Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0009322074

Generated on 22 Mar 2024 using AccuRate Home v1.3.3.23

Property

Address Unit A, 4 Leemon Street,

Condell Park, NSW, 2200

Lot 6 DP 222976

NCC class* 1a

Floor/all Floors Ground of 3 floors

Type New Home

Plans

Garage

Main plan Nov 2023
Prepared by tim+sarah .k

Construction and environment

Assessed floor area [m2]* E
Conditioned* 157.6 S

Unconditioned* 62.2 Total 219.8

33.0

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Name Brian Teplicanec

Business name Thermal Certificates

Email brianteplicanec@gmail.com

Phone 0407929659 Accreditation No. 100588

Assessor Accrediting Organisation

ABSA

Declaration of interest <Select...>

NCC Requirements

NCC provisions Volume Two

Strate/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

7.0
The more stars the more energy efficient

NATIONWIDE HOUSE ENERGY RATING SCHEME

30.0 MJ/m²

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/m²]

Limits taken from ABCB Standard 2022

 Heating
 Cooling

 Modelled
 18.8
 11.2

 Load limits
 N/A
 N/A

Features determining load limits

Floor Type
(lowest conditioned area)
NCC climate zone 1 or 2
No
Outdoor living area
Outdoor living area ceiling fan
No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

hstar.com.au

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=bUSRJHceX . When using either link, ensure you are visiting





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.

Predicted Whole of Home annual impact by appliance

Energy use

Greenhouse gas emissions

No Whole
of Home
performance
assessment
conducted for this
certificate

No Whole of Home

performance

assessment conducted for 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 Standard 2022: NatHERS heating and cooling load limits 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.

* Refer to glossary.

7 Star Rating as of 22 Mar 2024

A	*		
NA H	o	U.	SE

Certificate check	Approva	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.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Asses	Conse	Builde	Conse	Occup
Genuine certificate check		1			
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?					
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					
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?					
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 'Floor type' 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 'Ceiling type' 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 highrise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

7	Star	Rating	as o	f 22	Mar	2024
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A	*		
NA H	o	U.	SE

	Approva	I Stage	Stage Stage	ction	
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	ıded in ti	he NatHE	RS asse	ssment)	
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	e performa	ance asses	ssment is r	not conduc	ted)
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 'Appliance schedule' 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	NatHERS	assessi	nent)		
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. Addi but are not limited to: condensation, structural and fire safety requirements and any strequirements.					
Additional notes					



Room schedule

foyer Day time 21.9 garage Garage 33 storage Unconditioned 14.9 lift Day time 2.5 wir Night time 4.5 ensuite Night time 4.2 master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2 kit/liv Living/Kitchen 50.1	Room	Zone Type	Area [m ²]
storage Unconditioned 14.9 lift Day time 2.5 wir Night time 4.5 ensuite Night time 4.2 master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	foyer	Day time	21.9
lift Day time 2.5 wir Night time 4.5 ensuite Night time 4.2 master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	garage	Garage	33
wir Night time 4.5 ensuite Night time 4.2 master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	storage	Unconditioned	14.9
ensuite Night time 4.2 master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	lift	Day time	2.5
master Bedroom 19.4 rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	wir	Night time	4.5
rumpus Day time 19 bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	ensuite	Night time	4.2
bed 4 Bedroom 9.3 bed 3 Bedroom 11.6 bed 2 Bedroom 11.9 bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	master	Bedroom	19.4
bed 3Bedroom11.6bed 2Bedroom11.9bathUnconditioned7.8laundryUnconditioned4.4pantryDay time3.2	rumpus	Day time	19
bed 2Bedroom11.9bathUnconditioned7.8laundryUnconditioned4.4pantryDay time3.2	bed 4	Bedroom	9.3
bath Unconditioned 7.8 laundry Unconditioned 4.4 pantry Day time 3.2	bed 3	Bedroom	11.6
laundry Unconditioned 4.4 pantry Day time 3.2	bed 2	Bedroom	11.9
pantry Day time 3.2	bath	Unconditioned	7.8
	laundry	Unconditioned	4.4
kit/liv Living/Kitchen 50.1	pantry	Day time	3.2
	kit/liv	Living/Kitchen	50.1
powder Unconditioned 2.1	powder	Unconditioned	2.1

