# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. 0011831328

Generated on 03 Apr 2025 using BERS Pro v5.2.4 (3.23)

### Property

#### Address

Lot/DP NCC class\* Floor/all Floors Type 13 Garden Street, NORTH NARRABEEN , NSW , 2101 Lot 1 DP 24227 1a G of 2 floors New Home

### Plans

Main plan Prepared by 2023-15 Blue Sky Building Designs

### Construction and environment

#### Assessed floor area [m2]\*

Conditioned\* 259.6 Unconditioned\* 21.5 Total 286.5 Garage 5.4 Exposure type Suburban NatHERS climate zone 56 Mascot (Sydney Airport)

Evergreen Energy Consultants Pty Ltd

enquiries@evergreenec.com.au

Declaration completed: no conflicts



### Accredited assessor

NameJosBusiness nameEveEmailenqPhone130Accreditation No.DMAssessor Accrediting OrganisationDesign Matters National

Declaration of interest

### **NCC Requirements**

NCC provisions Strate/Territory variation Volume Two

Yes

Joseph Lorriman

1300 584 010

DMN/16/1742

#### 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 <u>www.abcb.gov.au.</u>

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

Thermal performance Star rating

The more stars the more energy efficient

# NATIONWIDE HOUSE ENERGY RATING SCHEME

# 26.7 MJ/m<sup>2</sup>

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/m<sup>2</sup>]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	11.4	15.3
oad limits	N/A	N/A

#### Features determining load limits

Floor Type	CSOC
(lowest conditioned area)	0300
NCC climate zone 1 or 2	No
Outdoor living area	No
Outdoor living area ceiling fan	No

### 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 hstar.com.au/QR/Generate? p=wtiOyFyXE . When using either link, ensure you are visiting hstar.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 Standard 2022: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### Setting Options:

Floor Type:

CSOG - Concrete Slab on Ground

SF – Suspended Floor (or a mixture of CSOG and SF) NA – Not Applicable

NCC Climate Zone 1 or 2:

Yes

No

NA – Not Applicable

Outdoor Living Area:

Yes No

NA – Not Applicable

Outdoor Living Area Ceiling Fan:

Yes No

NA – Not Applicable

# Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

# Predicted Whole of Home annual impact by appliance

#### Energy use



Greenhouse gas emissions



Cost



#### 7.3 Star Rating as of 03 Apr 2025

Certificate check	Approva	Il Stage	Constru Stage	HOUSE	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assess	Conser Survey	Builder	Conser Survey	Occupa
Genuine certificate check		1	1	<u>6</u>	
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 what is shown					

<u>.</u>

0011831328 NatHERS Certificate 7.3 Star Rating as of 03 Apr 2025					HTOONWERE
	Approva	Il Stage	Constru Stage	ction	
Certificate check	ecked	ority/	ked	Jority	ther
Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not inclu	uded in t	he NatHE	RS asse	essment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Hom	e performa	ance asses	ssment is i	not conduc	ted)
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS- stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the	NatHERS	S assessi	nent)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements		A			
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addi but are not limited to: condensation, structural and fire safety requirements and any st requirements.					

Additional notes



### Room schedule

Room	Zone Type	Area [m <sup>2</sup> ]
Kitchen/Living	Kitchen/Living	87.46
Pantry	Daytime	6.75
Laundry	Unconditioned	6.02
Bath	Unconditioned	5.37
Powder	Unconditioned	3.38
Guest Bed	Bedroom	17.46
Home Gym	Daytime	13.48
Storage	Garage	5.38
Master Bed	Bedroom	30.64
Rumpus	Living	24.29
Bedroom 2	Bedroom	16.14
Bedroom 3	Bedroom	14.43
Bedroom 4	Bedroom	14.26
Bathroom	Unconditioned	5.04
Ensuite	Nighttime	7.26
Void	Unconditioned	9.5
Parent Retreat	Nighttime	15.67
Hall	Daytime	11.78
WC	Unconditioned	1.66

