Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 4W6KFI6YPX

Generated on 3 Dec 2024 using FirstRate5: 5.5.5a (3.22)

Property

Address 46 Killarney Drive,

Killarney Heights, NSW, 2087

Lot/DP 47/72/DP758566

NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 46 Killarney Drive/25.11.2024

Prepared by sh.studio

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 343.8 suburban

Unconditioned* 57.5 NatHERS climate zone

Total 401.3 56 Mascot AMO

Garage 40.5



Accredited assessor

Name Tania Hannaford

Business name Plan for Tomorrow Limited
Email planfortomorrow@outlook.com

 Phone
 0402422745

 Accreditation No.
 DMN/21/2023

Assessor Accrediting Organisation

Design Matters National

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation No

National Construction Code (NCC) requirements

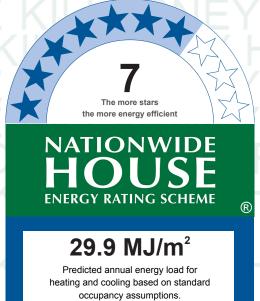
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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

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

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

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

Thermal performance star rating



Thermal performance [MJ/m²]

For more information on your dwelling's rating see:

www.nathers.gov.au

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	16.1	13.8
Load limits	N/A	N/A

Features determining load limits

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

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

Verification

To verify this certificate, scan the QR code or visit https://w ww.fr5.com.au/QRCodeLand ing?PublicId=4W6KFI6YPX 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		stage	Construct stage		
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. It is not mandatory to complete this checklist.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
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*					
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 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	Construc 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	'			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 asse	essment)			
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements					

energy efficiency requirements.

Additional notes

Room schedule

Room	Zone Type	Area [m²]
Double Garage	garage	40.5
Study/Guest Bedroom	bedroom	16.1
Entry/Hallway 1	dayTime	14.7
Hallway 2	dayTime	3.8
Home Theatre	living	19.2
WIL	dayTime	2.6
Laundry	unconditioned	11.3
WIP	dayTime	9.9
Store	dayTime	3.7
Ensuite	unconditioned	5.6
Kitchen/Din/Living	kitchen	86.8
Bedroom 4	bedroom	18.7
WIR 4	nightTime	6.1
Ensuite 4	nightTime	5.1
Ensuite 3	nightTime	5.2
Bedroom 3	bedroom	18.6
WIR 3	nightTime	6.9
Bedroom 2	bedroom	19
WIR 2	nightTime	6.7
Ensuite 2	nightTime	6.2
WIL	dayTime	4.8
Master Bedroom	bedroom	25.8
Master WIR	nightTime	13.6
SHR	nightTime	2
Master Ensuite	nightTime	9.1
Upper Hallway	dayTime	11.6
Leisure	living	41.2

Window and glazed door type and performance

Default* windows

Window ID				Substitution tolerance ranges			
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
ALM-001-04 A	Aluminium A SG Low Solar Gain Low-E	5.6	0.36	0.34	0.38		
TIM-002-01 W	Timber B SG Clear	5.4	0.63	0.6	0.66		
ALM-002-04 A	Aluminium B SG Low Solar Gain Low-E	5.6	0.41	0.39	0.43		

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TIM-001-01 W	Timber A SG Clear	5.4	0.56	0.53	0.59
ALM-004-04 A	Aluminium B DG Air Fill Low Solar Gain low-E -Clear	4.9	0.33	0.31	0.35
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58	0.55	0.61
ALM-003-04 A	Aluminium A DG Air Fill Low Solar Gain low-E -Clear	4.9	0.33	0.31	0.35

Custom* windows

Substitution tolerance ranges

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Window ID	Window description	Maximum U-value* Sł	HGC*	SHGC lower limit	SHGC upper limit
No Data Availa	ble				

