Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011886264

Generated on 29 Apr 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Unit Lot 2, 10 Lockwood Avenue,

FRENCHS FOREST, NSW, 2086

Lot/DP Lot 14 DP 225454

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan n/a Prepared by n/a

Construction and environment

Assessed floor area [m2]* Exposure type

Conditioned* 217.6 Suburban Unconditioned* 12.0

Total 248.9
Garage 19.2

NatHERS climate zone
56 Mascot (Sydney Airport)



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Accreditation No. DMN/13/1641

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration not completed

NCC Requirements

NCC provisions Volume Two

Strate/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



NATIONWIDE HOUSE ENERGY RATING SCHEME

29.8 MJ/m²

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

Modelled 18.4 11.4 Load limits N/A N/A

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

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=bPqoqYmkT. 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.

Predicted Whole of Home annual impact by appliance

Energy use

Greenhouse gas emissions

No Whole of Home performance assessment conducted for this certificate

> No Whole of Home

performance

assessment conducted for 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

NA - Not Applicable



No Whole of Home performance assessment conducted for this certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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7 Star Rating as of 29 Apr 2025

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Certificate check	Approval Stage		Construction Stage		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. Note: The boxes indicate when and by whom each item should be checked. It is not	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
mandatory to complete this checklist.	Asse	Cons	Build	Cons	Occu
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 what is shown					

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	Approva	I Stage	Construe Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	uded in ti	he NatHE	RS asse	ssment)	
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 r	not conduc	cted)
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	assessi	nent)	1	
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	n	•	n	•	0
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. Addi but are not limited to: condensation, structural and fire safety requirements and any st requirements.					
Additional notes					
Rated with provisional values for downlights (0mm).					
Rated with exhaust fans (350mm).					
Rated with ceiling fans (1200mm) as shown on the plans.					



Rated with waffle pod slab (300mm).

Rated with brick veneer construction on the ground floor and cladding on the first floor (Internal stud walls and

internal AAC floor).

Rated with AWS windows.

All obscure windows are rated as custom windows/8.6 as per the NatHERS Technical Note 2023.

Rated with window sizes and types as per the window schedule.

Rated with colours as per the material schedule/external finishes schedule (solar absorptance is calculated in the BERS

software custom colours tool).

The dwelling is rated without reduced insulation near the eave because the section shows sufficient space for installing

ceiling insulation with original thickness (the roof to be constructed to meet the general insulation requirements as

per the BCA 22 and the housing provision note 10.8).

All coffer ceiling verticals and walls against the roof-space, to be insulated, with the same

insulation as the ceiling insulation.

Where the roof is extended over an open area such as a deck or carport: A barrier to be installed

within the roof space to separate the space above the zoned part of the house and the space above

the open veranda.

Room schedule

Room	Zone Type	Area [m²]
Garage-GF	Garage	19.23
Entry-GF	Daytime	12.66
Stairs-GF	Daytime	10.06
Guest Bed-GF	Bedroom	13.15
Bath/G.Bed-GF	Nighttime	6.2
Home Cinema-GF	Daytime	12.63
Ktch/Fam/Din-GF	Kitchen/Living	55.37
WC-GF	Daytime	1.91
Pantry-GF	Daytime	5.06
Ldry-GF	Daytime	5.45
Stairs/Void-FF	Daytime	13.23
Study-FF	Daytime	15.66
M.Bedroom-FF	Bedroom	27.01
WIR/M.Bed-FF	Nighttime	5.38

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Room	Zone Type	Area [m²]	
Ens/M.Bed-FF	Nighttime	7.62	
Bath-FF	Unconditioned	12.03	
Bedroom 2-FF	Bedroom	17.34	
Bedroom 3-FF	Bedroom	17.94	

Window and glazed door type and performance

Default windows*

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

Custom windows*

Window ID	Window Maximum		SHGC*	Substitution to	lerance ranges
window iD	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
AWS-007-001	Aluminium Awning Window SG 3Clr	6.5	0.66	0.63	0.69
AWS-066-007	Aluminium Fixed Window SG 5Clr	5.9	0.75	0.71	0.79
AWS-011-001	Aluminium Sliding Door SG 5Clr	6.2	0.72	0.69	0.76
AWS-007-007	Aluminium Awning Window SG 6.38CPNtl	4.9	0.41	0.39	0.43

