationprojection [mm]feature* (yes/no)Bedroom 1127004336S0No	Location No Data Available  External door a Location No Data Available  External wall type 1 1-7 Water 2 1-7 Water 2 1-7 Water Cxternal wall so Location Bedroom 1	Skylight ID Schedule Height [mm] //Pe front - Plasterboard Int front - Concrete Ext Chedule Kall ID [mm] 1 2700	Skylight No. length Width [mm Solar Wa absorptance [cc 0.5 Ma 0.5 Ma 0.5 Ma t Width [mm] Orient 4336 S	all shade E [mm] ] all shade E blour] [l edium ( edium ( Horizo featur ation project	Area       Orient- [m²]         ation         Opening %       Orienticle         Bulk insulation         R-value]         Glass fibre batt:       R2.5         Bulk insulation         R-value]         Contal shading         e* maximum       Ver         ction [mm]       feat         No	Outdoor shade Diffuser entation Reflective wall wrap* No No tical shading ture* (yes/no)

8.2 Star Rating as of 23 Jan 2025

Bedroom 1	2	2700	3066	W	4765	Yes
Bedroom 2	2	2700	3173	W	1267	Yes
Corridor	1	2700	3535	S	0	No
Entry	1	2700	2760	S	0	No
Entry	1	2700	4312	E	0	No
Kitchen/Living	1	2700	5277	Е	0	No
Kitchen/Living	2	2700	2234	W	4705	Yes
Kitchen/Living	2	2700	3042	W	1271	Yes
Master Ensuite	1	2700	4882	Ν	0	No
Master Bedroom	1	2700	3737	Ν	0	No
Master Bedroom	2	2700	3239	W	4685	Yes
Master WIR	1	2700	3266	Е	0	No
Master WIR	1	2700	1958	Ν	0	No

## Internal wall type

Wall ID	Wall type		Area [m <sup>2</sup> ]	Bulk insulation	
1	1-7 Waterfront Place, Port Plasterboard Stud Wall	Melbourne - Internal	136.3		

## Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Bedroom 1	FR5 - 200mm concrete slab	1.2	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - 200mm concrete slab	11.3	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 200mm concrete slab	2	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 200mm concrete slab	11.8	Enclosed	R0.0	Carpet
Corridor	FR5 - 200mm concrete slab	4.1	Enclosed	R0.0	Timber
Bath	FR5 - 200mm concrete slab	5.9	Enclosed	R0.0	Tiles
Blankets	FR5 - 200mm concrete slab	4.4	Enclosed	R0.0	Tiles
Entry	FR5 - 200mm concrete slab	11.9	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	37	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	19.6	Enclosed	R0.0	Timber
Master Ensuite	FR5 - 200mm concrete slab	9.6	Enclosed	R0.0	Tiles
Master Bedroom	FR5 - 200mm concrete slab	12.1	Enclosed	R0.0	Carpet
Master WIR	FR5 - 200mm concrete slab	12.2	Enclosed	R0.0	Carpet

## Ceiling type

	Construction	Bulk insulation R-	value	Reflective
Location	material/type	[may include edge	batt values]	wrap*
Bedroom 1	Plasterboard	R2.8		No
Bedroom 2	Plasterboard	R2.8		No

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 3, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

			8.2 Star Rati	ng as of 2	3 Jan 2025	
Kitchen/Living		Plasterboard	D2 8		No	
Master Bedroom		Plasterboard	P2 8		No	
		Plasterboard	RZ.0		NO	
Ceiling penetration	15*					
			Height	Width		
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed	I
Bedroom 1	5	Downlights	80	80	Sealed	
Bedroom 2	5	Downlights	80	80	Sealed	
Corridor	2	Downlights	80	80	Sealed	
Bath	1	Exhaust Fans	250	250	Sealed	
Bath	2	Downlights	80	80	Sealed	
Blankets	2	Downlights	80	80	Sealed	
Entry	5	Downlights	80	80	Sealed	
Kitchen/Living	1	Exhaust Fans	250	250	Sealed	
Kitchen/Living	28	Downlights	80	80	Sealed	
Master Ensuite	1	Exhaust Fans	250	250	Sealed	
Master Ensuite	4	Downlights	80	80	Sealed	
Master Bedroom	5	Downlights	80	80	Sealed	
Master WIR	5	Downlights	80	80	Sealed	
Ceiling fans		Q	uantity		Diameter [m	ım]
No Data Available						
Roof type						
		Added insulation				/ our
Construction		[P-value]	Solar absor	ntanco	Poof shado Icol	Jui
Construction Slab:Slab - Suspended Slab	: 200mm: 200mm	[R-value]	Solar absor	ptance	Roof shade [col	
Construction Slab:Slab - Suspended Slab Suspended Slab	: 200mm: 200mm	[ <b>R-value]</b> 0.0	Solar absor	ptance	Roof shade [colo	
Construction Slab:Slab - Suspended Slab Suspended Slab	: 200mm: 200mm	[R-value] 0.0	Solar absor	ptance 5	Roof shade [colo Medium	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S	chedule for stee	[R-value] 0.0 I frame elements	Solar absor 0. S	ptance	Roof shade [colo	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St	2: 200mm: 200mm Schedule for stee eel section dimensions	[R-value] 0.0 I frame elements	Solar absor 0. S Steel thickn	ptance 5 ess	Roof shade [cold Medium Thermal break	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging s St Building element [ht	c: 200mm: 200mm chedule for stee eel section dimensions eight x width, mm]	[R-value] 0.0 <i>frame elements</i> Frame spacing [mm] 900	Solar absor 0. S Steel thickn [BMT,mm] 1 50	ptance 5 ess	Roof shade [cold Medium Thermal break [R-value]	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [ht Cathedral ceiling/flat roof 20	s : 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 20 x 75	[R-value] 0.0 2 <i>f frame elements</i> Frame spacing [mm] 900	Solar absor 0. S Steel thickn [BMT,mm] 1.50	ptance 5 ess	Roof shade [cold Medium Thermal break [R-value] 0	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [ht Cathedral ceiling/flat roof 20 Appliance schedul	s: 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 20 x 75	[R-value] 0.0 2 <i>f frame element</i> : Frame spacing [mm] 900	Solar absor 0. S Steel thickn [BMT,mm] 1.50	ptance 5 ess	Roof shade [cold Medium Thermal break [R-value] 0	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [ht Cathedral ceiling/flat roof 20 Appliance schedul (not applicable if a Whole of	s: 200mm: 200mm Schedule for stee reel section dimensions eight x width, mm] 20 x 75 'e of Home performance as	[R-value] 0.0 2) frame elements Frame spacing [mm] 900 Sessment is not conduct	Solar absor 0. S Steel thickn [BMT,mm] 1.50 cted for this ce	ptance 5 ess ertificate)	Roof shade [colo Medium Thermal break [R-value] 0	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [ht Cathedral ceiling/flat roof 20 Appliance schedul (not applicable if a Whole of Note: A flat assumption of 5W	5: 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 00 x 75 Ye of Home performance as V/m2 is used for lighting,	[R-value] 0.0 21 frame elements Frame spacing [mm] 900 ssessment is not conduct therefore lighting is not in	Solar absor 0. S Steel thickn [BMT,mm] 1.50 Cted for this ce cluded in the ap	ess ertificate)	Roof shade [colo Medium Thermal break [R-value] 0 hedule.	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [ht Cathedral ceiling/flat roof 20 Appliance schedul (not applicable if a Whole of Note: A flat assumption of 5V	5 : 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 00 x 75 Ve of Home performance as V/m2 is used for lighting,	[R-value] 0.0 21 frame elements Frame spacing [mm] 900 Ssessment is not conduct therefore lighting is not in	Solar absor 0. S Steel thickn [BMT,mm] 1.50 Cted for this ce cluded in the ap	ptance 5 ess ertificate) opliance sc	Roof shade [colo Medium Thermal break [R-value] 0	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging s t Building element [h Cathedral ceiling/flat roof 20 Appliance schedul (not applicable if a Whole of Note: A flat assumption of 5V Cooling system	5: 200mm: 200mm Schedule for stee seel section dimensions eight x width, mm] D0 x 75 Ve of Home performance as V/m2 is used for lighting,	[R-value] 0.0 2) frame elements Frame spacing [mm] 900 ssessment is not conduct therefore lighting is not in	Solar absor 0. S Steel thickn [BMT,mm] 1.50 Cted for this ce cluded in the ap	ptance 5 ess prtificate) opliance sc	Roof shade [cold Medium Thermal break [R-value] 0 hedule.	
Construction Slab:Slab - Suspended Slab Suspended Slab Thermal bridging S St Building element [h Cathedral ceiling/flat roof 20 Appliance schedul (not applicable if a Whole of Note: A flat assumption of 5V Cooling system	5: 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 00 x 75 Ve of Home performance as V/m2 is used for lighting, Location	[R-value] 0.0 2) frame elements Frame spacing [mm] 900 ssessment is not conduct therefore lighting is not in Fuel type pe	Solar absor 0. S Steel thickn [BMT,mm] 1.50 cted for this ce cluded in the ap inimum efficien	ptance 5 ess ertificate) opliance sc ncy/	Roof shade [colo Medium Thermal break [R-value] 0 hedule. Recommended capacity	
Construction         Slab:Slab - Suspended Slab         Suspended Slab         Thermal bridging S         St         Building element         Cathedral ceiling/flat roof 20         Appliance schedul         Note: A flat assumption of 50         Cooling system         Appliance/ system type         No Whole of Home performant	5: 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 00 x 75 Ve of Home performance as V/m2 is used for lighting, Location ance assessment conduct	[R-value] 0.0 21 frame elements Frame spacing [mm] 900 ssessment is not conduct therefore lighting is not in Fuel type per ted for this certificate.	Solar absor 0. S Steel thickn [BMT,mm] 1.50 cted for this ce cluded in the ap inimum efficien	ptance 5 ess ertificate) opliance sc ncy/	Roof shade [colo Medium Thermal break [R-value] 0 hedule. Recommended capacity	
Construction         Slab:Slab - Suspended Slab         Suspended Slab         Thermal bridging S         St         Building element         [h]         Cathedral ceiling/flat roof         Appliance schedul         (not applicable if a Whole of         Note: A flat assumption of 5W         Cooling system         Appliance/ system type         No Whole of Home performance	s: 200mm: 200mm Schedule for stee eel section dimensions eight x width, mm] 00 x 75 Ve of Home performance as V/m2 is used for lighting, Location ance assessment conduct	[R-value]         0.0         ef frame element:         Frame spacing [mm]         900         ssessment is not conduct         therefore lighting is not in         Fuel type         ted for this certificate.	Solar absor 0. S Steel thickn [BMT,mm] 1.50 cted for this ce cluded in the ap inimum efficient erformance	ptance 5 ess ertificate) opliance sc ncy/	Roof shade [colo Medium Thermal break [R-value] 0 hedule. Recommended capacity	

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 3, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

	NatHERS Certificate			8.2 Star Ratin	g as of 23 Jan :	2025	
	Heating system			Minimum efficien	cv/ Rec	ommended	
	Appliance/ system type	Location	Fuel type	performance	capa	acity	
	No Whole of Home perform	ance assessment c	onducted for this certification	ate.			
	Hot water system		Minimum				
			efficiency/	Hot Water CER		Assessed daily	
	Appliance/ system type	Fuel type	performance	Zone	Zone 3 STC	load	_
ſ	No Whole of Home perform	ance assessment c	onducted for this certification	ate.			
	Pool/spa equipment						
	Appliance/ system type		Fuel type	Minimum effi performance	iciency/ Reco capa	ommended acity	
	No Whole of Home perform	ance assessment c	onducted for this certifica	ate.			
						-	
	Onsite renewable	enerav sche	dule				
	(not applicable if a Whole	of Home performa	nce assessment is not	conducted for this cer	rtificate)		
	System type		Orientation	System size	or generation c	apacity	
	No Whole of Home perform	ance assessment c	onducted for this certifica	ate.			
	Battery schedule						
	(not applicable if a Whole	of Home performa	nce assessment is not	conducted for this cer	rtificate)		
	System type			Size Ibattery	storano canaci	tvl	
	No Whole of Home perform	ance assessment o	anducted for this certific:	Size [battery	Storage capaci	ty	
	No Whole of Home perform			ale.			

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 8.2 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
V	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 8.2 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

.....

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 3, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

## Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. D8TGCONNM6

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

#### Property

Address

Sample 5, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Prepared by

### **Construction and environment**

Rev M

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 156.5 Unconditioned\* 5.9 Total 162.4 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

## Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating

6.9 The more stars the more energy efficient

63 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	52.3	10.7
Load limits	55	38

#### Features determining load limits

Floor type	N
(lowest conditioned area)	
NCC climate zone 1 or 2	Y
Outdoor living area	Y
Outdoor living area ceiling fan	Y

#### Whole of Home performance rating

IA

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5, 5,5,5a (3,22) for Sample 5, 1-7 (

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 5, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Page 1 of 12

## About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

## Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
  - NA Not Applicable
- NCC climate Zone 1 or 2:
  - Yes
  - No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
  - NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No
  - NA not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.9 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 5, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHER	RS Certifi	cate

## 6.9 Star Rating as of 23 Jan 2025

Certificate check	Appro	oval stage	Constructi stage	ion		
The checklist covers important items impacting the dwelling's rational to be accuracy of the whole certificate is checklist covers.	ngs. av ecked. vo	authority/ checked	lecked	authority/ checked	:y/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assessor	Consent a surveyor d	Builder ch	Consent a surveyor o	Occupand	1
Genuine certificate check						
Does this Certificate match the one available at the web address verification link on the front page?	or QR code					
Does the NatHERS certificate number on the NatHERS-stamped number on this Certificate?	plans match the					× /
Thermal performance check						C
Windows and glazed doors						
Does the window size, opening type and location shown on the N stamped plans or as installed match what is shown in 'Window ar schedule' and 'Roof window schedule' tables on this Certificate?	atHERS-		D			
Does the installed windows meet the substitution tolerances (AFF SHGC* and U-values*) as shown in the 'Window and glazed door performance' and 'Roof window type and performance' tables on	RC* based r <i>type and</i> this Certificate?					
External walls						
Does the external wall bulk insulation (R-value) shown on the Nat plans or as installed match what is shown in the External wall type Certificate?	tHERS-stamped e table on this					
Does the external wall shade (colour) match what is shown in the <i>type</i> ' table on this Certificate?	'External wall					
Floor						
Does the floor insulation (R-value) shown on the NatHERS-stamp installed match what is shown in the 'Floor type' table on this cert	bed plans or as					
Ceiling penetrations*						
Does the 'quantity' and 'type of ceiling penetrations' (e.g. downlig fans, etc) shown on the NatHERS-stamped plans or as installed r shown in the ' <i>Ceiling penetrations</i> ' table on this Certificate?	ants, exhaust match what is					
Ceiling					V	
Does the ceiling insulation (R-value) shown on the NatHERS-star installed match what is shown in the ' <i>Ceiling type</i> ' table on this Ce	mped plans or as ertificate?		D			
Does the external roof shade (colour) on the NatHERS stamped pinstalled match what is shown in the 'Boof two' table on this Cost	plans or as					
Apartment entrance doors (NCC Class 2 assessments	s only)	_				
Does the 'External Door Schedule' show apartment entrance doo Please note that an "external door" between the modelled dwellin space, such as an enclosed corridor or foyer, should not be includ assessment (because it overstates the possible ventilation) and w the Certificate.	rs? g and a shared ded in the vould invalidate					
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) be example, it is unlikely that a ground-floor apartment is "exposed" high-rise apartment is "protected".	een applied? For or a top floor					
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in Standard 2022: NAtHERS heating and cooling load limits for the a climate zone?	the ABCB appropriate					

i	NatHERS Certificate	6.9	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construct stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q.				
	Whole of Home performance check (not applicable if a Whole of Home performance check	formance a	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
and the second sec	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	s that must	also be sat	lisfied ICC	

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6.9 Star Rating as of 23 Jan 2025

## Room schedule

Room	Zone Type	Area [m²]
Bedroom 3	bedroom	13.3
Bathroom	dayTime	6.5
Bedroom 2	bedroom	13.8
Laundry	unconditioned	5.9
Bedroom 1	bedroom	14.2
WIR	nightTime	5.8
Ensuite	nightTime	11.2
Kitchen/Living	kitchen	76.7
Entry	dayTime	15.3

## Window and glazed door type and performance

#### Default\* windows

-

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available	3				
Custom* windows				Substitution to	elerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42

## Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bedroom 3	CAP-034-33 A	Opening 26	2500	1344	awning	60.0	E	No	
Bedroom 3	CAP-127-31 A	Opening 22	2500	1702	sliding	45.0	E	No	
Bedroom 2	CAP-055-108 A	Opening 24	2500	364	fixed	0.0	E	No	
Bedroom 2	CAP-034-33 A	Opening 21	2300	1478	awning	60.0	E	No	
Bedroom 2	CAP-055-108 A	Opening 23	2500	1266	fixed	0.0	E	No	
Bedroom 1	CAP-127-31 A	Opening 10	2700	3150	sliding	45.0	S	No	
Kitchen/Living	CAP-127-31 A	Opening 12	2700	5210	sliding	45.0	S	No	
Kitchen/Living	CAP-055-108 A	Opening 27	2700	1176	fixed	0.0	SE	No	
									_

\*Refer to glossary.

dow

6.9 Star Rating as of 23 Jan 2025

Kitchen/Living	CAP-055-108 A	Opening 28	2700	1181 fixed	0.0	SE	No
Kitchen/Living	CAP-055-108 A	Opening 29	2700	1239 fixed	0.0	E	No
Kitchen/Living	CAP-055-108 A	Opening 16	2500	2581 fixed	0.0	E	No
Kitchen/Living	CAP-034-33 A	Opening 17	2500	827 awning	60.0	Е	No
Kitchen/Living	CAP-055-108 A	Opening 18	2500	1500 fixed	0.0	Е	No
Kitchen/Living	CAP-034-33 A	Opening 19	2500	1500 awning	60.0	Е	No
Kitchen/Living	CAP-055-108 A	Opening 20	2500	959 fixed	0.0	Е	No

# Roof window\* type and performance value

#### Default\* roof windows

				Substitution to	olerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					
Custom* roof windows					
				Substitution to	olerance ranges
Window ID	Window description	Maximum	SUCC*	SHGC lower limit	SHGC upper limit
Nia Data Available	window description	U-value"	SIGC		
No Data Available					
Root window* s	schedule				
Lasstin Minde		Opening Area	Width	Outdo	oor Indoor
Location Windo	wild Window no.	% [m*]	[mm]	Orientation shade	e snade
No Data Available					
Skylight* type a	and performance				
Skylight ID		Skylight description	on	Skylight shaft r	eflectance
No Data Available					
Skylight* scheo	lule				
		Skylight	t shaft	Area Orient-	Outdoor
Location	Skylight ID	Skylight No. length [	mm]	[m <sup>2</sup> ] ation	shade Diffuser
No Data			<i>v</i>		
Available					
	ale a du la				
External door s	cneaule				
Location	Height [mm]	Width [mm]		Opening % Orie	entation
No Data Available					
External wall ty	pe				
		Solar Wall	shade B	ulk insulation	Reflective wall
Wall ID Wall type		absorptance [cold	our] [R	-value]	wrap*
1 1-7 Waterfi Spandrel V	ront Place, Port Melbourne - Vall	0.5 Med	lium G	lass fibre batt: R2.5 R2.5)	No

### 6.9 Star Rating as of 23 Jan 2025

2	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No
3	1-7 Waterfront Place, Port Melbourne - Concrete Int	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.8)	No

## External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Bedroom 3	1	2700	1362	E	608	Yes
Bedroom 3	1	2700	1745	E	608	Yes
Bedroom 3	2	2700	4271	Ν	0	No
Bathroom	3	2700	2038	W	0	No
Bathroom	2	2700	3204	Ν	0	No
Bedroom 2	1	2700	382	E	591	Yes
Bedroom 2	1	2700	1523	E	591	Yes
Bedroom 2	1	2700	1296	Е	591	Yes
Laundry	3	2700	1844	W	0	No
Bedroom 1	2	2700	4336	W	0	No
Bedroom 1	1	2700	3267	S	602	Yes
WIR	2	2700	1783	W	0	No
Ensuite	2	2700	3419	W	0	No
Ensuite	3	2700	2054	Ν	0	No
Kitchen/Living	1	2700	5265	S	647	Yes
Kitchen/Living	1	2700	1242	SE	611	Yes
Kitchen/Living	1	2700	1240	SE	653	Yes
Kitchen/Living	1	2700	1280	E	687	Yes
Kitchen/Living	1	2700	2282	E	613	Yes
Kitchen/Living	1	2700	1545	E	612	Yes
Kitchen/Living	1	2700	1505	E	612	Yes
Kitchen/Living	1	2700	1491	E	614	Yes
Kitchen/Living	1	2700	1024	E	613	Yes
Entry	2	2700	1201	N	0	No
Entry	3	2700	2252	W	0	No

## Internal wall type

 Wall ID
 Wall type
 Area [m²]
 Bulk insulation

 1
 FR5 - Internal Plasterboard Stud Wall
 123.4

## Floor type

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 5, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

### 6.9 Star Rating as of 23 Jan 2025

Location	Construction	Aroa [m²]	Sub-floor	Added insulation	Covoring
		Area [III-]			Covering
Bedroom 3	FR5 - 200mm concrete slab	9	Elevated	R4.6	Carpet
Bedroom 3	FR5 - 200mm concrete slab	4.2	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab	6.5	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 200mm concrete slab	9.4	Elevated	R4.6	Carpet
Bedroom 2	FR5 - 200mm concrete slab	4.4	Enclosed	R0.0	Carpet
Laundry	FR5 - 200mm concrete slab	5.9	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 200mm concrete slab	10.4	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - 200mm concrete slab	3.8	Enclosed	R0.0	Carpet
WIR	FR5 - 200mm concrete slab	5.8	Enclosed	R0.0	Carpet
Ensuite	FR5 - 200mm concrete slab	11.2	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 200mm concrete slab	24.1	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	35.7	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	16.7	Elevated	R4.6	Timber
Kitchen/Living	FR5 - 200mm concrete slab	0.1	Elevated	R4.6	Timber
Entry	FR5 - 200mm concrete slab	15.3	Enclosed	R0.0	Timber

## Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt value	Reflective es] wrap*
Bedroom 1	Plasterboard	R4.6	No
Kitchen/Living	Plasterboard	R4.6	No

## Ceiling penetrations\*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bedroom 3	5	Downlights	80	80	Sealed
Bathroom	3	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Bedroom 2	8	Downlights	80	80	Sealed
Laundry	2	Downlights	80	80	Sealed
Laundry	1	Exhaust Fans	250	250	Sealed
Bedroom 1	6	Downlights	80	80	Sealed
WIR	2	Downlights	80	80	Sealed
Ensuite	4	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
Kitchen/Living	31	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Entry	6	Downlights	80	80	Sealed
	r				

NatHERS Certificate			6.9 Star Rating as	of 23 Jan 2025
Ceiling fans				
Location			Quantity	Diameter [mm]
No Data Available			quantity	
Roof type				
Construction		Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Slab:Slab - Suspended Suspended Slab	Slab : 200mm: 200mm	0.0	0.5	Medium
Thermal bridgin	g schedule for s	teel frame eleme	nts	
	Steel section dimensi	ons	Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [m	imj [BMT,mm]	[R-value]
No Data Available				
Appliance sche	dule			
(not applicable if a Who	ole of Home performance	e assessment is not cor	ducted for this certifica	te)
Note: A flat assumption of	of 5W/m2 is used for light	ng, therefore lighting is no	t included in the appliance	e schedule.
Cooling system			Minimum efficiency/	Recommended
Appliance/ system type	e Location	Fuel type	performance	capacity
No Whole of Home perfo	ormance assessment con	ducted for this certificate.		
Heating system				
A		Fuelture	Minimum efficiency/	Recommended
Appliance/ system type	Elocation	Fuel type	performance	сарасиу
No whole of home peri	ormance assessment con	ducted for time certificate.		
Hot water system				
		Minimum		
		efficiency/ H	ot Water CER	Assessed daily
Appliance/ system type	e Fuel type	performance	Zone Zone	3 STC load
No whole of Home perio	ormance assessment con	ducted for this certificate.		
Deal/ana aquiamant				
Pool/spa equipment			Minimum efficienc	v/ Recommended
Appliance/ system type	)	Fuel type	performance	capacity
No Whole of Home perfo	ormance assessment con	ducted for this certificate.	*	
Onsite renewab	le energy sched	ule		
(not applicable if a Who	ble of Home performanc	e assessment is not cor	ducted for this certifica	te)
System type		Orientation	System size or ge	neration capacity
No Whole of Home perfe	ormance assessment con	ducted for this certificate.		

1

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 5, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

6.9 Star Rating as of 23 Jan 2025

## Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

#### System type

Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 6.9 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 6.9 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

. . . . .

