# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. WRBC3I4DKY

Generated on 20 Mar 2025 using FirstRate5: 5.5.5a (3.22)

### **Property**

**Address** 120 Tompson Road,

Panania, NSW, 2213

Lot/DP 3/DP27642 NCC Class\* Class 1a

Floor/all Floors

Type New Home

### **Plans**

Main plan SS24.113.9 Issue I/26.02.2025

Prepared by Straightline Studio Co

### **Construction and environment**

Assessed floor area [m²]\* Exposure type
Conditioned\* 271.7 suburban

Unconditioned\* 137.5 NatHERS climate zone

Total 409.2 56 Mascot AMO

Garage 121.2



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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**

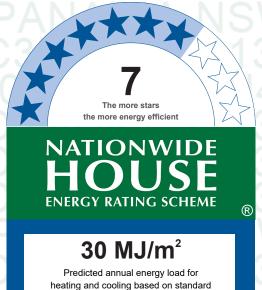
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



## Thermal performance [MJ/m²]

occupancy assumptions.

For more information on your dwelling's rating see:

www.nathers.gov.au

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	17.9	12.1
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=WRBC3I4DKY When using either link, ensure you are visiting www.fr5.com.au.



### About the ratings

#### Thermal performance rating

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

#### Whole of Home performance rating

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

### **Heating & Cooling Load Limits**

#### Additional information

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

#### **Setting options:**

Floor type:

CSOG - Concrete Slab on Ground

SF - Suspended Floor (or a mixture of CSOG and SF)

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - not applicable

Outdoor living area:

Yes

No

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



# Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

# 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	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	Build	Cons	Occı
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 <i>'Floor type'</i> table on this certificate?					
Ceiling penetrations*	T	I	T	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		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	Construc stage	tion	
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing		ı		1	
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home performance check)  Appliances	formance a	ssessmen	t is not con	ducted)	
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)	I	I	
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.					
Eaves/overhangs may not be directly opposite to wall (some eaves may be hori	zontally of	fset).			
150mm has been added to projection of eaves to account for the Gutter & Fasc					
Default solar absorptance/colours have been applied where no details had beer	n provided	at time of	assessme	ent.	

### Room schedule

Room	Zone Type	Area [m²]
Garage/Storage/Workshop	garage	121.2
Kitch/Living/Dining/Butlers/Powder	kitchen	95.9
Kids Activity	living	16.9
Guest Bed	bedroom	17.3
Guest Ensuite	nightTime	8.4
Laundry	unconditioned	8.3
Media	living	21.6
Entry	dayTime	11.8
Lower Stair Void	doubleHeightVoid	5.2
Bed 1 WIR	nightTime	4.9
Bed 1 Ensuite	nightTime	7.1
Bed 1	bedroom	21.9
Bathroom	unconditioned	8
Bed 4	bedroom	12.6
Bed 2 WIR	nightTime	2.4
Bed 2	bedroom	11
Bed 3	bedroom	14.7
Passageway/WIL	dayTime	31.4

# 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	
TIM-001-01 W	Timber A SG Clear	5.4	0.56	0.53	0.59	

#### Custom\* windows

Window ID				Substitution tolerance ranges		
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
BRD-080-02 A	Signature Double Hung Window 100 DG 4ET-10Ar-4Clr	3.63	0.52	0.49	0.55	
ALS-090-08 A	Carinya Plus 65mm Sliding Window SG 4mmET_10Ar_4mmClr	3.13	0.54	0.51	0.57	
ALS-086-05 A	Aluk Infinium Sliding Door Embed DG 8mmEnTech_22Ar_8mmClr	2.37	0.59	0.56	0.62	
BRD-125-10 A	ESS Fixed Window External 52 Comm DG 6mmET_12Ar_6mmET	2.03	0.51	0.48	0.54	



BRD-113_19 A	ESS Awning 52 DG 4mmET_12Ar_4mmET	3.31	0.44	0.42	0.46
BRD-001-37 A	ESS Sliding Window (52mm) SG 4mmClr	6.38	0.74	0.7	0.78

