# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. UN1ZVK33OV

Generated on 5 Mar 2025 using FirstRate5: 5.5.5a (3.22)

### **Property**

Address 93 Harcourt Close, Woodbury Ridge,

Sutton, NSW, 2620

**Lot/DP** Lot 56 DP271494

NCC Class\* Class 1a

Floor/all Floors

Type New Home

### **Plans**

Main plan DPC1020 Prepared by MP

### **Construction and environment**

Assessed floor area [m²]\* Exposure type Conditioned\* 264.9 suburban

Unconditioned\* 76.6 **NatHERS climate zone**Total 341.5 24 Canberra Airport
Garage 52.4



# Accredited assessor

Name Trish Campbell

Business name ACT Sustainable Systems
Email trish.actss@gmail.com

Phone 0412587507
Accreditation No. 32313
Assessor Accrediting Organisation

ABSA

Declaration of interest No

## **NCC Requirements**

NCC provisions Volume 2 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



### Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	97	24.1
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 https://w ww.fr5.com.au/QRCodeLand ing?PublicId=UN1ZVK33OV 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

Νo

NA - not applicable

Outdoor living area:

Yes

Nο

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.

# 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:

Certificate check	Approva	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.  Note: The boxes indicate when and who should check each item.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
It is not mandatory to complete this checklist.	Asse	Cons	Builo	Cons	Occi
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?					
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*	I	I		I	I
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		ı		ı	ı
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?					

	Approva	stage	Construction stage			
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	ssessmen	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 '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 NatH	ERS ass	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. Additional requirements that must also be satisfie include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

### **Additional notes**

### Room schedule

Room	Zone Type	Area [m²]
BED 2	bedroom	15.2
BED 3	bedroom	14.7
BED 4	bedroom	14.7
UTILITY	unconditioned	10.2
PDR	unconditioned	5.7
BATH	unconditioned	8.3
WIL	dayTime	4.9
HALL	dayTime	16.2
GARAGE	garage	52.4
MR	dayTime	7.2
MR STORAGE	dayTime	3.8
ENTRY LOUNGE	dayTime	36.8
FAMILY MEALS	living	55.7
WIP	dayTime	10.1
KITCHEN	kitchen	19
BED 1 HALL	dayTime	9
WIR	nightTime	13.1
BED 1	bedroom	22.7
ENS	nightTime	11.1
STUDY	dayTime	10.6

# 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	
ATB-005-03 B	Al Thermally Broken A DG Argon Fill High Solar Gain low-E -Clear	2.91	0.44	0.42	0.46	
ATB-004-01 B	Al Thermally Broken B DG Air Fill Clear-Clear	3.6	0.54	0.51	0.57	
ATB-003-01 B	Al Thermally Broken A DG Air Fill Clear-Clear	3.6	0.47	0.45	0.49	
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 to	lerance ranges
		Maximum	SHCC lower limit	SHCC upper limit
Window ID	Window description	U-value* SHGC*	SHGC lower limit	SHGC upper limit



