Nationwide House Energy Rating Scheme® NatHERS® Certificate No.

D3CIGRGCGW-01

Generated on 27 Sep 2024 using FirstRate5: 5.5.5a (3.22)

Property

Address 50 Phillip Street,

Roseland, NSW, 2196

Lot/DP C/DP325545 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan J093 Issue C/15.04.2024
Prepared by Dhursan Construction

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 221.6 suburban

Unconditioned* 37.4 NatHERS climate zone

Total 259 56 Mascot AMO

Garage 21.5



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Accreditation No. 101510
Assessor Accrediting Organisation

ABSA

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

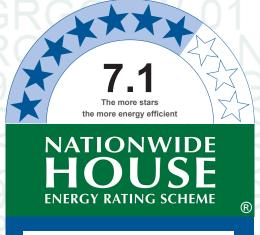
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



29.5 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	11.5	18
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=D3CIGRGCG W-01 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

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	Approval	stage	Construct 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	checked	Consent authority/ surveyor checked	Occupancy/other	
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consent	Builder checked	Consent	Occupar	
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	<u></u>		<u> </u>			
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		1			I	
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?						



	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				1	
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home per	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. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					

Additional notes

Number of ceiling penetrations have been assumed.



Room schedule

Room	Zone Type	Area [m²]
Garage	garage	21.5
Mpr	living	14.5
Guest Bed/Bath 2	bedroom	17
WIP	dayTime	6.7
Powder	unconditioned	4.6
Laundry	unconditioned	5.3
Kitchen/Family/Dining	kitchen	89.9
Master Bed/Ensuite	bedroom	22.9
Bath	unconditioned	6.1
Family Void	doubleHeightVoid	29.7
Bed 3	bedroom	11
Bed 2	bedroom	10.9
Master WIR	nightTime	10.3
Rumpus/Passage	living	26.1
Bed 2	bedroom	12.5
Bed 2 Ensuite 2	nightTime	4.4

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 Availa	able					

Custom* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
BRD-001-13 A	ESS Sliding Window (52mm) SG 4EA	4.57	0.63	0.6	0.66	
BRD-126-15 A	ESS Fixed Window External 52 Comm SG 6mmEntTech	3.82	0.61	0.58	0.64	
BRD-033-01 A	ESS Sliding Door (80mm) SG 4Clr	6.19	0.74	0.7	0.78	
BRD-125-10 A	ESS Fixed Window External 52 Comm DG 6mmET_12Ar_6mmET	2.03	0.51	0.48	0.54	
BRD-141-23 A	Signature Sliding Stacking Door DG 4SP10-10Ar-4mmClr	3.03	0.56	0.53	0.59	
BRD-112-01 A	ESS Awning 52 SG 4mmClr	6.54	0.67	0.64	0.7	
BRD-066-10 A	SIG Sliding Window (67mm) DG 4ET-12Ar-4	3.15	0.53	0.5	0.56	



BRD-001-37 A

ESS Sliding Window (52mm) SG

6.38

0.74

0.7

0.78

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width	Window type	Opening %	Orientation	Window shading device*
LUCALION		09-18 ASW	[mm]	[mm]	Window type	Opening %		uevice"
Mpr	BRD-001-13 A	(W11)	850	1810	sliding	45.0	E	No
Guest Bed/Bath 2	BRD-001-13 A	15-18 ASW (W10)	1450	1810	sliding	45.0	Е	No
WIP	BRD-126-15 A	06-18 AFW (W09)	600	1500	fixed	0.0	Е	No
Laundry	BRD-033-01 A	24-15 ASD (SD3)	2400	1450	sliding	45.0	W	No
Kitchen/Family/- Dining	BRD-126-15 A	06-20 AFW (W08)	600	2000	fixed	0.0	E	No
Kitchen/Family/- Dining	BRD-125-10 A	24-09 AFW (W1)	2400	850	fixed	0.0	N	No
Kitchen/Family/- Dining	BRD-125-10 A	52-09 AFW (W05) Lower	3160	900	fixed	0.0	W	No
Kitchen/Family/- Dining	BRD-125-10 A	52-09 AFW (W04) Lower	3160	900	fixed	0.0	W	No
Kitchen/Family/- Dining	BRD-125-10 A	25-30 AFW (W06)	2450	3000	fixed	0.0	S	No
Kitchen/Family/- Dining	BRD-141-23 A	24-28 ASSD (SD1)	2400	2756	sliding	60.0	W	No
Kitchen/Family/- Dining	BRD-141-23 A	24-27 ASSD (SD2)	2400	2677	sliding	60.0	S	No
Master Bed/Ensuite	BRD-141-23 A	24-27 ASSD (SD4)	2400	2650	sliding	60.0	N	No
Bath	BRD-112-01 A	14-07 AAW (W20)	1400	650	awning	90.0	E	No
Family Void	BRD-125-10 A	24-12 AFW (W16)	2400	1210	fixed	0.0	W	No
Family Void	BRD-125-10 A	52-09 AFW (W04) Upper	2040	900	fixed	0.0	W	No
Family Void	BRD-125-10 A	52-09 AFW (W05) Upper	2040	900	fixed	0.0	W	No
Family Void	BRD-125-10 A	10-30 AFW (W17)	1000	3000	fixed	0.0	S	No
Bed 3	BRD-001-13 A	09-21 ASW (W15)	850	2050	sliding	10.0	W	No
Bed 2	BRD-001-13 A	09-21 ASW (W14)	850	2050	sliding	10.0	W	No
Master WIR	BRD-125-10 A	24-09 AFW (W12)	2400	924	fixed	0.0	N	No