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees). a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\*

(eg eaves and balconies)

## Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. TGTEKHGLH0

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 6, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 155.9 Unconditioned\* 4.2 Total 160.1 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

## **★** Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions State/Territory variation

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating

6.6 The more stars the more energy efficient

## 69.8 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	41.5	28.3
Load limits	55	38

#### Features determining load limits

Floor type	N/
(lowest conditioned area)	
NCC climate zone 1 or 2	Y
Outdoor living area	Y
Outdoor living area ceiling fan	Y

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 12

## About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

## Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable

Outdoor living area:

- Yes
- No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.6 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

Graph key:

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 6, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Mathene	Cartificata
NACHERS	Certificate
30	

## 6.6 Star Rating as of 23 Jan 2025

Cartificate check		Approval	stage	Construct stage	ion		
The checklist covers important items impacting the dwelling' It is recommended that the accuracy of the whole certificate	s ratings. is checked.	r checked	authority/ checked	hecked	authority/ checked	cy/other	
Note: The boxes indicate when and who should check each It is not mandatory to complete this checklist.	item.	Assessor	Consent surveyor	Builder c	Consent surveyor	Occupan	
Genuine certificate check							
Does this Certificate match the one available at the web add verification link on the front page?	fress or QR code						
Does the NatHERS certificate number on the NatHERS-star number on this Certificate?	mped plans match the		D				
Thermal performance check							
Windows and glazed doors							
Does the window size, opening type and location shown on stamped plans or as installed match what is shown in 'Window schedule' and 'Roof window schedule' tables on this Certific	the NatHERS- ow and glazed door ate?		<b>P</b>	D			
Does the installed windows meet the substitution tolerances SHGC* and U-values*) as shown in the 'Window and glazed performance' and 'Roof window type and performance' table	(AFRC* based door type and es on this Certificate?						
External walls			1	1			
Does the external wall bulk insulation (R-value) shown on the plans or as installed match what is shown in the External wa Certificate?	e NatHERS-stamped all type table on this	<b>P</b>					
Does the external wall shade (colour) match what is shown type' table on this Certificate?	in the 'External wall						
Floor							
Does the floor insulation (R-value) shown on the NatHERS-s installed match what is shown in the 'Floor type' table on this	stamped plans or as s certificate?						
Ceiling penetrations*							R
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. do fans, etc) shown on the NatHERS-stamped plans or as insta shown in the 'Ceiling penetrations' table on this Certificate?	ownlights, exhaust alled match what is						
Ceiling	-					- V	
Does the ceiling insulation (R-value) shown on the NatHERS installed match what is shown in the ' <i>Ceiling type</i> ' table on the	S-stamped plans or as his Certificate?			D			
Does the external roof shade (colour) on the NatHERS stam installed match what is shown in the 'Roof type' table on this	ped plans or as						
Apartment entrance doors (NCC Class 2 assessm	ents only)	-	4				
Does the 'External Door Schedule' show apartment entrance Please note that an "external door" between the modelled do space, such as an enclosed corridor or foyer, should not be assessment (because it overstates the possible ventilation) a the Certificate.	e doors? welling and a shared included in the and would invalidate				٦		
Exposure*							
Has the appropriate exposure type (terrain) (shown on page example, it is unlikely that a ground-floor apartment is "expo- high-rise apartment is "protected".	1) been applied? For sed" or a top floor						
Heating and cooling load limits*							
Do the load limits settings (shown on page 1) match the value Standard 2022: NAtHERS heating and cooling load limits for climate zone?	ues in the ABCB r the appropriate						

i	NatHERS Certificate	6.6	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
	Thermal bridging		×				
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home performance check	formance a	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check				-		~
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	s that must tory variatio	also be sat	isfied ICC	
					5		

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6.6 Star Rating as of 23 Jan 2025

### Room schedule

Room	Zone Type	Area [m²]
Bedroom 3	bedroom	11.6
WIR	dayTime	5.7
Bathroom	unconditioned	4.2
Laundry	dayTime	4.4
Corridor	dayTime	2.4
Ensuite 2	nightTime	4.3
Bedroom 2	bedroom	11.8
WIR 2	dayTime	8.3
Bedroom 1	bedroom	14.6
Ensuite 1	nightTime	10.3
Pantry	dayTime	4.7
Entry	dayTime	16.8
Kitchen/Living	kitchen	61

## Window and glazed door type and performance.

Default\* windows

		Substitution tolerance ranges
Window ID Window description	Maximum U-value* SHGC*	SHGC lower limit SHGC upper limit
No Data Available		

#### Custom\* windows

				Caponanon	ici alloc l'allges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41

## Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bedroom 3	CAP-055-108 A	Opening 20	2700	1550	fixed	0.0	W	No	
Bedroom 3	CAP-034-33 A	Opening 26	2700	1550	awning	60.0	W	No	
Bedroom 2	CAP-055-108 A	Opening 19	2700	1550	fixed	0.0	W	No	
Bedroom 2	CAP-034-33 A	Opening 27	2700	1550	awning	60.0	W	No	

6.6 Star Rating as of 23 Jan 2025

Bedroom 1	CAP-055-108 A	Opening 18	2700	1550	fixed	0.0	W	No
Bedroom 1	CAP-034-33 A	Opening 28	2700	1550	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 17	2700	2960	fixed	0.0	W	No
Kitchen/Living	CAP-034-33 A	Opening 29	2700	1550	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 23	2700	1231	fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 24	2700	1146	fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 25	2700	1200	fixed	0.0	S	No
Kitchen/Living	CAP-127-31 A	Opening 15	2700	5215	sliding	45.0	S	No
Kitchen/Living	CAP-127-31 A	Opening 16	2700	2760	sliding	45.0	S	No

## Roof window\* type and performance value

Default\* roof windows

			Substit	tution tolerance ranges
Window ID	Window description	Maximum U-value*	SHGC* SHGC low	ver limit SHGC upper lim
No Data Available				
Custom* roof window	ws	Maximum	Substit	tution tolerance ranges
Window ID	Window description	U-value*	SHGC*	
Roof window	* schedule	Opening Area	Width	Outdoor Indoor
Location Wi	ndow ID Window no.	% [m²]	[mm] Orientation	shade shade
No Data Available				
Skylight* type Skylight ID	e and performance	Skylight description	Skylight	shaft reflectance
Skylight* sch	nedule	Skylight s	thaft Area Orig	ant- Outdoor
Location	Skylight ID	Skylight No. length [m	m] [m²] atio	on shade Diffuse
No Data Available				
External doo	r schedule			
Location	Height [mm]	Width [mm]	Opening %	Orientation
No Data Available External wall	type			
er to glossary.				

6.6 Star Rating as of 23 Jan 2025

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No
2	1-7 Waterfront Place, Port Melbourne - Spandrel Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No
3	1-7 Waterfront Place, Port Melbourne - Concrete Int	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.8)	No

## External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Bedroom 3	1	2700	3716	Ν	0	No
Bedroom 3	2	2700	3111	W	767	No
WIR	1	2700	1833	Ν	0	No
Bathroom	1	2700	2119	Ν	0	No
Laundry	1	2700	2214	Ν	0	No
Laundry	3	2700	1979	E	0	No
Bedroom 2	2	2700	3179	W	753	No
Bedroom 1	2	2700	3173	W	719	No
Entry	1	2700	4326	Е	0	No
Entry	3	2700	3280	E	0	No
Kitchen/Living	2	2700	4206	W	729	No
Kitchen/Living	2	2700	1246	SW	4775	No
Kitchen/Living	2	2700	1201	SW	4305	Yes
Kitchen/Living	2	2700	1220	S	4029	Yes
Kitchen/Living	2	2700	8029	S	3753	Yes
Kitchen/Living	1	2700	6582	E	0	No

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	168.2	

## Floor type

			Sub-floor	Added insula	tion
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Bedroom 3	FR5 - 200mm concrete slab	11.6	Enclosed	R0.0	Carpet
WIR	FR5 - 200mm concrete slab	5.7	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab	4.2	Enclosed	R0.0	Tiles
Laundry	FR5 - 200mm concrete slab	4.4	Enclosed	R0.0	Tiles

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 6, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

6.6 Star Rating as of 23 Jan 2025

Corridor	FR5 - 200mm concrete slab	2.4	Enclosed	R0.0	Timber
Ensuite 2	FR5 - 200mm concrete slab	4.3	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 200mm concrete slab	11.8	Enclosed	R0.0	Carpet
WIR 2	FR5 - 200mm concrete slab	8.3	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - 200mm concrete slab	14.6	Enclosed	R0.0	Carpet
Ensuite 1	FR5 - 200mm concrete slab	10.3	Enclosed	R0.0	Tiles
Pantry	FR5 - 200mm concrete slab	4.7	Enclosed	R0.0	Timber
Entry	FR5 - 200mm concrete slab	16.8	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	61	Enclosed	R0.0	Timber

## Ceiling type

Location	Construction	Bulk insulation R-value	Reflective
	material/type	[may include edge batt values]	wrap*
No Data Available			

## Ceiling penetrations\*

Location	Quantity	Type	Height [mm]	Width [mm]	Sealed/unsealed
Bedroom 3	5	Downlights	80	80	Sealed
WIR	2	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Laundry	2	Downlights	80	80	Sealed
Laundry	1	Exhaust Fans	250	250	Sealed
Corridor	1	Downlights	80	80	Sealed
Ensuite 2	2	Downlights	80	80	Sealed
Ensuite 2	1	Exhaust Fans	250	250	Sealed
Bedroom 2	5	Downlights	80	80	Sealed
WIR 2	3	Downlights	80	80	Sealed
Bedroom 1	6	Downlights	80	80	Sealed
Ensuite 1	4	Downlights	80	80	Sealed
Ensuite 1	1	Exhaust Fans	250	250	Sealed
Pantry	2	Downlights	80	80	Sealed
Entry	7	Downlights	80	80	Sealed
Kitchen/Living	24	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Ceiling fans					

### Location

No Data Available

Quantity

Diameter [mm]

6.6 Star Rating as of 23 Jan 2025

## Roof type

	Added insulation	
Construction	[R-value] Solar absorptanc	e Roof shade [colour]
Slab:Slab - Suspended Slab : 200mm: 200mm Suspended Slab	0.0 0.5	Medium

## Thermal bridging schedule for steel frame elements

	Steel section dimensions		Steel thickness	Thermal break
<b>Building element</b>	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[R-value]
No Data				
Available				

### Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate) Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

#### Cooling system Recommended Minimum efficiency/ Appliance/ system type Location Fuel type performance capacity No Whole of Home performance assessment conducted for this certificate. Heating system Minimum efficiency/ Recommended Appliance/ system type Location Fuel type performance capacity No Whole of Home performance assessment conducted for this certificate. Hot water system Minimum Hot Water CER Assessed daily efficiency/ Appliance/ system type Zone 3 STC Fuel type performance Zone load No Whole of Home performance assessment conducted for this certificate. Pool/spa equipment Minimum efficiency/ Recommended Appliance/ system type Fuel type performance capacity No Whole of Home performance assessment conducted for this certificate. Onsite renewable energy *schedule* (not applicable if a Whole of Home performance assessment is not conducted for this certificate)

 System type
 Orientation
 System size or generation capacity

 No Whole of Home performance assessment conducted for this certificate.

## Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type

Size [battery storage capacity]

6.6 Star Rating as of 23 Jan 2025

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 6, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 6.6 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
<u></u>	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 6.6 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 6, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

## Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. U4ZJC5ZVAJ

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 7, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 135.5 Unconditioned\* 3.8 Total 139.3 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

## **★** Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

**NCC Requirements** 

NCC provisions Volume 1 State/Territory variation Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating



## 70.9 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	49.6	21.3
Load limits	N/A	N/A

#### Features determining load limits

Floor type	N/
(lowest conditioned area)	
NCC climate zone 1 or 2	N
Outdoor living area	N
Outdoor living area ceiling fan	Ν

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.
## About the ratings

### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.5 Star Rating as of 23 Jan 2025

## Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 7, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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## 6.5 Star Rating as of 23 Jan 2025

Certificate check	Approva	Istage	Construc stage	tion		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	ar checked	t authority/ r checked	checked	t authority/ r checked	ncy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consent surveyo	Builder o	Consent surveyo	Occupai	
Genuine certificate check						
Does this Certificate match the one available at the web address or QR code verification link on the front page?						
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?						
Thermal performance check						
Windows and glazed doors						
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?			D			
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?						
External walls			1			
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?	P				D	
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?						
Floor						
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?						
Ceiling penetrations*						
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?						
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?						
Roof						
installed match what is shown in the 'Roof type' table on this Certificate?						
Apartment entrance doors (NCC Class 2 assessments only)						
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.						
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".						
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?						
		-		-		

i	NatHERS Certificate	6.5	Star Rat	ing as of	23 Jan 20	025	
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
1	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
1	Thermal bridging		_			_	
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method					10 10	
1	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		·				
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance as	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
_	Other NCC requirements	1.00					
4	include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	and any sta	quirements	tory variation	also be sat	ICC	
				•	5		

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6.5 Star Rating as of 23 Jan 2025

## Room schedule

Room	Zone Type	Area [m²]
Bedroom 1	bedroom	16.3
Ensuite 1	nightTime	4.4
Laundry	unconditioned	3.8
Bedroom 2	bedroom	14.2
Bathroom	dayTime	4.7
Corridor 2	dayTime	2.6
Pantry	dayTime	5.2
Entry	dayTime	8.5
Kitchen/Living	kitchen	54.2
Bedroom 3	bedroom	16.3
Ensuite 3	nightTime	9.1

## Window and glazed door type and performance

Default* windows		Substitution tolerance ranges
Window ID Window description	Maximum U-value* SHGC	* SHGC lower limit SHGC upper limit
No Data Available		
Custom* windows		Substitution tolerance ranges

Window ID	Window description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	window shading device*	
Bedroom 1	CAP-055-108 A	Opening 19	2100	1502	fixed	0.0	w	No	
Bedroom 1	CAP-034-33 A	Opening 18	2700	1528	awning	45.0	w	No	
Bedroom 2	CAP-127-31 A	Opening 16	2700	3000	sliding	45.0	W	No	
Bedroom 2	CAP-034-33 A	Opening 24	2700	1000	awning	60.0	W	No	
Pantry	CAP-034-33 A	Opening 15	2700	1150	awning	60.0	W	No	
Kitchen/Living	CAP-055-108 A	Opening 14	2700	2600	fixed	0.0	W	No	

6.5 Star Rating as of 23 Jan 2025

Kitchen/Living	CAP-055-108 A	Opening 21	2700	1224 fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 22	2700	1159 fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 23	2700	1242 fixed	0.0	S	No
Kitchen/Living	CAP-127-31 A	Opening 12	2700	3712 sliding	45.0	S	No
Kitchen/Living	CAP-127-31 A	Opening 13	2700	2728 sliding	45.0	S	No
Bedroom 3	CAP-127-31 A	Opening 11	2700	3200 sliding	45.0	S	No

# Roof window\* type and performance value

### Default\* roof windows

					Substitution	colerance ranges
Window ID		Nindow doo sintist	Maximum	CU/CO+	SHGC lower limit	SHGC upper limit
Window ID		window description	U-value*	SHGC		
No Data Av	allable					
Custom* roo	of windows				Substitution	lalaranaa rangaa
			Maximum		Substitution	loierance ranges
Window ID		Window description	U-value*	SHGC*	SHGC lower limit	t SHGC upper limit
No Data Av	ailable					
Deefwi	ndout* ool	hadula				
ROOT WI	ndow" sci	leaule				
Location	Mindawi	D Window no	Opening Area	Width	Outd	oor Indoor
Location	window I	D Window no.	% [m-]	lwwl	Orientation shad	snade
No Data Av	allable					
Skylight	t* type and	d performance				
Skylight ID			Skylight description	on	Skylight shaft	reflectance
No Data Av	vailable					
Skylight	t* schedul	le			4	
			Skyligh	t shaft	Area Orient-	Outdoor
Location		Skylight ID	Skylight No. length [	mm]	[m <sup>2</sup> ] ation	shade Diffuser
No Data						
Available						
Externa	l door sch	nedule				
Location		Height [mm]	Width [mm]	C	Opening % Ori	entation
No Data Av	vailable					
Extorno						
Externa				<b>.</b>		
Mall ID			Solar Wall	shade Bl		Reflective wall
waii iD	wall type		absorptance [con	burj [R	-valuej	wrap"
1	1-7 Waterfron	t Place, Port Melbourne -	0.5 Mer	Gium de	lass fibre batt ( $k = 0.0$	)44 No
	Concrete Int				R1.8)	
				, t		
						-

NatHERS	Certificate			6.5 S	tar Rating as of 23 Jan 20	25
2	1-7 Waterfront Place, Port Melbour Spandrel Wall	ne -	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No
3	1-7 Waterfront Place, Port Melbour Internal Plasterboard Stud Wall	ne -	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No

# External wall schedule

					Horizontal shading	
Location	Wall ID	Height [mm]	(mm]	Orientation	projection [mm]	feature* (yes/no)
Bedroom 1	1	2950	4369	N	0	No
Bedroom 1	2	2950	1558	W	750	Yes
Bedroom 1	2	2950	1561	W	750	Yes
Ensuite Ensuite 1	1	2950	2295	Ν	0	No
Laundry	3	2950	1944	E	0	No
Laundry	1	2950	1976	N	0	No
Bedroom 2	2	2950	3962	W	740	Yes
Pantry	2	2950	1086	W	802	Yes
Entry	3	2950	3053	Е	0	No
Kitchen/Living	2	2950	2644	W	741	Yes
Kitchen/Living	2	2950	1265	SW	1627	No
Kitchen/Living	2	2950	1173	SW	3040	Yes
Kitchen/Living	2	2950	1247	S	4064	Yes
Kitchen/Living	2	2950	6631	S	3962	Yes
Bedroom 3	2	2950	3146	S	0	Yes
Bedroom 3	3	2950	5173	Е	0	No
Ensuite 3	3	2950	3128	N	0	No
Ensuite 3	3	2950	2906	E	0	No

internal wall type	Interna	l wal	l type
--------------------	---------	-------	--------

Wall ID	Wall type	Area [m <sup>2</sup> ] Bulk insulation	
1	FR5 - Internal Plasterboard Stud Wall	147.8	

# Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Bedroom 1	FR5 - 200mm concrete slab	16.3	Enclosed	R0.0	Carpet
Ensuite Ensuite 1	FR5 - 200mm concrete slab	4.4	Enclosed	R0.0	Tiles
Laundry	FR5 - 200mm concrete slab	3.8	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 200mm concrete slab	14.2	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab	4.7	Enclosed	R0.0	Tiles
Corridor 2	FR5 - 200mm concrete slab	2.6	Enclosed	R0.0	Timber

6.5 Star Rating as of 23 Jan 2025

Pantry	FR5	- 200mm concrete slab	5.2	Enclosed	R0.0	Timber
Entry	FR5	- 200mm concrete slab	8.5	Enclosed	R0.0	Timber
Kitchen/Living	FR5	- 200mm concrete slab	54.2	Enclosed	R0.0	Timber
Bedroom 3	FR5	- 200mm concrete slab	16.3	Enclosed	R0.0	Carpet
Ensuite 3	FR5	- 200mm concrete slab	9.1	Enclosed	R0.0	Tiles

# Ceiling type

Location		Construction material/type	Bulk insulation R-value [may include edge batt values]		Reflective wrap*	
No Data Available						
Ceiling penetrations*						
		-	Height	Width		
Location	Quantity	l ype	[mm]	[mm]	Sealed/un	sealed
Enquito Enquito 1	2	Downlights	00	80	Sealed	
	2		00	00	Sealed	
	1	Exhaust Fans	250	250	Sealed	
Laundry	2	Downlights	80	80	Sealed	
Laundry	1	Exhaust Fans	250	250	Sealed	
Bedroom 2	6	Downlights	80	80	Sealed	
Bathroom	2	Downlights	80	80	Sealed	
Bathroom	1	Exhaust Fans	250	250	Sealed	
Corridor 2	1	Downlights	80	80	Sealed	
Pantry	2	Downlights	80	80	Sealed	
Entry	3	Downlights	80	80	Sealed	
Kitchen/Living	22	Downlights	80	80	Sealed	
Kitchen/Living	1	Exhaust Fans	250	250	Sealed	
Bedroom 3	7	Downlights	80	80	Sealed	
Ensuite 3	1	Exhaust Fans	250	250	Sealed	
Ensuite 3	4	Downlights	80	80	Sealed	
Ceiling fans						
Location		Qu	uantity		Diame	eter [mm]
No Data Available						
Roof type						
		Added insulation	<b>.</b>			
Construction	n: 200mm	[ĸ-value]	Solar absorp	otance	Roof shac	ie [colour]
Suspended Slab	n. 200mm	0.0	0.5	5	Medium	

# Thermal bridging schedule for steel frame elements

NatHERS Certificate			6.5 Star Rating as of 2	23 Jan 2025
	Steel section dimensions		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [r	nm] [BMT,mm]	[R-value]
No Data Available				
Appliance sched	lule			
(not applicable if a Who	le of Home performance a	ssessment is not co	nducted for this certificate)	
Note: A flat assumption of	f 5W/m2 is used for lighting,	therefore lighting is n	ot included in the appliance s	chedule.
Cooling system				
			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home perfo	ormance assessment conduc	ted for this certificate.		
Heating system				
			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home perfo	rmance assessment conduc	ted for this certificate.		
Hot water system				
	M	inimum		
Appliance/ system type	ei Euol typo	fficiency/ H	ot Water CER	Assessed daily
No Whole of Home perfo	rmance assessment conduc	ted for this certificate	Zone Zone s C	
No whole of home perio	innance assessment conduc			
Deel/eese environment				
Pool/spa equipment			Minimum efficiency/	Recommended
Appliance/ system type		Fuel type	performance	capacity
No Whole of Home perfo	rmance assessment conduc	ted for this certificate.		
·				
Onsite renewabl	e energy schedule	,		
(not applicable if a Who	le of Home performance a	ssessment is not co	nducted for this certificate)	
System type	· · ·	Orientation	System size or gener	ation capacity
No Whole of Home perfo	ormance assessment conduc	ted for this certificate.		
		7		
Battery schedule				
(not applicable if a Who	e i			
	e le of Home performance a	ssessment is not co	nducted for this certificate)	
System type	e le of Home performance a	ssessment is not co	nducted for this certificate) Size (battery storage	capacityl
System type No Whole of Home perfo	e le of Home performance a	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	e le of Home performance a prmance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	e le of Home performance a ormance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	e le of Home performance a ormance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	e le of Home performance a ormance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	e le of Home performance a ormance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]
System type No Whole of Home perfo	P le of Home performance a ormance assessment conduc	ssessment is not co	nducted for this certificate) Size [battery storage	capacity]

## Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 6.5 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

## Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.			
AFRC	Australian Fenestration Rating Council			
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.			
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.			
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.			
СОР	Coefficient of performance			
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.			
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.			
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input			
Energy use	This is your homes rating without solar or batteries.			
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).			
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated			
	corridor in a Class 2 building.			
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).			
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).			
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.			
suburban				
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.			
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.			
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.			
Net zero home	a home that achieves a net zero energy value*.			
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.			
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au			
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.			
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative			
as foil)	properties.			
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.			
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.			
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently			
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.			
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.			
lights)				

#### 6.5 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. TF7CNANYGN

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

## Property

Address

Sample 8, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

## Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 147.3 Unconditioned\* 4.2 Total 151.5 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

# \* Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

Declaration of interest

## NCC Requirements

NCC provisions V State/Territory variation Y

Volume 1 Yes

No

### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

## Thermal performance star rating



# 41.9 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	28.8	13.1
Load limits	N/A	N/A

### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

## Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 12

## About the ratings

### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

8.1 Star Rating as of 23 Jan 2025

## Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 8, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS	Certificate

## 8.1 Star Rating as of 23 Jan 2025

Certificate check	Approval st	tage	Construct stage	ion		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	or checked	t authority/ r checked	checked	t authority/ r checked	ncy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consen surveyo	Builder	Consen surveyo	Occupa	
Genuine certificate check						
Does this Certificate match the one available at the web address or QR code verification link on the front page?						
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?		D				
Thermal performance check						
Windows and glazed doors						
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?		<b>q</b>	D			
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?						
External walls			1			
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					0	
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?						
Floor						
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?						
Ceiling penetrations*						
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?	Ð					
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?			D			
Roof						
installed match what is shown in the 'Roof type' table on this Certificate?						
Apartment entrance doors (NCC Class 2 assessments only)						
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.						
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".						
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?				٥		

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 8, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

	NatHERS Certificate	8.1	Star Rat	ing as of	23 Jan 2	025	
		Approval	stage	Construct stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
	Additional NCC requirements for thermal performance (not include	d in the Na	tHERS a	ssessme	nt)		
	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home pe	rformance a	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?		0				
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nati	HERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check	K					
2	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements		_				
	Note: This Certificate only covers the energy efficiency requirements in the NCC. <i>i</i> include, but are not limited to: condensation, structural and fire safety requirement energy efficiency requirements. Additional notes	Additional re s and any st	quirements	s that must tory variatio	also be sat	lisfied ICC	
						-	

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8.1 Star Rating as of 23 Jan 2025

## Room schedule

Room	Zone Type	Area [m²]
Bed 3	bedroom	14.2
Ensuite bed 3	nightTime	7.2
WIR bed 3	dayTime	12.7
Bed 2	bedroom	11.7
WIR Bed 2	dayTime	8
Ensuite bed 2	nightTime	4
Storage	dayTime	8
Bathroom	unconditioned	4.2
Pantry	dayTime	4.9
Laundry	dayTime	5
Entry	dayTime	15
Kitchen/Living	kitchen	44.4
Bed 1	bedroom	12.4

# Window and glazed door type and performance

1

Default\* windows

		Substitution to	lerance ranges
Window ID Window description	Maximum U-value* SHGC*	SHGC lower limit	SHGC upper limit
No Data Available			

### Custom\* windows

				Substitution (C	ferance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bed 3	CAP-055-108 A	Opening 17	2700	1150	fixed	0.0	N	No	
Bed 3	CAP-034-33 A	Opening 29	2700	1450	awning	60.0	Ν	No	
Bed 3	CAP-055-108 A	Opening 30	2700	1450	fixed	0.0	N	No	
Bed 2	CAP-127-31 A	Opening 15	2700	2726	sliding	45.0	E	No	1

8.1 Star Rating as of 23 Jan 2025

Bed 2	CAP-055-108 A	Opening 22	2700	1150	fixed	0.0	Ν	No
Bed 2	CAP-034-33 A	Opening 31	2700	1300	awning	60.0	N	No
Bed 2	CAP-055-108 A	Opening 32	2700	1300	fixed	0.0	N	No
WIR Bed 2	CAP-127-31 A	Opening 23	2700	1972	sliding	0.0	Е	No
Kitchen/Living	CAP-055-108 A	Opening 28	2700	1180	fixed	0.0	NE	No
Kitchen/Living	CAP-127-31 A	Opening 26	2700	6070	sliding	45.0	Ν	No
Bed 1	CAP-055-108 A	Opening 19	2700	2000	fixed	0.0	NE	No
Bed 1	CAP-034-33 A	Opening 33	2700	1470	awning	60.0	NE	No
Bed 1	CAP-055-108 A	Opening 34	2700	1350	fixed	0.0	NE	No

# Roof window\* type and performance value

### Default\* roof windows

			Substit	tution tolerance ranges
Window ID	Window description	Maximum U-value*	SHGC* SHGC low	ver limit SHGC upper lim
No Data Available				
Custom* roof window	ws	Maximum	Substit	tution tolerance ranges
Window ID	Window description	U-value*	SHGC*	
Roof window	* schedule	Opening Area	Width	Outdoor Indoor
Location Wi	ndow ID Window no.	% [m²]	[mm] Orientation	shade shade
No Data Available				
Skylight* type Skylight ID	e and performance	Skylight description	Skylight	shaft reflectance
Skylight* sch	nedule	Skylight s	thaft Area Orig	ant- Outdoor
Location	Skylight ID	Skylight No. length [m	m] [m²] atio	on shade Diffuse
No Data Available				
External doo	r schedule			
Location	Height [mm]	Width [mm]	Opening %	Orientation
No Data Available External wall	type			
er to glossary.				