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Kitch/Living/Di-		21-08 ADW	[IIIIII]	Linni		Opening %		device
ning/Butlers/Po- wder	BRD-080-02 A	(W3)	2100	850	double_hung	45.0	W	No
Kitch/Living/Di- ning/Butlers/Po- wder	BRD-080-02 A	21-08 ADW (W3)	2100	850	double_hung	45.0	W	No
Kitch/Living/Di- ning/Butlers/Po- wder	ALS-090-08 A	12-18 ASW (W2)	1200	1810	sliding	45.0	W	No
Kitch/Living/Di- ning/Butlers/Po- wder	BRD-080-02 A	21-12 ADW (W4)	2100	1210	double_hung	22.0	E	No
Kitch/Living/Di- ning/Butlers/Po- wder	ALS-086-05 A	21-53 ASSD (D5)	2100	5302	sliding	60.0	N	No
Kitch/Living/Di- ning/Butlers/Po- wder	ALS-086-05 A	24-32 ASSD (D4)	2400	3216	sliding	60.0	N	No
Kitch/Living/Di- ning/Butlers/Po- wder	BRD-125-10 A	Custom Highlight	609	3216	fixed	0.0	N	No
Kids Activity	ALS-090-08 A	12-24 ASW (W5)	1200	2400	sliding	45.0	E	No
Guest Bed	BRD-080-02 A	Sidelight (D1)	2400	600	double_hung	45.0	S	No
Guest Bed	BRD-080-02 A	Sidelight (D1)	2400	600	double_hung	45.0	S	No
Guest Ensuite	ALS-090-08 A	12-15 ASW (W6)	1200	1570	sliding	45.0	E	No
Laundry	TIM-001-01 W	Glazed Door Panel (D3)	752	820	casement	100.0	W	No
Media	BRD-080-02 A	21-24 ADW (W1)	2100	2400	double_hung	30.0	S	No
Bed 1 Ensuite	BRD-113_19 A	12-08 AAW (W11)	1200	850	awning	90.0	E	No
Bed 1	ALS-090-08 A	12-24 ASW (W5)	1200	2400	sliding	10.0	N	No
Bathroom	BRD-001-37 A	10-18ASW (W10)	1030	1810	sliding	45.0	E	No
Bed 4	BRD-080-02 A	15-18 ADW (W7)	1540	1810	double_hung	10.0	S	No

7 Star Rating as of 20 Mar 2025



Bed 2	ALS-090-08 A	10-18 ASW (W10)	1030	1810	sliding	10.0	N	No
Bed 3	BRD-080-02 A	15-24 ADW (W9)	1540	2410	double_hung	10.0	S	No
Passageway/WIL	BRD-125-10 A	12-12 AFW (W8)	1200	1200	fixed	0.0	S	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

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m²]	Orient- ation	Outdoor shade	Diffuser
Kitch/Living/Dining/- Butlers/Powder	GEN-04-004a	SL1	500	0.5	W	None	No
Kitch/Living/Dining/- Butlers/Powder	GEN-04-004a	SL2	500	0.5	W	None	No

### External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage/Storage/Workshop	2400	4800	0.0	S	
Guest Bed	2400	1440	100.0	S	
Laundry	1648	820	100.0	W	
Entry	2400	1640	100.0	S	

# External wall type

HOUSE	

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	TP-RW - Concrete Form Ret Wall 200	0.5	Medium		No
2	TP-Con - R Conc Block 190mm Core Filled	0.5	Medium		No
3	TP-Con - R Conc Block 190mm Core Filled	0.5	Medium		No
4	ST - Lightweight	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No
5	ST - Internal Plasterboard Stud Wall_Insulated	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No