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
willdow iD	Description	U-value*		SHGC lower limit	SHGC upper limit	
ATB-003-03 B	Al Thermally Broken A DG Air Fill High Solar Gain low-E -Clear	3.1	0.39	0.37	0.41	
ATB-004-03 B	Al Thermally Broken B DG Air Fill High Solar Gain low-E -Clear	3.1	0.49	0.47	0.51	
ATB-006-03 B	Al Thermally Broken B DG Argon Fill High Solar Gain low-E - Clear	2.9	0.51	0.48	0.54	



Custom windows*

Substitution tolerance ranges **Maximum Window ID** SHGC* Description U-value* **SHGC lower limit** SHGC upper limit

No Data Available

Window and glazed door schedule

Window ID	Window no.	Height [mm]			Opening %	Orientation	Window shading device*
ATB-006-03 B	W23	3085	1220	Other	00	NE	None
ATB-004-03 B	W01	1000	1600	Sliding	00	NE	None
ATB-003-03 B	W01	1500	600	Awning	90	SE	None
ATB-003-03 B	W02	1500	600	Awning	90	SE	None
ATB-006-03 B	W04	2100	1250	Other	00	SE	None
ATB-003-03 B	W03	2700	800	Awning	90	SE	None
ATB-006-03 B	SD01	2700	2400	Sliding	45	SE	None
ATB-006-03 B	W05	2100	3100	Other	00	NE	None
ATB-004-03 B	SD02	2500	2400	Sliding	45	NE	None
ATB-004-03 B	W12	1200	600	Other	00	NW	None
ATB-004-03 B	W06	1400	1250	Other	00	SE	None
ATB-004-03 B	W08	1200	800	Sliding	45	NE	None
ATB-004-03 B	W07	1500	550	Other	00	NE	None
ATB-004-03 B	W09	1200	1600	Sliding	45	NE	None
ATB-004-03 B	W10	1200	1600	Sliding	45	SW	None
ATB-004-03 B	W11	1200	1200	Sliding	45	SW	None
ATB-004-03 B	W20	1200	1200	Sliding	45	NW	None
ATB-004-03 B	SD04	2700	2800	Sliding	60	NW	None
ATB-003-03 B	W21	2700	600	Awning	45	NW	None
ATB-004-03 B	W19	1800	2350	Other	00	NE	None
ATB-004-03 B	W18	1800	1050	Other	00	SE	None
ATB-003-03 B	W17	2700	800	Awning	45	NE	None
ATB-004-03 B	W16	2700	2100	Other	00	NE	None
ATB-004-03 B	W15	2100	1200	Other	00	SE	None
ATB-006-03 B	SD03	2700	2810	Sliding	60	SE	None
	ATB-006-03 B ATB-003-03 B ATB-003-03 B ATB-003-03 B ATB-006-03 B ATB-006-03 B ATB-006-03 B ATB-004-03 B	ID no. ATB-006-03 B W23 ATB-004-03 B W01 ATB-003-03 B W01 ATB-003-03 B W02 ATB-006-03 B W04 ATB-006-03 B W03 ATB-006-03 B SD01 ATB-004-03 B SD02 ATB-004-03 B W12 ATB-004-03 B W06 ATB-004-03 B W07 ATB-004-03 B W09 ATB-004-03 B W10 ATB-004-03 B W10 ATB-004-03 B W11 ATB-004-03 B W20 ATB-004-03 B W21 ATB-004-03 B W19 ATB-004-03 B W18 ATB-004-03 B W18 ATB-004-03 B W17 ATB-004-03 B W16 ATB-004-03 B W16 ATB-004-03 B W16 ATB-004-03 B W16	ID no. [mm] ATB-006-03 