8.1 Star Rating as of 23 Jan 2025

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No
2	1-7 Waterfront Place, Port Melbourne - Spandrel Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No

# External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Bed 3	1	2700	5422	W	0	No
Bed 3	2	2700	4070	Ν	702	No
Ensuite bed 3	1	2700	2991	W	0	No
WIR bed 3	1	2700	2558	W	0	No
WIR bed 3	1	2700	129	S	0	No
Bed 2	2	2700	2884	E	9653	Yes
Bed 2	2	2700	3675	N	841	No
WIR Bed 2	2	2700	2113	Е	9642	Yes
Storage	1	2700	3065	W	0	No
Storage	1	2700	2608	Ν	0	No
Bathroom	1	2700	1641	W	0	No
Bathroom	1	2700	2587	S	0	No
Pantry	1	2700	1993	S	0	No
Laundry	1	2700	2058	S	0	No
Entry	1	2700	2044	S	0	No
Kitchen/Living	1	2700	7141	S	0	No
Kitchen/Living	1	2700	151	E	0	No
Kitchen/Living	2	2700	1238	NE	853	No
Kitchen/Living	2	2700	6225	Ν	7933	Yes
Bed 1	1	2700	3202	S	0	No
Bed 1	1	2700	2390	E	0	No
Bed 1	2	2700	4344	NE	767	No

Internal wall <i>type</i>				
Wall ID Wall type		Area [m <sup>2</sup> ] B	Bulk insulation	
1 FR5 - Internal Pla	asterboard Stud Wall	158.9		
Floor type		Sub-floor	Added insulation	n
Location Cons	struction Ar	rea [m²] ventilation	[R-value]	Covering

8.1 Star Rating as of 23 Jan 2025

Bed 3	FR5 - 200mm concrete slab	14.2	Enclosed	R0.0	Carpet
Ensuite bed 3	FR5 - 200mm concrete slab	7.2	Enclosed	R0.0	Tiles
WIR bed 3	FR5 - 200mm concrete slab	12.7	Enclosed	R0.0	Carpet
Bed 2	FR5 - 200mm concrete slab	11.7	Enclosed	R0.0	Carpet
WIR Bed 2	FR5 - 200mm concrete slab	8	Enclosed	R0.0	Carpet
Ensuite bed 2	FR5 - 200mm concrete slab	4	Enclosed	R0.0	Tiles
Storage	FR5 - 200mm concrete slab	8	Enclosed	R0.0	Timber
Bathroom	FR5 - 200mm concrete slab	4.2	Enclosed	R0.0	Tiles
Pantry	FR5 - 200mm concrete slab	4.9	Enclosed	R0.0	Timber
Laundry	FR5 - 200mm concrete slab	5	Enclosed	R0.0	Tiles
Entry	FR5 - 200mm concrete slab	15	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	44.4	Enclosed	R0.0	Timber
Bed 1	FR5 - 200mm concrete slab	12.4	Enclosed	R0.0	Carpet

# Ceiling type

Location	Construction material/type	Bulk insulation R-valueReflective[may include edge batt values]wrap*
No Data Available		
Ceiling penetrations*		

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bed 3	6	Downlights	80	80	Sealed
Ensuite bed 3	2	Downlights	80	80	Sealed
Ensuite bed 3	1	Exhaust Fans	250	250	Sealed
WIR bed 3	5	Downlights	80	80	Sealed
Bed 2	5	Downlights	80	80	Sealed
WIR Bed 2	3	Downlights	80	80	Sealed
Ensuite bed 2	2	Exhaust Fans	250	250	Sealed
Storage	3	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Pantry	2	Downlights	80	80	Sealed
Laundry	2	Downlights	80	80	Sealed
Laundry	1	Exhaust Fans	250	250	Sealed
Entry	6	Downlights	80	80	Sealed
Kitchen/Living	18	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Bed 1	5	Downlights	80	80	Sealed

# Ceiling fans

NatHERS Certificate			8.1 Star Rating as of 23	3 Jan 2025
Location		Qu	antity	Diameter [mm]
No Data Available				
Roof <i>type</i>				
		Added insulation		
Construction		[R-value]	Solar absorptance	Roof shade [colour]
Slab:Slab - Suspended	Slab : 200mm: 200mm	0.0	0.5	Medium
Suspended Slab				
<b>A</b>		<b>C</b>		
inermal bridgin	g schedule for steel	trame elements		
Building alomant	Steel section dimensions	Frame spacing [mm]	Steel thickness	Thermal break
No Data		r rame spacing [mm]		[iv-value]
Available				
Appliance sche	dule			
(not applicable if a Who	ole of Home performance ass	essment is not conduc	ted for this certificate)	
Note: A flat assumption of	of 5W/m2 is used for lighting, th	erefore lighting is not inc	luded in the appliance scl	hedule.
Cooling system		Min	imum officiency/	Passanandod
Appliance/ system type	e Location	Fuel type per	formance	capacity
No Whole of Home perfe	ormance assessment conducte	d for this certificate.		,
Heating system				
Heating system		Mir	iimum efficiency/	Recommended
Heating system Appliance/ system type	e Location	Mir Fuel type per	iimum efficiency/ formance	Recommended capacity
Heating system Appliance/ system type No Whole of Home perfe	Location  ormance assessment conducte	Min           Fuel type         per           d for this certificate.         per	nimum efficiency/ formance	Recommended capacity
Heating system Appliance/ system type No Whole of Home perfe	Execution Cormance assessment conducte	Fuel type     Min       d for this certificate.	iimum efficiency/ formance	Recommended capacity
Heating system Appliance/ system type No Whole of Home perfet Hot water system	Location  ormance assessment conducte	Fuel type per d for this certificate.	ilmum efficiency/ formance	Recommended capacity
Heating system Appliance/ system type No Whole of Home perfe	e Location ormance assessment conducte Min effit	Fuel type per d for this certificate.	imum efficiency/ formance	Recommended capacity Assessed daily
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\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 8, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

8.1 Star Rating as of 23 Jan 2025

### (not applicable if a Whole of Home performance assessment is not conducted for this certificate)

### System type

Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

## Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 8.1 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

## Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 8.1 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value

Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 8, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 2E095YN5WJ

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

## Property

Address

Sample 9, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

## Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 110.5 Unconditioned\* 4.3 Total 114.8 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

## ★ Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

 Email
 gary@giw.com.au

 Phone
 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

## Thermal performance star rating



# 54.7 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	33.7	21
Load limits	N/A	N/A

### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

## Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 11

## About the ratings

### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
  - NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No
  - NA not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7.4 Star Rating as of 23 Jan 2025

## Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 9, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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## 7.4 Star Rating as of 23 Jan 2025

Certificate check	Арр	roval stage	Constructi stage	on		
The checklist covers important items impacting the dwelling's r It is recommended that the accuracy of the whole certificate is	ratings. checked.	or checked it authority/ or checked	checked	it authority/ or checked	ancy/other	
Note: The boxes indicate when and who should check each ite It is not mandatory to complete this checklist.	em.	Consen surveyo	Builder	Conser surveyc	Occupa	1
Genuine certificate check						
Does this Certificate match the one available at the web addre verification link on the front page?	ss or QR code					
Does the NatHERS certificate number on the NatHERS-stamp number on this Certificate?	ed plans match the					
Thermal performance check						
Windows and glazed doors		1				
Does the window size, opening type and location shown on the stamped plans or as installed match what is shown in 'Window schedule' and 'Roof window schedule' tables on this Certificate	e NatHERS- v and glazed door		D			
Does the installed windows meet the substitution tolerances (A SHGC* and U-values*) as shown in the 'Window and glazed d performance' and 'Roof window type and performance' tables	AFRC* based loor type and on this Certificate?					
External walls						
Does the external wall bulk insulation (R-value) shown on the l plans or as installed match what is shown in the External wall t Certificate?	NatHERS-stamped type table on this					
Does the external wall shade (colour) match what is shown in type' table on this Certificate?	the 'External wall					
Floor						
Does the floor insulation (R-value) shown on the NatHERS-sta installed match what is shown in the ' <i>Floor type</i> ' table on this c	amped plans or as certificate?					
Ceiling penetrations*	aliabte exhaust			ſ		
fans, etc) shown on the NatHERS-stamped plans or as installe shown in the ' <i>Ceiling penetrations</i> ' table on this Certificate?	ad match what is					
Ceiling				1	V	
Does the ceiling insulation (R-value) shown on the NatHERS-s installed match what is shown in the ' <i>Ceiling type</i> ' table on this	stamped plans or as certificate?					
NOOT Does the external roof shade (colour) on the NatHERS stampe installed match what is shown in the 'Boof two' table on this C	ed plans or as					
Apartment entrance doors (NCC Class 2 assessment	nts only)					
Does the 'External Door Schedule' show apartment entrance of Please note that an "external door" between the modelled dwe space, such as an enclosed corridor or foyer, should not be ind assessment (because it overstates the possible ventilation) an the Certificate.	doors? Illing and a shared cluded in the d would invalidate					
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) example, it is unlikely that a ground-floor apartment is "expose high-rise apartment is "protected".	) been applied? For d" or a top floor					
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values Standard 2022: NAtHERS heating and cooling load limits for th climate zone?	s in the ABCB he appropriate					

Ň	latHERS Certificate	7.4	Star Rat	ing as of	23 Jan 2(	025	
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
/	Thermal bridging		·		aren 1 - 1 ak		
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
4	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance as	sessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements	1.00					
A	Note: This Certificate only covers the energy efficiency requirements in the NCC. An include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements. dditional notes	dditional rec and any sta	quirements	s that must tory variatio	also be sat	isfied	

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7.4 Star Rating as of 23 Jan 2025

## Room schedule

Room	Zone Type	Area [m²]	
Master bed	bedroom	15.1	
WIR	dayTime	5.8	1
Ensuite masster bed	nightTime	10.1	
Bed 1	bedroom	16.4	
Ensuite bed 1	unconditioned	4.3	
Entry	dayTime	10.4	
Kitchen/Living	kitchen	52.8	1

# Window and glazed door type and performance

Default\* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availabl	e					
Custom* windows				Substitution to	elerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42	
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39	
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014, AGG PLUS WTrans Jam 638, 8, 4	2.83	0.39	0.37	0.41	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*
Master bed	CAP-055-108 A	Opening 35	2700	1016	fixed	0.0	w	No
Master bed	CAP-034-33 A	Opening 42	2700	1195	awning	60.0	W	No
Master bed	CAP-055-108 A	Opening 43	2700	739	fixed	0.0	W	No
Master bed	CAP-055-108 A	Opening 36	2700	1991	fixed	0.0	s	No
Bed 1	CAP-055-108 A	Opening 37	2700	2071	fixed	0.0	N	No
Bed 1	CAP-055-108 A	Opening 38	2700	962	fixed	0.0	W	No
Bed 1	CAP-034-33 A	Opening 44	2700	969	awning	60.0	W	No
Bed 1	CAP-055-108 A	Opening 45	2700	1107	fixed	0.0	W	No
Kitchen/Living	CAP-127-31 A	Opening 39	2700	6421	sliding	45.0	W	No

7.4 Star Rating as of 23 Jan 2025

# Roof window\* type and performance value

Boldar Pool mildowo					
				Substitu	ition tolerance ranges
		Maximum		SHGC lowe	er limit SHGC upper limit
Window ID	Window description	U-value*	SHG	C*	
No Data Available					
Custom* roof windows					
Custom" roof windows				Substitu	ition tolerance ranges
		Maximum			
Window ID	Window description	U-value*	SHG	C* SHGC lowe	er limit SHGC upper limit
No Data Available					
Roof window* se	chedule				
		Opening Are	a Width		Outdoor Indoor
Location Window	w ID Window no.	% [m²]	[mm]	Orientation	shade shade
No Data Available					
Skylight* type al	nd performance				
Skylight ID		Skylight descr	ription	Skylight s	shaft reflectance
No Data Available					
Skylight* schedu	ule				
Location		Sky	light shaft	Area Orier	nt- Outdoor
Location No Data	Skylight iD	Skylight No. Tenç	Juu (muu)	[m-] auon	i shade Dinuser
Available					
External door so	chedule				
External door so	chedule Height [mm]	Width [m	nm]	Opening %	Orientation
External door so Location No Data Available	chedule Height [mm]	Width [m	nm]	Opening %	Orientation
External door so Location No Data Available	chedule Height [mm]	Width [n	nm]	Opening %	Orientation
External door so Location No Data Available	Chedule Height [mm]	Width [m	1m]	Opening %	Orientation
External door so Location No Data Available External wall type	chedule Height [mm]	Width [m	nm] Wall shade	Opening % Bulk insulation	Orientation Reflective wall
External door so Location No Data Available External wall type Wall ID Wall type	Chedule Height [mm]	Width [m Solar absorptance	um] Wall shade [colour]	Opening % Bulk insulation [R-value]	Orientation Reflective wall wrap*
External door so Location No Data Available External wall type Wall ID Wall type 1-7 Waterfree	Chedule Height [mm] De ont Place, Port Melbourne -	Width [m Solar absorptance	nm] Wall shade [colour]	Opening % Bulk insulation [R-value] Glass fibre batt: F	Orientation Reflective wall wrap*
External door so         Location         No Data Available         External wall type         Wall ID       Wall type         1       1-7 Waterfree         Spandrel W	Chedule Height [mm] De ont Place, Port Melbourne - /all	Width [m Solar absorptance 0.5	mm] Wall shade [colour] Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5)	Orientation Reflective wall wrap*
External door so Location No Data Available External wall type Wall ID Wall type 1 -7 Waterfre Spandrel W	Checkle Height [mm] De ont Place, Port Melbourne - /all	Width [m Solar absorptance 0.5	mm] Wall shade [colour] Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H	Orientation Reflective wall wrap* R2.5 No x = 0.044
External door so         Location         No Data Available         External wall type         1         1-7 Waterfre         2	Checkle Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall	Width [m Solar absorptance 0.5 0.5	mm] Wall shade [colour] Medium Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)	Orientation          Reflective wall wrap*         R2.5       No         (x = 0.044 h3)       No
Wall ID       Wall type         1       1-7 Waterfree         2       1-7 Waterfree	Checkle Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall	Width [m Solar absorptance 0.5 0.5	mm] Wall shade [colour] Medium Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)	Orientation Reflective wall wrap* R2.5 No (= 0.044 13) No
Wall ID       Wall type         1       1-7 Waterfrom Spandrel Weil         2       1-7 Waterfrom Internal Place	Checkle Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall	Width [m Solar absorptance 0.5 0.5	m] Wall shade [colour] Medium Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)	Orientation Reflective wall wrap* R2.5 No x = 0.044 h3) No
Wall ID       Wall type         1       1-7 Waterfree         2       1-7 Waterfree         1       1-7 Waterfree <t< td=""><td>chedule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall</td><td>Width [m Solar absorptance 0.5 0.5</td><td>mm] Wall shade [colour] Medium Medium</td><td>Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)</td><td>Orientation Reflective wall wrap* R2.5 No ( = 0.044 h3) No</td></t<>	chedule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall	Width [m Solar absorptance 0.5 0.5	mm] Wall shade [colour] Medium Medium	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)	Orientation Reflective wall wrap* R2.5 No ( = 0.044 h3) No
Wall ID       Wall type         1       1-7 Waterfree         2       1-7 Waterfree         1       1-7 Waterfree <t< td=""><td>checlule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall</td><td>Width [m Solar absorptance 0.5 0.5 0.5</td><td>mm] Wall shade [colour] Medium Medium Hor</td><td>Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)</td><td>Orientation Reflective wall wrap* R2.5 No (= 0.044 h3) No Vertical shading</td></t<>	checlule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall	Width [m Solar absorptance 0.5 0.5 0.5	mm] Wall shade [colour] Medium Medium Hor	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5)	Orientation Reflective wall wrap* R2.5 No (= 0.044 h3) No Vertical shading
External door so Location No Data Available External wall type 1 Tr Waterfro Spandrel W 2 Tr Waterfro Internal Place External wall sc Location	chedule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall chedule Height Wall ID [mm]	Width [m Solar absorptance 0.5 0.5 0.5 Width [mm] Orie	wall shade [colour] Medium Medium Hor feat	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5) Fizontal shading ture* maximum jection [mm]	Orientation          Reflective wall wrap*         R2.5       No         (x = 0.044 h3)       No         Vertical shading feature* (yes/no)
External door so Location No Data Available External wall type 1 1-7 Waterfro Data Available 1 1-7 Waterfro Internal Place External wall sc Location	chedule Height [mm] De ont Place, Port Melbourne - /all ont Place, Port Melbourne - sterboard Stud Wall chedule Height Wall ID [mm]	Width [m Solar absorptance 0.5 0.5 0.5	mm] Wall shade [colour] Medium Medium Hor feat	Opening % Bulk insulation [R-value] Glass fibre batt: F (R2.5) Glass fibre batt (H density = 12 kg/m (R2.5) rizontal shading ture* maximum jection [mm]	Orientation Reflective wall wrap* R2.5 No (= 0.044 13) No Vertical shading feature* (yes/no)

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 9, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

7.4 Star Rating as of 23 Jan 2025

Master bed	1	2700	3040	W	751	No
Master bed	1	2700	2203	S	6698	Yes
Master bed	1	2400	124	W	0	Yes
Master bed	2	2700	4878	Ν	0	No
WIR	2	2700	1850	Ν	0	No
Ensuite masster bed	2	2700	3076	E	0	No
Ensuite masster bed	2	2700	3287	N	0	No
Bed 1	1	2700	2208	N	6699	Yes
Bed 1	1	2700	3097	W	746	No
Bed 1	2	2700	4505	S	0	No
Ensuite bed 1	2	2700	2221	S	0	No
Entry	2	2700	3394	S	0	No
Entry	2	2700	3063	E	0	No
Kitchen/Living	1	2700	6421	W	2954	Yes
Kitchen/Living	2	2700	6448	E	0	No

# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	78.9	

# Floor type

I see them	0	Sub-floor		Added insulation	0
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Master bed	FR5 - 200mm concrete slab	15.1	Enclosed	R0.0	Carpet
WIR	FR5 - 200mm concrete slab	5.8	Enclosed	R0.0	Carpet
Ensuite masster bed	FR5 - 200mm concrete slab	10.1	Enclosed	R0.0	Tiles
Bed 1	FR5 - 200mm concrete slab	16.4	Enclosed	R0.0	Carpet
Ensuite bed 1	FR5 - 200mm concrete slab	4.3	Enclosed	R0.0	Tiles
Entry	FR5 - 200mm concrete slab	10.4	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	52.8	Enclosed	R0.0	Timber

# Ceiling type

Location		Construction material/type	Bulk insulat [may include	on R-value edge batt value:	Reflective ] wrap*
No Data Available					
Ceiling <i>penetrations</i> *	Quantity	Туре	Height [mm]	Width [mm] Sealer	d/unsealed
Master bed	6	Downlights	80	80 Seale	d
WIR	2	Downlights	80	80 Seale	d

\*Refer to glossary.

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NatHERS Certificate	7.4 Star Rating as of 23 Jan 2025			
Ensuite masster bed	4	Downlights	80 80	Sealed
Ensuite masster bed	1	Exhaust Fans	250 250	Sealed
Bed 1	7	Downlights	80 80	Sealed
Ensuite bed 1	2	Downlights	80 80	Sealed
Ensuite bed 1	1	Exhaust Fans	250 250	Sealed
Entry	4	Downlights	80 80	Sealed
Kitchen/Living	22	Downlights	80 80	Sealed
Kitchen/Living	1	Exhaust Fans	250 250	Sealed
Ceiling <i>fans</i>			Quantity	Diameter [mm]
No Data Available				
Roof type		Added insulation		
Construction		[R-value]	Solar absorptance	Roof shade [colour]
Slab:Slab - Suspended Slab	: 200mm: 200mm	0.0	0.5	Medium
Suspended Slab				
Thermal bridging s	chedule for stee eel section dimensions	el frame elemen	nts Steel thickness	Thermal break
Building element [he	eight x width, mm]	Frame spacing [mi	n] [BMT,mm]	[R-value]
No Data Available				
(not applicable if a Whole of	f Home performance as	sessment is not con	ducted for this certificate)	
Note: A flat assumption of 5V Cooling system	//m2 is used for lighting,	therefore lighting is not	included in the appliance s	chedule.
			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No whole of Home performa	ince assessment conduct	ed for this certificate.		
Heating system				
rieating system			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home performation Hot water system	ince assessment conduct	ted for this certificate.		
	Mi	nimum ficiency/	t Water CEP	Assessed daily
Appliance/ system type	Fuel type pe	rformance	Zone Zone 3	STC load
No Whole of Home performa	ince assessment conduct	ted for this certificate.		



7.4 Star Rating as of 23 Jan 2025

Size [battery storage capacity]

Pool/spa equipment			
		Minimum efficiency	Recommended
Appliance/ system type	Fuel type	performance	capacity
No Whole of Home performance assessn	nent conducted for this certificate.		

## Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

 System type
 Orientation
 System size or generation capacity

 No Whole of Home performance assessment conducted for this certificate.

## Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

### System type

No Whole of Home performance assessment conducted for this certificate.

## Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

### 7.4 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

## Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating
	and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some
COR	circumstances it will include garages.
	Controlling light of Net/UEDC activities that are qualified as the mediat in Anatolic and have a MUEDC (Mindow Energy Define
Custom windows	Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated
	corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the boiltoptal plane, e.g. aques, verandabs, paraplas, campate, or evertange or balcopies from
Honzontal shaung leature	upper levels.
National Construction Code	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or
(NCC) Class	4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a
	provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can
	be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or
Pofloctivo wrap (also known	contex services, this is a recommendation and the main selection sizing should be commend by a suitably quanted person.
as foil)	can be applied to waits, roots and centrifs, when combined with an appropriate all gap and emissivity value, it provides insulative properties
Boof window	for NathERS this is typically an operable window (i.e. can be opened) will have a plaster or similar light well if there is an attic space
	and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
lights)	

#### 7.4 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

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U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 9, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 91GRRM7TP5

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 11, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

## Plans

Main plan Prepared by

## **Construction and environment**

Rev M

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 114.5 Unconditioned\* 3.6 Total 118.1 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

# **★** Accredited assessor

 Name
 Gary Wertheimer

 Business name
 GIW Environmental Solutions

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 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions State/Territory variation

Volume 1 Yes

### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

## Thermal performance star rating



# 57.1 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	43.3	13.8
Load limits	N/A	N/A

### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

## Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

## Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 11

## About the ratings

### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable
    - Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7.2 Star Rating as of 23 Jan 2025

## Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

Graph key:

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary

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Mattico	C Cart	ficato
NACHER	2 CEIL	Incale

## 7.2 Star Rating as of 23 Jan 2025

Certificate check	Approval stage	Construction stage					
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	checked authority/ checked	hecked authority/ checked	cy/other				
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assessor Consent surveyor	Builder cl Consent surveyor	Occupan				
Genuine certificate check							
Does this Certificate match the one available at the web address or QR code verification link on the front page?							
Does the NatHERS certificate number on the NatHERS-stamped plans match number on this Certificate?	n the						
Thermal performance check							
Windows and glazed doors							
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed do schedule' and 'Roof window schedule' tables on this Certificate?	or 🗌 🗌						
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certification of the substitution of the substitution to the substit substit	ate?						
External walls							
Does the external wall bulk insulation (R-value) shown on the NatHERS-stam plans or as installed match what is shown in the External wall type table on th Certificate?	ped I						
Does the external wall shade (colour) match what is shown in the 'External wat type' table on this Certificate?							
Floor							
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?	as 🗌 🗌						
Ceiling penetrations*							
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaus fans, etc) shown on the NatHERS-stamped plans or as installed match what i shown in the 'Ceiling penetrations' table on this Certificate?	s D D						
Ceiling							
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?	or as						
Roof							
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?							
Apartment entrance doors (NCC Class 2 assessments only)							
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a sha space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalid the Certificate.	ate						
Exposure*							
Has the appropriate exposure type (terrain) (shown on page 1) been applied? example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".	For						
Heating and cooling load limits*							
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?							
NatHERS Certificate         7.2 Star Rating as of 23 Jan 2025							
---	---	------------------	--	-----------------------------	--	-----------------	---
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
4	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
Ż	Thermal bridging		_				
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
2	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		·				
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance as	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)			12 14	
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ac include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	and any st	quirements ate or territ	that must tory variation	also be sat	ICC	
1	idditional notes					1	

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7.2 Star Rating as of 23 Jan 2025

### Room schedule

Room	Zone Type	Area [m²]
Entry	dayTime	9.8
Kitchen/Living	kitchen	55.1
Pantry	dayTime	3.3
Bed 1	bedroom	14.6
Master bed	bedroom	15.5
Bathroom	unconditioned	3.6
WIR	nightTime	4.7
Ensuite	nightTime	11.6

# Window and glazed door type and performance

Default\* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					
Custom* windows					
				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*
Kitchen/Living	CAP-127-31 A	Opening 86	2700	7046	sliding	45.0	N	No
Kitchen/Living	CAP-055-108 A	Opening 88	2700	891	fixed	0.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 89	2700	1653	fixed	0.0	w	No
Kitchen/Living	CAP-034-33 A	Opening 91	2700	1372	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 92	2700	1143	fixed	0.0	W	No
Pantry	CAP-034-33 A	Opening 93	2700	1039	awning	60.0	W	No
Pantry	CAP-055-108 A	Opening 94	2700	327	fixed	0.0	W	No
Bed 1	CAP-055-108 A	Opening 84	2700	1180	fixed	0.0	N	No
Bed 1	CAP-034-33 A	Opening 95	2700	1222	awning	60.0	N	No

\*Refer to glossary.