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Guest Bed-GF	AWS-007-001-001	W14	900	2100	Awning	60	SE	No
Guest Bed-GF	AWS-007-001-001	W01	2100	2100	Awning	30	SW	No
Bath/G.Bed-GF	AWS-007-001-001	W13	900	900	Awning	90	SE	No
Home Cinema-GF	AWS-007-001-001	W12	900	2100	Awning	60	SE	No
Ktch/Fam/Din-GF	AWS-066-007-001	W09	2400	2300	Fixed	00	NE	No
Ktch/Fam/Din-GF	AWS-011-001-001	DE03	2400	2550	Sliding	60	SE	No
Ktch/Fam/Din-GF	AWS-011-001-001	DE04	2400	2850	Sliding	60	NE	No
Ktch/Fam/Din-GF	AWS-007-007-001	W11	2100	900	Awning	60	SE	No
Ktch/Fam/Din-GF	AWS-007-007-001	W10	2100	900	Awning	60	SE	No
M.Bedroom-FF	AWS-007-001-001	W25	1800	2400	Awning	10	NE	No

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Location	Window ID	Window no.	Height [mm]	Width Window [mm] type	Opening Orientation	Window shading device*
M.Bedroom-FF	AWS-007-001-001	W26	600	2400 Awning	60 SE	No
Ens/M.Bed-FF	AWS-007-001-001	W24	900	750 Awning	10 NE	No
Bath-FF	AWS-007-001-001	W27	1200	1200 Awning	10 SE	No
Bedroom 2-FF	AWS-007-001-001	W28	600	2400 Awning	60 SE	No
Bedroom 2-FF	AWS-007-001-001	W15	1500	2125 Awning	30 SW	No
Bedroom 3-FF	AWS-007-001-001	W16	1500	2125 Awning	30 SW	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
Window ID	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			
Window ID	Description	U-value*	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]	rientation	Outdoor shade	Indoor shade
Ktch/Fam/Din-GF	VEL-011-01 W	S11	0	1200	600 S	E	Yes	Yes
Ktch/Fam/Din-GF	DG-Generic-02 A	S12	0	1200	600 S	E	Yes	Yes
Stairs/Void-FF	VEL-011-01 W	S09	0	1200	1200 S	E	Yes	Yes
Study-FF	VEL-011-01 W	S08	0	1935	1275 S	E	Yes	Yes
Ens/M.Bed-FF	VEL-011-01 W	S10	0	900	600 S	E	Yes	Yes

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		



Skylight* schedule

Location Skylight Skylight Skylight Shaft length [m²] Area Orientation Outdoor shade Diffuser

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage-GF	2475	2600	90	SW
Entry-GF	2400	1200	90	SW

External wall type

Wall Wall ID type	Solar Wall shade absorptance [colour]	e Bulk insulation [R-value]	Reflective wall wrap*
EW-1 Single Skin Brick	0.45	No insulation	No
EW-2 Timber Stud Frame Brick Veneer	0.45	Anti-glare foil with bulk no gap R2.5	No
EW-3 Timber Stud Frame Brick Veneer	0.50	Anti-glare foil with bulk no gap R2.5	No
EW-4 Timber Stud Frame Brick Veneer	0.27	Anti-glare foil with bulk no gap R2.5	No
EW-5 Fibro Timber Stud Frame Panel on Battens	0.20	Anti-glare foil with bulk no gap R2.5	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage-GF	EW-1	2875	3195	SW	2100	No
Entry-GF	EW-2	2800	1590	SW	2100	No
Stairs-GF	EW-3	2800	2790	SE	100	No
Guest Bed-GF	EW-4	2800	4295	SE	100	No
Guest Bed-GF	EW-4	2800	3100	SW	600	Yes
Guest Bed-GF	EW-4	2800	1500	NW	13400	No
Bath/G.Bed-GF	EW-4	2800	1890	SE	100	No
Home Cinema-GF	EW-4	2800	1000	NE	100	No
Home Cinema-GF	EW-4	2800	3795	SE	100	No
Ktch/Fam/Din-GF	EW-4	2800	1000	SW	100	No
Ktch/Fam/Din-GF	EW-4	2800	3600	NE	100	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Ktch/Fam/Din-GF	EW-4	2800	3300	SE	4400	No
Ktch/Fam/Din-GF	EW-4	2800	447	Е	4808	No
Ktch/Fam/Din-GF	EW-4	2800	412	NE	4896	No
Ktch/Fam/Din-GF	EW-4	2800	3700	NE	4800	No
Ktch/Fam/Din-GF	EW-4	2800	5100	SE	100	No
Stairs/Void-FF	EW-5	2600	2790	SE	100	No
M.Bedroom-FF	EW-5	2600	4895	NE	100	No
M.Bedroom-FF	EW-5	2600	5095	SE	100	No
Ens/M.Bed-FF	EW-5	2600	1995	NE	100	No
Bath-FF	EW-5	2600	4190	SE	100	No
Bedroom 2-FF	EW-5	2600	5195	SE	100	No
Bedroom 2-FF	EW-5	2600	3395	SW	900	Yes
Bedroom 3-FF	EW-5	2600	3495	SW	900	Yes