# Window and glazed door type and performance

#### Default windows\*

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

#### Custom windows\*

Window ID	Window	indow Maximum		Substitution tolerance ranges		
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ALS-037-018	Aluminium Sliding Door DG LB Clr 4/10/4	2.8	0.48	0.46	0.51	
ALS-039-019	Aluminium Double Hung Window DG LB Clr 4/10/4	3.2	0.46	0.44	0.48	



### Custom windows\*

Window ID	Window Maximum		SHGC*	Substitution tolerance ranges		
	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
ALS-028-019	Aluminium Fixed Window DG LB Clr 4/10/4	2.2	0.53	0.51	0.56	
ALS-090-009	Aluminium Sliding Window DG LB Clr 4/10/4	2.9	0.49	0.47	0.51	
ALS-056-013	Aluminium Casement Window DG LB Clr 4/16/4	4.1	0.36	0.34	0.37	
ALS-025-019	Aluminium Awning Window DG LB Clr 4/10/4	3.2	0.45	0.43	0.47	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	ALS-037-018-001	W28	2400	3600	Sliding	60	E	No
Kitchen/Living	ALS-039-019-001	W19	2000	1200	Double Hung	45	Ν	No
Kitchen/Living	ALS-037-018-001	W23	2400	6000	Sliding	60	E	No
Kitchen/Living	ALS-028-019-001	W30	600	2700	Fixed	00	S	No
Kitchen/Living	ALS-039-019-001	W29	2000	1200	Double Hung	45	Ν	No
Kitchen/Living	ALS-037-018-001	n/a	2400	2400	Sliding	45	Ν	No
Pantry	ALS-090-009-001	W20	600	1600	Sliding	45	S	No
Laundry	ALS-056-013-001	W26	2100	820	Casement	90	S	No
Bath	ALS-039-019-001	W21	1400	900	Awning	90	S	No
Guest Bed	ALS-090-009-001	W22	1400	1800	Sliding	45	S	No
Home Gym	ALS-037-018-001	W14	2400	2600	Sliding	60	Ν	No
Master Bed	ALS-090-009-001	W6	1300	3000	Sliding	10	E	No
Master Bed	ALS-025-019-001	W7	1300	600	Awning	90	E	No
Master Bed	ALS-090-009-001	W25	1300	1500	Sliding	10	Ν	No
Rumpus	ALS-090-009-001	n/a	1300	3300	Sliding	30	Ν	No
Bedroom 2	ALS-090-009-001	n/a	1300	2700	Sliding	10	W	No
Bedroom 3	ALS-090-009-001	W13	1300	2700	Sliding	10	W	No
Bedroom 3	ALS-090-009-001	n/a	1300	2700	Sliding	10	Ν	No
Bedroom 4	ALS-090-009-001	W2	1300	2700	Sliding	10	Ν	No

7.3 Star Rating as of 03 Apr 2025



Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bathroom	ALS-090-009-001	W9	1300	1500	Sliding	45	S	No
Ensuite	ALS-090-009-001	W8	1300	1500	Sliding	45	S	No
Parent Retreat	ALS-090-009-001	W4	1300	2700	Sliding	30	Ν	No
Parent Retreat	ALS-090-009-001	W5	1300	3600	Sliding	60	E	No
Hall	ALS-025-019-001	W32	1300	900	Awning	90	W	No
WC	ALS-025-019-001	W31	1300	900	Awning	90	S	No

# Roof window\* type and performance value

### Default roof windows\*

Window ID	Window	Maximum	SUCC*	Substitution tolerance ranges		
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
DG-Generic-02 A	DG-Generic-02 A Clear AI DG DEFAULT ROOF WINDOW System 02	4.2	0.72	0.68	1.40	