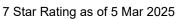
No Data Available

# Window and glazed door schedule

			Height	Width				Window shading
Location	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*
BED 2	ATB-005-03 B	ASD2420R	2400	2000	sliding	45.0	N	No
BED 3	ATB-005-03 B	ASD2420L	2400	2000	sliding	45.0	N	No
BED 4	ATB-004-01 B	ASD2420L	2400	2000	sliding	45.0	E	No
UTILITY	ATB-005-03 B	AW1509	1500	900	awning	90.0	W	No
PDR	ATB-005-03 B	AW1509	1500	900	awning	90.0	W	No
BATH	ATB-005-03 B	AWN1518	1500	1800	awning	35.0	W	No
GARAGE	ATB-004-01 B	2412(F)	2400	1200	fixed	0.0	S	No
GARAGE	ATB-004-01 B	2412(F)	2400	1200	fixed	0.0	S	No
ENTRY LOUNGE	ATB-004-01 B	ENTRY FIXED GLAZING	2400	450	fixed	0.0	S	No
ENTRY LOUNGE	ATB-004-01 B	ENTRY FIXED GLAZING	2400	450	fixed	0.0	S	No
ENTRY LOUNGE	ATB-004-01 B	2410(F)	2400	1000	fixed	0.0	W	No
ENTRY LOUNGE	ATB-003-01 B	AWN2430	2400	3000	awning	20.0	S	No
ENTRY LOUNGE	ATB-005-03 B	AWN2430	2400	3000	awning	20.0	N	No
ENTRY LOUNGE	ATB-005-03 B	AWN2430	2400	3000	awning	20.0	N	No
FAMILY MEALS	ATB-006-03 B	STACKER2436	2400	3600	other	90.0	E	No
FAMILY MEALS	ATB-006-03 B	ASD2432R	2400	3200	sliding	45.0	N	No
FAMILY MEALS	ATB-003-01 B	HL AWN 0632	600	3200	awning	20.0	N	No
FAMILY MEALS	ATB-006-03 B	ASD2432L	2400	3200	sliding	45.0	N	No
FAMILY MEALS	ATB-003-01 B	HL AWN 0632	600	3200	awning	20.0	N	No
KITCHEN	ATB-004-01 B	AWN0742	700	4200	fixed	0.0	S	No
BED 1 HALL	ATB-004-01 B	2425(F)	2400	2500	fixed	0.0	S	No
BED 1 HALL	ATB-006-03 B	STACKER2436	2400	3600	other	90.0	N	No
WIR	ATB-004-01 B	2409(F)	2400	900	fixed	0.0	N	No
BED 1	ATB-004-01 B	0836(F)	800	3600	fixed	0.0	E	No
BED 1	ATB-004-01 B	ASD2430R	2400	3000	sliding	45.0	N	No
ENS	ATB-003-01 B	AWN2410	2400	1000	awning	30.0	S	No
ENS	ATB-003-01 B	AWN2410	2400	1000	awning	30.0	E	No
ENS	ATB-003-01 B	AWN2410	2400	1000	awning	30.0	E	No
STUDY	ATB-003-01 B	AWN2410	2400	1000	awning	30.0	W	No
STUDY	ATB-003-01 B	AWN2410	2400	1000	awning	30.0	S	No

# Roof window\* type and performance value

Default\* roof windows





Substitution tolerance ranges

Window ID Window description U-value\* SHGC lower limit SHGC upper limit

Window ID Window description U-value\* SHGC\*

No Data Available

Custom\* roof windows

Substitution tolerance ranges

Window ID Window description U-value\* SHGC lower limit SHGC upper limit

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

# Skylight\* schedule

Skylight shaft Area Orient- Outdoor

Location Skylight ID Skylight No. length [mm] [m²] ation shade Diffuser

No Data Available

### External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
UTILITY	2400	820	100.0	W
GARAGE	2400	5400	100.0	W
ENTRY LOUNGE	2400	1020	100.0	S

## External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	EPS Green Board - 75mm EPS and R2.5 Batt + Foil	0.5	Medium	Rockwool batt: R2.5 (R2.5)	Yes
2	GRG - Garage 75mm EPS and R2.5 Batt + Foil	0.5	Medium	Rockwool batt: R2.5 (R2.5)	Yes
3	Rockwall - Rockwall	0.5	Medium	Rockwool batt: R2.5 (R2.5)	No
4	Rockwall - Rockwall	0.5	Medium	Rockwool batt: R2.5 (R2.5)	Yes