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Cavity brick, plasterboard	84.18	No Insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	47.92	Bulk Insulation, No Air Gap R2.5
IW-003	Timber Stud Frame, Direct Fix Plasterboard	173.03	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage-GF	Waffle pod slab 300 mm 85mm	19.18	None	Waffle Pod 300mm	Bare
Entry-GF	Waffle pod slab 300 mm 85mm	12.66	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Stairs-GF	Waffle pod slab 300 mm 85mm	10.06	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Guest Bed-GF	Waffle pod slab 300 mm 85mm	13.15	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Bath/G.Bed-GF	Waffle pod slab 300 mm 85mm	6.20	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Home Cinema-GF	Waffle pod slab 300 mm 85mm	12.63	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Ktch/Fam/Din-GF	Waffle pod slab 300 mm 85mm	55.37	55.37 None		Ceramic Tiles 8mm
WC-GF	Waffle pod slab 300 mm 85mm	1.91	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Pantry-GF	Waffle pod slab 300 mm 85mm	5.06	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Ldry-GF	Waffle pod slab 300 mm 85mm	5.45	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Stairs/Void-FF / Stairs- GF	AAC Timber Framed Above Plasterboard 75mm	0.77		No Insulation	Cork Tiles or Parquetry 8mm
Stairs/Void-FF / Ktch/Fam/Din-GF	AAC Timber Framed Above Plasterboard 75mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Stairs/Void-FF / WC-GF	AAC Timber Framed Above Plasterboard 75mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Study-FF / Garage-GF	AAC Timber Framed Above Plasterboard 75mm	5.50		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Study-FF / Entry-GF	AAC Timber Framed Above Plasterboard 75mm	3.68		No Insulation	Cork Tiles or Parquetry 8mm
Study-FF / Ldry-GF	AAC Timber Framed Above Plasterboard 75mm	5.17		No Insulation	Cork Tiles or Parquetry 8mm
M.Bedroom-FF / Ktch/Fam/Din-GF	AAC Timber Framed Above Plasterboard 75mm	27.00		No Insulation	Cork Tiles or Parquetry 8mm
WIR/M.Bed-FF / Ktch/Fam/Din-GF	AAC Timber Framed Above Plasterboard 75mm	0.32		No Insulation	Cork Tiles or Parquetry 8mm
WIR/M.Bed-FF / Pantry- GF	AAC Timber Framed Above Plasterboard 75mm	4.85		No Insulation	Cork Tiles or Parquetry 8mm
Ens/M.Bed-FF / Ktch/Fam/Din-GF	AAC Timber Framed Above Plasterboard 75mm	7.62		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Entry-GF	AAC Timber Framed Above Plasterboard 75mm	2.09		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Bath/G.Bed- GF	AAC Timber Framed Above Plasterboard 75mm	0.21		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Home Cinema-GF	AAC Timber Framed Above Plasterboard 75mm	8.31		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Entry- GF	AAC Timber Framed Above Plasterboard 75mm	4.80		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Guest Bed-GF	AAC Timber Framed Above Plasterboard 75mm	7.43		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Bath/G.Bed-GF	AAC Timber Framed Above Plasterboard 75mm	3.26		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF	Suspended AAC (75mm) Timber Frame 75mm	0.83	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 3-FF / Garage GF	- AAC Timber Framed Above Plasterboard 75mm	13.50		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Bedroom 3-FF / Entry- GF	AAC Timber Framed Above Plasterboard 75mm	1.03		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3-FF	Suspended AAC (75mm) Timber Frame 75mm	2.89	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage-GF	AAC Timber Framed Above Plasterboard	Bulk Insulation R2.5	
Entry-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Stairs-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Guest Bed-GF	Plasterboard on Timber	Bulk Insulation R5	
Guest Bed-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Bath/G.Bed-GF	Plasterboard on Timber	Bulk Insulation R5	
Bath/G.Bed-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Home Cinema-GF	Plasterboard on Timber	Bulk Insulation R5	
Home Cinema-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Ktch/Fam/Din-GF	Plasterboard on Timber	Bulk Insulation R5	
Ktch/Fam/Din-GF	AAC Timber Framed Above Plasterboard	No Insulation	
WC-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Pantry-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Ldry-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Stairs/Void-FF	Plasterboard on Timber	Bulk Insulation R5	
Study-FF	Plasterboard on Timber	Bulk Insulation R5	
M.Bedroom-FF	Plasterboard on Timber	Bulk Insulation R5	
WIR/M.Bed-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/M.Bed-FF	Plasterboard on Timber	Bulk Insulation R5	
Bath-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 2-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 3-FF	Plasterboard on Timber	Bulk Insulation R5	