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NatHERS Certif	ficate				7.2 S	tar Rating as of	23 Ja	n 2025
Bed 1	CAP-055-108 A	Opening 96	2700	1106	fixed	0.0	Ν	No
Master bed	CAP-055-108 A	Opening 82	2700	1418	fixed	0.0	N	No
Master bed	CAP-034-33 A	Opening 97	2700	1314	awning	60.0	N	No
Master bed	CAP-055-108 A	Opening 98	2700	1053	fixed	0.0	Ν	No

# Roof window\* type and performance value

Default\* roof windows

						Substitution tolerance ranges			
Window ID	Win	dow description	Maxin U-val	mum lue*	SHGC*	SHGC lower limit	SHGC upper limit		
No Data A	vailable								
Custom* ro	of windows								
			Maxi	mum		Substitution to	olerance ranges		
Window ID	Win	dow description	U-val	ue*	SHGC*	SHGC lower limit	SHGC upper limit		
No Data A	vailable								
Roof w	indow* sched	dule	Opening	Area	Width	Outdo	oor Indoor		
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation shade	e shade		
No Data A	vailable								
Skyligh	t* <i>type and p</i>	performance							
Skylight ID	)		Skylight o	lescription		Skylight shaft r	eflectance		
No Data A	vailable								
Skyligh Location	t* <i>schedule</i> s	kylight ID	Skylight No.	Skylight sl length [mr	haft n]	Area Orient- [m²] ation	Outdoor shade Diffuser		
No Data									
Available									
Externs	al door scher								
Location		Height [mm]	Wid	th [mm]	,	Opening % Orie	entation		
No Data A	vailable								
Externa	al wall <i>type</i>		0. Jun	M/-11 -1	na da Di				
Wall ID	Wall type		absorptar	wall sr nce [coloui	nade Bu r] [R	-value]	wrap*		
1	1-7 Waterfront Pla Concrete Int	ace, Port Melbourne -	0.5	Mediur	G m de (F	lass fibre batt (k = 0.0 ensity = 12 kg/m3) R1.8)	44 No		
2	1-7 Waterfront Pla Internal Plasterbo	ace, Port Melbourne - pard Stud Wall	0.5	Mediur	G n de (F	lass fibre batt (k = 0.0 ensity = 12 kg/m3) 82.5)	44 No		
			÷						

7.2 Star Rating as of 23 Jan 2025

3	1-7 Waterfront Pla Spandrel Wall	ice, Port Me	lbourne -	0.5	Medium	Glass fibre batt: (R2.5)	R2.5 No
External	wall sched	ule					
						Horizontal shading	
Location		Wall ID	Height [mm]	Width [mm]	Orientation	feature* maximum projection [mm]	Vertical shading feature* (ves/no)
Entry		1	2700	1729	S	0	No
Entry		1	2700	2822	w	0	No
Entry		2	2700	1333	S	0	No
Kitchen/Living	g	3	2700	282	NE	0	Yes
Kitchen/Living	g	3	2700	7169	N	5770	Yes
Kitchen/Living	g	3	2700	918	W	694	Yes
Kitchen/Living	g	3	2700	1675	W	694	Yes
Kitchen/Living	g	3	2700	1464	W	694	Yes
Kitchen/Living	g	3	2700	1202	W	694	Yes
Kitchen/Living	g	1	2700	6040	S	0	No
Pantry		3	2700	1605	W	706	Yes
Pantry		3	2700	966	W	706	Yes
Pantry		1	2700	1273	S	0	No
Bed 1		3	2700	3575	Ν	954	No
Master bed		2	2700	3705	E	0	No
Master bed		3	2700	3887	N	756	No
Bathroom		2	2700	506	S	0	No
WIR		2	2700	2828	E	0	No
Ensuite		2	2700	4293	E	0	No
Ensuite		2	2700	4293	W	0	No
Ensuite		2	2700	2710	S	0	No

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ] Bulk insulation	
1	FR5 - Internal Plasterboard Stud Wall	84.6	

# Floor type

			Sub-floor	Added insulation	
Location	Construction A	Area [m²]	ventilation	[R-value]	Covering
Entry	FR5 - 200mm concrete slab	9.8	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	55.1	Enclosed	R0.0	Timber
Pantry	FR5 - 200mm concrete slab	3.3	Enclosed	R0.0	Timber
Bed 1	FR5 - 200mm concrete slab	14.6	Enclosed	R0.0	Carpet
Master bed	FR5 - 200mm concrete slab	15.5	Enclosed	R0.0	Carpet

Al at	LEDC	Contificate	
Nat	<b>HEKS</b>	Gertificate	

7.2 Star Rating as of 23 Jan 2025

Bathroom	FR5 - 200mm concrete slab	3.6	Enclosed	R0.0	Tiles
WIR	FR5 - 200mm concrete slab	4.7	Enclosed	R0.0	Carpet
Ensuite	FR5 - 200mm concrete slab	11.6	Enclosed	R0.0	Tiles

# Ceiling type

Location			Construction material/type	Bulk insulati [may include	on R-value edge batt	e F values] v	Reflective vrap*
No Data Available							
Ceiling penetra	ations*						
				Height	Width		
Location		Quantity	Туре	[mm]	[mm]	Sealed/unse	aled
Entry		4	Downlights	80	80	Sealed	

Kitchen/Living	22	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Pantry	2	Downlights	80	80	Sealed
Bed 1	6	Downlights	80	80	Sealed
Master bed	6	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
WIR	2	Downlights	80	80	Sealed
Ensuite	5	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed

# Ceiling fans

Location		C	Quantity	Diameter [mm]
No Data Available				
Roof type		Added insulation		
Construction		[R-value]	Solar absorptance	Roof shade [colour]
Slab:Slab - Suspend Suspended Slab	led Slab : 200mm: 200mm	0.0	0.5	Medium

### Thermal bridging schedule for steel frame elements

Building element No Data Available Steel section dimensions [height x width, mm]

Steel thickness
Frame spacing [mm] [BMT,mm]

Thermal break [R-value]

# Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate) Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

\*Refer to glossary.

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NatHERS Certificate			7.2 Star Rating as of 2	3 Jan 2025
Cooling system				
Appliance/ system type	Location	Fuel type	Minimum efficiency/	Recommended
No Whole of Home performa	nce assessment con	ducted for this certificate	performance	cupucity
Heating system				D
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home performa	nce assessment con	ducted for this certificate		
Hot water system				
		Minimum		
		efficiency/ H	lot Water CER	Assessed daily
Appliance/ system type		performance	Zone Zone 3 S	arc load
No whole of Home performa	nce assessment cond	ducted for this certificate		
Pool/spa equipment			Minimum efficiency/	Recommended
Appliance/ system type		Fuel type	performance	capacity
No Whole of Home performa	nce assessment cond	ducted for this certificate	<u> </u>	
Onsite renewable e	energy schedu	ule		
(not applicable if a Whole of	f Home performance	e assessment is not co	nducted for this certificate)	
System type		Orientation	System size or gener	ation capacity
No Whole of Home performa	nce assessment cond	ducted for this certificate		
Battery schedule				
(not applicable if a Whole of	f Home performance	e assessment is not co	nducted for this certificate)	
System type			Sizo Ibattory storago	canacitul
No Whole of Home performa	nce assessment con	lucted for this certificate	Size [ballery Storage	capacity

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 7.2 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 7.2 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 11, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. C4JLEJTYDQ

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 10, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 184.4 Unconditioned\* 4.6 Total 189 Garage - Exposure type open NatHERS climate zone 21 Melbourne RO

# **★** Accredited assessor

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 Gary Wertheimer

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 GIW Environmental Solutions

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 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation
 Design Matters National

 Declaration of interest
 No

# **NCC Requirements**

NCC provisions State/Territory variation

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating



# 56.8 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	32.9	23.9		
Load limits	N/A	N/A		

#### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

# Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable
    - Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7.3 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

Graph key:

No Whole of Home performance assessment conducted for this certificate.

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 10, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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Nathers	Certificate

### 7.3 Star Rating as of 23 Jan 2025

Certificate check	Approval	stage	Construct stage	tion		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	sor checked	nt authority/ or checked	checked	nt authority/ or checked	ancy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assess	Consel survey	Builder	Consei survey	Occup	
Genuine certificate check						
Does this Certificate match the one available at the web address or QR code verification link on the front page?						
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?						
Thermal performance check						C
Windows and glazed doors						
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?			D			
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?						
External walls			1			
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?	<b>P</b>				0	
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?						
Floor						
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?						
Ceiling penetrations*			(			
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?						
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?						
Roof						
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?						
Apartment entrance doors (NCC Class 2 assessments only)						
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.						
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".						
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?						
		-				

i	latHERS Certificate	7.3	Star Rat	ing as of	23 Jan 20	025	
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
2	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
7	Thermal bridging		<u> </u>		a and a sub-		
	Does the dwelling meet the NCC requirement for thermal bridging?						
	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance as	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check	A					
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ac include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	that must tory variatio	also be sat	isfied ICC	
7	idditional notes					1	

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7.3 Star Rating as of 23 Jan 2025

### Room schedule

Bed 3bedroom14.2WIR bed 3nightTime7.9Ensuite bed 3nightTime8.4StoragedayTime6.7Bathroomunconditioned4.6Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Room	Zone Type	Area [m²]
WIR bed 3nightTime7.9Ensuite bed 3nightTime8.4StoragedayTime6.7Bathroomunconditioned4.6Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Bed 3	bedroom	14.2
Ensuite bed 3nightTime8.4StoragedayTime6.7Bathroomunconditioned4.6Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	WIR bed 3	nightTime	7.9
StoragedayTime6.7Bathroomunconditioned4.6Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Ensuite bed 3	nightTime	8.4
Bathroom4.6Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Storage	dayTime	6.7
Bed 2bedroom19.7Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Bathroom	unconditioned	4.6
Bed 1bedroom14WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Bed 2	bedroom	19.7
WIR bed 1dayTime7.9Ensuite bed 1nightTime7.6EntrydayTime29.4StudydayTime3.9Kitchen/Livingkitchen64.6	Bed 1	bedroom	14
Ensuite bed 1     nightTime     7.6       Entry     dayTime     29.4       Study     dayTime     3.9       Kitchen/Living     kitchen     64.6	WIR bed 1	dayTime	7.9
Entry     dayTime     29.4       Study     dayTime     3.9       Kitchen/Living     kitchen     64.6	Ensuite bed 1	nightTime	7.6
Study     dayTime     3.9       Kitchen/Living     kitchen     64.6	Entry	dayTime	29.4
Kitchen/Living 64.6	Study	dayTime	3.9
-	Kitchen/Living	kitchen	64.6

# Window and glazed door type and performance

Default\* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Availabl	e				
Custom* windows				Substitution to	lerance ranges
Nindow ID No Data Available Custom* windows Nindow ID N CAP-034-33 A CAP-055-108 A CAP-127-31 A	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0,38	0.42
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bed 3	CAP-034-33 A	Opening 67	2700	1215	awning	60.0	w	No	
Bed 3	CAP-055-108 A	Opening 75	2700	1230	fixed	0.0	w	No	
Bed 3	CAP-055-108 A	Opening 68	2700	930	fixed	0.0	W	No	
Bed 2	CAP-055-108 A	Opening 60	2700	1133	fixed	0.0	N	No	
Bed 2	CAP-034-33 A	Opening 78	2700	1202	awning	60.0	N	No	

NatHERS Certif	icate				7.3 S	Star Rating as of	23 Jan 2	025
Bed 2	CAP-055-108 A	Opening 79	2700	927	fixed	0.0	Ν	No
Bed 2	CAP-055-108 A	Opening 62	2700	960	fixed	0.0	W	No
Bed 1	CAP-055-108 A	Opening 70	2700	795	fixed	0.0	E	No
Bed 1	CAP-055-108 A	Opening 69	2700	1388	fixed	0.0	Е	No
Bed 1	CAP-055-108 A	Opening 57	2700	1458	fixed	0.0	NE	No
Bed 1	CAP-055-108 A	Opening 58	2700	1002	fixed	0.0	Ν	No
Bed 1	CAP-055-108 A	Opening 59	2700	927	fixed	0.0	Ν	No
Bed 1	CAP-034-33 A	Opening 80	2700	876	awning	60.0	Ν	No
WIR bed 1	CAP-055-108 A	Opening 72	2700	1274	fixed	0.0	E	No
WIR bed 1	CAP-055-108 A	Opening 71	2700	514	fixed	0.0	E	No
Ensuite bed 1	CAP-055-108 A	Opening 83	2700	1202	fixed	0.0	Е	No
Ensuite bed 1	CAP-055-108 A	Opening 81	2700	978	fixed	0.0	Е	No
Ensuite bed 1	CAP-034-33 A	Opening 82	2700	551	awning	60.0	E	No
Kitchen/Living	CAP-127-31 A	Opening 63	2700	9835	sliding	45.0	N	No
Kitchen/Living	CAP-055-108 A	Opening 66	2700	1023	fixed	0.0	W	No
Kitchen/Living	CAP-034-33 A	Opening 76	2700	1350	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 77	2700	5561	fixed	0.0	W	No

# Roof window\* type and performance value

Default\* roof windows

	Window ID	Windo	ow description	Maxi U-va	mum lue*	SHGC*	SHGC low	ver limit	SHGC upper limit
	No Data Avail	able							
	Custom* roof v	vindows		Maxi	mum		Substit	<b>ution tole</b>	rance ranges
	Window ID	Windo	ow description	U-va	lue*	SHGC*			
	No Data Avail	able							
	Roof wind	dow* schedu	ıle						
				Opening	Area	Width		Outdoor	Indoor
	Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
	No Data Avail	able							
	Skylight*	type and pe	orformance						
	Skylight ID			Skylight o	descriptio	on	Skylight	shaft refle	ectance
	No Data Avail	able							
	Skylight*	schedule					•		
	Location	Sky	light ID	Skylight No.	Skylight length [	t shaft mm]	Area Orio [m²] atio	ent-Ou n sha	tdoor ade Diffuser
*Re	fer to glossary.								

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 10, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Substitution tolerance ranges

7.3 Star Rating as of 23 Jan 2025

#### No Data Available

# External door schedule

Location		Height [mm]	Width [mm]	Opening %	Orientation	
No Data Available						

# External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*	
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No	
2	1-7 Waterfront Place, Port Melbourne - Spandrel Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No	
3	1-7 Waterfront Place, Port Melbourne - Concrete Int	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.8)	No	

# External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Bed 3	1	2700	4852	S	0	No
Bed 3	2	2700	2486	W	825	No
Bed 3	2	2700	998	W	677	No
WIR bed 3	1	2700	2455	S	0	No
Ensuite bed 3	1	2700	2663	S	0	No
Storage	3	2700	2547	S	0	No
Bathroom	3	2700	1748	S	0	No
Bed 2	2	2700	3323	Ν	750	No
Bed 2	2	2700	1159	W	16248	Yes
Bed 1	2	2700	913	E	749	Yes
Bed 1	2	2700	1425	E	749	Yes
Bed 1	2	2700	1555	NE	762	No
Bed 1	2	2700	1079	Ν	1172	No
Bed 1	2	2700	1897	N	720	No
WIR bed 1	2	2700	1377	E	785	Yes
WIR bed 1	2	2700	529	E	785	Yes
Ensuite bed 1	3	2700	3350	S	0	No
Ensuite bed 1	2	2700	1222	Е	775	Yes
Ensuite bed 1	2	2700	1555	E	775	Yes
Entry	1	2700	1791	S	0	No

7.3 Star Rating as of 23 Jan 2025

Entry	3	2700	2828 E	0	No
Entry	3	2700	1156 S	0	No
Entry	1	2700	2372 W	0	No
Kitchen/Living	2	2700	9815 N	4838	Yes
Kitchen/Living	2	2700	8003 W	755	No

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation	
1	FR5 - Internal Plasterboard Stud Wall	178		

# Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Bed 3	FR5 - 200mm concrete slab	14.2	Enclosed	R0.0	Carpet
WIR bed 3	FR5 - 200mm concrete slab	7.9	Enclosed	R0.0	Carpet
Ensuite bed 3	FR5 - 200mm concrete slab	8.4	Enclosed	R0.0	Tiles
Storage	FR5 - 200mm concrete slab	6.7	Enclosed	R0.0	Timber
Bathroom	FR5 - 200mm concrete slab	4.6	Enclosed	R0.0	Tiles
Bed 2	FR5 - 200mm concrete slab	19.7	Enclosed	R0.0	Carpet
Bed 1	FR5 - 200mm concrete slab	14	Enclosed	R0.0	Carpet
WIR bed 1	FR5 - 200mm concrete slab	7.9	Enclosed	R0.0	Carpet
Ensuite bed 1	FR5 - 200mm concrete slab	7.6	Enclosed	R0.0	Tiles
Entry	FR5 - 200mm concrete slab	29.4	Enclosed	R0.0	Timber
Study	FR5 - 200mm concrete slab	3.9	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	64.6	Enclosed	R0.0	Timber

# Ceiling type

Location		Construction material/type	Bulk insulatio [may include	on R-value edge bat	e Reflec t values] wrap*	ctive
No Data Available						
Ceiling penetrations*			Height	Width		
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed	
Bed 3	6	Downlights	80	80	Sealed	
WIR bed 3	3	Downlights	80	80	Sealed	
Ensuite bed 3	3	Downlights	80	80	Sealed	
Ensuite bed 3	1	Exhaust Fans	250	250	Sealed	
Storage	3	Downlights	80	80	Sealed	

Downlights

Exhaust Fans

80

250

80

250

Sealed

Sealed

Bathroom

Bathroom

2

1

NatHERS Certificate			7.3 Star Rati	ing as of 2	3 Jan 2025	
Bed 2	8	Downlights	80	80	Sealed	
Bed 1	6	Downlights	80	80	Sealed	
WIR bed 1	3	Downlights	80	80	Sealed	
Ensuite bed 1	3	Downlights	80	80	Sealed	
Ensuite bed 1	1	Exhaust Fans	250	250	Sealed	
Entry	12	Downlights	80	80	Sealed	
Study	2	Downlights	80	80	Sealed	
Kitchen/Living	26	Downlights	80	80	Sealed	
Kitchen/Living	1	Exhaust Fans	250	250	Sealed	
Ceiling fans						
Location		Qı	uantity		Diameter [mm]	
No Data Available						
Poof type						
Rooi <i>type</i>		Added insulation				
Construction		[R-value]	Solar absor	ptance	Roof shade [colour]	
Slab:Slab - Suspended Slab : 200	)mm: 200mm	0.0	0	.5	Medium	
Suspended Slab						
Thormal building ach	adula far ata	ol from a clamant				
Thermal bridging sche	equie for sie	er hame elements	Cés al ébialem		The small basels	
Building element [height	x width, mm]	Frame spacing [mm]	[BMT,mm]	less	[R-value]	
No Data						
Available						
Appliance <i>schedule</i>		accompant in not conduc	stad for this of	()		
Note: A flat assumption of 5W/m2	is used for lighting	, therefore lighting is not inc	cluded in the a	opliance sc	hedule.	
Cooling system						
Appliance/ system type	cation	Mi Euclitype po	nimum efficie	ncy/	Recommended	
No Whole of Home performance	assessment condu	icted for this certificate	nonnance		сарасну	
Heating system						
		Mi	nimum efficie	ncy/	Recommended	
Appliance/ system type Lo	ocation	Fuel type pe	rformance		capacity	,
No Whole of Home performance	assessment condu	icted for this certificate.				
	4	Minimum				
	e	efficiency/ Hot W	Vater CER		Assessed daily	
Appliance/ system type Fu	el type p	performance	Zone	Zone 3 S	TC load	
NO WHOLE OF Home performance						
	assessment condu	icted for this certificate.				

\*Refer to glossary.

1



7.3 Star Rating as of 23 Jan 2025

Size [battery storage capacity]

Pool/spa equipment			
		Minimum efficiency/	Recommended
Appliance/ system type	Fuel type	performance	capacity
No Whole of Home performance assessme	nt conducted for this certificate.		

### Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

 System type
 Orientation
 System size or generation capacity

 No Whole of Home performance assessment conducted for this certificate.

### Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

#### System type

No Whole of Home performance assessment conducted for this certificate.

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 7.3 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 7.3 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 10, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS<sup>®</sup> Certificate No. R390J18QUB

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 12, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Туре

Class 2 New Home

### Plans

Main plan Rev M Prepared by

### Construction and environment

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 128.3 Unconditioned\* 5.3 Total 133.6 Garage

Exposure type open NatHERS climate zone 21 Melbourne RO

# Accredited assessor

Gary Wertheimer Name **Business name GIW Environmental Solutions** Email gary@giw.com.au 0390445111 Phone Accreditation No. DMN/10/2024 Assessor Accrediting Organisation **Design Matters National Declaration of interest** No

# NCC Requirements

NCC provisions Volume 1 State/Territory variation

Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories

### Thermal performance star rating

more energy efficient

# 66.3 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	54.8	11.5		
Load limits	N/A	N/A		

#### Features determining load limits

Floor type	N//
(lowest conditioned area)	
NCC climate zone 1 or 2	N
Outdoor living area	N
Outdoor living area ceiling fan	Ν

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

### Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary

Page 1 of 12

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:

Yes

- No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No
  - NA not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.8 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 12, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS	Certificate
THREET IMPLY OF	ouriniouro

### 6.8 Star Rating as of 23 Jan 2025

Certificate check	A	Approval s	stage	Constructi stage	on		
The checklist covers important items impacting the dwelling's ratio It is recommended that the accuracy of the whole certificate is che	ngs. ecked.	checked	uthority/ checked	ecked	uthority/ checked	y/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.		Assessor	Consent a surveyor o	Builder ch	Consent a surveyor o	Occupanc	
Genuine certificate check							
Does this Certificate match the one available at the web address verification link on the front page?	or QR code						
Does the NatHERS certificate number on the NatHERS-stamped number on this Certificate?	plans match the		D				
Thermal performance check			-				
Windows and glazed doors							
Does the window size, opening type and location shown on the N stamped plans or as installed match what is shown in 'Window ar schedule' and 'Roof window schedule' tables on this Certificate?	latHERS- nd glazed door		<b></b>	Π			
Does the installed windows meet the substitution tolerances (AFF SHGC* and U-values*) as shown in the 'Window and glazed door performance' and 'Roof window type and performance' tables on	RC* based r type and this Certificate?						
External walls							
Does the external wall bulk insulation (R-value) shown on the Nat plans or as installed match what is shown in the External wall type Certificate?	tHERS-stamped e table on this						
Does the external wall shade (colour) match what is shown in the type' table on this Certificate?	'External wall						
Floor							
Does the floor insulation (R-value) shown on the NatHERS-stamp installed match what is shown in the 'Floor type' table on this cert	ped plans or as ificate?						
Ceiling penetrations*							
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlig fans, etc) shown on the NatHERS-stamped plans or as installed r shown in the 'Ceiling penetrations' table on this Certificate?	ghts, exhaust match what is						
Ceiling							
Does the ceiling insulation (R-value) shown on the NatHERS-star installed match what is shown in the ' <i>Ceiling type</i> ' table on this Ce	mped plans or as ertificate?						
Roof							
Does the external root shade (colour) on the NatHERS stamped p installed match what is shown in the 'Roof type' table on this Cert	plans or as ificate?						
Apartment entrance doors (NCC Class 2 assessments	s only)						
Does the 'External Door Schedule' show apartment entrance doo Please note that an "external door" between the modelled dwellin space, such as an enclosed corridor or foyer, should not be includ assessment (because it overstates the possible ventilation) and w the Certificate.	rs? g and a shared ded in the vould invalidate						
Exposure*							
Has the appropriate exposure type (terrain) (shown on page 1) be example, it is unlikely that a ground-floor apartment is "exposed" high-rise apartment is "protected".	een applied? For or a top floor						
Heating and cooling load limits*							
Do the load limits settings (shown on page 1) match the values in Standard 2022: NAtHERS heating and cooling load limits for the a climate zone?	the ABCB appropriate						

i	latHERS Certificate	6.8	Star Rat	ing as of	23 Jan 20	025	
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
2	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
2	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
Ì	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q				
	Whole of Home performance check (not applicable if a Whole of Home performance check	ormance as	ssessment	is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the NatH	ERS asse	essment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check	A					
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ac include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional rec and any sta	quirements ate or territ	that must tory variatio	also be sat	isfied ICC	
,						1	

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6.8 Star Rating as of 23 Jan 2025

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### Room schedule

Room	Zone Type	Area [m²]
Bed 1	bedroom	16.9
Bathroom	unconditioned	5.3
Storage	dayTime	3.5
Kitchen/Living	kitchen	60.4
Study	dayTime	5.5
Bed 2	bedroom	13
Entry	dayTime	7.5
Ensuite	nightTime	5.1
WIR	dayTime	4.8
Master bed	bedroom	11.7

# Window and glazed door type and performance

Default\* windows

			6	Jubstitution to	ferance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Availabl	e				
Custom* windows				Substitution to	elerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
CAP-034-33 A	Urban 582 Awning Window DG	3.35	0.37	0.35	0.39

CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	0.4	0.38	0.42
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	0.39	0.37	0.41

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bed 1	CAP-034-33 A	Opening 116	2700	879	awning	60.0	w	No	
Bed 1	CAP-055-108 A	Opening 115	2700	2270	fixed	0.0	W	No	
Bed 1	CAP-055-108 A	Opening 114	2700	1057	fixed	0.0	SW	No	_
Bed 1	CAP-055-108 A	Opening 113	2700	1225	fixed	0.0	s	No	
Bed 1	CAP-127-31 A	Opening 112	2700	947	sliding	45.0	S	No	
Kitchen/Living	CAP-127-31 A	Opening 109	2700	5016	sliding	45.0	S	No	
Kitchen/Living	CAP-055-108 A	Opening 110	2700	2237	fixed	0.0	S	No	7

6.8 Star Rating as of 23 Jan 2025

Kitchen/Living	CAP-127-31 A	Opening 111	2700	4901	sliding	45.0	S	No
Bed 2	CAP-127-31 A	Opening 107	2700	2965	sliding	45.0	S	No
Master bed	CAP-127-31 A	Opening 105	2700	3031	sliding	45.0	S	No