### External wall schedule



		Height	Width		Horizontal shading feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
BED 2	1	2550	3945	W	638	No
BED 2	1	2550	314	S	0	Yes
BED 2	1	2550	4072	N	645	No
BED 3	1	2550	3937	E	710	Yes
BED 3	1	2550	3930	N	624	No
BED 4	1	2550	4652	E	730	Yes
UTILITY	1	2550	3353	W	917	No
PDR	1	2550	1517	W	633	No
PDR	1	2550	282	N	0	Yes
BATH	1	2550	2659	W	693	No
BATH	1	2550	155	S	0	Yes
WIL	1	2550	1525	E	725	Yes
GARAGE	2	2550	7080	W	1080	No
GARAGE	2	2550	8039	S	612	Yes
GARAGE	2	2550	2310	E	892	Yes
MR	3	2550	179	S	0	Yes
MR STORAGE	2	2550	204	S	0	Yes
MR STORAGE	3	2550	556	S	1429	Yes
MR STORAGE	3	2550	493	S	4143	Yes
MR STORAGE	3	2550	583	SE	5727	Yes
MR STORAGE	3	2550	500	SE	0	Yes
MR STORAGE	3	2550	506	E	0	Yes
ENTRY LOUNGE	1	2550	2163	S	11565	Yes
ENTRY LOUNGE	1	2550	1834	W	0	Yes
ENTRY LOUNGE	1	2550	4081	S	620	Yes
ENTRY LOUNGE	1	2550	8191	N	610	Yes
FAMILY MEALS	1	3225	4745	E	4747	Yes
FAMILY MEALS	1	3500	3592	N	1421	Yes
FAMILY MEALS	4	3500	743	E	0	Yes
FAMILY MEALS	4	3500	1702	N	531	Yes
FAMILY MEALS	4	3500	734	W	0	Yes
FAMILY MEALS	1	3500	3668	N	1412	Yes
WIP	1	2550	3235	W	612	Yes
WIP	1	2550	3122	S	1012	No
KITCHEN	1	2550	5765	S	984	No
KITCHEN	1	2550	3291	E	612	Yes
BED 1 HALL	1	2550	4998	S	612	Yes

NATIONWIDE HOUSE

BED 1 HALL	1	2550	5005	N	6012	Yes
WIR	1	2550	3730	W	4751	Yes
WIR	1	2550	3496	N	622	Yes
BED 1	1	2550	5133	E	582	No
BED 1	1	2550	3889	N	601	Yes
ENS	1	2550	3866	S	638	No
ENS	1	2550	3045	E	618	No
STUDY	1	2550	3035	W	714	Yes
STUDY	1	2550	3484	S	652	No

# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	172.9	
2	INT - Int Unconditioned Wall R2.5	45.4	Rockwool batt: R2.5 (R2.5)
3	GRG - Garage Int Wall	31.4	Rockwool batt: R2.5 (R2.5)
4	Rockwall - Rockwall	8.3	Rockwool batt: R2.5 (R2.5)
5	INT - Int Wall To Subfloor/roof	8.5	Rockwool batt: R2.5 (R2.5)

# Floor type

31			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
BED 2	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	15.2	Enclosed	R1.5	Carpet
BED 3	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	14.7	Enclosed	R1.5	Carpet
BED 4	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	14.7	Enclosed	R1.5	Carpet
UTILITY	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	10.2	Enclosed	R1.5	Tiles
PDR	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	5.7	Enclosed	R1.5	Tiles
ВАТН	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	8.3	Enclosed	R1.5	Tiles
WIL	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	4.9	Enclosed	R1.5	Tiles
HALL	Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	16.2	Enclosed	R1.5	Tiles

NATIONWIDE HOUSE INSITERIOR SCAME	0

Waffle Pod - 225mm waffle				
pod, 100mm concrete (R0.60)	52.4	Enclosed	R1.5	none
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	7.2	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	3.8	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	36.8	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	55.7	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	10.1	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	19	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	9	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	13.1	Enclosed	R1.5	Carpet
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	22.7	Enclosed	R1.5	Carpet
Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	11.1	Enclosed	R1.5	Tiles
Waffle Pod - 225mm waffle pod, 100mm concrete	10.6	Enclosed	R1.5	Tiles
	(R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)  Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)	pod, 100mm concrete (R0.60)         52.4         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         7.2         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         3.8         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         36.8         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         55.7         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         10.1         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         19         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         9         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         13.1         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         22.7         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         11.1         Enclosed           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         11.1         Enclosed	pod, 100mm concrete (R0.60)         52.4         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         7.2         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         3.8         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         36.8         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         55.7         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         10.1         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         19         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         9         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         13.1         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         22.7         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         11.1         Enclosed         R1.5           Waffle Pod - 225mm waffle pod, 100mm concrete (R0.60)         11.1         Enclosed         R1.5