#### Custom roof windows\*

Window ID	Window	Maximum	CUCC*	Substitution tolerance ranges		
	Description U-value <sup>3</sup>		SHGC*	SHGC lower limit	SHGC upper limit	
	VEL-011-01 W VELUX					
	FS - Fixed Skylight DG					
VEL-011-01 W	3mm LoE 366 / 8.5mm	2.6	0.24	0.23	0.25	
	Argon Gap / 5.36mm					
	Clear La					

### Roof window\* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
Master Bed	VEL-011-01 W	S10	0	1800	600	S	Yes	Yes
Master Bed	DG-Generic-02 A	S11	0	1800	600	S	Yes	Yes
Master Bed	DG-Generic-02 A	S12	0	1800	600	S	Yes	Yes
Ensuite	DG-Generic-02 A	S5	0	1200	800	S	Yes	Yes
Void	DG-Generic-02 A	S13	0	1800	600	S	Yes	Yes
Void	DG-Generic-02 A	S14	0	1800	600	S	Yes	Yes
Void	DG-Generic-02 A	S15	0	1800	600	S	Yes	Yes
Hall	DG-Generic-02 A	S9	0	600	600	S	Yes	Yes



# Skylight\* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

# Skylight\* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m <sup>2</sup> ] Orientation	Outdoor shade	Diffuser
No Data Available						

### External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Kitchen/Living	2100	920	90	W
Storage	2040	2500	90	W

### External wall type

Wall ID	Wall type	Solar Wal absorptance [col	I shade Bulk insulation our] [R-value]	Reflective wall wrap*
EW-1	Fibro Timber Stud Frame Panel Direct Fix	0.30	Bulk Insulation, Air Gap R2.7	No
EW-2	Metal Clad Timber Stud Frame Direct Fix	0.30	Bulk Insulation, Air Gap 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]
Kitchen/Living	EW-1	2700	3700	Е	600	No
Kitchen/Living	EW-1	2701	600	E	5900	No
Kitchen/Living	EW-1	2700	1800	Ν	600	No
Kitchen/Living	EW-1	2700	7100	Е	4100	Yes
Kitchen/Living	EW-1	2700	5995	S	600	No
Kitchen/Living	EW-2	1350	3900	S	5200	No
Kitchen/Living	EW-1	2700	1295	W	2800	No
Kitchen/Living	EW-1	2700	3900	Ν	7400	No
Kitchen/Living	EW-1	2700	595	W	6700	No
Kitchen/Living	EW-1	2700	1400	W	10400	No
Kitchen/Living	EW-1	2700	6100	Ν	700	No

7.3 Star Rating as of 03 Apr 2025



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Pantry	EW-1	2700	1890	S	600	No
Laundry	EW-1	2700	1690	S	600	No
Bath	EW-1	2700	1990	S	600	No
Guest Bed	EW-1	2700	3890	S	600	No
Guest Bed	EW-1	1350	1295	W	0	No
Guest Bed	EW-2	1350	1295	W	2300	No
Home Gym	EW-1	2700	3495	W	6700	No
Home Gym	EW-1	2700	3695	Ν	2100	No
Storage	EW-1	1350	1695	S	0	No
Storage	EW-2	1350	1695	S	600	No
Storage	EW-1	1350	3300	W	0	No
Storage	EW-2	1350	3300	W	600	No
Storage	EW-1	1350	1695	Ν	0	No
Storage	EW-2	1350	1695	Ν	10000	No
Master Bed	EW-1	750	5900	E	0	No
Master Bed	EW-2	3450	5900	E	600	No
Master Bed	EW-2	200	4895	S	0	No
Master Bed	EW-1	2300	4895	S	600	No
Master Bed	EW-1	2700	1800	Ν	600	No
Rumpus	EW-1	2500	4490	Ν	475	No
Bedroom 2	EW-2	2500	3895	S	1100	No
Bedroom 2	EW-2	400	4195	W	0	No
Bedroom 2	EW-1	2100	4195	W	600	No
Bedroom 3	EW-1	2700	1300	S	600	No
Bedroom 3	EW-1	2500	4300	W	600	No
Bedroom 3	EW-1	2500	3395	Ν	450	No
Bedroom 4	EW-1	2500	3390	Ν	475	No
Bathroom	EW-2	200	2090	S	0	No
Bathroom	EW-1	2300	2090	S	600	No
Ensuite	EW-2	200	2990	S	0	No
Ensuite	EW-1	2300	2990	S	600	No