## External wall schedule

					Horizontal shading	
Location	Wall ID	Height [mm]	Width [mm]	Orientation	feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage/Storage/Workshop	1	1890	12115	W	0	No No
Garage/Storage/Workshop	2	860	12115	W	0	No
Garage/Storage/Workshop	1	1890	4523	S	0	No
Garage/Storage/Workshop	2	860	4523	S	0	No
Garage/Storage/Workshop	3	2750	5437	S	1740	Yes
Garage/Storage/Workshop	2	860	5437	S	0	No
Garage/Storage/Workshop	1	1890	12183	E	0	No
Garage/Storage/Workshop	2	860	12183	E	0	No
Garage/Storage/Workshop	1	1890	9999	N	0	No
Garage/Storage/Workshop	2	860	9999	N	0	No
Kitch/Living/Dining/Butle- rs/Powder	4	2750	11498	W	550	Yes
Kitch/Living/Dining/Butle- rs/Powder	4	2750	4698	E	550	Yes
Kitch/Living/Dining/Butle- rs/Powder	4	2750	7343	N	550	Yes
Kitch/Living/Dining/Butle- rs/Powder	4	2750	2502	E	550	Yes
Kitch/Living/Dining/Butle- rs/Powder	4	3177	4583	N	3950	Yes
Kids Activity	4	2750	3663	E	550	Yes
Guest Bed	4	2750	404	W	2551	Yes
Guest Bed	4	2750	4608	S	1650	Yes
Guest Bed	4	2750	4124	E	550	Yes
Guest Ensuite	4	2750	1921	E	550	Yes
Laundry	4	2750	1805	W	0	Yes
Media	4	2750	4710	W	0	Yes

7 Star Rating as of 20 Mar 2025

HOUSE	

Media	4	2750	4590	S	1650	Yes
Media	4	2750	1409	E	2455	Yes
Entry	4	2750	2533	S	3060	Yes
Bed 1 WIR	4	2750	2408	E	550	No
Bed 1 Ensuite	4	2750	3456	E	550	No
Bed 1 Ensuite	4	2750	2053	N	550	No
Bed 1	4	755	2697	W	550	Yes
Bed 1	4	2750	3993	N	550	No
Bathroom	5	2750	3425	E	550	No
Bed 4	4	2750	998	W	550	Yes
Bed 4	4	2750	3503	S	450	No
Bed 4	4	2750	3816	E	550	No
Bed 2 WIR	4	2750	1633	W	550	No
Bed 2	4	2750	3197	W	550	No
Bed 2	4	1250	3434	N	550	Yes
Bed 3	4	2750	3199	W	550	No
Bed 3	4	2750	4577	S	450	No
Bed 3	4	2750	1392	E	550	Yes
Passageway/WIL	4	1250	1149	N	577	Yes
Passageway/WIL	4	2750	2531	S	586	Yes

# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	160.5	
2	ST - Internal Plasterboard Stud Wall_Insulated	83.3	Glass fibre batt: R2.5 (R2.5)
3	TP-DR - Adj Roof Space	20	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R5.0); Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

# Floor type

• •			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Garage/Storage/W- orkshop	TPM - CSOG: Slab on Ground	121.2	Enclosed	R0.0	none
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	1.1	Enclosed	R4.0	Tiles
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	9.4	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	2.2	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	3.5	Enclosed	R4.0	Timber



Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	0.7	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	2.2	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	1.8	Enclosed	R4.0	Tiles
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	0.8	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	28.6	Enclosed	R4.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	1.7	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	3	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	22.3	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	0.6	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	2.3	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	1	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	12.2	Enclosed	R0.0	Timber
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - CSOG: Slab on Ground	2.6	Enclosed	R0.0	Timber
Kids Activity	TPM - CSOG: Slab on Ground	0.4	Enclosed	R0.0	Carpet
Kids Activity	TPM - Particleboard Lined	12.8	Enclosed	R4.0	Carpet
Kids Activity	TPM - Particleboard Lined	0.9	Enclosed	R4.0	Carpet
Kids Activity	TPM - Particleboard Lined	2.8	Enclosed	R4.0	Carpet
Guest Bed	TPM - CSOG: Slab on Ground	2.7	Enclosed	R0.0	Carpet
Guest Bed	TPM - CSOG: Slab on Ground	0.7	Enclosed	R0.0	Carpet
Guest Bed	TPM - CSOG: Slab on Ground	0.6	Enclosed	R0.0	Carpet
Guest Bed	TPM - Particleboard Lined	0.8	Enclosed	R4.0	Carpet
Guest Bed	TPM - Particleboard Lined	2.5	Enclosed	R4.0	Carpet
Guest Bed	TPM - Particleboard Lined	9.9	Enclosed	R4.0	Carpet
Guest Ensuite	TPM - CSOG: Slab on Ground	0.2	Enclosed	R0.0	Tiles
Guest Ensuite	TPM - Particleboard Lined	6.3	Enclosed	R4.0	Tiles
Guest Ensuite	TPM - Particleboard Lined	0.5	Enclosed	R4.0	Tiles
Guest Ensuite	TPM - Particleboard Lined	1.5	Enclosed	R4.0	Tiles