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Master WIR	BRD-125-10 A	24-09 AFW (W13)	2400	850	fixed	0.0	N	No
Rumpus/Passage	BRD-125-10 A	20-30 AFW (W17)	2000	3000	fixed	0.0	S	No
Rumpus/Passage	BRD-066-10 A	09-21 ASW (W19)	850	2050	sliding	45.0	E	No
Bed 2	BRD-001-37 A	09-12 ASW (W21)	850	1210	sliding	10.0	E	No
Bed 2 Ensuite 2	BRD-001-37 A	09-08 ASW (W22)	850	750	sliding	45.0	E	No

Roof window* type and performance value

Default* roof windows

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

Custom* roof windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	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 Ava	ailable							

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	
Garage	2400	3000	0.0	N	
Powder	2340	820	100.0	W	
Kitchen/Family/Dining	2340	1200	100.0	N	



External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	TP-BV - Brick Veneer	0.5	Medium		No
2	TP-CB - Brick Cavity	0.5	Medium		No
3	TP-BV - Brick Veneer	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage	1	3000	5492	E	0	Yes
Garage	2	3000	4200	N	1744	Yes
Mpr	3	3000	3487	Е	0	Yes
Mpr	3	3000	385	S	0	Yes
Guest Bed/Bath 2	3	3000	3624	E	0	Yes
WIP	3	3000	1907	E	0	Yes
Powder	3	3000	2481	W	0	Yes
Laundry	3	3000	2827	W	0	Yes
Kitchen/Family/Dining	3	3000	8377	E	241	Yes
Kitchen/Family/Dining	3	3000	1537	N	1257	Yes
Kitchen/Family/Dining	3	3000	1068	E	1580	Yes
Kitchen/Family/Dining	3	3000	1835	N	0	Yes
Kitchen/Family/Dining	3	3000	4474	W	0	Yes
Kitchen/Family/Dining	3	3000	1763	W	0	Yes
Kitchen/Family/Dining	3	3000	224	S	0	Yes
Kitchen/Family/Dining	3	3000	3868	W	0	Yes
Kitchen/Family/Dining	3	3000	232	N	0	Yes
Kitchen/Family/Dining	3	3160	5690	W	0	Yes
Kitchen/Family/Dining	3	3000	3731	S	7031	Yes
Kitchen/Family/Dining	3	3000	2987	W	3920	Yes
Kitchen/Family/Dining	3	3000	3579	S	4051	Yes
Master Bed/Ensuite	3	2700	4214	N	0	Yes
Master Bed/Ensuite	3	2700	1776	W	0	Yes
Master Bed/Ensuite	3	2700	3998	E	0	No
Bath	3	2700	2301	E	0	Yes
amily Void	3	2700	4482	E	0	Yes
Family Void	3	2700	3842	W	262	Yes

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Family Void	3	2700	214	N	3562	Yes
Family Void	3	2700	5708	W	0	Yes
Family Void	3	2700	3726	S	0	No
Bed 3	3	2700	3655	W	0	Yes
Bed 3	3	2700	245	S	3590	Yes
Bed 2	3	2700	2991	W	0	Yes
Master WIR	3	2700	1076	Е	3781	Yes
Master WIR	3	2700	1789	N	710	Yes
Master WIR	3	2700	1405	N	238	Yes
Master WIR	3	2700	209	N	719	No
Master WIR	3	2700	3012	W	0	Yes
Rumpus/Passage	3	2700	3486	S	0	Yes
Rumpus/Passage	3	2700	3511	Е	0	Yes
Bed 2	3	2700	4110	E	0	No
Bed 2 Ensuite 2	3	2700	500	E	0	Yes
Bed 2 Ensuite 2	3	2700	388	S	0	Yes
Bed 2 Ensuite 2	3	2700	1000	E	0	No

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	86.7	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	180.5	

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulati [R-value]	on Covering
Garage	FR5 - 225mm waffle pod, 85mm concrete (R0.60)	21.5	Enclosed	R0.0	none
Mpr	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	14.5	Enclosed	R0.0	Timber
Guest Bed/Bath 2	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.5	Enclosed	R0.0	Tiles
Guest Bed/Bath 2	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	12.6	Enclosed	R0.0	Timber
WIP	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	6.7	Enclosed	R0.0	Timber
Powder	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.6	Enclosed	R0.0	Tiles
Laundry	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	5.3	Enclosed	R0.0	Tiles
Kitchen/Family/D- ining	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	64.9	Enclosed	R0.0	Timber