B W23 3085 ATB-004-03 B W01 1000 ATB-003-03 B W01 1500 ATB-003-03 B W02 1500 ATB-006-03 B W04 2100 ATB-006-03 B W03 2700 ATB-006-03 B SD01 2700 ATB-006-03 B W05 2100 ATB-004-03 B W02 1200 ATB-004-03 B W12 1200 ATB-004-03 B W06 1400 ATB-004-03 B W07 1500 ATB-004-03 B W09 1200 ATB-004-03 B W10 1200 ATB-004-03 B W11 1200 ATB-004-03 B W20 1200 ATB-004-03 B W20 1200 ATB-004-03 B W11 1200 ATB-004-03 B W12 2700 ATB-004-03 B W19 1800 ATB-004-03 B W18 1800 ATB-004-	ID no. [mm] [mm] ATB-006-03 B W23 3085 1220 ATB-004-03 B W01 1000 1600 ATB-003-03 B W01 1500 600 ATB-003-03 B W02 1500 600 ATB-006-03 B W04 2100 1250 ATB-006-03 B W03 2700 800 ATB-006-03 B SD01 2700 2400 ATB-006-03 B W05 2100 3100 ATB-004-03 B W12 1200 600 ATB-004-03 B W12 1200 600 ATB-004-03 B W08 1200 800 ATB-004-03 B W08 1200 800 ATB-004-03 B W07 1500 550 ATB-004-03 B W10 1200 1600 ATB-004-03 B W10 1200 1200 ATB-004-03 B W11 1200 1200 ATB-004-03 B W20 1200 2800	ID no. [mm] type ATB-006-03 B W23 3085 1220 Other ATB-004-03 B W01 1000 1600 Sliding ATB-003-03 B W01 1500 600 Awning ATB-003-03 B W02 1500 600 Awning ATB-006-03 B W04 2100 1250 Other ATB-003-03 B W03 2700 800 Awning ATB-006-03 B W003 2700 2400 Sliding ATB-006-03 B W05 2100 3100 Other ATB-004-03 B W05 2500 2400 Sliding ATB-004-03 B W12 1200 600 Other ATB-004-03 B W06 1400 1250 Other ATB-004-03 B W07 1500 550 Other ATB-004-03 B W10 1200 1600 Sliding ATB-004-03 B W10 1200 1600 Sliding	ID no. [mm] [mm] type % ATB-006-03 B W23 3085 1220 Other 00 ATB-004-03 B W01 1000 1600 Sliding 00 ATB-003-03 B W01 1500 600 Awning 90 ATB-003-03 B W02 1500 600 Awning 90 ATB-006-03 B W04 2100 1250 Other 00 ATB-003-03 B W03 2700 800 Awning 90 ATB-006-03 B W03 2700 2400 Sliding 45 ATB-006-03 B SD01 2700 2400 Sliding 45 ATB-004-03 B W05 2100 3100 Other 00 ATB-004-03 B W12 1200 600 Other 00 ATB-004-03 B W06 1400 1250 Other 00 ATB-004-03 B W07 1500 550 Other 00	ID no. [mm] [mm] type % Orientation ATB-006-03 B W23 3085 1220 Other 00 NE ATB-004-03 B W01 1000 1600 Sliding 00 NE ATB-003-03 B W01 1500 600 Awning 90 SE ATB-003-03 B W02 1500 600 Awning 90 SE ATB-006-03 B W04 2100 1250 Other 00 SE ATB-006-03 B W03 2700 800 Awning 90 SE ATB-006-03 B SD01 2700 2400 Sliding 45 SE ATB-006-03 B W05 2100 3100 Other 00 NE ATB-004-03 B SD02 2500 2400 Sliding 45 NE ATB-004-03 B W12 1200 600 Other 00 NE ATB-004-03 B W07 1500 <td< td=""></td<>