7.3 Star Rating as of 03 Apr 2025



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
Parent Retreat	EW-2	200	3695	Ν	0	No	
Parent Retreat	EW-1	2300	3695	Ν	500	No	
Parent Retreat	EW-1	2700	4295	Е	600	No	
Hall	EW-1	2500	1190	W	600	No	
WC	EW-2	200	1595	S	0	No	
WC	EW-1	2300	1595	S	600	No	
WC	EW-1	2700	500	W	4500	No	

# Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	254.84	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	0.00	Bulk Insulation, No Air Gap R2.7

# Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Kitchen/Living	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	87.46	Very Open	No Insulation	Cork Tiles or Parquetry 8mm
Pantry	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	6.75	Very Open	No Insulation	Ceramic Tiles 8mm
Laundry	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	6.02	Very Open	No Insulation	Ceramic Tiles 8mm
Bath	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	5.37	Very Open	No Insulation	Ceramic Tiles 8mm
Powder	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	3.38	Very Open	No Insulation	Ceramic Tiles 8mm
Guest Bed	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	17.46	Very Open	No Insulation	Cork Tiles or Parquetry 8mm
Home Gym	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	13.48	Very Open	No Insulation	Cork Tiles or Parquetry 8mm
Storage	Concrete Slab on Ground 100mm	5.38	None	No Insulation	Bare



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Master Bed / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	30.64		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	13.22		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus / Home Gym	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	7.66		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	2.48	Totally Open	Bulk Insulation in Contact with Floor R1	Carpet+Rubber Underlay 18mm
Bedroom 2 / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	4.83		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2 / Guest Bed	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	11.06		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 3	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	14.43	Totally Open	Bulk Insulation in Contact with Floor R1	Carpet+Rubber Underlay 18mm
Bedroom 4 / Home Gym	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	4.28		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	9.62	Totally Open	Bulk Insulation in Contact with Floor R1	Carpet+Rubber Underlay 18mm
Bathroom / Laundry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	4.03		No Insulation	Ceramic Tiles 8mm
3athroom / Bath	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	0.43		No Insulation	Ceramic Tiles 8mm
Ensuite / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	2.51		No Insulation	Ceramic Tiles 8mm
Ensuite / Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	4.51		No Insulation	Ceramic Tiles 8mm
Void / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Parent Retreat / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	15.67		No Insulation	Carpet+Rubber Underlay 18mm
Hall / Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	2.46		No Insulation	Carpet+Rubber Underlay 18mm
Hall / Bath	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	0.22		No Insulation	Carpet+Rubber Underlay 18mm
Hall / Powder	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	2.30		No Insulation	Carpet+Rubber Underlay 18mm
Hall / Home Gym	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	0.38		No Insulation	Carpet+Rubber Underlay 18mm
Hall	Suspended 35mm Fibre- Reinforced Concrete Floor Timber Frame 42mm	4.10	Totally Open	Bulk Insulation ir Contact with Floor R1	n 80/20 Carpet 10mm/Ceramic
WC / Bath	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 42mm	1.66		No Insulation	Ceramic Tiles 8mm

# Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Kitchen/Living	Plasterboard on Timber	Bulk Insulation R3	
Kitchen/Living	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Pantry	Plasterboard on Timber	Bulk Insulation R3	
Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Laundry	Plasterboard on Timber	Bulk Insulation R3	
Laundry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Bath	Plasterboard on Timber	Bulk Insulation R3	
Bath	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Powder	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Guest Bed	Plasterboard on Timber	Bulk Insulation R3	

Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]	
35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation		
35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
Plasterboard on Timber	Bulk Insulation R3		
	material/type35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard35mm Fibre-Reinforced Concrete Timber Frame Above PlasterboardPlasterboard on TimberPlasterboard on Timber	Construction material/type(may include edge batt values)35mm Fibre-Reinforced Concrete Timber Frame Above PlasterboardNo Insulation35mm Fibre-Reinforced Concrete Timber Frame Above PlasterboardNo Insulation9lasterboardBulk Insulation R3Plasterboard on TimberBulk Insulation R3 <tr< td=""></tr<>	

# **Ceiling** penetrations\*

Location Quantity Type		Туре	Diameter [mm]	Sealed/unsealed	
Kitchen/Living	17	Downlights - LED	150	Sealed	
Kitchen/Living	1	Exhaust Fans	300	Sealed	
Pantry	1	Downlights - LED	150	Sealed	
Laundry	1	Downlights - LED	150	Sealed	
Laundry	1	Exhaust Fans	300	Sealed	
Bath	1	Downlights - LED	150	Sealed	
Bath	1	Exhaust Fans	300	Sealed	
Powder	1	Downlights - LED	150	Sealed	
Powder	1	Exhaust Fans	300	Sealed	
Guest Bed	3	Downlights - LED	150	Sealed	
Home Gym	2	Downlights - LED	150	Sealed	
Storage	1	Downlights - LED	150	Sealed	
Master Bed	6	Downlights - LED	150	Sealed	

7.3 Star Rating as of 03 Apr 2025



Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	104111476 5866 8
Rumpus	7	Downlights - LED	150	Sealed	
Bedroom 2	3	Downlights - LED	150	Sealed	
Bedroom 3	2	Downlights - LED	150	Sealed	
Bedroom 4	2	Downlights - LED	150	Sealed	
Bathroom	1	Downlights - LED	150	Sealed	
Bathroom	1	Exhaust Fans	300	Sealed	
Ensuite	1	Downlights - LED	150	Sealed	
Ensuite	1	Exhaust Fans	300	Sealed	
Parent Retreat	3	Downlights - LED	150	Sealed	

### **Ceiling** fans

Location	Quantity	Diameter [mm]
Kitchen/Living	1	1800
Guest Bed	1	1400
Master Bed	1	1400
Rumpus	1	1800
Bedroom 2	1	1400
Bedroom 3	1	1400
Bedroom 4	1	1400

# Roof type

Construction	Added insulation	Solar	Roof shade
	[R-value]	absorptance	[colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.60	Medium

### Thermal bridging schedule for steel frame elements

Building element Steel section dimensions [height x width, mm]		Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [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/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

0011831328 NatHERS Certificate	7.3 Sta	r Rating as of	03 Apr 2025				HIGHNE
Cooling system							
Appliance/ system type	Lo	cation	Fuel type	eff	nimum iciency/ ormance		mended acity
No Data Available				-			
Heating system							
Appliance/ system type	Lo	cation	Fuel type	eff	nimum iciency/ ormance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency s /STC	Zone 3 STC		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type		Fuel type		Minimu efficienc performa	:y/	Recomm capad	
No Data Available							
Onsite Renewable E	nergy Sch	edule					
System Type Orio	entation		Syst	em Size O	r Generation	Capacity	

# Battery Schedule

No Data Available

System Type	Size [Battery Storage Capacity]
No Data Available	



### Explanatory notes

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary.

Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

#### Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and

#### are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

### Glossary

Australian Fenestration Rating Council
the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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.
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.
Coefficient of performance
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.
windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
This is your homes rating without solar or batteries.
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).
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.
see exposure categories below.
terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
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).
terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
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.
a home that achieves a net zero energy value*.
the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
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
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.
can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
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.
includes neighbouring buildings, fences, and wing walls, but excludes eaves.
) for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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.
Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER)
are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
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).
device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)