# Roof window\* type and performance value

Default\* roof windows

				Substitution to	olerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					
Custom* roof window	NS				
				Substitution to	olerance ranges
Window ID	Window description	Maximum	SHCC*	SHGC lower limit	SHGC upper limit
No Data Available	window description	0-value	3660		
No Data Available					
<b>Boof window</b>	* cobodulo				
ROOI WINDOW	schedule	Opening Area	Width	Outda	ar Indoor
Location Wir	ndow ID Window no.	% [m <sup>2</sup> ]	[mm]	Orientation shade	e shade
No Data Available					
Skylight* type	e and performance				
Skylight ID	e and performance	Skylight description	n	Skylight shaft re	eflectance
No Data Available					
Skylight* sch	edule				
		Skylight	shaft	Area Orient-	Outdoor
Location	Skylight ID S	kylight No. length [n	nm]	[m <sup>2</sup> ] ation	shade Diffuser
No Data					
Available					
		•			
External dool	r schedule				
Location	Height [mm]	Width [mm]		Opening % Orie	entation
No Data Available					
	1				
External wall	type		_		
		Solar Walls	shade Bu	ulk insulation	Reflective wall
	pe storfront Blaco, Dort Molbourno	absorptance [colo	urj [K	-value	wrap
1 Spandr	rel Wall	0.5 Medi	um (F	R2.5)	No
			· · · · · · · · · · · · · · · · · · ·		
			(1	lass fibre <b>pair</b> ( $K = 0.04$	44
2 1-7 Wa	tterfront Place, Port Melbourne -	0.5 Medi	um de	ensity = 12 kg/m3)	44 No
2 1-7 Wa Concre	tterfront Place, Port Melbourne - ete Int	0.5 Medi	um de (F	lass fibre batt (k = 0.04 ensity = 12 kg/m3) R1.8)	No
2 1-7 Wa Concre	nterfront Place, Port Melbourne - ete Int	0.5 Medi	um de (F	lass fibre batt (k = 0.04 ensity = 12 kg/m3) R1.8)	No

6.8 Star Rating as of 23 Jan 2025

3

1-7 Waterfront Place, Port Melbourne -Internal Plasterboard Stud Wall Medium

Glass fibre batt (k = 0.044 density = 12 kg/m3) No (R2.5)

# External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Bed 1	1	2700	1658	W	738	Yes
Bed 1	1	2700	2372	W	738	Yes
Bed 1	1	2700	1656	SW	977	Yes
Bed 1	1	2700	1296	S	1136	Yes
Bed 1	1	2700	1037	S	1052	Yes
Bed 1	2	2700	3040	N	0	No
Storage	2	2700	1861	N	0	No
Kitchen/Living	1	2700	13173	S	1053	Yes
Kitchen/Living	3	2700	4902	N	0	No
Kitchen/Living	2	2700	471	W	0	No
Kitchen/Living	2	2700	4278	N	0	No
Bed 2	1	2700	3087	S	1065	Yes
Entry	3	2700	3780	N	0	No
Ensuite	3	2700	1802	N	0	No
Ensuite	3	2700	2815	E	0	No
WIR	3	2700	2435	N	0	No
Master bed	3	2700	3341	E	0	No
Master bed	1	2700	3175	S	1067	Yes

0.5

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation	
1	FR5 - Internal Plasterboard Stud Wall	112.4		

# Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bed 1	FR5 - 200mm concrete slab	10.9	Enclosed	R0.0	Carpet
Bed 1	FR5 - 200mm concrete slab	6	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab	4.9	Enclosed	R0.0	Tiles
Bathroom	FR5 - 200mm concrete slab	0.3	Enclosed	R0.0	Tiles
Storage	FR5 - 200mm concrete slab	3.5	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 200mm concrete slab	38	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	22.4	Enclosed	R0.0	Timber
Study	FR5 - 200mm concrete slab	4.6	Enclosed	R0.0	Carpet

6.8 Star Rating as of 23 Jan 2025

Study	FR5 - 200mm concrete slab	0.9	Enclosed	R0.0	Carpet
Bed 2	FR5 - 200mm concrete slab	11.4	Enclosed	R0.0	Carpet
Bed 2	FR5 - 200mm concrete slab	1.5	Enclosed	R0.0	Carpet
Entry	FR5 - 200mm concrete slab	7.5	Enclosed	R0.0	Timber
Ensuite	FR5 - 200mm concrete slab	0.3	Enclosed	R0.0	Tiles
Ensuite	FR5 - 200mm concrete slab	4.7	Enclosed	R0.0	Tiles
WIR	FR5 - 200mm concrete slab	4.8	Enclosed	R0.0	Carpet
Master bed	FR5 - 200mm concrete slab	0.6	Enclosed	R0.0	Carpet
Master bed	FR5 - 200mm concrete slab	11.1	Enclosed	R0.0	Carpet

# Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Bed 1	Plasterboard	R4.6	No
Bathroom	Plasterboard	R4.6	No
Kitchen/Living	Plasterboard	R4.6	No
Study	Plasterboard	R4.6	No
Bed 2	Plasterboard	R4.6	No
Master bed	Plasterboard	R4.6	No

# Ceiling penetrations\*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bed 1	7	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Storage	2	Downlights	80	80	Sealed
Kitchen/Living	24	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Study	2	Downlights	80	80	Sealed
Bed 2	5	Downlights	80	80	Sealed
Entry	3	Downlights	80	80	Sealed
Ensuite	2	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
WIR	2	Downlights	80	80	Sealed
Master bed	5	Downlights	80	80	Sealed

# Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

6.8 Star Rating as of 23 Jan 2025

Roof type				
		Added insulation		
Construction		[R-value]	Solar absorptance	Roof shade [colour]
SlabExt:Slab - Suspend 200mm: 200mm Suspe	led Slab - External Insul : nded Slab - External Insul	0.0	0.6	Dark
Slab:Slab - Suspended Suspended Slab	Slab : 200mm: 200mm	0.0	0.5	Medium
Thermal bridgin	g schedule for steel	l frame elements		_
Building element	Steel Section unitensions	Frame spacing [mm]	Steel thickness	Inermal break
No Data Available Appliance sche (not applicable if a Wh Note: A flat assumption Cooling system Appliance/ system typ No Whole of Home perf	dule ole of Home performance ass of 5W/m2 is used for lighting, th e Location	sessment is not conduct herefore lighting is not inconduct herefore lighting is not conduct herefore lighting is not inconduct herefore lighting is not inco	ted for this certificate) luded in the appliance sch nimum efficiency/ formance	hedule. Recommended capacity
Heating system				
Appliance/ system typ	e Location	Mir Fuel type per	imum efficiency/ formance	Recommended
No Whole of Home perf	formance assessment conducte	ed for this certificate		
Hot water system				
	Mir	nimum		
Appliance/ system two	effi	iciency/ Hot W	ater CER	Assessed daily
	ormance assessment conduct	ad for this certificato	Lone Zone 3.3	
No whole of notifie peri				
		7		

Pool/spa equipment

		Minimum efficiency/	Recommended	
Appliance/ system type	Fuel type	performance	capacity	
No Whole of Home performance assessme	nt conducted for this certificate.			

### Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

 System type
 Orientation
 System size or generation capacity

 No Whole of Home performance assessment conducted for this certificate.
 Supervisition of the second second

# Battery schedule

#### 6.8 Star Rating as of 23 Jan 2025

#### (not applicable if a Whole of Home performance assessment is not conducted for this certificate)

#### System type

Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 6.8 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 6.8 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value

Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 12, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. ITUZ50IR0K

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 13, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 218.3 Unconditioned\* 4 Total 222.3 Garage - Exposure type exposed NatHERS climate zone 21 Melbourne RO

# ★ Accredited assessor

NameGary WertheimerBusiness nameGIW Environmental SolutionsEmailgary@giw.com.auPhone0390445111Accreditation No.DMN/10/2024Assessor Accrediting OrganisationDesign Matters NationalDeclaration of interestNo

# **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating

7.9 The more stars the more energy efficient

# 46.1 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	22.7	23.4
Load limits	N/A	N/A

#### Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

#### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

### Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

\*Refer to glossary.

Page 1 of 12

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:
  - Yes
  - No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No NA – not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7.9 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 13, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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### 7.9 Star Rating as of 23 Jan 2025

Certificate check	Approval stage		Construction stage			
The checklist covers important items impacting the dwelling's ratin It is recommended that the accuracy of the whole certificate is che	ngs. ecked.	authority/ checked	checked	authority/ checked	ncy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consent surveyor	Builder o	Consent surveyor	Occupar	
Genuine certificate check						
Does this Certificate match the one available at the web address overification link on the front page?	or QR code					
Does the NatHERS certificate number on the NatHERS-stamped number on this Certificate?	plans match the					
Thermal performance check						G
Windows and glazed doors						
Does the window size, opening type and location shown on the Na stamped plans or as installed match what is shown in 'Window an schedule' and 'Roof window schedule' tables on this Certificate?	atHERS- Id glazed door					
Does the installed windows meet the substitution tolerances (AFR SHGC* and U-values*) as shown in the 'Window and glazed door performance' and 'Roof window type and performance' tables on t	C* based <i>type and</i> this Certificate?					
External walls						
Does the external wall bulk insulation (R-value) shown on the Nati plans or as installed match what is shown in the External wall type Certificate?	HERS-stamped e table on this					
Does the external wall shade (colour) match what is shown in the <i>type</i> ' table on this Certificate?	'External wall					
Floor		_				
Does the floor insulation (R-value) shown on the NatHERS-stamp installed match what is shown in the 'Floor type' table on this certi	ed plans or as ficate?					
Ceiling penetrations*						
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlig fans, etc) shown on the NatHERS-stamped plans or as installed n shown in the 'Ceiling penetrations' table on this Certificate?	hts, exhaust natch what is					
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stan installed match what is shown in the ' <i>Ceiling type</i> ' table on this Ce	nped plans or as crificate?					
Roof						
Does the external roof shade (colour) on the NatHERS stamped p installed match what is shown in the 'Roof type' table on this Certi	olans or as ficate?					
Apartment entrance doors (NCC Class 2 assessments	only)					
Does the 'External Door Schedule' show apartment entrance door Please note that an "external door" between the modelled dwelling space, such as an enclosed corridor or foyer, should not be includ assessment (because it overstates the possible ventilation) and w the Certificate.	rs? g and a shared led in the vould invalidate					
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) be example, it is unlikely that a ground-floor apartment is "exposed" of high-rise apartment is "protected".	een applied? For or a top floor					
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in Standard 2022: NAtHERS heating and cooling load limits for the a climate zone?	the ABCB appropriate				٦	

	latHERS Certificate 7.9 Star Rating as of 23 Jan 2025						
		Approval	stage	Construction stage			
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
2	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
7	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
Ì	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?		Q				
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance as	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)				
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check						
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements						
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ac include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	s that must tory variatio	also be sat	isfied ICC	
	Idditional notes					1	

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7.9 Star Rating as of 23 Jan 2025

### Room schedule

Room	Zone Type	Area [m²]
Ensuite 3	nightTime	11
WIR 3	nightTime	7.6
Bedroom 3	bedroom	12.7
Powder	unconditioned	4
Living	living	31.1
Kitchen/Living	kitchen	78.3
Bedroom 1	bedroom	20.2
WIR 2	dayTime	5.5
Bedroom 2	bedroom	16.3
Ensuite 2	nightTime	7.1
Corridor	dayTime	3.8
Laundry	dayTime	6.5
Bathroom	dayTime	4.8
Entrance	dayTime	13.5

# Window and glazed door type and performance

#### Default\* windows

			Substitution tolerance ranges			
	Maximum		SHCC lower limit	SHCC upper limit		
Window ID Window description	U-value*	SHGC*	SHGC lower liftlik	SHOC upper limit		
No Data Available			1			

# Custom\* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41	
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0.35	0.39	
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_0	2.69	0.4	0.38	0.42	

# Window and glazed door schedule

			Height	Width			$\sim$	shading	
Location	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*	
Bedroom 3	CAP-127-31 A	Opening 26	2700	1116	sliding	45.0	W	No	
Bedroom 3	CAP-034-33 A	Opening 47	2700	1028	awning	60.0	W	No	
Bedroom 3	CAP-055-108 A	Opening 48	2700	974	fixed	0.0	w	No	

7.9 Star Rating as of 23 Jan 2025

Living	CAP-034-33 A	Opening 28	2700	1432	awning	60.0	W	No
Living	CAP-055-108 A	Opening 46	2700	1506	fixed	0.0	W	No
Living	CAP-055-108 A	Opening 40	2700	909	fixed	0.0	W	No
Kitchen/Living	CAP-127-31 A	Opening 31	2700	9795	sliding	45.0	N	No
Kitchen/Living	CAP-055-108 A	Opening 29	2700	1638	fixed	0.0	W	No
Kitchen/Living	CAP-034-33 A	Opening 44	2700	1067	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 45	2700	4518	fixed	0.0	W	No
Bedroom 1	CAP-055-108 A	Opening 32	2700	932	fixed	0.0	W	No
Bedroom 1	CAP-127-31 A	Opening 33	2700	1122	sliding	45.0	Ν	No
Bedroom 1	CAP-034-33 A	Opening 49	2100	1098	awning	60.0	Ν	No
Bedroom 1	CAP-055-108 A	Opening 50	2100	1079	fixed	0.0	N	No
Bedroom 2	CAP-055-108 A	Opening 38	2700	3260	fixed	0.0	E	No
Bedroom 2	CAP-055-108 A	Opening 39	2700	900	fixed	0.0	E	No
Bedroom 2	CAP-055-108 A	Opening 43	2700	974	fixed	0.0	NE	No
Bedroom 2	CAP-055-108 A	Opening 42	2700	1139	fixed	0.0	NE	No
Bedroom 2	CAP-034-33 A	Opening 41	2700	1097	awning	60.0	N	No
Bedroom 2	CAP-055-108 A	Opening 34	2700	1280	fixed	0.0	Ν	No
Ensuite 2	CAP-034-33 A	Opening 36	2700	700	awning	60.0	E	No
Ensuite 2	CAP-055-108 A	Opening 37	2700	1894	fixed	0.0	E	No

# Roof window\* type and performance value

Default\* roof windows Substitution tolerance ranges Maximum SHGC lower limit SHGC upper limit Window ID Window description U-value\* SHGC\* No Data Available Custom\* roof windows Substitution tolerance ranges Maximum SHGC lower limit SHGC upper limit Window ID SHGC\* Window description U-value\* No Data Available Roof window\* schedule Opening Area Width Outdoor Indoor Location Window ID Window no. % [m²] [mm] Orientation shade shade No Data Available Skylight\* type and performance **Skylight ID Skylight description** Skylight shaft reflectance No Data Available

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 13, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

7.9 Star Rating as of 23 Jan 2025

# Skylight\* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m²]	Orient- ation	Outdoor shade	Diffuser
No Data Available							

# External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
No Data Available					

# External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.5)	No
2	1-7 Waterfront Place, Port Melbourne - Concrete Int	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.8)	No
3	1-7 Waterfront Place, Port Melbourne - Spandrel Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No

# External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Ensuite 3		2700	3449	S	0	No
Ensuite 3	2	2700	704	E	0	No
WIR 3	1	2700	2400	S	0	No
Bedroom 3	1	2700	3978	S	0	No
Bedroom 3	3	2700	3183	W	755	No
Living	3	2700	2980	W	810	No
Living	3	2700	1017	W	766	No
Kitchen/Living	3	2700	9875	Ν	3852	Yes
Kitchen/Living	3	2700	7376	W	721	No
Bedroom 1	3	2700	1170	W	9295	Yes
Bedroom 1	3	2700	3336	N	771	No
Bedroom 2	3	2700	4320	E	715	Yes
Bedroom 2	3	2700	828	NE	733	No
Bedroom 2	3	2700	1212	NE	723	No
Bedroom 2	3	2700	1180	N	774	No
Bedroom 2	3	2700	1433	N	793	No
Ensuite 2	2	2700	3259	S	0	No

7.9 Star Rating as of 23 Jan 2025

Ensuite 2	3	2700	2653	E 729	Yes
Laundry	2	2700	2512	S 0	No
Bathroom	2	2700	1857	S 0	No
Entrance	2	2700	1831	S 0	No
Entrance	2	2700	3069	E 0	No
Entrance	2	2700	1170	S 0	No

# 

wall ID	vvan type	Area [m-]	Bulk insulation
1	ER5 - Internal Plasterboard Stud Wall	199.4	

# Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m <sup>2</sup> ]	ventilation	[R-value]	Covering
Ensuite 3	FR5 - 275mm concrete slab	11	Enclosed	R0.0	Tiles
WIR 3	FR5 - 275mm concrete slab	7.6	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 275mm concrete slab	12.7	Enclosed	R0.0	Carpet
Powder	FR5 - 275mm concrete slab	4	Enclosed	R0.0	Tiles
Living	FR5 - 275mm concrete slab	31.1	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 275mm concrete slab	78.3	Enclosed	R0.0	Timber
Bedroom 1	FR5 - 275mm concrete slab	20.2	Enclosed	R0.0	Carpet
WIR 2	FR5 - 275mm concrete slab	5.5	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 275mm concrete slab	16.3	Enclosed	R0.0	Carpet
Ensuite 2	FR5 - 275mm concrete slab	7.1	Enclosed	R0.0	Tiles
Corridor	FR5 - 275mm concrete slab	3.8	Enclosed	R0.0	Timber
Laundry	FR5 - 275mm concrete slab	6.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 275mm concrete slab	4.8	Enclosed	R0.0	Tiles
Entrance	FR5 - 275mm concrete slab	13.5	Enclosed	R0.0	Timber

# Ceiling type

Location		Construction material/type	Bulk insulatio	on R-valu edge bat	ie tt values]	Reflective wrap*
No Data Available						
Ceiling penetrations*			Height	Width		
Location	Quantity	Туре	[mm]	[mm]	Sealed/uns	sealed
Ensuite 3	4	Downlights	80	80	Sealed	
Ensuite 3	1	Exhaust Fans	250	250	Sealed	
WIR 3	3	Downlights	80	80	Sealed	
Bedroom 3	5	Downlights	80	80	Sealed	

7.9 Star Rating as of 23 Jan 2025

Powder	1	Downlights	80	80	Sealed		
Powder	1	Exhaust Fans	250	250	Sealed		
Living	12	Downlights	80	80	Sealed		
Kitchen/Living	31	Downlights	80	80	Sealed		
Bedroom 1	8	Downlights	80	80	Sealed		
WIR 2	2	Downlights	80	80	Sealed		
Bedroom 2	7	Downlights	80	80	Sealed		
Ensuite 2	3	Downlights	80	80	Sealed		
Corridor	1	Downlights	80	80	Sealed		
Laundry	2	Downlights	80	80	Sealed		
Laundry	1	Exhaust Fans	250	250	Sealed		
Bathroom	2	Downlights	80	80	Sealed		
Bathroom	1	Exhaust Fans	250	250	Sealed		
Entrance	5	Downlights	80	80	Sealed		
Ceiling fans       Location     Quantity     Diameter [mm]       No Data Available							
Roof type		Added insulation					
Construction		[R-value] S	olar absorpta	ince	Roof shade [colour]		
Slab:Slab - Suspended Slab : 275mm: 2 Suspended Slab	75mm	0.0	0.5		Medium		

# Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]	
No Data					

### Appliance schedule

Available

(not applicable if a Whole of Home performance assessment is not conducted for this certificate) Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system Minimum efficiency/ Recommended Appliance/ system type Location Fuel type performance capacity No Whole of Home performance assessment conducted for this certificate. Heating system Recommended Minimum efficiency/ Appliance/ system type Location Fuel type performance capacity No Whole of Home performance assessment conducted for this certificate,

7.9 Star Rating as of 23 Jan 2025

Hot water system					
	Mir	imum			
	effi	ciency/ H	ot Water CER		Assessed daily
Appliance/ system type Fue	l type per	formance	Zone	Zone 3 STC	load
No Whole of Home performance as	ssessment conducte	d for this certificate.			
Pool/spa equipment					
Appliance/ system type		Fuel type	Minimum ef performanc	ficiency/ Re e car	commended bacity
No Whole of Home performance as	ssessment conducte	d for this certificate.			
Onsite renewable ener (not applicable if a Whole of Hom	<b>gy</b> <i>schedule</i> le performance ass	essment is not cor	nducted for this ce	ertificate)	
System type		Orientation	System size	or generation	capacity
No Whole of Home performance as	ssessment conducte	d for this certificate.		· ·	
Battery schedule (not applicable if a Whole of Hom System type No Whole of Home performance as	e performance ass	eessment is not cor	nducted for this ce Size [battery	ertificate) y storage capad	sity]

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 7.9 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 7.9 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 13, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 3RF47PQ000

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22)

### Property

Address

Sample 15, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

Lot/DP NCC Class\* Floor/all Floors Type

Class 2 New Home

### Plans

Main plan Rev M Prepared by -

## **Construction and environment**

Assessed floor area [m<sup>2</sup>]\* Conditioned\* 206.6 Unconditioned\* 3.6 Total 210.2 Garage - Exposure type exposed NatHERS climate zone 21 Melbourne RO

# **★** Accredited assessor

 Name
 Gary Wertheimer

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 0390445111

 Accreditation No.
 DMN/10/2024

 Assessor Accrediting Organisation

 Design Matters National

 Declaration of interest
 No

## **NCC Requirements**

NCC provisions V State/Territory variation Y

Volume 1 Yes

#### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Thermal performance star rating



# 70.9 MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

#### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	52.1	18.8
Load limits	N/A	N/A

#### Features determining load limits

Floor type	N//
(lowest conditioned area)	
NCC climate zone 1 or 2	Ν
Outdoor living area	N
Outdoor living area ceiling fan	Ν

### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

### Verification

To verify this certificate, scan the QR code or visit When using either link, ensure you are visiting www.fr5.com.au.

# About the ratings

#### Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

#### Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value\* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

# Heating & Cooling Load Limits

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting options:

Floor type:

- CSOG Concrete Slab on Ground
  - SF Suspended Floor (or a mixture of CSOG and SF)
- NA Not Applicable
- NCC climate Zone 1 or 2:

Yes

- No
- NA not applicable
- Outdoor living area:

Yes

- No
- NA not applicable
- Outdoor living area ceiling fan:
  - Yes
  - No
  - NA not applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

6.5 Star Rating as of 23 Jan 2025

### Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

\*Refer to glossary

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 15, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

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### 6.5 Star Rating as of 23 Jan 2025

Certificate check	Approval	stage	Construc stage	tion		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	or checked	nt authority/ or checked	checked	nt authority/ or checked	ancy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assess	Consel survey	Builder	Consel survey	Occup	
Genuine certificate check						
Does this Certificate match the one available at the web address or QR code verification link on the front page?						
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?						
Thermal performance check						
Windows and glazed doors						
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?		Q				
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?						
External walls			1			
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?	<b>P</b>					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?						
Floor		-				
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Floor type</i> ' table on this certificate?						
Ceiling penetrations*			Y			
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?	D					
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Ceiling type</i> ' table on this Certificate?						
Roof						
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?						
Apartment entrance doors (NCC Class 2 assessments only)						
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.						
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".						
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?						

NatHERS Certificate 6.5 Star Rating as of 23 Jan 2025							
		Approval	stage	Construc stage	tion		
	Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	~
	Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)		
7	Thermal bridging						
	Does the dwelling meet the NCC requirement for thermal bridging?						
Ì	Insulation installation method						
	Has the insulation been installed according to the NCC requirements?						
ļ	Building sealing						
	Does the dwelling meet the NCC requirements for Building Sealing?						
	Whole of Home performance check (not applicable if a Whole of Home perf	ormance a	ssessment	t is not con	ducted)		
	Appliances						
	Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?				D		
	Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?						
	Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
	Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
	Additional NCC Requirements for Services (not included in the Nath	ERS asse	ssment)			14 17	
	Does the lighting meet the artificial lighting requirements specified in the NCC?						
	Does the hot water system meet the additional requirements specified in the NCC?						
	Provisional values* check	· · · · ·					
	Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
	Other NCC requirements		_				
	Note: This Certificate only covers the energy efficiency requirements in the NCC. Ac include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional red and any st	quirements ate or territ	s that must tory variation	also be sat	tisfied NCC	
7	dditional notes					1	

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6.5 Star Rating as of 23 Jan 2025

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### Room schedule

Room	Zone Type	Area [m²]
Bedroom 2	bedroom	19.1
Ensuite	nightTime	6.7
WIR	nightTime	5.6
Bedroom 1	bedroom	14.5
Bathroom	dayTime	4.3
Corridor	dayTime	4.6
Laundry	unconditioned	3.6
Kitchen/Living	kitchen	94.3
Ensuite 3	nightTime	13.9
Bedroom 3	bedroom	25.1
Entrance	dayTime	9.5
WIR	nightTime	9

# Window and glazed door type and performance

Default\* windows

				Cabolitation tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Available						
Custom* windows				Substitution to	lerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
CAP-055-108 A	Capral 419 Flushline Fixed Window DG 020_AGG PLUS WTrans lam 638_12_6	2.69	0.4	0.38	0.42	
CAP-034-33 A	Urban 582 Awning Window DG 014_AGG PLUS WTrans lam 638_8_4	3.35	0.37	0,35	0.39	
CAP-127-31 A	Capral : Urban 584 Sliding Door DG 014_AGG PLUS WTrans lam 638_8_4	2.83	0.39	0.37	0.41	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*	
Bedroom 2	CAP-055-108 A	Opening 23	2700	1114	fixed	0.0	w	No	
Bedroom 2	CAP-034-33 A	Opening 40	2700	1039	awning	60.0	W	No	
Bedroom 2	CAP-055-108 A	Opening 41	2700	1037	fixed	0.0	W	No	
Bedroom 1	CAP-055-108 A	Opening 21	2700	1206	fixed	0.0	W	No	
Bedroom 1	CAP-034-33 A	Opening 42	2700	1012	awning	60.0	W	No	

6.5 Star Rating as of 23 Jan 2025

Bedroom 1	CAP-055-108 A	Opening 43	2700	1004	fixed	0.0	W	No
Kitchen/Living	CAP-127-31 A	Opening 19	2700	627	sliding	45.0	W	No
Kitchen/Living	CAP-034-33 A	Opening 20	2700	1232	awning	0.0	W	No
Kitchen/Living	CAP-034-33 A	Opening 44	2700	1200	awning	60.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 45	2700	2559	fixed	0.0	W	No
Kitchen/Living	CAP-055-108 A	Opening 33	2700	1164	fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 34	2700	1148	fixed	0.0	SW	No
Kitchen/Living	CAP-055-108 A	Opening 35	2700	1100	fixed	0.0	S	No
Kitchen/Living	CAP-127-31 A	Opening 17	2700	9864	sliding	45.0	S	No
Bedroom 3	CAP-127-31 A	Opening 13	2700	4186	sliding	45.0	S	No
Bedroom 3	CAP-055-108 A	Opening 14	2700	2863	fixed	0.0	S	No
Bedroom 3	CAP-055-108 A	Opening 36	2700	1166	fixed	0.0	SE	No
Bedroom 3	CAP-055-108 A	Opening 37	2700	1091	fixed	0.0	SE	No
Bedroom 3	CAP-055-108 A	Opening 38	2700	1082	fixed	0.0	E	No
Bedroom 3	CAP-127-31 A	Opening 16	2700	1625	sliding	45.0	E	No
WIR	CAP-034-33 A	Opening 30	2700	1625	awning	60.0	E	No

# Roof window\* type and performance value

Default\* roof windows

							Ju		plerance i	anges
	Window ID	Windo	ow description	Maxim U-valu	num Je*	SHGC*	SHGC	C lower limit	SHGC ι	ipper limit
	No Data Availa	ble						,		
	Custom* roof wi	indows		Maxim	num		Su SHG0	<b>bstitution to</b> Clower limit	olerance r SHGC u	anges
	Window ID	Windo	ow description	U-valu	le.	SHGC*				
	No Data Availa	ble		<u> </u>						
,	Roof wind	ow* schedu	ule	Opening	Area	Width		Outdo	oor li	ndoor
	Location	Window ID	Window no.	%	[m²]	[mm]	Orientati	on shade	•S	hade
	No Data Availa	ble								
	Skylight* t	type and pe	rformance							
	Skylight ID			Skylight de	escription	ı	Skyl	ight shaft re	eflectance	)
	No Data Availal	ble								
	Skylight*	schedule								
	Skylight a	schedule			Clauliabt	shoft	A ** * *	Oriont		
	Location	Sky	light ID	Skylight No.	length [m	im]	[m <sup>2</sup> ]	ation s	shade	Diffuser
*Ref	er to glossary.									