Window and glazed door schedule

			Height	Width				Window shading
Location	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*
Double Garage	ALM-001-04 A	W02	700	2000	awning	90.0	S	No
Study/Guest Bedroom	ALM-001-04 A	W01	2700	1000	casement	40.0	W	No
Study/Guest Bedroom	ALM-001-04 A	W13	2700	1000	casement	40.0	W	No
Entry/Hallway 1	TIM-002-01 W	D01	2500	370	fixed	0.0	W	No
Entry/Hallway 1	TIM-002-01 W	D01	2500	370	fixed	0.0	W	No
Home Theatre	ALM-002-04 A	W10	900	2800	sliding	45.0	N	No
Laundry	TIM-001-01 W	Door	2400	720	casement	90.0	S	No
WIP	ALM-001-04 A	W03	600	1600	awning	90.0	S	No
Ensuite	ALM-002-04 A	W11	900	2000	sliding	45.0	N	No
Kitchen/Din/Liv- ing	ALM-004-04 A	SD01	2500	4500	sliding	60.0	E	No
Kitchen/Din/Liv-	ALM-004-04 A	SD02	2500	4800	sliding	60.0	E	No
Kitchen/Din/Liv- ing	ALM-004-04 A	W16	2600	1800	fixed	0.0	N	No
Bedroom 4	ALM-001-04 A	W14	1800	850	awning	10.0	W	No
Bedroom 4	ALM-001-04 A	W08	1800	850	awning	10.0	W	No
WIR 4	ALM-001-04 A	W07	1800	850	awning	50.0	W	No
Ensuite 4	ALM-002-04 A	W06	700	1000	sliding	45.0	S	No
Bedroom 3	ALM-002-03 A	W05	700	2000	sliding	10.0	S	No
Bedroom 2	ALM-001-04 A	W17	1500	2000	awning	10.0	E	No
Ensuite 2	ALM-002-04 A	W04	700	1700	sliding	45.0	S	No
Master Bedroom	ALM-001-04 A	W19	1800	1000	awning	10.0	W	No
Master Bedroom	ALM-001-04 A	D02	2400	1500	casement	40.0	W	No
Master WIR	ALM-001-04 A	W15	1800	1000	awning	50.0	W	No

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Master Ensuite	ALM-002-04 A	W09	700	1800	sliding	45.0	N	No
Leisure	ALM-004-04 A	W16	2400	1800	fixed	0.0	N	No
Leisure	ALM-003-04 A	W18	1500	1000	awning	90.0	E	No
Leisure	ALM-003-04 A	W12	1500	1000	awning	90.0	Е	No

Roof window* type and performance value

Default* roof windows

Window ID				Substitution tolerance ranges		
	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	ilable							

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
GEN-04-004a	DC: Double Clear	

Skylight* schedule

			Skylight shaft	Area	Orient-	Outdoor	
Location	Skylight ID	Skylight No.	length [mm]	[m²]	ation	shade	Diffuser
Ensuite 4	GEN-04-004a	SK03	850	0.3	S	None	No
Ensuite 3	GEN-04-004a	SK03	850	0.3	S	None	No
Upper Hallway	GEN-04-004a	SK04	1600	1.6	N	None	No

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Double Garage	2700	5200	100.0	W
Entry/Hallway 1	2500	860	100.0	W

External wall type

Wall ID	Wall type	Solar absorptance		Bulk insulation [R-value]	Reflective wall wrap*
1	AAC 75 - AAC 75mm Panel - R0.0	0.2	Light		No



2 AAC 75 - AAC 75mm Panel - R2.5F

Light

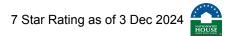
0.2

Glass fibre batt: R2.5 (R2.5)