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Kitchen/Family/D- ining	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	25	Enclosed	R0.0	Timber
Master Bed/Ensuite	TPM - Particleboard Hebel Floor	6	Enclosed	R3.0	Tiles
Master Bed/Ensuite	TPM - Particleboard Hebel Floor	17	Enclosed	R3.0	Timber
Bath	TPM - Particleboard Hebel Floor	6.1	Enclosed	R3.0	Tiles
Family Void	No Floor	29.7	Enclosed	R3.0	No Floor
Bed 3	TPM - Particleboard Hebel Floor	11	Enclosed	R3.0	Timber
Bed 2	TPM - Particleboard Hebel Floor	10.9	Enclosed	R3.0	Timber
Master WIR	TPM - Particleboard Hebel Floor	1	Elevated	R3.0	Timber
Master WIR	TPM - Particleboard Hebel Floor	9.2	Enclosed	R3.0	Timber
Rumpus/Passage	TPM - Particleboard Hebel Floor	26.1	Enclosed	R3.0	Timber
Bed 2	TPM - Particleboard Hebel Floor	12.5	Enclosed	R3.0	Timber (Mountain ash)
Bed 2 Ensuite 2	TPM - Particleboard Hebel Floor	4.4	Enclosed	R3.0	Tiles

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*	
Garage	TPM - Particleboard Hebel Floor	R3.0	No	
Мрг	TPM - Particleboard Hebel Floor	R3.0	No	
Guest Bed/Bath 2	TPM - Particleboard Hebel Floor	R3.0	No	
Guest Bed/Bath 2	TPM - Particleboard Hebel Floor	R3.0	No	
WIP	TPM - Particleboard Hebel Floor	R3.0	No	
Powder	TPM - Particleboard Hebel Floor	R3.0	No	
Laundry	TPM - Particleboard Hebel Floor	R3.0	No	
Kitchen/Family/D- ining	TPM - Particleboard Hebel Floor	R3.0	No	
Kitchen/Family/D- ining	Plasterboard	R6.3	No	
Master Bed/Ensuite	Plasterboard	R5.0	Yes	
Master Bed/Ensuite	Plasterboard	R5.0	Yes	

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Bath	Plasterboard	R5.0	Yes
Family Void	Plasterboard	R5.0	Yes
Bed 3	Plasterboard	R5.0	Yes
Bed 2	Plasterboard	R5.0	Yes
Master WIR	Plasterboard	R5.0	Yes
Master WIR	Plasterboard	R5.0	Yes
Rumpus/Passage	Plasterboard	R5.0	Yes
Bed 2	Plasterboard	R5.0	Yes
Bed 2 Ensuite 2	Plasterboard	R5.0	Yes

Ceiling penetrations*

Coming periodications			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Mpr	5	Downlights	90	90	Sealed
Guest Bed/Bath 2	1	Exhaust Fans	250	250	Unsealed
Guest Bed/Bath 2	5	Downlights	90	90	Sealed
WIP	1	Exhaust Fans	250	250	Sealed
WIP	2	Downlights	90	90	Sealed
Powder	1	Downlights	90	90	Sealed
Laundry	2	Downlights	90	90	Sealed
Kitchen/Family/Dining	24	Downlights	90	90	Sealed
Kitchen/Family/Dining	1	Heater Flues	180	180	Unsealed
Kitchen/Family/Dining	1	Exhaust Fans	250	250	Sealed
Master Bed/Ensuite	6	Downlights	90	90	Sealed
Master Bed/Ensuite	1	Exhaust Fans	250	250	Unsealed
Bath	2	Downlights	90	90	Sealed
Family Void	11	Downlights	90	90	Sealed
Bed 3	4	Downlights	90	90	Sealed
Bed 2	4	Downlights	90	90	Sealed
Master WIR	2	Downlights	90	90	Sealed
Rumpus/Passage	10	Downlights	90	90	Sealed
Bed 2	4	Downlights	90	90	Sealed
Bed 2 Ensuite 2	1	Downlights	90	90	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Mpr	1	1200
Guest Bed/Bath 2	1	900
Kitchen/Family/Dining	1	1400
Master Bed/Ensuite	1	1200

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Family Void	1	1400
Bed 3	1	1200
Bed 2	1	1200
Rumpus/Passage	1	1200
Bed 2	1	1200

Roof type

	Added insulation			
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.5	Medium	
Cont:Attic-Continuous	1.3	0.5	Medium	

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

			Minimum efficiency/	Recommended	
Appliance/ system type	Location	Fuel type	performance	capacity	
No Whole of Home perform	ance assessment co	nducted for this certifica	ite.		

Heating system

			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home performa	ance assessment cond	ducted 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
No Whole of Home perform	ance assessment	conducted for this certi	ficate		

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)

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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.

NATIONWIDE HOUSE

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 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.
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.

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7.1 Star Rating as of 27 Sep 2024

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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)