6.5 Star Rating as of 23 Jan 2025

#### No Data Available

# External door schedule

Location		Height [mm]	Width [mm]	Opening %	Orientation	
No Data Available						

# External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*	
1	1-7 Waterfront Place, Port Melbourne - Internal Plasterboard Stud Wall	0.5	Medium		No	
2	1-7 Waterfront Place, Port Melbourne - Spandrel Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No	
3	1-7 Waterfront Place, Port Melbourne - Concrete Int	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.8)	No	

## External wall schedule

		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Bedroom 2	1	2700	3825	N	0	No
Bedroom 2	2	2700	3182	W	826	No
Bedroom 2	3	2700	680	E	0	No
Bedroom 2	1	2700	385	E	0	No
Ensuite		2700	3376	N	0	No
WIR	1	2700	1969	E	0	No
WIR	1	2700	2841	Ν	0	No
Bedroom 1	2	2700	3228	W	841	No
Kitchen/Living	2	2700	5551	W	774	No
Kitchen/Living	2	2700	1236	SW	955	Yes
Kitchen/Living	2	2700	1242	SW	982	Yes
Kitchen/Living	2	2700	1203	S	1217	Yes
Kitchen/Living	2	2700	10039	S	1173	Yes
Kitchen/Living	3	2700	1499	E	0	No
Ensuite 3	3	2700	3239	N	0	No
Bedroom 3	2	2700	6842	S	1170	No
Bedroom 3	2	2700	1171	SE	1265	Yes
Bedroom 3	2	2700	1194	SE	752	Yes
Bedroom 3	2	2700	1178	E	1018	Yes
Bedroom 3	2	2700	1630	E	710	Yes
Entrance	3	2700	2042	Е	0	No

6.5 Star Rating as of 23 Jan 2025

Entrance		3	2700	2051	Ν	0	No
Entrance		3	2700	1895	Ε	0	No
WIR		2	2700	1602	Е	704	Yes
WIR		3	2700	5621	Ν	0	No

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation	
1	FR5 - Internal Plasterboard Stud Wall	171.7		

# Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 2	FR5 - 200mm concrete slab	5	Enclosed	R0.0	Timber
Bedroom 2	FR5 - 200mm concrete slab	14.1	Enclosed	R0.0	Timber
Ensuite	FR5 - 200mm concrete slab	3.4	Enclosed	R0.0	Tiles
Ensuite	FR5 - 200mm concrete slab	3.3	Enclosed	R0.0	Tiles
WIR	FR5 - 200mm concrete slab	5.6	Enclosed	R0.0	Timber
Bedroom 1	FR5 - 200mm concrete slab	14.5	Enclosed	R0.0	Timber
Bathroom	FR5 - 200mm concrete slab	2.3	Enclosed	R0.0	Tiles
Bathroom	FR5 - 200mm concrete slab	2	Enclosed	R0.0	Tiles
Corridor	FR5 - 200mm concrete slab	1.2	Enclosed	R0.0	Timber
Corridor	FR5 - 200mm concrete slab	3.5	Enclosed	R0.0	Timber
Laundry	FR5 - 200mm concrete slab	3.6	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 200mm concrete slab	23.2	Enclosed	R0.0	Timber
Kitchen/Living	FR5 - 200mm concrete slab	71.1	Enclosed	R0.0	Timber
Ensuite 3	FR5 - 200mm concrete slab	7.8	Enclosed	R0.0	Tiles
Ensuite 3	FR5 - 200mm concrete slab	6.1	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 200mm concrete slab	25.1	Enclosed	R0.0	Timber
Entrance	FR5 - 200mm concrete slab	9.5	Enclosed	R0.0	Timber
WIR	FR5 - 200mm concrete slab	9	Enclosed	R0.0	Timber

# Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Bedroom 2	Plasterboard	R4.6	No
Bedroom 2	Plasterboard	R4.6	No
Ensuite	Plasterboard	R4.6	No
Ensuite	Plasterboard	R4.6	No
WIR	Plasterboard	R4.6	No
Bedroom 1	Plasterboard	R4.6	No
Bathroom	Plasterboard	R4.6	No

6.5 Star Rating as of 23 Jan 2025

Bathroom	Plasterboard	R4.6	No
Corridor	Plasterboard	R4.6	No
Corridor	Plasterboard	R4.6	No
Laundry	Plasterboard	R4.6	No
Kitchen/Living	Plasterboard	R4.6	No
Kitchen/Living	Plasterboard	R4.6	No
Ensuite 3	Plasterboard	R4.6	No
Ensuite 3	Plasterboard	R4.6	No
Bedroom 3	Plasterboard	R4.6	No
Entrance	Plasterboard	R4.6	No
WIR-	Plasterboard	R4.6	No

# Ceiling penetrations\*

			Height	wiath	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Bedroom 2	8	Downlights	80	80	Sealed
Ensuite	3	Downlights	80	80	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
WIR	2	Downlights	80	80	Sealed
Bedroom 1	6	Downlights	80	80	Sealed
Bathroom	2	Downlights	80	80	Sealed
Bathroom	1	Exhaust Fans	250	250	Sealed
Corridor	2	Downlights	80	80	Sealed
Laundry	1	Downlights	80	80	Sealed
Laundry	1	Exhaust Fans	250	250	Sealed
Kitchen/Living	41	Downlights	80	80	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Ensuite 3	5	Downlights	80	80	Sealed
Ensuite 3	1	Exhaust Fans	250	250	Sealed
Bedroom 3	10	Downlights	80	80	Sealed
Entrance	2	Downlights	80	80	Sealed
WIR	4	Downlights	80	80	Sealed

## Ceiling fans

Location No Data Available Quantity

Diameter [mm]

# Roof type

Construction

Added insulation [R-value]

Solar absorptance

Roof shade [colour]

\*Refer to glossary.

Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 15, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207

NatHERS Certificate			6.5 Star Rating as of 2	3 Jan 2025
SlabExt:Slab - Suspended S 200mm: 200mm Suspended	lab - External Insul : Slab - External Insul	0.0	0.5	Medium
Thermal bridging s	chedule for stee	el frame eler	nents	Thermal burgh
Building element [h	eight x width, mm]	Frame spacing	[mm] [BMT,mm]	[R-value]
No Data Available				
Appliance schedul	е			
(not applicable if a Whole o Note: A flat assumption of 5V	f Home performance a //m2 is used for lighting,	ssessment is not therefore lighting is	conducted for this certificate) s not included in the appliance so	shedule.
Cooling system				
		E	Minimum efficiency/	Recommended
Appliance/ system type		ruel type	performance	capacity
Heating system				
			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No whole of Home performa	ince assessment conduc	cted for this certifica	ite.	
Hot water system				
not water system	N	linimum		
	e	fficiency/	Hot Water CER	Assessed daily
Appliance/ system type	Fuel type p	erformance	Zone Zone 3 S	
	ince assessment conduc		ile.	
Pool/spa equipment				
			Minimum efficiency/	Recommended
Appliance/ system type		Fuel type	performance	capacity
No Whole of Home performa	ince assessment conduc	eted for this certifica	ite.	
Oncito renovable				
	f Home performance a	ssessment is not	conducted for this certificate)	
System type	i nome performance a	Orientation	System size or genera	ation capacity
No Whole of Home performa	ince assessment conduc	cted for this certification	ite.	
Battery schedule				
(not applicable if a Whole o	f Home performance a	ssessment is not	conducted for this certificate)	
System type	*		Size [battery storage	capacity]
No Whole of Home performa	ince assessment conduc	cted for this certifica	ite.	

### Explanatory Notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

#### 6.5 Star Rating as of 23 Jan 2025

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
СОР	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

#### 6.5 Star Rating as of 23 Jan 2025

STCs

Thermal breaks

U-value Unconditioned Vertical shading features

Window shading device

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels. the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal\* or vertical shading features\* (eg eaves and balconies)

\*Refer to glossary. Generated on 23 Jan 2025 using FirstRate5: 5.5.5a (3.22) for Sample 15, 1-7 Waterfront PI, Port Melbourne, Port Melbourne, VIC, 3207



### Appendix C: Preliminary J4D6 Façade Calculator

GIW K environmental solutions

# J4D6 Façade Calculator

Address Climate Zone Building Classification	1-7 Waterfro	ont Plc, Port Me 6				
Eacodo aroa (m2)	North	East	South	West	Internal	0.0
Façade area (m2)	t	04.7	128.0	199.7	139.0	0.0

Number of Rows

12

		Dimensions			Shading (m)	
Window No.	Orientation	Height (m)	Width (m)	Area (m2)	Р	Н
GF North Windows	North	4.1	8	32.8	3	7.1
L1 North Windows	North	2.7	8.1	21.87	3	2.7
GF West Windows	West	4.1	16.3	66.83	0.7	4.1
GF West Windows	West	4.1	7.6	31.16	0.7	4.1
L1 West Windows	West	2.7	15.2	41.04	3.3	2.7
GF South Windows	South	4.1	43.3	177.53	2	4.1
L1 South Windows	South	2.7	8.2	22.14	2.95	2.7
GF East Windows	East	4.1	12.9	52.89	0.7	4.1
GF East Windows	East	4.1	10.1	41.41	2	4.1
L1 East Windows	East	2.7	12.7	34.29	0.7	2.7

RESULIS			
Method 1	U-Value	SHGC	Min. Wall R-values
North	2.0	0.18	1
East	2.0	0.18	1
South	2.0	0.18	1
West	2.0	0.19	1
Internal	7.5	50	1.4
			_

	U-Value	SHGC	
Method 2		2.00	0.19



# Appendix D: Renewable Energy

### Inputs Solar PV

Peak Wattage of System	30.0 kWp
Azimuth	0 degrees
Inclination	10 degrees

### Outputs Solar PV

Electricity Produced per Year	40,204 kWh
No. Panels Required	71
Total Roof Area Required	148 sqm
Annual Carbon Savings	45,029 kg CO2

### Economic Output

Cost of System	45,000 \$
Annual Savings	8,041 \$
Simple Payback	6 Years



### Appendix E: Daylight Modelling

### Scope of Modelling

We have undertaken daylight modelling for 10 apartments assessing both living and bedroom areas. 00.1B, 00.20, 00.3W.1, 01.3C.1, 02.1A.2, 02.2A.1, 02.3A, 03.1C, 03.2B, 03.4A and 04.4B have been selected with consideration of internal layout, inherent and adjacent building shading features. These apartments reflect a worst-case scenario with all other units anticipated to achieve the BESS performance requirements.

The development has been modelled under an existing scenario with Beach Street along the north and east, Waterfront Place along the south and a single storey heritage Port Melbourne railway station to the west.

### Methodology

The daylight levels in apartments are benchmarked against the best practice requirements as set out under the Built Environment Sustainability Scorecard (BESS) tool: Indoor Environment Quality (IEQ) – Daylight Access Living Areas and Bedrooms. These levels are as follows:

"Dwellings should achieve the following daylight factors (DF)

- 80% of the total number of living rooms achieve a daylight factor greater than 1% to 90% of the floor area of each living area, including kitchens.
- 80% of the total number of bedrooms achieve a daylight factor greater than 0.5% to 90% of the floor area in each room."

The daylight modelling has been completed using the Radiance software suite, an accurate computing program used to predict light levels in a space prior to construction. Scene geometric data and material properties are interfaced into the Radiance software using DesignBuilder.

Daylight Factor has been calculated using a CIE uniform cloudy sky.



### GIVE environmental solutions 1-7 Waterfront Place, Port Melbourne Sustainable Management Plan Sustainable Management Plan



Figure 7 – DesignBuilder model of proposed and adjacent buildings



### Modelling Assumptions

The following assumptions have been made with respect to the modelling:

- Modelled window dimensions and shading structures are as depicted on the Architectural drawings.
- The glazing performance used for external windows is as follows: •
  - Windows G L2: Double glazed, low-e, clear window with a total system VLT of 0.61. •
  - Windows L3 L9: Double glazed, low-e, spectrally selective window with a total system • VLT of 0.57.
  - GF windows behind screen: Double glazed, low-e, clear window with a total system VLT • of 0.45.
- The reflectance of all materials is in accordance with the below:
  - Internal Floors: 0.3
  - Internal Walls: 0.7 •
  - Ceilings: 0.8
- Transient and unoccupied spaces such as corridors and wardrobes have been excluded from the modelled area.
- The reflectance of external buildings and structures is assumed to be 0.4.

### Daylight Results – Numerical

The daylight results for living areas of 1-7 Waterfront Place, Port Melbourne can be summarised as follows:

Area	Floor Area (m2)	Floor Area above DF1 (m2)	% of floor area above DF1	Status
00.1B Living	27.5	27.5	100.0	Compliant
00.20 Living	40.6	40.6	100.0	Compliant
00.3W.1 Living	40.3	40.3	100.0	Compliant
01.3C.1 Living	51.3	50.7	98.7	Compliant
02.1A.2 Living	33.4	0.0	0.0	Non-compliant
02.2A.1 Living	42.6	28.0	65.7	Non-compliant
02.3A Living	57.3	57.3	100.0	Compliant
03.1C Living	32.5	3.6	10.9	Non-compliant
03.2B Living	63.6	63.4	99.6	Compliant
03.4A Living	51.3	51.1	99.6	Compliant
04.4B Living	74.4	74.2	99.6	Compliant



The daylight results for bedrooms of 1-7 Waterfront Place, Port Melbourne can be summarised as follows:

Area	Floor Area (m2)	Floor Area above DF0.5 (m2)	% of floor area above DF0.5	Status
00.1B Bed 1	9.4	9.4	100.0	Compliant
00.20 Bed 1	10.1	10.1	100.0	Compliant
00.20 Bed 2	12.8	9.5	74.1	Non-compliant
00.3W.1 Bed1	9.6	9.4	97.5	Compliant
00.3W.1 Bed2	9.3	9.3	100.0	Compliant
00.3W.1 Bed3	11.2	11.2	100.0	Compliant
01.3C.1 Bed1	10.9	10.9	100.0	Compliant
01.3C.1 Bed2	9.5	9.3	97.8	Compliant
01.3C.1 Bed3	11.4	0.0	0.0	Non-compliant
02.1A.2 Bed 1	10.9	2.9	26.4	Non-compliant
02.2A.1 Bed1	11.2	11.2	100.0	Compliant
02.2A.1 Bed2	11.2	11.2	100.0	Compliant
02.3A Bed1	11.8	11.8	99.9	Compliant
02.3A Bed2	13.6	5.4	39.2	Non-compliant
02.3A Bed3	14.1	4.4	31.3	Non-compliant
03.1C Bed1	9.9	0.0	0.0	Non-compliant
03.2B Bed1	14.7	14.7	100.0	Compliant
03.2B Bed2	12.2	12.2	100.0	Compliant
03.4A Bed1	12.1	12.1	100	Compliant
03.4A Bed2	11.5	7.9	68.3	Non-compliant
03.4A Bed3	11.5	5.3	46.0	Non-compliant
03.4A Bed4	10.6	9.7	91.2	Compliant
04.4B Bed1	12.5	12.3	97.8	Compliant
04.4B Bed2	10.9	3.9	36.1	Non-compliant
04.4B Bed3	10.5	3.6	34.1	Non-compliant
04.4B Bed4	10.5	5.4	51.3	Non-compliant



### 1-7 Waterfront Place, Port Melbourne Sustainable Management Plan

### Daylight Results - Visual





Figure 8 - Daylight Map – 00.1B





Figure 9 - Daylight Map - 00.20





Figure 10 - Daylight Map - 00.3W.1



# 1-7 Waterfront Place, Port Melbourne





















# 1-7 Waterfront Place, Port Melbourne





Figure 14 - Daylight Map - 02.3A











Figure 16 - Daylight Map - 03.2B



# 1-7 Waterfront Place, Port Melbourne





Figure 17 - Daylight Map - 03.4A





Figure 18 - Daylight Map - 04.4B



### **Overall Building Results**

Apartment No.	Total Living Areas	Living Areas Compliant	Total Bedrooms	Bedrooms Compliant
00.20	1	1	2	1
00.1B	1	1	1	1
00.2N	1	1	2	2
00.3W.2	1	1	3	3
00.2M.2	1	1	2	2
00.2M.1	1	1	2	2
00.3W.1	1	1	3	2
01.3A	1	1	3	1
01.3B	1	1	3	3
01.2C	1	1	2	2
01.3V	1	1	3	3
01.2A.2	1	1	2	2
01.2A.1	1	1	2	2
01.3C.2	1	1	3	2
01.3C.1	1	1	3	2
01.3E	1	1	3	3
01.3U	1	0	3	3
02.2A.3	1	0	2	2
01.3F	1	1	3	3
01.3G	1	1	3	3
02.3A	1	1	3	1
02.3B	1	1	3	3
02.2C	1	1	2	2
02.3V	1	1	3	3
02.2A.3	1	1	2	2
02.2A.2	1	1	2	2
02.3D.2	1	1	3	2
02.1A.3	1	0	1	0
02.1A.1	1	0	1	0
02.1A.2	1	0	1	0



Apartment No.	Total Living Areas	Living Areas Compliant	Total Bedrooms	Bedrooms Compliant
02.3D.1	1	1	3	2
02.3E	1	1	3	3
02.3U	1	0	3	3
02.2A.1	1	0	2	2
02.3F	1	1	3	3
02.3G	1	1	3	3
03.2B	1	1	2	2
03.2D	1	1	3	3
03.31	1	1	3	3
03.2E	1	1	2	2
03.4A	1	1	4	2
03.1C	1	0	1	0
03.3J	1	1	3	1
03.3K	1	1	3	3
03.3L	1	1	3	3
03.3M	1	1	3	3
04.2B	1	1	2	2
04.3X	1	1	3	3
04.3Y	1	1	3	3
04.2G	1	1	2	2
04.3N	1	1	3	1
04.4B	1	1	4	1
04.3K	1	1	3	3
04.2H	1	1	2	2
04.30	1	1	3	3
05.2B	1	1	2	2
05.3X	1	1	3	3
05.3Y	1	1	3	3
05.2G	1	1	2	2
05.3N	1	1	3	1
05.4B	1	1	4	1



Apartment No.	Total Living Areas	Living Areas Compliant	Total Bedrooms	Bedrooms Compliant
05.3K	1	1	3	3
05.2H	1	1	2	2
05.30	1	1	3	3
06.2B	1	1	2	2
06.3X	1	1	3	3
06.3P	1	1	3	3
06.21	1	1	2	2
06.3J	1	1	3	1
06.3T	1	1	3	3
06.2H	1	1	2	2
06.30	1	1	3	3
07.2B	1	1	2	2
07.3Q	1	1	3	3
07.3Z	1	1	3	3
07.3R	1	1	3	1
07.4E	1	1	3	3
07.4F	1	1	3	3
08.4D	1	1	4	4
08.4C	1	1	4	4
08.4G	1	1	4	4
08.4F	1	1	4	4
09.3S	1	1	3	3
09.3S	1	1	3	3
Total	84	76	225	193
Percentage	90	)%	86%	%

### Conclusion

The development has been assessed and it has been determined that 90% of the living areas and 86% of bedrooms will achieve the daylight factors as prescribed under BESS and therefore the development will meet the BESS IEQ guidelines for daylight.



## Appendix F: BESS Assessment

This BESS report outlines the sustainable design commitments of the proposed development at 1 Waterfront PI Port Melbourne Victoria 3207. 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 Port Phillip 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.



#### **Project details**

Name Address Project ID	1-7 Waterfront Place, Port Melbourne VIC 3207, Australia 1 Waterfront Pl Port Melbourne Victoria 3207 A81CDD9C-R4	
BESS Version	BESS-8	
Site type	Mixed use development	
Account	info@giw.com.au	
Application no.		
Site area	5,487 m <sup>3</sup>	
Building floor area	14,424 m <sup>2</sup>	
Date	30 January 2025	
Software version	2.0.1-B.574	

#### Performance by category

This project Maximum available



#### Buildings

Name	Height	Footprint	% of total footprint
Building 1	10	18,124 m <sup>2</sup>	98%
Building 2	2	310 m <sup>2</sup>	1%

#### **Dwellings & Non Res Spaces**

Dwellings					
Name	Quantity	Area	Building	% of total area	
Apartment					
04.30, 05.30, 06.30	3	206 m <sup>2</sup>	Building 1	4%	
04.3X, 05.3X, 06.3X	3	167 m <sup>2</sup>	Building 1	3%	
04.2B, 05.2B, 06.2B, 07.2B	4	128 m <sup>2</sup>	Building 1	3%	
01.3F, 02.3F	2	264 m <sup>2</sup>	Building 1	3%	
01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2	4	133 m <sup>2</sup>	Building 1	3%	
08.4D	1	395 m <sup>2</sup>	Building 1	2%	
04.2H, 05.2H, 06.2H	3	129 m <sup>2</sup>	Building 1	2%	
04.3K, 05.3K	2	180 m <sup>2</sup>	Building 1	2%	
04.4B, 05.4B	2	215 m <sup>2</sup>	Building 1	2%	
04.3N, 05.3N	2	156 m <sup>2</sup>	Building 1	2%	
01.3G, 02.3G	2	165 m <sup>2</sup>	Building 1	2%	
01.3U, 02.3U	2	159 m <sup>2</sup>	Building 1	2%	
01.3E, 02.3E	2	204 m <sup>2</sup>	Building 1	2%	
01.3C.1, 02.3D.1	2	174 m <sup>2</sup>	Building 1	2%	
01.3C.2, 0.2.3D.2	2	174 m <sup>2</sup>	Building 1	2%	
01.3V, 02.3V	2	148 m <sup>2</sup>	Building 1	2%	
01.3B, 02.3B	2	168 m <sup>2</sup>	Building 1	2%	
01.3A, 02.3A	2	210 m <sup>2</sup>	Building 1	2%	
09.3S	1	229 m <sup>2</sup>	Building 1	1%	
09.30	1	207 m <sup>2</sup>	Building 1	1%	
08.4F	1	244 m <sup>2</sup>	Building 1	1%	
08.4G	1	275 m <sup>2</sup>	Building 1	1%	
08.4C	1	207 m <sup>2</sup>	Building 1	1%	
07.4F	1	244 m <sup>2</sup>	Building 1	1%	
07.4E	1	201 m <sup>2</sup>	Building 1	1%	
07.3R	1	151 m <sup>2</sup>	Building 1	1%	
07.3Z	1	150 m <sup>2</sup>	Building 1	1%	
07.3Q	1	170 m <sup>2</sup>	Building 1	1%	
06.3J	1	181 m <sup>2</sup>	Building 1	1%	
06.3P	1	146 m <sup>2</sup>	Building 1	1%	
04.2G, 05.2G	2	113 m <sup>2</sup>	Building 1	1%	
04.3Y, 05.3Y	2	142 m <sup>2</sup>	Building 1	1%	
03.3M	1	196 m <sup>2</sup>	Building 1	1%	
03.3L	1	214 m <sup>2</sup>	Building 1	1%	
03.3K	1	178 m <sup>2</sup>	Building 1	1%	
03.3J	1	178 m <sup>2</sup>	Building 1	1%	

BESS, 1-7 Waterfront Place, Port Melbourne VIC 3207, Australia 1 Waterfront Pl, ...