0009322074 NatHERS Certificate	

7 Star Rating as of 22 Mar 2024

HOUSE	

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
kit/liv	ATB-003-03 B	W14	2700	800	Awning	90	SE	None
kit/liv	ATB-004-03 B	W22	2607	600	Other	00	NW	None
powder	ATB-003-03 B	W13	1500	600	Awning	90	SE	None

Roof window* type and performance value

Default roof windows*

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

Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
window iD	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	

No Data Available

Roof window* schedule

Location	Window	Window	Opening	Height	Width Orientation	Outdoor	Indoor
Location	ID	no.	%	[mm]	[mm]	shade sha	shade
No Data Ava	ailable						

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area Orientation [m ²]	Outdoor shade	Diffuser
No Data Avail	lable					

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
foyer	2400	1000	100	SE	
garage	2400	4800	0	SE	
laundry	2100	820	100	SW	



Location	Height [mm]	Width [mm]	Opening %	Orientation
kit/liv	2100	820	100	SW

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-001	Brick wall/Plasterboard	50	Medium	Polystyrene extruded: R1.0	No
EW-002	Retaining Brick wall/Plasterboard	50	Medium	Polystyrene extruded: R1.0	No
EW-003	Brick wall/Plasterboard	85	Dark	Polystyrene extruded: R1.0	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
foyer	EW-001	3400	1220	NE	5200	Yes
foyer	EW-001	3400	1200	SE	3000	Yes
foyer	EW-002	3400	3400	NW		No
foyer	EW-002	3400	2250	SW		No
foyer	EW-002	3400	1850	SW		No
garage	EW-001	3400	5350	SE	1500	Yes
garage	EW-002	1400	6000	NE		No
garage	EW-001	2000	6000	NE		No
storage	EW-002	3400	4650	NE		No
storage	EW-002	3400	3150	NW		No
lift	EW-001	2700	1570	SW		No
lift	EW-002	1250	1570	SW		No
lift	EW-001	1450	1570	SW		No
lift	EW-002	2700	1570	SW		No
wir	EW-002	1250	600	SW		No
wir	EW-001	1450	600	SW		No
ensuite	EW-001	2700	2250	SE	2700	Yes
master	EW-001	2700	4500	SE	2700	Yes
master	EW-001	2700	4300	NE		No
master	EW-001	2700	1550	NW	3510	Yes
rumpus	EW-001	2700	3510	NE	1800	Yes

0009322074	NatHERS Certifi	cate	7 Star Ra	ting as of 22 Mar 2024		<u></u>
Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
rumpus	EW-002	1250	600	NW		No
rumpus	EW-001	1450	600	NW		No
rumpus	EW-002	1250	1500	SW		No
rumpus	EW-001	1450	1500	SW		No
rumpus	EW-002	1250	1850	SW		No
rumpus	EW-001	1450	1850	SW		No
bed 4	EW-001	2700	2850	SE	3510	Yes
bed 4	EW-001	2700	3600	NE		No
bed 3	EW-001	2700	3700	NE		No
bed 3	EW-002	1100	3000	NW		No
bed 3	EW-001	1600	3000	NW	500	Yes
bed 2	EW-002	1100	3950	NW		No
bed 2	EW-001	1600	3950	NW	500	Yes
bed 2	EW-002	1100	3000	SW		No
bed 2	EW-001	1600	3000	SW		No
bath	EW-002	1100	2800	SW		No
bath	EW-001	1600	2800	SW		No
laundry	EW-003	2700	1650	NE		No
laundry	EW-003	2700	3100	NW		No
laundry	EW-003	2700	1650	SW	4500	Yes
pantry	EW-003	2700	1800	NE		No
pantry	EW-003	2700	250	SE		No

 $\mathsf{N}\mathsf{W}$

 ${\sf SW}$

NE

SE

NE

SE

NW

SW

SW

2750

3900

Yes

No

No

No

No

Yes

No

No

No



kit/liv

kit/liv

kit/liv

kit/liv

kit/liv

kit/liv

kit/liv

kit/liv

kit/liv

EW-003

EW-003

EW-003

EW-003

EW-003

EW-003

EW-003

EW-003

EW-003

2700

2700

2700

2700

2700

2700

2700

2700

2700

4265

3650

3600

1050

4200

4850

600

1850

1000



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
powder	EW-003	2700	400	NE	5150	Yes	
powder	EW-003	2700	800	SE	3100	Yes	
powder	EW-003	2700	600	SE	3200	Yes	
powder	EW-003	2700	1150	SW		No	

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
IW-001	Plasterboard/Brick wall	30.06	
IW-002	Plasterboard/Brick wall	155.95	
IW-003	Plasterboard/Brick wall	43.69	Polystyrene extruded: R1.0

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
foyer/Ground	Concrete Slab 200 mm: bare/bare + R1.0	21.90		R1.0	
garage/Ground	Concrete Slab 200 mm: bare/bare	33.00			
storage/Ground	Concrete Slab 200 mm: bare/bare	14.90			
lift/Ground	Concrete Slab 200 mm: bare/bare + R1.0	2.50		R1.0	
wir/foyer	Concrete Slab 250 mm: bare/bare + R2.0	2.60		R2.0	
wir/garage	Concrete Slab 250 mm: bare/bare + R2.0	1.90		R2.0	
ensuite/foyer	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	2.40		R2.0	Ceramic tile
ensuite/garage	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	1.80		R2.0	Ceramic tile
master/garage	Concrete Slab 250 mm: bare/bare + R2.0	19.40		R2.0	
rumpus/garage	Concrete Slab 250 mm: bare/bare + R2.0	1.50		R2.0	
rumpus/foyer	Concrete Slab 250 mm: bare/bare + R2.0	13.10		R2.0	
rumpus/storage	Concrete Slab 250 mm: bare/bare + R2.0	6.40		R2.0	
rumpus/Ground	Concrete Slab 250 mm: bare/bare + R2.0	3.30		R2.0	