7 Star Rating as of 20 Mar 2025



Laundry	TPM - Particleboard Lined	5.1	Enclosed	R4.0	Tiles
Laundry	TPM - CSOG: Slab on Ground	3.1	Enclosed	R0.0	Tiles
Media	TPM - CSOG: Slab on Ground	13.3	Enclosed	R0.0	Carpet
Media	TPM - Particleboard Lined	8.3	Enclosed	R4.0	Carpet
Entry	TPM - CSOG: Slab on Ground	0.9	Enclosed	R0.0	Timber
Entry	TPM - Particleboard Lined	10.9	Enclosed	R4.0	Timber
Lower Stair Void	No Floor	5.2	Enclosed	R4.0	No Floor
Bed 1 WIR	TPM - Particleboard Lined	0.9	Enclosed	R4.0	Carpet
Bed 1 WIR	TPM - Particleboard Lined	4.1	Enclosed	R4.0	Carpet
Bed 1 Ensuite	TPM - Particleboard Lined	5.2	Enclosed	R4.0	Tiles
Bed 1 Ensuite	TPM - Particleboard Lined	1.9	Enclosed	R4.0	Tiles
Bed 1	TPM - Particleboard Lined	18.6	Enclosed	R4.0	Carpet
Bed 1	TPM - Particleboard Lined	3.3	Enclosed	R4.0	Carpet
Bathroom	TPM - Particleboard Lined	1.2	Enclosed	R4.0	Tiles
Bathroom	TPM - Particleboard Lined	6.8	Enclosed	R4.0	Tiles
Bed 4	TPM - Particleboard Lined	0.2	Elevated	R4.0	Carpet
Bed 4	TPM - Particleboard Lined	0.2	Elevated	R4.0	Carpet
Bed 4	TPM - Particleboard Lined	1.3	Elevated	R4.0	Carpet
Bed 4	TPM - Particleboard Lined	1.2	Enclosed	R4.0	Carpet
Bed 4	TPM - Particleboard Lined	9.5	Enclosed	R4.0	Carpet
Bed 4	TPM - Particleboard Lined	0.3	Enclosed	R4.0	Carpet
Bed 2 WIR	TPM - Particleboard Lined	1.8	Enclosed	R4.0	Carpet
Bed 2 WIR	TPM - Particleboard Lined	0.6	Enclosed	R4.0	Carpet
Bed 2	TPM - Particleboard Lined	8.8	Enclosed	R4.0	Carpet
Bed 2	TPM - Particleboard Lined	2.2	Enclosed	R4.0	Carpet
Bed 3	TPM - Particleboard Lined	0.7	Enclosed	R4.0	Carpet
Bed 3	TPM - Particleboard Lined	1.2	Enclosed	R4.0	Carpet
Bed 3	TPM - Particleboard Lined	12.8	Enclosed	R4.0	Carpet
Passageway/WIL	TPM - Particleboard Lined	0.9	Enclosed	R4.0	Carpet
Passageway/WIL	TPM - Particleboard Lined	0.5	Enclosed	R4.0	Carpet
Passageway/WIL	TPM - Particleboard Lined	29.9	Enclosed	R4.0	Carpet

# Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage/Storage/W- orkshop	TPM - Particleboard Lined	R4.0	No



Garage/Storage/W- orkshop	TPM - CSOG: Slab on Ground	R0.0	No
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R7.8	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	R4.0	No
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R3.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	R4.0	No
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	R4.0	No
Kitch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	R4.0	No
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R4.8	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R7.8	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R4.8	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R3.0	Yes
Kitch/Living/Din- ing/Butlers/Powd- er	Plasterboard	R6.0	Yes
(itch/Living/Din- ing/Butlers/Powd- er	TPM - Particleboard Lined	R4.0	No
Kids Activity	TPM - Particleboard Lined	R4.0	No
Kids Activity	Plasterboard	R3.0	Yes
Kids Activity	TPM - Particleboard Lined	R4.0	No
Kids Activity	Plasterboard	R6.0	Yes
Guest Bed	TPM - Particleboard Lined	R4.0	No
Guest Bed	Plasterboard	R3.0	Yes
Guest Bed	TPM - Particleboard Lined	R4.0	No
Guest Bed	Plasterboard	R3.0	Yes
Guest Bed	TPM - Particleboard Lined	R4.0	No
Guest Bed	Plasterboard	R6.0	Yes
Guest Bed	TPM - Particleboard Lined	R4.0	No