Total	84	13,831 m <sup>2</sup>	95%		
00.20	1	119 m <sup>2</sup>	Building 1	< 1%	
00.1B	1	74.0 m <sup>2</sup>	Building 1	< 1%	
00.2N	1	136 m <sup>2</sup>	Building 1	< 1%	
03.3H	1	141 m²	Building 1	< 1%	
1B1B	1	60.0 m <sup>2</sup>	Building 1	< 1%	
06.21	1	121 m <sup>2</sup>	Building 1	< 1%	
06.3T	1	137 m <sup>2</sup>	Building 1	< 1%	
00.3W1, 00.3W2	2	120 m <sup>2</sup>	Building 1	1%	
00.2M.1, 00.2M.2	2	120 m <sup>2</sup>	Building 1	1%	
01.2C, 02.2C01	2	140 m <sup>2</sup>	Building 1	1%	
02.2A.3, 02.2A.1	2	135 m²	Building 1	1%	
02.1A.1, 02.1A.2, 02.1A.3	3	75.0 m <sup>2</sup>	Building 1	1%	
03.2D	1	187 m <sup>2</sup>	Building 1	1%	
03.31	1	195 m²	Building 1	1%	
03.2E	1	147 m <sup>2</sup>	Building 1	1%	
03.4A	1	197 m <sup>2</sup>	Building 1	1%	

#### Non-Res Spaces

Name	Quantity	Area	Building	% of total area
Shop	·			
Retail/Civic	1	290 m <sup>2</sup>	Building 1	2%
Retail/Civic	1	303 m <sup>2</sup>	Building 2	2%
Total	2	593 m²	4%	

**Project composition** 



Building composition



#### Supporting Evidence

#### Shown on Floor Plans

Credit	Requirement	Response	Status
Management 3.1	Annotation: Individual utility meters to be provided to all individual dwelling	S	-

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Credit	Requirement	Response	Status	
Management 3.2	Annotation: Individual utility meters to be provided to all individual commercial tenancies			
Management 3.3	Annotation: Sub-meters to be provided to all major common area servic (list each)	-		
Water 3.1	Annotation: Water efficient garden details		-	
Energy 3.1	Carpark with natural ventilation or CO monitoring system		-	
Energy 4.2	Location and size of solar photovoltaic system		-	
Stormwater 1.1	Location of any stormwater management systems (rainwater tanks, raingardens, buffer strips)		-	
IEQ 1.1	If using BESS daylight calculator, references to floorplans and elevations showing window sizes and sky angles.	S	-	
IEQ 1.2	If using BESS daylight calculator, references to floorplans and elevations showing window sizes and sky angles.	S	-	
IEQ 1.5	Floor plans with compliant bedrooms marked		-	
IEQ 2.1	Dwellings meeting the requirements for being 'naturally ventilated'		-	
Transport 1.1	1.1 Location of residential bicycle parking spaces		-	
Transport 1.2	Location of residential visitor bicycle parking spaces		-	
Transport 1.4	Location of non-residential bicycle parking spaces		-	
Transport 1.5	Location of non-residential visitor bicycle parking spaces		-	
Transport 2.1	Location of electric vehicle charging infrastructure		-	
Transport 2.3	Location of nominated motorbicycle parking spaces		-	
Waste 2.1	Location of food and garden waste facilities		-	
Waste 2.2	Location of recycling facilities		-	
Urban Ecology 1.1	Location and size of communal spaces		-	
Urban Ecology 2.1	Location and size of vegetated areas		-	
Urban Ecology 2.2	Location and size of green roof		-	
Urban Ecology 2.3	Location and size of green facade		-	
Urban Ecology 2.4	rban Ecology 2.4 Location of taps and floor waste on balconies / courtyards			
Urban Ecology 3.1	Location of food production areas		-	

## **Supporting Documentation**

Credit	Requirement	Response	Status		
Management 2.2	Preliminary NatHERS assessments		-		
Management 2.3a	Section J glazing assessment		-		
Energy 1.1	Energy Report showing calculations of reference case and proposed buildings				
Energy 3.1	Details of either the fully natural carpark ventilation or CO monitoring system proposed				
Energy 3.6	Average lighting power density and lighting type(s) to be used	d	-		
Energy 3.7	Average lighting power density and lighting type(s) to be used -				
Energy 4.2	Specifications of the solar photovoltaic system(s)				
Stormwater 1.1	STORM report or MUSIC model				
IEQ 1.1	If using an alternative daylight modelling program, a short report detailing assumptions used and results achieved.				
IEQ 1.2	If using an alternative daylight modelling program, a short report detailing assumptions used and results achieved.				
IEQ 1.4	A short report detailing assumptions used and results achieve	ed.	-		
IEQ 1.5	A list of compliant bedrooms		-		
IEQ 2.1	A list of naturally ventilated dwellings -				

# **Credit summary**

### Management Overall contribution 4.5%

	99%
1.1 Pre-Application Meeting	100%
2.2 Thermal Performance Modelling - Multi-Dwelling Residential	100%
2.3 Thermal Performance Modelling - Non-Residential	50%
3.1 Metering - Residential	100%
3.2 Metering - Non-Residential	100%
3.3 Metering - Common Areas	100%
4.1 Building Users Guide	100%

### Water Overall contribution 9.0%

	Minin	num required 50%	57%	✓ Pass
1.1 Potable Water Use Reduction			40%	
3.1 Water Efficient Landscaping			100%	
4.1 Building Systems Water Use Reduction			100%	

# Energy Overall contribution 27.5%

	Minimum required 50% 58%	✓ Pass		
1.1 Thermal Performance Rating - Non-Residential	12%			
1.2 Thermal Performance Rating - Residential	0%	✓ Achieved		
2.1 Greenhouse Gas Emissions	2%			
2.2 Peak Demand	0%			
2.6 Electrification	100%			
2.7 Energy consumption	100%			
3.1 Carpark Ventilation	100%			
3.2 Hot Water	100%			
3.4 Clothes Drying	0%			
3.6 Internal Lighting - Apartments	100%			
3.7 Internal Lighting - Non-Residential	100%			
4.1 Combined Heat and Power (cogeneration / trigeneration)	N/A	Scoped Out		
	No cogeneration or trige	neration system in use.		
4.2 Renewable Energy Systems - Solar	95%			
4.4 Renewable Energy Systems - Other	N/A	Scoped Out		
No other (non-solar PV) renewable energy is in use.				

#### Stormwater Overall contribution 13.5%

	Minimum required 100%		✓ Pass	
1.1 Stormwater Treatment		100%		

## IEQ Overall contribution 16.5%

	Minimum required 50% 639	% ✓ Pass
1.1 Daylight Access - Living Areas	669	6
1.2 Daylight Access - Bedrooms	669	6
1.3 Winter Sunlight	09	6
1.4 Daylight Access - Non-Residential	609	6 🗸 Achieved
1.5 Daylight Access - Minimal Internal Bedrooms	1009	6
2.1 Effective Natural Ventilation	669	6
2.3 Ventilation - Non-Residential	339	6 🗸 Achieved
3.4 Thermal comfort - Shading - Non-Residential	1009	6
3.5 Thermal Comfort - Ceiling Fans - Non-Residential	09	6
4.1 Air Quality - Non-Residential	1009	6

## Transport Overall contribution 9.0%

	77%		
1.1 Bicycle Parking - Residential	100%		
1.2 Bicycle Parking - Residential Visitor	100%		
1.3 Bicycle Parking - Convenience Residential	0%		
1.4 Bicycle Parking - Non-Residential	100%		
1.5 Bicycle Parking - Non-Residential Visitor	100%		
1.6 End of Trip Facilities - Non-Residential	0%		
2.1 Electric Vehicle Infrastructure	100%		
2.2 Car Share Scheme	0%		
2.3 Motorbikes / Mopeds	100%		

### Waste Overall contribution 5.5%

	66%
1.1 - Construction Waste - Building Re-Use	0%
2.1 - Operational Waste - Food & Garden Waste	100%
2.2 - Operational Waste - Convenience of Recycling	100%

# Urban Ecology Overall contribution 5.5%

	88%
1.1 Communal Spaces	100%
2.1 Vegetation	75%
2.2 Green Roofs	100%
2.3 Green Walls and Facades	100%
2.4 Private Open Space - Balcony / Courtyard Ecology	100%
3.1 Food Production - Residential	100%
3.2 Food Production - Non-Residential	0%

# Innovation Overall contribution 9.0%

				60%	
1.1 Innov	vation			60%	

# Credit breakdown

Mana	agement Overall contribution 4.5%				
				99%	
	<u>u</u>				
	1.1 Pre-Application Meeting			100%	
	Score Contribution	This credit contributes	37.5% towards th	le category score.	
	Criteria	Has an ESD profession	nal been engaged	to provide sustainability advice from schematic	
		design to construction	? AND Has the ES	D professional been involved in a pre-	
		application meeting w	ith Council?		
	Question	Criteria Achieved ?			
	Project	Yes			
	2.2 Thermal Performance Modelling - Multi	-Dwelling Residential		100%	
	Score Contribution	This credit contributes	23% towards the	category score.	
	Criteria	Have preliminary NatH	IERS ratings been	undertaken for all thermally unique dwellings?	
	Question	Criteria Achieved ?			
	Apartment	Yes			
	2.3 Thermal Performance Modelling - Non-	Residential		50%	
	Score Contribution	This credit contributes	1% towards the c	ategory score.	
	Criteria	Has a preliminary faca	de assessment be	en undertaken in accordance with NCC2022	
		Section J4D6?			
	Question	Criteria Achieved ?			
	Shop	Yes			
	Criteria	Has preliminary model	lling been undertak	en in accordance with either NCC2022	
		Section J (Energy Effic	eiency), NABERS o	r Green Star?	
	Question	Criteria Achieved ?			
	Shop	No			
	3.1 Metering - Residential			100%	
	Score Contribution	This credit contributes	11% towards the	category score.	
	Criteria	Have utility meters bee	en provided for all	individual dwellings?	
	Question	Criteria Achieved ?			
	Apartment	Yes			
	3.2 Metering - Non-Residential			100%	
	Score Contribution	This credit contributes	0.5% towards the	category score.	
	Criteria	Have utility meters bee	en provided for all	individual commercial tenants?	
	Question	Criteria Achieved ?			
	Shop	Yes			
	3.3 Metering - Common Areas			100%	

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Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Have all major common area services been separately submetered?
Question	Criteria Achieved ?
Apartment	Yes
Shop	Yes
4.1 Building Users Guide	100%
4.1 Building Users Guide Score Contribution	100% This credit contributes 12.5% towards the category score.
4.1 Building Users Guide Score Contribution Criteria	100% This credit contributes 12.5% towards the category score. Will a building users guide be produced and issued to occupants?
4.1 Building Users Guide Score Contribution Criteria Question	100%         This credit contributes 12.5% towards the category score.         Will a building users guide be produced and issued to occupants?         Criteria Achieved ?

#### Water Overall contribution 9.0%

	Minimum required 50%	57%	V Pass	
	Within Tequired 00 /0	01/0	· 1 400	

Water Approach	
What approach do you want to use for Water?:	Use the built in calculation tools
Do you have a reticulated third pipe or an on-site water recycling system?:	No
Are you installing a swimming pool?:	Yes
Are you installing a rainwater tank?:	Yes
Fixtures, fittings & connections profile	

Showerhead:		
Retail/Civic	Scope out	
Retail/Civic		
00.20	4 Star WELS (>= 6.0 but <= 7.5)	
00.1B		
00.2N		
00.3W1, 00.3W2		
00.2M.1, 00.2M.2		
01.3A, 02.3A		
01.3B, 02.3B		
01.2C, 02.2C01		
01.3V, 02.3V		
01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2		
01.3C.2, 0.2.3D.2		
01.3C.1, 02.3D.1		
01.3E, 02.3E		
01.3U, 02.3U		
02.2A.3, 02.2A.1		
01.3F, 02.3F		
01.3G, 02.3G		
02.1A.1, 02.1A.2, 02.1A.3		
03.3H		
03.2D		
03.31		
03.2E		
03.4A		
1B1B		
03.3J		
03.3K		
U3.3L		
04.2D, 05.2D, 00.2D, 07.2D		
04.37, 05.37, 00.37		
04.20, 05.20		
04.3N 05.3N		
04 4B 05 4B		
04.3K. 05.3K		
04.2H. 05.2H. 06.2H		
04.30, 05.30, 06.30		
06.3P		
06.21		
06.3J		
06.3T		
07.3Q		
07.3Z		
07.3R		
07.4E		
07.4F		
08.4D		
08.4C		
08.4G		
08.4F		
09.30 Julit Environment Sustainability Scorecard is an initiative of the Council A	liance for a Sustainable Built Environment (CASBE).	Page 11 of 35

	Bath:		
	Retail/Civic	Scope out	
	00.20		
	00.3W1, 00.3W2		
	Retail/Civic		
	03.3H		
	1B1B		
	00.1B	Medium Sized Contemporary Bath	
	00.2N		
	00.2M.1, 00.2M.2		
	01.3A, 02.3A		
	01.3B, 02.3B		
	01.2C, 02.2C01		
	01.3V, 02.3V		
	01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2		
	01.3C.2, 0.2.3D.2		
	01.3C.1, 02.3D.1		
	01.3E, 02.3E		
	01.3U, 02.3U		
	02.2A.3, 02.2A.1		
	01.3F, 02.3F		
	01.3G, 02.3G		
	02.1A.1, 02.1A.2, 02.1A.3		
	03.2D		
	03.31		
	03.2E		
	03.4A		
	03.3J		
	03.3K		
	03.3L		
	03.3M		
	04.2B, 05.2B, 06.2B, 07.2B		
	04.3X, 05.3X, 06.3X		
	04.3Y, 05.3Y		
	04.2G, 05.2G		
	04.3N, 05.3N		
	04.4B, 05.4B		
	04.3K, 05.3K		
	04.2H, 05.2H, 06.2H		
	04.30, 05.30, 06.30		
	06.3P		
	06.21		
	06.3J		
	06.31		
	U7.3Q		
	07.32		
	07.3R		
	07.4E		
	08.40		
	08.4G		
	U8.4F		
	09.30		
Зι	ill Environment Sustainability Scorecard is an initiative of the Council Al	liance for a Sustainable Built Environment (CASBE).	Page 12 of 25
10	n ngedwis see www.bess.net.au	Extra Large Bath or Spa	raye 12 01 33

Kitchen Taps: All	>= 5 Star WELS rating
Bathroom Taps: All	>= 6 Star WELS rating
Dishwashers: All	>= 5 Star WELS rating
WC: All	>= 4 Star WELS rating
Urinals: All	Scope out

Washing Machine Water Efficiency:		
Retail/Civic	Scope out	
Retail/Civic		
00.20	Occupant to Install	
00.1B		
00.2N		
00.3W1, 00.3W2		
00.2M.1, 00.2M.2		
01.3A, 02.3A		
01.3B, 02.3B		
01.2C, 02.2C01		
01.3V, 02.3V		
01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2		
01.3C.2, 0.2.3D.2		
01.3C.1, 02.3D.1		
01.3E, 02.3E		
01.3U, 02.3U		
02.2A.3, 02.2A.1		
01.3F, 02.3F		
01.3G, 02.3G		
02.1A.1, 02.1A.2, 02.1A.3		
03.3H		
03.2D		
03.31		
03.2E		
03.4A		
1B1B		
03.3J		
03.3K		
03.3L		
03.3M		
04.2B, 05.2B, 06.2B, 07.2B		
04.3X, 05.3X, 06.3X		
04.3Y, 05.3Y		
04.2G, 05.2G		
04.3N, 05.3N		
04.48, 05.48		
04.20, 05.20, 06.20		
04.30, 03.30, 00.30		
06.21		
06.3.1		
06.3T		
07.30		
07.3Z		
07.3B		
07.4E		
07.4F		
08.4D		
08.4C		
08.4G		
08.4F		
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Which non-potable water source is the dwelling/space		
connected to?:		
Retail/Civic	RWT 1	
Retail/Civic		
00.20	-1	
00.1B		
00.2N		
00.3W1_00.3W2		
00 2M 1 00 2M 2		
01.3A 02.3A		
01.3B 02.3B		
01.20, 02.2001		
01.3V 02.3V		
01 20 1 01 20 2 02 20 3 02 20 2		
01.27.1, 01.27.2, 02.27.3, 02.27.2		
01.30.2, 0.2.30.2		
01.30.1, 02.30.1		
01.3E, 02.3E		
01.30, 02.30		
02.2A.3, 02.2A.1		
01.3F, 02.3F		
01.3G, 02.3G		
02.1A.1, 02.1A.2, 02.1A.3		
03.3H		
03.2D		
03.31		
03.2E		
03.4A		
1B1B		
03.3J		
03.3K		
03.3L		
03.3M		
04.2B, 05.2B, 06.2B, 07.2B		
04.3X, 05.3X, 06.3X		
04.3Y, 05.3Y		
04.2G, 05.2G		
04.3N, 05.3N		
04.4B, 05.4B		
04.3K, 05.3K		
04.2H, 05.2H, 06.2H		
04.30, 05.30, 06.30		
06.3P		
06.21		
06.3J		
06.3T		
07.3Q		
07.3Z		
07.3R		
07.4E		
07.4F		
08.4D		
08.4C		
08.4G		
.08.4F		
ullt Environment Sustainability Scorecard is an initiative of the Council / Ior09330Is see www.bess.net.au	Alliance for a Sustainable Built Environment (CASBE).	Page 15 of 35

Non-potable water source connected to Toilets:	
Retail/Civic	Yes
Retail/Civic	
00.20	No
00.1B	
00.2N	
00.3W1, 00.3W2	
00 2M 1 00 2M 2	
01.3A. 02.3A	
01.3B. 02.3B	
01.2C. 02.2C01	
01.3V. 02.3V	
01.2A.1. 01.2A.2. 02.2A.3. 02.2A.2	
01.3C.2. 0.2.3D.2	
01.3C.1. 02.3D.1	
01.3E. 02.3E	
01.3U. 02.3U	
02.2A.3, 02.2A.1	
01.3F, 02.3F	
01.3G, 02.3G	
02.1A.1, 02.1A.2, 02.1A.3	
03.3H	
03.2D	
03.31	
03.2E	
03.4A	
1B1B	
03.3J	
03.3K	
03.3L	
03.3M	
04.2B, 05.2B, 06.2B, 07.2B	
04.3X, 05.3X, 06.3X	
04.3Y, 05.3Y	
04.2G, 05.2G	
04.3N, 05.3N	
04.4B, 05.4B	
04.3K, 05.3K	
04.2H, 05.2H, 06.2H	
04.30, 05.30, 06.30	
06.3P	
06.21	
06.3J	
06.3T	
07.3Q	
07.3Z	
07.3R	
07.4E	
07.4F	
08.4D	
08.4C	
08.4G	
08.4F	
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Non-potable water source connected t machine): All	o Laundry (washing	No			
Non-potable water source connected t	o Hot Water System: A	ll No			
Rainwater tank profile					
What is the total roof area connected t	o the rainwater tank?:				
RWT 1		1,251	m²		
RWT 2		2,645	m²		
Tank Size:					
RWT 1		25,00	0 Litres		
RWT 2		35,00	0 Litres		
Irrigation area connected to tank:					
RWT 1		-			
RWT 2		1,251	m²		
Is connected irrigation area a water eff	icient garden?:				
RWT 1		Yes			
RWT 2		No			
Other external water demand connected	ed to tank?:				
RWT 1		5,453	Litres/Day		
RWT 2 0.0 Litres/Day					
1.1 Potable Water Use Reduction 40%					
Score Contribution	This credit contribute	s 71.49	% towards the category	score.	
Criteria	What is the reduction	in tota	I potable water use due	to efficient fixtures, appliances,	
	rainwater use and rec	cycled	water use? To achieve p	oints in this credit there must be	
	>25% potable water	reducti	on.		
Output	Reference				
Project	21001 kL				
Output	Proposed (excluding	rainwa	ter and recycled water u	se)	
Project	17113 kL				
Output	Proposed (including I	rainwat	er and recycled water us	se)	
Project	15709 kL				
Output	% Reduction in Pota	ble Wa	ter Consumption		
Project	25 %				
Output	% of connected dem	and me	et by rainwater		
Project	90 %				
Output	How often does the t	ank ov	erflow?		
Project	Very Often				
Output	Opportunity for addit	ional ra	inwater connection		
Project	Project 7957 kL				
3.1 Water Efficient Landscaping				100%	

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Score Contribution	This credit contributes 14.39	% towards the category score.	
Criteria	Will water efficient landscaping be installed?		
Question	Criteria Achieved ?		
Project	Yes		
4.1 Building Systems Water Use Reduction		100%	
Score Contribution	This credit contributes 14.39	6 towards the category score.	
Criteria	Where applicable, have measures been taken to reduce potable water consumption by		
	>80% in the buildings air-conditioning chillers and when testing fire safety systems?		
	>80% in the buildings air-co	nditioning chillers and when testing fire safety systems?	
Question	>80% in the buildings air-co Criteria Achieved ?	nditioning chillers and when testing fire safety systems?	

#### Energy Overall contribution 27.5%

		Minimum required 50%	58%	<ul> <li>Pass</li> </ul>	
Use the BESS Deem to Satisfy (D spaces?:	otS) method for Non-residen	<b>tial</b> No			
Dwellings Energy Approach					
What approach do you want to u	se for Dwellings?:	Use the built in calculation tools			
Are you installing any solar photo	voltaic (PV) system(s)?:	Yes			
Are you installing any other renewable energy system(s)?:		No			
Energy Supply:		All-electric			
Dwelling Energy Profiles					
Building: All		Building 1			

Below the floor is:	
00.20	Ground or Carpark
00.1B	
00.2N	
00.3W1, 00.3W2	
00.2M.1, 00.2M.2	
01.3A, 02.3A	Another Occupancy
01.3B. 02.3B	
01.2C. 02.2C01	
01.3V. 02.3V	
01.2A.1. 01.2A.2. 02.2A.3. 02.2A.2	
01.3C.2, 0.2.3D.2	
01.3C.1, 02.3D.1	
01.3E, 02.3E	
01.3U, 02.3U	
02.2A.3, 02.2A.1	
01.3F, 02.3F	
01.3G, 02.3G	
02.1A.1, 02.1A.2, 02.1A.3	
03.3H	
03.2D	
03.31	
03.2E	
03.4A	
1B1B	
03.3J	
03.3K	
03.3L	
03.3M	
04.2B, 05.2B, 06.2B, 07.2B	
04.3X, 05.3X, 06.3X	
04.3Y, 05.3Y	
04.2G, 05.2G	
04.3N, 05.3N	
04.4B, 05.4B	
04.3K, 05.3K	
04.2H, 05.2H, 06.2H	
04.30, 05.30, 06.30	
06.3P	
06.21	
06.3J	
05.31	
07.3Q	
07.32	
07.4E	
07.4E	
08.4D	
08.40	
08.4G	
08.4E	
09.30	
09.35	
00.00	

Above the ceiling is:	
00.20	Another Occupancy
00.1B	
00.2N	
00.3W1, 00.3W2	
00.2M.1, 00.2M.2	
01.3A, 02.3A	
01.3B, 02.3B	
01.2C, 02.2C01	
01.3V, 02.3V	
01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2	
01.3C.2, 0.2.3D.2	
01.3C.1, 02.3D.1	
01.3E, 02.3E	
01.3U, 02.3U	
02.2A.3, 02.2A.1	
01.3F, 02.3F	
01.3G, 02.3G	
02.1A.1, 02.1A.2, 02.1A.3	
03.3H	
03.2D	
03.31	
03.2E	
03.4A	
1B1B	
03.3J	
03.3K	
03.3L	
03.3M	
04.2B, 05.2B, 06.2B, 07.2B	
04.3X, 05.3X, 06.3X	
04.3Y, 05.3Y	
04.2G, 05.2G	
04.3N, 05.3N	
04.4B, 05.4B	
04.3K, 05.3K	
04.2H, 05.2H, 06.2H	
04.30, 05.30, 06.30	
06.3P	
06.21	
06.3J	
06.31	
07.3Q	
07.3Z	
07.3R	
07.4E	
07.4F	
00.4F	
08.4D	Outside
09.30	
09.3S	

Exposed sides:	
00.20	2
00.1B	
00.2N	
00.3W1, 00.3W2	
01.3B, 02.3B	
01.2C, 02.2C01	
01.3V, 02.3V	
01.3C.2, 0.2.3D.2	
01.3C.1, 02.3D.1	
01.3E, 02.3E	
01.3F, 02.3F	
01.3G, 02.3G	
03.3H	
03.31	
03.4A	
03.3J	
03.3K	
04.2B, 05.2B, 06.2B, 07.2B	
04.3Y, 05.3Y	
04.3N, 05.3N	
04.4B, 05.4B	
04.3K, 05.3K	
06.3P	
06.21	
06.3J	
06.3T	
07.3Q	
07.3Z	
07.3R	
07.4E	
08.4C	
00.2M.1, 00.2M.2	1
01.2A.1, 01.2A.2, 02.2A.3, 02.2A.2	
01.3U, 02.3U	
02.2A.3, 02.2A.1	
02.1A.1, 02.1A.2, 02.1A.3	
03.2D	
03.2E	
1B1B	
03.3L	
04.3X, 05.3X, 06.3X	
04.2G, 05.2G	
04.2H, 05.2H, 06.2H	
01.3A, 02.3A	3
03.3M	
04.30, 05.30, 06.30	
07.4F	
08.4G	
08.4F	
09.30	
09.3S	
08.4D	4

The Built Environment Sustainability Scorecard is an initiative of the Council Alliance for a Sustainable Built Environment (CASBE). For more details see www.bess.net.au

NatHERS Annual Energy Loads - Heat: All	40.0 MJ/sqm
NatHERS Annual Energy Loads - Cool: All	16.3 MJ/sqm
NatHERS star rating: All	7.0
Type of Heating System: All	Reverse cycle space
Heating System Efficiency: All	2.5 Stars (2019 MEPS)
Type of Cooling System: All	Refrigerative space
Cooling System Efficiency: All	4 Stars (2011 MEPS)
Type of Hot Water System: All	Electric Heat Pump Band 1
Is the hot water system shared by multiple dwe	Ilings?: All Yes
Clothes Line: All	No drying facilities
Clothes Dryer: All	Occupant to install
Non-residential buildings profiles	
Heating, Cooling & Comfort Ventilation - Electri Reference fabric & services: All	city 1,000 kWh
Heating, Cooling & Comfort Ventilation - Electri fabric and reference services: All	city - proposed 1,000 kWh
Heating, Cooling & Comfort Ventilation - Electri Proposed fabric & services: All	city 1,000 kWh
Hot Water - Electricity - Reference: All	1,000 kWh
Hot Water - Electricity - Proposed: All	1,000 kWh
Lighting - Reference: All	1,000 kWh
Lighting - Proposed: All	1,000 kWh
Solar Photovoltaic system profile	
System Size (lesser of inverter and panel capace	ity): PV Sutem 30.0 kW peak
Orientation (which way is the system facing)?:	PV Sutem 2 North
Inclination (angle from horizontal): PV Sutem 2	10.0 Angle (degrees)
Which Building Class does this apply to?: PV	Sutem 2 Apartment
1.1 Thermal Performance Rating - Non-Residentia	12%
Score Contribution This of	credit contributes 1.9% towards the category score.
Criteria What	is the % reduction in heating and cooling energy consumption against the
refere	ence case (NCC2022 Section J)?
Output Total	Improvement
Shop 0 %	
1.2 Thermal Performance Rating - Residential	0% 🗸 Achieved
Score Contribution This of	credit contributes 16.7% towards the category score.
Criteria What	is the average NatHERS rating?
Output Avera	ge NATHERS Rating (Weighted)
Apartment 7.0 S	tars
2.1 Greenhouse Gas Emissions	2%