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
bed 4/storage	Concrete Slab 250 mm: bare/bare + R2.0	2.00		R2.0	
bed 4/Ground	Concrete Slab 250 mm: bare/bare + R2.0	7.30		R2.0	
bed 3/Ground	Concrete Slab 250 mm: bare/bare + R2.0	11.60		R2.0	
bed 2/Ground	Concrete Slab 250 mm: bare/bare + R2.0	11.90		R2.0	
bath/Ground	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	7.80		R2.0	Ceramic tile
laundry/bed 3	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	4.00		R2.0	Ceramic tile
laundry/Outdoor Air	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	0.40		R2.0	Ceramic tile
pantry/Outdoor Air	Concrete Slab 250 mm: bare/bare + R2.0	0.50		R2.0	
pantry/bed 3	Concrete Slab 250 mm: bare/bare + R2.0	2.70		R2.0	
kit/liv/bed 3	Concrete Slab 250 mm: bare/bare + R2.0	2.80		R2.0	
kit/liv/bed 4	Concrete Slab 250 mm: bare/bare + R2.0	10.30		R2.0	
kit/liv/Outdoor Air	Concrete Slab 250 mm: bare/bare + R2.0	5.40		R2.0	
kit/liv/wir	Concrete Slab 250 mm: bare/bare + R2.0	0.20		R2.0	
kit/liv/bed 2	Concrete Slab 250 mm: bare/bare + R2.0	3.00		R2.0	
kit/liv/bath	Concrete Slab 250 mm: bare/bare + R2.0	8.10		R2.0	
kit/liv/rumpus	Concrete Slab 250 mm: bare/bare + R2.0	24.50		R2.0	
kit/liv/master	Concrete Slab 250 mm: bare/bare + R2.0	2.00		R2.0	
powder/wir	Concrete Slab 250 mm: bare/bare + R2.0	1.70		R2.0	
powder/rumpus	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	0.40		R2.0	Ceramic tile

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
wir/foyer	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
ensuite/foyer	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	R2.0	No

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
rumpus/foyer	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
wir/garage	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
ensuite/garage	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	R2.0	No
master/garage	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
rumpus/garage	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
rumpus/storage	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
bed 4/storage	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/wir	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
powder/wir	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/master	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/rumpus	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
powder/rumpus	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	R2.0	No
kit/liv/bed 4	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
laundry/bed 3	Concrete Slab 250 mm: ceramic tiles/bare + R2.0	R2.0	No
pantry/bed 3	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/bed 3	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/bed 2	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No
kit/liv/bath	Concrete Slab 250 mm: bare/bare + R2.0	R2.0	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
No Data Available				

Ceiling fans

Location	Quantity	Diameter [mm]	
No Data Available			

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade[colour]
Concrete slab 250mm + tiles + airgap and plasterboard + R2.5	R2.5	50	Medium
Concrete slab 250mm + airgap and plasterboard + R4.0	R4.0	50	Medium



Thermal bridging schedule for steel frame elements

Thermal Steel section dimensions Steel thickness **Building element** Frame spacing [mm] break [height x width, 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

Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
Location	Fuel type	Minimum efficiency/	Recommended
			Location Fuel type efficiency/ performance Minimum

Hot water system

Appliance/ system type	Fuel type	Hot Water	Minimum efficiency	Zone 3 STC	Zone 3 Substitution tolerance ranges	Assessed daily load	
		CER Zone	/STC	310	lower limit	upper limit	[litres]

No Data Available

Pool/spa equipment

Appliance/ system type	Fuel type	Minimum Recommended efficiency/ capacity		
No Data Available				

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity
No Data Available		



Battery Schedule

System Type Size [Battery Storage Capacity]

No Data Available



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.

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

AFRC	Australian Fenestration Rating Council
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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.
COP	Coefficient of performance
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.
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	see exposure categories below.
Exposure category – exposed	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 – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	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 airgap 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.
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.
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.
STCs	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 Regulator (CER)
Thermal breaks	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 or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	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).
Window shading device	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)