# Ceiling type

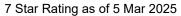
Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
BED 2	Plasterboard	R6.0	Yes
BED 3	Plasterboard	R6.0	Yes
BED 4	Plasterboard	R6.0	Yes
UTILITY	Plasterboard	R6.0	Yes
PDR	Plasterboard	R6.0	Yes
BATH	Plasterboard	R6.0	Yes
WIL	Plasterboard	R6.0	Yes
HALL	Plasterboard	R6.0	Yes

HOUSE	

GARAGE	Plasterboard	R6.0	Yes
MR	Plasterboard	R6.0	Yes
MR STORAGE	Plasterboard	R6.0	Yes
ENTRY LOUNGE	Plasterboard	R6.0	Yes
FAMILY MEALS	Plasterboard	R6.0	Yes
WIP	Plasterboard	R6.0	Yes
KITCHEN	Plasterboard	R6.0	Yes
BED 1 HALL	Plasterboard	R6.0	Yes
WIR	Plasterboard	R6.0	Yes
BED 1	Plasterboard	R6.0	Yes
ENS	Plasterboard	R6.0	Yes
STUDY	Plasterboard	R6.0	Yes

# Ceiling penetrations\*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
BED 2	4	Downlights	50	50	Sealed
BED 3	4	Downlights	50	50	Sealed
BED 4	4	Downlights	50	50	Sealed
UTILITY	1	Exhaust Fans	250	250	Sealed
UTILITY	2	Downlights	50	50	Sealed
PDR	1	Exhaust Fans	250	250	Sealed
PDR	1	Downlights	50	50	Sealed
BATH	1	Exhaust Fans	250	250	Sealed
BATH	2	Downlights	50	50	Sealed
WIL	1	Downlights	50	50	Sealed
HALL	3	Downlights	50	50	Sealed
GARAGE	10	Downlights	50	50	Sealed
MR	1	Downlights	50	50	Sealed
MR STORAGE	1	Downlights	50	50	Sealed
ENTRY LOUNGE	7	Downlights	50	50	Sealed
FAMILY MEALS	10	Downlights	50	50	Sealed
FAMILY MEALS	1	Chimneys	50	50	Sealed
WIP	2	Downlights	50	50	Sealed
KITCHEN	1	Exhaust Fans	250	250	Sealed
KITCHEN	4	Downlights	50	50	Sealed
BED 1 HALL	2	Downlights	50	50	Sealed
WIR	2	Downlights	50	50	Sealed
BED 1	4	Downlights	50	50	Sealed
ENS	1	Exhaust Fans	250	250	Sealed





ENS	2	Downlights	50	50	Sealed
STUDY	4	Downlights	50	50	Sealed

Ceiling fans

Location Quantity Diameter [mm]

No Data Available

Roof type

Added insulation

Construction[R-value]Solar absorptanceRoof shade [colour]Cont:Attic-Continuous1.50.7Dark

Thermal bridging schedule for steel frame elements

Steel section dimensions

Steel thickness

Thermal break

**Building element** 

[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

Appliance/ system type Location Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum

efficiency/ Hot Water CER Assessed daily

Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

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)

7 Star Rating as of 5 Mar 2025



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]

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.

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 ventilate 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.
protected	
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 Star Rating as of 5 Mar 2025

HOUSE

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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 Regulatory
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, continuous thermal breaks such as polystyrene
	insulation sheeting, plastic strips or furring channels.
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	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)