Score Contribution	Contribution This credit contributes 17.2% towards the category score.			
Criteria	What is the % reduction	What is the % reduction in annual greenhouse gas emissions against the benchmark?		
Output	Reference Building with Reference Services (BCA only)			
Apartment	241,198 kg CO2			
Shop	1,735 kg CO2			
Output	Proposed Building wit	Proposed Building with Proposed Services (Actual Building)		
Apartment	225,454 kg CO2			
Shop	1,735 kg CO2			
Output	% Reduction in GHG	Emissions		
Apartment	6 %			
Shop	0 %			
2.2 Peak Demand		0%		
Score Contribution	This credit contributes	0.2% towards the category score.		
Criteria	What is the % reduction	on in the instantaneous (peak-hour) demand against the		
	benchmark?			
2.6 Electrification		100%		
Score Contribution	This credit contributes 17.4% towards the category score.			
Criteria	Is the development all-electric?			
Question	Criteria Achieved?			
Project	Yes	Yes		
2.7 Energy consumption		100%		
2.7 Energy consumption Score Contribution	This credit contributes	100% 23.2% towards the category score.		
2.7 Energy consumption Score Contribution Criteria	This credit contributes What is the % reduction	100% 23.2% towards the category score. on in annual energy consumption against the benchmark?		
2.7 Energy consumption Score Contribution Criteria Output	This credit contributes What is the % reduction Reference Building with	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only)		
2.7 Energy consumption Score Contribution Criteria Output Apartment	This credit contributes What is the % reduction Reference Building with 2,204,048 MJ	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop	This credit contributes What is the % reduction Reference Building with 2,204,048 MJ 7,348 MJ	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output	This credit contributes What is the % reduction Reference Building with 2,204,048 MJ 7,348 MJ Proposed Building with	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only) h Proposed Services (Actual Building)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop	This credit contributes What is the % reduction Reference Building wit 2,204,048 MJ 7,348 MJ Proposed Building wit 954,865 MJ 7,348 MJ	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only) h Proposed Services (Actual Building)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output	This credit contributes What is the % reduction Reference Building with 2,204,048 MJ 7,348 MJ Proposed Building with 954,865 MJ 7,348 MJ % Reduction in total e	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         energy		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 %	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only) h Proposed Services (Actual Building)		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop	This credit contributes What is the % reduction Reference Building wit 2,204,048 MJ 7,348 MJ Proposed Building wit 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 %	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         energy		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Apartment Shop <b>3.1 Carpark Ventilation</b>	This credit contributes What is the % reduction Reference Building with 2,204,048 MJ 7,348 MJ Proposed Building with 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 %	100% 23.2% towards the category score. on in annual energy consumption against the benchmark? th Reference Services (BCA only) h Proposed Services (Actual Building) energy 100%		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop <b>Output</b> Apartment Shop <b>Output</b> Apartment Score Contribution	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         energy         100%         5.8% towards the category score.		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop <b>3.1 Carpark Ventilation</b> Score Contribution	This credit contributes What is the % reduction Reference Building wit 2,204,048 MJ 7,348 MJ Proposed Building wit 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes If you have an enclose	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         energy         100%         5.8% towards the category score.         rd carpark, is it: (a) fully naturally ventilated (no mechanical		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Criteria	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes If you have an enclose ventilation system) or	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         anergy         100%         s 5.8% towards the category score.         ad carpark, is it: (a) fully naturally ventilated (no mechanical         (b) 40 car spaces or less with Carbon Monoxide monitoring to		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Apartment Shop Output Criteria	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes If you have an enclose ventilation system) or control the operation a	100%         23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         inergy         100%         s 5.8% towards the category score.         id carpark, is it: (a) fully naturally ventilated (no mechanical (b) 40 car spaces or less with Carbon Monoxide monitoring to and speed of the ventilation fans?		
2.7 Energy consumption Score Contribution Criteria Output Apartment Shop Output Apartment Shop Output Apartment Shop 3.1 Carpark Ventilation Score Contribution Criteria Question	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes If you have an enclose ventilation system) or control the operation and Criteria Achieved ?	100%         223.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         anergy         100%         5.8% towards the category score.         ad carpark, is it: (a) fully naturally ventilated (no mechanical (b) 40 car spaces or less with Carbon Monoxide monitoring to and speed of the ventilation fans?		
2.7 Energy consumption         Score Contribution         Criteria         Output         Apartment         Shop         Output         Question         Project	This credit contributes What is the % reduction Reference Building wite 2,204,048 MJ 7,348 MJ Proposed Building wite 954,865 MJ 7,348 MJ % Reduction in total end 56 % 0 % This credit contributes If you have an enclose ventilation system) or control the operation and Criteria Achieved ? Yes	100%         a 23.2% towards the category score.         on in annual energy consumption against the benchmark?         th Reference Services (BCA only)         h Proposed Services (Actual Building)         anergy         100%         a 5.8% towards the category score.         ad carpark, is it: (a) fully naturally ventilated (no mechanical         (b) 40 car spaces or less with Carbon Monoxide monitoring to and speed of the ventilation fans?		

Score Contribution	This credit contributes 0.2% towards the category score.				
Criteria	What is the % reduction in annual energy consumption (gas and electricity) of the hot				
	water system against t	he benchmark?			
Output	Reference	Reference			
Shop	3,674 MJ				
Output	Proposed				
Shop	3,674 MJ				
Output	Improvement	Improvement			
Shop	0 %				
3.4 Clothes Drying 0%					
Score Contribution	This credit contributes	5.6% towards the category score.			
Criteria	What is the % reduction	on in annual energy consumption (gas and electricity) from a			
	combination of clothes	lines and efficient driers against the benchmark?			
Output	Reference				
Apartment	48,919 kWh	48,919 kWh			
Output	Proposed				
Apartment	48,919 kWh				
Output	Improvement				
	0 %				
Apartment	0 %				
Apartment 3.6 Internal Lighting - Apartments	0 %	100%			
Apartment 3.6 Internal Lighting - Apartments Score Contribution	0 % This credit contributes	100% 5.6% towards the category score.			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria	0 % This credit contributes Is the maximum illumir	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria	0 % This credit contributes Is the maximum illumir building class at least	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant 20% lower than required by clause J7D3(1)(a) and Table J6.2a of			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria	0 % This credit contributes Is the maximum illumir building class at least the NCC 2022 Vol 1 (C	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant 20% lower than required by clause J7D3(1)(a) and Table J6.2a of lass 2-9)?			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question	0 % This credit contributes Is the maximum illumir building class at least the NCC 2022 Vol 1 (C Criteria Achieved ?	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant 20% lower than required by clause J7D3(1)(a) and Table J6.2a of lass 2-9)?			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question Apartment	0 % This credit contributes Is the maximum illumir building class at least the NCC 2022 Vol 1 (C Criteria Achieved ? Yes	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant 20% lower than required by clause J7D3(1)(a) and Table J6.2a of lass 2-9)?			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question Apartment 3.7 Internal Lighting - Non-Residential	0 % This credit contributes Is the maximum illumir building class at least the NCC 2022 Vol 1 (C Criteria Achieved ? Yes	100% 5.6% towards the category score. nation power density (W/m2) in at least 90% of the relevant 20% lower than required by clause J7D3(1)(a) and Table J6.2a of lass 2-9)? 100%			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question Apartment 3.7 Internal Lighting - Non-Residential Score Contribution	0 % This credit contributes Is the maximum illumin building class at least the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question Apartment 3.7 Internal Lighting - Non-Residential Score Contribution Criteria	0 % This credit contributes Is the maximum illumir building class at least : the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         umination power density (W/m2) in at least 90% of the area of the			
Apartment 3.6 Internal Lighting - Apartments Score Contribution Criteria Question Apartment 3.7 Internal Lighting - Non-Residential Score Contribution Criteria	0 % This credit contributes Is the maximum illumir building class at least the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         mination power density (W/m2) in at least 90% of the area of the         meet the requirements in Table J7D3a of the NCC 2022 Vol 1?			
Apartment  3.6 Internal Lighting - Apartments  Score Contribution  Criteria  Question  Apartment  3.7 Internal Lighting - Non-Residential  Score Contribution  Criteria  Question	0 % This credit contributes Is the maximum illumir building class at least if the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class Criteria Achieved ?	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         mination power density (W/m2) in at least 90% of the area of the         meet the requirements in Table J7D3a of the NCC 2022 Vol 1?			
Apartment  3.6 Internal Lighting - Apartments  Score Contribution  Criteria  Question  Apartment  3.7 Internal Lighting - Non-Residential  Score Contribution  Criteria  Question  Shop	0 % This credit contributes Is the maximum illumir building class at least : the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class Criteria Achieved ? Yes	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of lass 2-9)?         100%         0.5% towards the category score.         minination power density (W/m2) in at least 90% of the area of the meet the requirements in Table J7D3a of the NCC 2022 Vol 1?			
Apartment         3.6 Internal Lighting - Apartments         Score Contribution         Criteria         Question         Apartment         3.7 Internal Lighting - Non-Residential         Score Contribution         Criteria         Question         Score Contribution         Criteria         Question         Shop         4.1 Combined Heat and Power (cogeneral	0 % This credit contributes Is the maximum illumir building class at least : the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class Criteria Achieved ? Yes tion / trigeneration)	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         mination power density (W/m2) in at least 90% of the area of the         meet the requirements in Table J7D3a of the NCC 2022 Vol 1?         N/A       Scoped Out			
Apartment         3.6 Internal Lighting - Apartments         Score Contribution         Criteria         Question         Apartment         3.7 Internal Lighting - Non-Residential         Score Contribution         Criteria         Question         Score Contribution         Criteria         Question         Shop         4.1 Combined Heat and Power (cogeneral	0 % This credit contributes Is the maximum illumir building class at least : the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class Criteria Achieved ? Yes tion / trigeneration)	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         minination power density (W/m2) in at least 90% of the area of the         meet the requirements in Table J7D3a of the NCC 2022 Vol 1?         N/A       \$ Scoped Out         No cogeneration or trigeneration system in use.			
Apartment  3.6 Internal Lighting - Apartments  Score Contribution  Criteria  Question  Apartment  3.7 Internal Lighting - Non-Residential  Score Contribution  Criteria  Question  Shop  4.1 Combined Heat and Power (cogenera  This credit was scoped out	0 % This credit contributes Is the maximum illumir building class at least : the NCC 2022 Vol 1 (C Criteria Achieved ? Yes This credit contributes Does the maximum illu relevant building class Criteria Achieved ? Yes tion / trigeneration) No cogeneration or trig	100%         5.6% towards the category score.         nation power density (W/m2) in at least 90% of the relevant         20% lower than required by clause J7D3(1)(a) and Table J6.2a of         lass 2-9)?         100%         0.5% towards the category score.         mination power density (W/m2) in at least 90% of the area of the         meet the requirements in Table J7D3a of the NCC 2022 Vol 1?         N/A       \$ Scoped Out         No cogeneration or trigeneration system in use.         generation system in use.			

	Score Contribution	This credit contributes 5.8% 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
	Apartment	36,355 kWh
	Output	% of Building's Energy
	Apartment	13 %
	4.4 Renewable Energy Systems - Other	N/A 💠 Scoped Out
Ĩ		No other (non-solar PV) renewable energy is in use.
	This credit was scoped out	No other (non-solar PV) renewable energy is in use.

Stormwater Overall contribution 13.5%

Minimum required 100%

Pass

100%

Which stormwater modelling software a	are you using?:	MUSIC or other modelling so	ftware
1.1 Stormwater Treatment			100%
Score Contribution	This credit contribute	es 100% towards the category s	score.
Criteria	Has best practice sto	ormwater management been de	emonstrated?
Question Flow (ML/year)			
Project 34.1 % Reduction			
Question Total Suspended Soli		ids (kg/year)	
Project 89.4 % Reduction			
Question	Question Total Phosphorus (kg/year)		
Project	86.6 % Reduction		
Question	Total Nitrogen (kg/ye	ar)	
Project	73.7 % Reduction		

#### IEQ Overall contribution 16.5%

		Minimum ı	required 50%	63% 🖌 Pass	
Use the BESS Deemed to Satisfy (DtS) Dwellings?:	method for daylight to	No			
What approach do you want to use for	daylight to Dwellings?:	Provide or	ur own calculation	S	
1.1 Daylight Access - Living Areas				66%	
Score Contribution	This credit contribute	s 25.6% to	wards the categor	y score.	
Criteria	What % of living area	s achieve a	daylight factor gr	eater than 1%	
Question	Percentage Achieved	?			
Apartment	90 %				
1.2 Daylight Access - Bedrooms				66%	
Score Contribution	This credit contribute	s 25.6% to	wards the categor	y score.	
Criteria	What % of bedrooms	achieve a	daylight factor gre	ater than 0.5%	
Question	Percentage Achieved	?			
Apartment	86 %				
1.3 Winter Sunlight				0%	
Score Contribution	This credit contribute	s 8.5% tow	ards the category	score.	
Criteria	Do 70% of dwellings	receive at le	east 3 hours of dir	ect sunlight in all Living areas	
	between 9am and 3p	m in mid-w	inter?		
Question	Criteria Achieved ?				
Apartment	No	_			
1.4 Daylight Access - Non-Residential				60% Achieved	
Score Contribution	This credit contribute	s 2.2% tow	ards the category	score.	
Criteria	What % of the nomination	ated floor a	rea has at least 2	% daylight factor?	
Question	Percentage Achieved	?			
 Shop	60 %				
1.5 Daylight Access - Minimal Internal Bed	rooms			100%	
Score Contribution	This credit contribute	s 8.5% tow	ards the category	score.	
Criteria	Do at least 90% of dv	vellings hav	e an external win	dow in all bedrooms?	
Question	Criteria Achieved ?				
Apartment	Yes				
Apartment 2.1 Effective Natural Ventilation	Yes			66%	
 Apartment 2.1 Effective Natural Ventilation Score Contribution	Yes This credit contribute:	s 25.6% to	wards the categor	66% y score.	
 Apartment 2.1 Effective Natural Ventilation Score Contribution Criteria	Yes This credit contribute: What % of dwellings	s 25.6% tov are effective	wards the categor ely naturally ventil	66% y score. ated?	_
Apartment 2.1 Effective Natural Ventilation Score Contribution Criteria Question	Yes This credit contribute What % of dwellings Percentage Achieved	s 25.6% to are effective ?	wards the categor ely naturally ventil	66% y score. ated?	
Apartment 2.1 Effective Natural Ventilation Score Contribution Criteria Question Apartment	Yes This credit contribute: What % of dwellings Percentage Achieved 70 %	s 25.6% to are effective ?	wards the categor	66% y score. ated?	
Apartment 2.1 Effective Natural Ventilation Score Contribution Criteria Question Apartment 2.3 Ventilation - Non-Residential	Yes This credit contribute What % of dwellings Percentage Achieved 70 %	s 25.6% tov are effective ?	wards the categor	66% y score. ated? 33%  Achieved	

Criteria	What % of the regular	use areas are effectively naturally ventilated?
Question	Percentage Achieved?	,
Shop	-	
Criteria	What increase in outdo	por air is available to regular use areas compared to the minimum
	required by AS 1668.2	:2012?
Question	Percentage Achieved?	,
Shop	50 %	
Criteria	What CO2 concentrati	ons are the ventilation systems designed to achieve, to monitor
	and to maintain?	
Question	Value	
Shop	-	
3.4 Thermal comfort - Shading - Non-Resi	dential	100%
Score Contribution	This credit contributes	1.1% towards the category score.
Criteria	What percentage of ea	ast, north and west glazing to regular use areas is effectively
	shaded?	
Question	Percentage Achieved?	,
Shop	100 %	
3.5 Thormal Comfort - Coiling Ease - Non-	Regidential	0%
5.5 Merinal Connort - Cening Paris - Non-	Residential	078
 Score Contribution	This credit contributes	0.4% towards the category score.
 Score Contribution	This credit contributes What percentage of re	0.4% towards the category score. gular use areas in tenancies have ceiling fans?
 Score Contribution Criteria Question	This credit contributes What percentage of re Percentage Achieved?	0.4% towards the category score. gular use areas in tenancies have ceiling fans?
 Score Contribution Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved?	0.4% towards the category score. gular use areas in tenancies have ceiling fans?
 Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential	This credit contributes What percentage of re Percentage Achieved?	0.4% towards the category score. gular use areas in tenancies have ceiling fans?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution	This credit contributes What percentage of re Percentage Achieved? - This credit contributes	0.4% towards the category score. gular use areas in tenancies have ceiling fans? 100% 0.4% towards the category score.
 Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution	This credit contributes What percentage of re Percentage Achieved? - This credit contributes	0.4% towards the category score. gular use areas in tenancies have ceiling fans? 100% 0.4% towards the category score.
 Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits?	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ?	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop Criteria Question	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t Criteria Achieved ?	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t Criteria Achieved ? Yes	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t Criteria Achieved ? Yes	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t Criteria Achieved ? Yes Does all engineered w	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?  ood meet the maximum total indoor pollutant emission limits?
Score Contribution Criteria Question Shop 4.1 Air Quality - Non-Residential Score Contribution Criteria Question Shop Criteria Question Shop Criteria Question Shop	This credit contributes What percentage of re Percentage Achieved? - This credit contributes Do all paints, sealants emission limits? Criteria Achieved ? Yes Does all carpet meet t Criteria Achieved ? Yes	0.4% towards the category score.  gular use areas in tenancies have ceiling fans?  100%  0.4% towards the category score.  and adhesives meet the maximum total indoor pollutant  he maximum total indoor pollutant emission limits?  ood meet the maximum total indoor pollutant emission limits?

The Built Environment Sustainability Scorecard is an initiative of the Council Alliance for a Sustainable Built Environment (CASBE). For more details see www.bess.net.au

#### Transport Overall contribution 9.0%

	77%

1.1 Bicycle Parking - Residential				100%
Score Contribution	Score Contribution This credit contributes 21.4% towards the category score.			y score.
Criteria	How many secure and undercover bicycle spaces are there for residents?			
Question	Bicycle Spaces Provided ?			
Apartment	84			
Output	Min Bicycle Spaces R	equired		
Apartment	84			
1.2 Bicycle Parking - Residential Visitor				100%
Score Contribution	This credit contributes	21.4% towards the	categor	y score.
Criteria	How many secure bicy	cle spaces are there	e for visit	tors?
Question	Visitor Bicycle Spaces	Provided ?		
Apartment	17			
Output	Min Visitor Bicycle Spa	aces Required		
Apartment	17			
1.3 Bicycle Parking - Convenience Residen	tial			0%
Score Contribution	This credit contributes	10.7% towards the	categor	y score.
Criteria Are bike parking facilities for residents			ated at g	round or entry level?
Question Criteria Achieved ?				
Apartment No				
1.4 Bicycle Parking - Non-Residential				100%
Score Contribution	This credit contributes	0.9% towards the c	category	score.
Criteria	Have the planning sch	eme requirements fo	or emplo	yee bicycle parking been exceeded
	by at least 50% (or a r	ninimum of 2 where	there is	no planning scheme requirement)?
Question	Criteria Achieved ?			
Shop	Yes			
Question	Bicycle Spaces Provid	led ?		
Shop	6			
1.5 Bicycle Parking - Non-Residential Visito	r			100%
Score Contribution	This credit contributes	0.5% towards the c	category	score.
Criteria	Have the planning sch	eme requirements fo	or visitor	bicycle parking been exceeded by
	at least 50% (or a min	imum of 1 where the	ere is no	planning scheme requirement)?
Question	Criteria Achieved ?			
Shop	Yes			
Question	Bicycle Spaces Provid	led ?		
Shop	2			

Score Contribution	This credit contributes 0.5% towards the category score.		
Criteria	Where adequate bicycle parking has been provided. Is there also: * 1 shower for the		
	first 5 employee bicycle spaces plus 1 to each 10 employee bicycles 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 ?		
Shop	-		
Question	Number of lockers provided ?		
Shop			
Output	Min Showers Required		
Shop	1		
Output	Min Lockers Required		
Shop	6		
2.1 Electric Vehicle Infrastructure	100%		
Score Contribution	This credit contributes 22.3% towards the category score.		
Criteria	Are facilities provided for the charging of electric vehicles?		
Question	Criteria Achieved ?		
Project	Yes		
2.2 Car Share Scheme	0%		
Score Contribution	This credit contributes 11.2% 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	100%		
Score Contribution	This credit contributes 11.2% 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	Yes		

# Waste Overall contribution 5.5%

/aste Overall contribution 5.5%				
		66%		
e		0%		
This credit contributes	s 33.3% towards the category	score.		
If the development is	on a site that has been previou	isly developed, has at least 30% of		
the existing building b	been re-used?			
Criteria Achieved ?				
No				
Vaste		100%		
This credit contributes	s 33.3% towards the category	score.		
Are facilities provided	for on-site management of foc	od and garden waste?		
Criteria Achieved ?				
Yes				
Recycling		100%		
This credit contributes	s 33.3% towards the category	score.		
Are the recycling facilities at least as convenient for occupants as facilities for general				
waste?				
Criteria Achieved ?				
	e This credit contribute If the development is the existing building b Criteria Achieved ? No Vaste This credit contribute Are facilities provided Criteria Achieved ? Yes Recycling This credit contribute Are the recycling facil waste?	e This credit contributes 33.3% towards the category If the development is on a site that has been previou the existing building been re-used? Criteria Achieved ? No Vaste This credit contributes 33.3% towards the category Are facilities provided for on-site management of foc Criteria Achieved ? Yes Recycling This credit contributes 33.3% towards the category Are the recycling facilities at least as convenient for waste?		

### Urban Ecology Overall contribution 5.5%

			88%
1.1 Communal Spaces			100%
Score Contribution	This credit contributes 11.	.2%	towards the category score.
Criteria	Is there at least the follow	ing a	amount of common space measured in square meters : *
	1m <sup>2</sup> for each of the first 50	0 oc	cupants * Additional 0.5m <sup>2</sup> for each occupant between 51
	and 250 * Additional 0.25r	m² fo	or each occupant above 251?
Question	Common space provided		
Apartment	1,068 m²		
Shop	100 m <sup>2</sup>		
Output	Minimum Common Space	e Re	quired
Apartment	201 m <sup>2</sup>		
 Shop	54 m²		
2.1 Vegetation			75%
Score Contribution	This credit contributes 44.	.6%	towards the category score.
Criteria	How much of the site is co	over	ed with vegetation, expressed as a percentage of the
	total site area?		
Question	Percentage Achieved ?		
Project	21 %		
2.2 Green Roofs			100%
Score Contribution	This credit contributes 11.	.2%	towards the category score.
Criteria	Does the development inc	corp	orate a green roof?
Question	Criteria Achieved ?		
Project	Yes		
2.3 Green Walls and Facades			100%
Score Contribution	This credit contributes 11.	.2%	towards the category score.
Criteria	Criteria Does the development incorporate a green wall or green facade?		orate a green wall or green façade?
Question	Criteria Achieved ?		
Project	Yes		
2.4 Private Open Space - Balcony / Courty	ard Ecology		100%
Score Contribution	This credit contributes 10.	.7%	towards the category score.
Criteria	Is there a tap and floor wa	aste	on every balcony and courtyard (including any roof
	terraces)?		
Question	Criteria Achieved ?		
Apartment	Yes		
3.1 Food Production - Residential			100%

BESS, 1-7 Waterfront Place, Port Melbourne VIC 3207, Australia 1 Waterfront Pl, ...

Score Contribution	This credit contributes	s 10.7% towards the category score.	
Criteria	What area of space per resident is dedicated to food production?		
Question	Food Production Area		
Apartment	65.0 m <sup>2</sup>		
Output	Min Food Production Area		
Apartment	65 m <sup>2</sup>		
3.2 Food Production - Non-Residential		0%	
3.2 Food Production - Non-Residential Score Contribution	This credit contributes	0% s 0.5% towards the category score.	
3.2 Food Production - Non-Residential Score Contribution Criteria	This credit contributes What area of space pe	0% s 0.5% towards the category score. er occupant is dedicated to food production?	
3.2 Food Production - Non-Residential Score Contribution Criteria Question	This credit contributes What area of space pe Food Production Area	0% s 0.5% towards the category score. er occupant is dedicated to food production?	
3.2 Food Production - Non-Residential Score Contribution Criteria Question Shop	This credit contributes What area of space pe Food Production Area 0.0 m <sup>2</sup>	0% s 0.5% towards the category score. er occupant is dedicated to food production?	
3.2 Food Production - Non-Residential Score Contribution Criteria Question Shop Output	This credit contributes What area of space pe Food Production Area 0.0 m <sup>2</sup> Min Food Production	0% s 0.5% towards the category score. er occupant is dedicated to food production?	

#### Innovation Overall contribution 9.0%

		60%

Innovations	
Description:	
Carbon Neutral Ready Development	The proposed development will be established with a carbon neutral power agreement between developer, owner's corporation, and electrical retailer to provide GreenPower for the communal areas. It is the intent to maintain this agreement for a minimum of 10 years. Occupants will be provided with GreenPower options within the Welcome Pack.
ESD Verification	An ESD professional will be engaged throughout the design and construction process. The ESD professional will perform a minimum of 2 site inspections during the construction phase to ensure suitable implementation of the ESD initiatives. Any deficiencies compared to the endorsed SMP will be escalated to the project manager and resolved. The checkpoint assessments will be undertaken at two stages as follows: • Site Inspection 1: Prior to installation of internal linings. • Site inspection 2: At the time of project completion.
Air tightness testing	Air tightness testing for a sample of units (10-20%) will be undertaken prior to plasterboard being installed and at practical completion. The development is to achieve an air permeability rate of 10 m <sup>3</sup> /hr.m <sup>2</sup> at 50 Pa reference pressure.
Life Cycle Assessment	A life cycle assessment is to be undertaken during the Design Development / Construction phases. The embodied carbon of the development will be benchmarked against a standard practice building to determine the percentage reduction achieved. The life cycle results will be used to inform material selection, construction practices and end of life treatment.
Points Targeted:	
Carbon Neutral Ready Development	2
ESD Verification	1
Air tightness testing	1
Life Cycle Assessment	2
1.1 Innovation	60%
Score Contribution	This credit contributes 100% towards the category score.
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?

### Disclaimer

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