No

External wall schedule

		11-1-1-1-1	VAR: 141		Horizontal shading	Mandaalaha
Location	Wall ID	Height [mm]	Width [mm]	Orientation	feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Double Garage	1	3100	6605	S	0	Yes
Double Garage	1	3100	785	N	1906	Yes
Double Garage	1	3100	6138	W	0	Yes
Study/Guest Bedroom	2	3000	1838	S	1906	Yes
Study/Guest Bedroom	2	3000	4005	N	0	Yes
Study/Guest Bedroom	2	3000	4016	W	0	Yes
Entry/Hallway 1	2	3000	2086	W	3836	Yes
Home Theatre	2	3000	4004	N	0	Yes
_aundry	2	3000	2305	S	0	Yes
WIP	2	3000	1617	S	0	Yes
Ensuite	2	3000	2010	N	0	Yes
Kitchen/Din/Living	2	3000	6716	S	0	Yes
Kitchen/Din/Living	2	3000	12439	E	3177	Yes
Kitchen/Din/Living	2	3000	8275	N	0	Yes
Bedroom 4	2	2700	4008	W	405	Yes
Bedroom 4	2	2700	4007	S	405	No
WIR 4	2	2700	2201	W	407	Yes
Ensuite 4	2	2700	2209	S	409	No
Bedroom 3	2	2700	3998	S	406	No
Bedroom 2	2	2700	4018	S	402	No
Bedroom 2	2	2700	4010	E	398	No
WIR 2	2	2700	2406	E	400	No
Ensuite 2	2	2700	1716	S	405	No
Master Bedroom	2	2700	1061	S	604	Yes
Master Bedroom	2	2700	2104	W	395	No
Master Bedroom	2	2700	2212	W	2388	Yes
Master WIR	2	2700	1610	W	401	No
Master WIR	2	2700	7201	N	393	Yes
SHR	2	2700	1005	N	394	Yes
Master Ensuite	2	2700	1805	N	416	Yes
Leisure	2	2700	7070	N	392	Yes
Leisure	2	2700	5827	E	403	No



Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	Int - Internal Stud Wall - R2.5F	35.5	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	388.3	Glass fibre batt: R2.0 (R2.0)

Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Double Garage	CSOG - Concrete Slab on Ground	40.5	Enclosed	R0.0	none
Study/Guest Bedroom	CSOG - Concrete Slab on Ground - R2.0 Foam	16.1	Enclosed	R2.0	Tiles
Entry/Hallway 1	CSOG - Concrete Slab on Ground - R2.0 Foam	14.7	Enclosed	R2.0	Tiles
Hallway 2	CSOG - Concrete Slab on Ground - R2.0 Foam	3.8	Enclosed	R2.0	Tiles
Home Theatre	CSOG - Concrete Slab on Ground - R2.0 Foam	19.2	Enclosed	R2.0	Tiles
WIL	CSOG - Concrete Slab on Ground - R2.0 Foam	2.6	Enclosed	R2.0	Tiles
Laundry	CSOG - Concrete Slab on Ground - R2.0 Foam	11.3	Enclosed	R2.0	Tiles
WIP	CSOG - Concrete Slab on Ground - R2.0 Foam	9.9	Enclosed	R2.0	Tiles
Store	CSOG - Concrete Slab on Ground - R2.0 Foam	3.7	Enclosed	R2.0	Tiles
Ensuite	CSOG - Concrete Slab on Ground - R2.0 Foam	5.6	Enclosed	R2.0	Tiles
Kitchen/Din/Livi- ng	CSOG - Concrete Slab on Ground - R2.0 Foam	12.5	Enclosed	R2.0	Tiles
Kitchen/Din/Livi- ng	CSOG - Concrete Slab on Ground - R2.0 Foam	74.4	Enclosed	R2.0	Tiles
Bedroom 4	INTFLRR - Intermediate Floor R4.0	3.7	Enclosed	R4.0	Carpet
Bedroom 4	INTFLRR - Intermediate Floor R4.0	14.7	Enclosed	R4.0	Carpet
Bedroom 4	INTFLRR - Intermediate Floor R4.0	0.2	Enclosed	R4.0	Carpet
WIR 4	INTFLRR - Intermediate Floor R4.0	1	Enclosed	R4.0	Carpet
WIR 4	INTFLRR - Intermediate Floor R4.0	4.7	Enclosed	R4.0	Carpet
WIR 4	INTFLRR - Intermediate Floor R4.0	0.4	Enclosed	R4.0	Carpet