7 Star Rating as of 20 Mar 2025

NATIONWIDE HOUSE	

Guest Ensuite	TPM - Particleboard Lined	R4.0	No
Guest Ensuite	TPM - Particleboard Lined	R4.0	No
Guest Ensuite	Plasterboard	R6.0	Yes
Laundry	TPM - Particleboard Lined	R4.0	No
Laundry	TPM - Particleboard Lined	R4.0	No
Media	TPM - Particleboard Lined	R4.0	No
Media	TPM - Particleboard Lined	R4.0	No
Entry	TPM - Particleboard Lined	R4.0	No
Entry	TPM - Particleboard Lined	R4.0	No
Lower Stair Void	TPM - Particleboard Lined	R4.0	No
Bed 1 WIR	Plasterboard	R3.0	Yes
Bed 1 WIR	Plasterboard	R6.0	Yes
Bed 1 Ensuite	Plasterboard	R6.0	Yes
Bed 1 Ensuite	Plasterboard	R3.0	Yes
Bed 1	Plasterboard	R6.0	Yes
Bed 1	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R6.0	Yes
Bed 4	Plasterboard	R6.0	Yes
Bed 4	Plasterboard	R3.0	Yes
Bed 4	Plasterboard	R6.0	Yes
Bed 2 WIR	Plasterboard	R6.0	Yes
Bed 2 WIR	Plasterboard	R3.0	Yes
Bed 2	Plasterboard	R6.0	Yes
Bed 2	Plasterboard	R3.0	Yes
Bed 3	Plasterboard	R3.0	Yes
Bed 3	Plasterboard	R3.0	Yes
Bed 3	Plasterboard	R6.0	Yes
Passageway/WIL	Plasterboard	R3.0	Yes
Passageway/WIL	Plasterboard	R3.0	Yes
Passageway/WIL	Plasterboard	R6.0	Yes

# Ceiling penetrations\*

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star Rating as	of 20 Mar 2025	NATIONWIDE HOUSE
Width	Cooled/wassals	

	<b>-</b>	_	Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Kitch/Living/Dining/Butle- rs/Powder	29	Downlights	90	90	Sealed
Kitch/Living/Dining/Butle- rs/Powder	1	Exhaust Fans	250	250	Sealed
Kitch/Living/Dining/Butle- rs/Powder	1	Exhaust Fans	250	250	Unsealed
Kids Activity	5	Downlights	90	90	Sealed
Guest Bed	6	Downlights	90	90	Sealed
Guest Ensuite	2	Downlights	90	90	Sealed
Laundry	2	Downlights	90	90	Sealed
Media	8	Downlights	90	90	Sealed
Entry	4	Downlights	90	90	Sealed
Bed 1 WIR	1	Downlights	90	90	Sealed
Bed 1 Ensuite	1	Downlights	90	90	Sealed
Bed 1	8	Downlights	90	90	Sealed
Bathroom	2	Downlights	90	90	Sealed
Bed 4	4	Downlights	90	90	Sealed
Bed 2 WIR	1	Downlights	90	90	Sealed
Bed 2	4	Downlights	90	90	Sealed
Bed 3	4	Downlights	90	90	Sealed
Passageway/WIL	6	Downlights	90	90	Sealed

# Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

## Roof type

	Added insulatio	n	
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Cont:Attic-Continuous	1.8	0.73	Dark
Framed:Flat - Flat Framed (Metal Deck)	1.3	0.73	Dark
Cont:Attic-Continuous	1.3	0.73	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)

7 Star Rating as of 20 Mar 2025



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 Minimum efficiency/ Recommended 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 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)

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 20 Mar 2025

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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)