Ceiling penetrations*

Entry-GF	5			
		Downlights - LED	0	Sealed
Stairs-GF	1	Downlights - LED	0	Sealed
Guest Bed-GF	5	Downlights - LED	0	Sealed
Bath/G.Bed-GF	2	Downlights - LED	0	Sealed
Home Cinema-GF	4	Downlights - LED	0	Sealed
Ktch/Fam/Din-GF	22	Downlights - LED	0	Sealed
Ktch/Fam/Din-GF	1	Exhaust Fans	350	Sealed
WC-GF	1	Downlights - LED	0	Sealed
WC-GF	1	Exhaust Fans	350	Sealed
Pantry-GF	2	Downlights - LED	0	Sealed
Ldry-GF	2	Downlights - LED	0	Sealed
Ldry-GF	1	Exhaust Fans	350	Sealed
Stairs/Void-FF	5	Downlights - LED	0	Sealed
Study-FF	6	Downlights - LED	0	Sealed
M.Bedroom-FF	11	Downlights - LED	0	Sealed
WIR/M.Bed-FF	2	Downlights - LED	0	Sealed
Ens/M.Bed-FF	2	Downlights - LED	0	Sealed
Ens/M.Bed-FF	1	Exhaust Fans	350	Sealed
Bath-FF	5	Downlights - LED	0	Sealed
Bath-FF	1	Exhaust Fans	350	Unsealed
Bedroom 2-FF	7	Downlights - LED	0	Sealed
Bedroom 3-FF	7	Downlights - LED	0	Sealed

Ceiling fans

Quantity	Diameter [mm]
1	1200
1	1200
1	1200
1	1200
1	1200
	Quantity 1 1 1 1 1 1

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Location	Quantity	Diameter [mm]	_
Bedroom 3-FF	1	1200	

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.67	Dark

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^2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

Appliance/ system type	Lo	cation F	Fuel type	eff	inimum ïciency/ formance		mended acity
No Data Available							
Heating system							
Appliance/ system type	Lo	cation F	Fuel type	eff	inimum iciency/ formance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							



Pool/spa equipment

Appliance/ system type	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available			

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity
No Data Available		

Battery Schedule

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

AFRC	Australian Fenestration Rating Council
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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.
COP	Coefficient of performance
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.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	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 – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
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 airgap 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.
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.
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.
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 Regulator (CER)
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 or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
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	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)