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WIR 4	INTFLRR - Intermediate Floor R4.0	0.1	Enclosed	R4.0	Carpet
Ensuite 4	INTFLRR - Intermediate Floor R4.0	1.1	Enclosed	R4.0	Tiles
Ensuite 4	INTFLRR - Intermediate Floor R4.0	4	Enclosed	R4.0	Tiles
Ensuite 3	INTFLRR - Intermediate Floor R4.0	5.2	Enclosed	R4.0	Tiles
Bedroom 3	INTFLRR - Intermediate Floor R4.0	0.1	Enclosed	R4.0	Carpet
Bedroom 3	INTFLRR - Intermediate Floor R4.0	0.9	Enclosed	R4.0	Carpet
Bedroom 3	INTFLRR - Intermediate Floor R4.0	15.6	Enclosed	R4.0	Carpet
Bedroom 3	INTFLRR - Intermediate Floor R4.0	1.9	Enclosed	R4.0	Carpet
WIR 3	INTFLRR - Intermediate Floor R4.0	6.9	Enclosed	R4.0	Carpet
Bedroom 2	INTFLRR - Intermediate Floor R4.0	3.8	Enclosed	R4.0	Carpet
Bedroom 2	INTFLRR - Intermediate Floor R4.0	15.2	Enclosed	R4.0	Carpet
WIR 2	INTFLRR - Intermediate Floor R4.0	1.2	Enclosed	R4.0	Carpet
WIR 2	INTFLRR - Intermediate Floor R4.0	5.5	Enclosed	R4.0	Carpet
Ensuite 2	INTFLRR - Intermediate Floor R4.0	0.9	Enclosed	R4.0	Tiles
Ensuite 2	INTFLRR - Intermediate Floor R4.0	5.3	Enclosed	R4.0	Tiles
WIL	INTFLRR - Intermediate Floor R4.0	4.8	Enclosed	R4.0	Carpet
Master Bedroom	INTFLRR - Intermediate Floor R4.0	1.2	Enclosed	R4.0	Carpet
Master Bedroom	INTFLRR - Intermediate Floor R4.0	21.6	Enclosed	R4.0	Carpet
Master Bedroom	INTFLRR - Intermediate Floor R4.0	0.8	Elevated	R4.0	Carpet
Master Bedroom	INTFLRR - Intermediate Floor R4.0	2.2	Elevated	R4.0	Carpet
Master WIR	INTFLRR - Intermediate Floor R4.0	9.4	Enclosed	R4.0	Carpet
Master WIR	INTFLRR - Intermediate Floor R4.0	4.1	Enclosed	R4.0	Carpet
SHR	INTFLRR - Intermediate Floor R4.0	0.5	Enclosed	R4.0	Tiles



SHR	INTFLRR - Intermediate Floor R4.0	1.5	Enclosed	R4.0	Tiles
Master Ensuite	INTFLRR - Intermediate Floor R4.0	8.2	Enclosed	R4.0	Tiles
Master Ensuite	INTFLRR - Intermediate Floor R4.0	0.9	Enclosed	R4.0	Tiles
Upper Hallway	INTFLRR - Intermediate Floor R4.0	2.7	Enclosed	R4.0	Carpet
Upper Hallway	INTFLRR - Intermediate Floor R4.0	8.9	Enclosed	R4.0	Carpet
Leisure	INTFLRR - Intermediate Floor R4.0	35	Enclosed	R4.0	Carpet
Leisure	INTFLRR - Intermediate Floor R4.0	6.2	Enclosed	R4.0	Carpet

Ceiling type

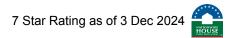
Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Double Garage	INTFLRR - Intermediate Floor R4.0	R4.0	No
Study/Guest Bedroom	INTFLRR - Intermediate Floor R4.0	R4.0	No
Entry/Hallway 1	INTFLRR - Intermediate Floor R4.0	R4.0	No
Hallway 2	INTFLRR - Intermediate Floor R4.0	R4.0	No
Home Theatre	INTFLRR - Intermediate Floor R4.0	R4.0	No
WIL	INTFLRR - Intermediate Floor R4.0	R4.0	No
Laundry	INTFLRR - Intermediate Floor R4.0	R4.0	No
WIP	INTFLRR - Intermediate Floor R4.0	R4.0	No
Store	INTFLRR - Intermediate Floor R4.0	R4.0	No
Ensuite	INTFLRR - Intermediate Floor R4.0	R4.0	No
Kitchen/Din/Livi- ng	Plasterboard	R6.0	Yes
Kitchen/Din/Livi- ng	INTFLRR - Intermediate Floor R4.0	R4.0	No
Bedroom 4	Plasterboard	R2.5	Yes
Bedroom 4	Plasterboard	R6.0	Yes
WIR 4	Plasterboard	R2.5	Yes
WIR 4	Plasterboard	R6.0	Yes
Ensuite 4	Plasterboard	R2.5	Yes



Ensuite 4	Plasterboard	R6.0	Yes
Ensuite 3	Plasterboard	R6.0	Yes
Bedroom 3	Plasterboard	R6.0	Yes
Bedroom 3	Plasterboard	R6.0	Yes
Bedroom 3	Plasterboard	R2.5	Yes
WIR 3	Plasterboard	R6.0	Yes
Bedroom 2	Plasterboard	R2.5	Yes
Bedroom 2	Plasterboard	R6.0	Yes
WIR 2	Plasterboard	R2.5	Yes
WIR 2	Plasterboard	R6.0	Yes
Ensuite 2	Plasterboard	R2.5	Yes
Ensuite 2	Plasterboard	R6.0	Yes
WIL	Plasterboard	R6.0	Yes
Master Bedroom	Plasterboard	R2.5	Yes
Master Bedroom	Plasterboard	R6.0	Yes
Master Bedroom	Plasterboard	R2.5	Yes
Master Bedroom	Plasterboard	R6.0	Yes
Master WIR	Plasterboard	R6.0	Yes
Master WIR	Plasterboard	R2.5	Yes
SHR	Plasterboard	R2.5	Yes
SHR	Plasterboard	R6.0	Yes
Master Ensuite	Plasterboard	R6.0	Yes
Master Ensuite	Plasterboard	R2.5	Yes
Upper Hallway	Plasterboard	R6.0	Yes
Upper Hallway	Plasterboard	R6.0	Yes
Leisure	Plasterboard	R6.0	Yes
Leisure	Plasterboard	R2.5	Yes

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Laundry	1	Exhaust Fans	250	250	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed
Kitchen/Din/Living	1	Exhaust Fans	250	250	Sealed
Kitchen/Din/Living	1	Heater Flues	300	300	Unsealed
Ensuite 4	1	Exhaust Fans	250	250	Sealed
Ensuite 3	1	Exhaust Fans	250	250	Sealed
Ensuite 2	1	Exhaust Fans	250	250	Sealed
Master Ensuite	1	Exhaust Fans	250	250	Sealed



Ceiling fans

Location	Quantity	Diameter [mm]
Study/Guest Bedroom	1	900
Home Theatre	1	1200
Kitchen/Din/Living	2	1400
Bedroom 4	1	900
Bedroom 3	1	900
Bedroom 2	1	900
Master Bedroom	1	900
Leisure	1	1200

Roof type

	Added insulation			
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.67	Dark	
Cont:Attic-Continuous	0.0	0.67	Dark	

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.	

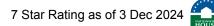
Heating system

			Minimum efficiency/	Recommended	
Appliance/ system type	Location	Fuel type	performance	capacity	
No Whole of Home performa	ance assessment co	enducted for this certific	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 performance capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

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

System type Orientation System size or generation capacity

Fuel type

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

Appliance/ system type

(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	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.

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NATIONWIDE HOUSE INSITERIOR ICOM

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)