Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011886272

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

Property

Address

Lot/DP NCC class* Floor/all Floors Type

Unit Lot 1, 10 Lockwood Avenue, FRENCHS FOREST, NSW, 2086 Lot 14 DP 225454 1a G of 2 floors New Home

Plans

Main plan Prepared by n/a n/a

Construction and environment

Assessed floor area [m2]*

Conditioned*	212.2
Unconditioned*	17.4
Total	248.9
Garage	19.2

Exposure type Suburban

NatHERS climate zone 56 Mascot (Sydney Airport)



Accredited assessor

Zoran Cvetkovski Name **Business name** Email Phone Accreditation No. Assessor Accrediting Organisation **Design Matters National**

Declaration of interest

NCC Requirements

NCC provisions Strate/Territory variation Sustainability- Z sustainability-z@outlook.com 0414273176 DMN/13/1641

Declaration not completed

Volume Two

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

The more stars the more energy efficient

NATIONWIDE

29.6 MJ/m²

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

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

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	15.7	13.9
Load limits	N/A	N/A

Features determining load limits

EL	
Floor Type	CSOG
(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=AzFdSfOKM When using either link ensure you are visiting hstar.com.au



* Refer to glossary



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



* Refer to glossary.

7 Star Rating as of 29 Apr 2025

Certificate check	Approva	l 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.	Assesso	Consent Surveyo	Builder o	Consent Surveyo	Occupar
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check	<u> </u>	0		0	<u> </u>
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
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					

7 Star Rating as of 29 Apr 2025

HOU	SE .

					HOUSE	
	Approva	al Stage	e Construction Stage			
Certificate check	ecked	hority/ ecked	ked	hority ecked	Other	
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	ERS asse	essment)		
Thermal bridging						
Does the dwelling meet the NCC requirement for thermal bridging?						
Insulation installation method				1		
Has the insulation been installed according to the NCC requirements?						
Building sealing				1		
Does the dwelling meet the NCC requirements for Building Sealing?						
Whole of Home performance check (not applicable if a Whole of Hom	e perform	ance asse	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	ment)			
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	ñ		ñ	Ā.		
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

Zone Type	Area [m ²]	
Garage	19.23	
Daytime	12.96	
Daytime	10.06	
Bedroom	13.52	
Unconditioned	5.04	
Daytime	12.26	
Kitchen/Living	54.78	
Daytime	2.65	
Daytime	4.41	
Daytime	5.45	
Daytime	13.35	
Daytime	15.84	
Bedroom	27.01	
Nighttime	5.38	
	Garage Daytime Daytime Bedroom Unconditioned Unconditioned Daytime Kitchen/Living Daytime Daytime Daytime Daytime Daytime Bedroom	

* Refer to glossary.

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Room	Zone Type	Area [m ²]
Ens/M.Bed-FF	Nighttime	7.62
Bath-FF	Unconditioned	12.41
Bedroom 2-FF	Bedroom	17.76
Bedroom 3-FF	Bedroom	18.29

Window and glazed door type and performance

Default windows*

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

Custom windows*

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

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	W02	2100	2100	Awning	30	SW	No
Guest Bed-GF	AWS-007-001-001	W03	900	1800	Awning	60	NW	No
Bath-GF	AWS-007-001-001	W04	900	900	Awning	90	NW	No
Home Cinema-GF	AWS-007-001-001	W05	900	2100	Awning	60	NW	No
Ktch/Fam/Din-GF	AWS-007-001-001	W06	2100	900	Awning	60	NW	No
Ktch/Fam/Din-GF	AWS-007-001-001	W07	2100	900	Awning	60	NW	No
Ktch/Fam/Din-GF	AWS-011-001-001	DE01	2400	2650	Sliding	60	NE	No
Ktch/Fam/Din-GF	AWS-011-001-001	DE02	2400	2500	Sliding	60	NW	No
Ktch/Fam/Din-GF	AWS-066-007-001	W08	2400	2300	Fixed	00	NE	No
M.Bedroom-FF	AWS-007-001-001	W21	600	2400	Awning	60	NW	No
M.Bedroom-FF	AWS-007-001-001	W22	1800	2400	Awning	10	NE	No
Ens/M.Bed-FF	AWS-007-001-001	W23	900	750	Awning	10	NE	No

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Location	Window ID	Window no.	Height [mm]	Width Window [mm] type	Opening %	Orientation	Window shading device*
Bath-FF	AWS-007-001-001	W20	1200	1200 Awning	10	NW	No
Bedroom 2-FF	AWS-007-001-001	W18	1500	2125 Awning	30	SW	No
Bedroom 2-FF	AWS-007-001-001	W19	600	2400 Awning	60	NW	No
Bedroom 3-FF	AWS-007-001-001	W17	1500	2125 Awning	30	SW	No

Roof window* type and performance value

Default roof windows*

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

Custom roof windows*

Window ID	Window	Maximum	SUCC*	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]	Orientation	Outdoor shade	Indoor shade
Ktch/Fam/Din-GF	VEL-011-01 W	S06	0	1200	600	SE	Yes	Yes
Ktch/Fam/Din-GF	VEL-011-01 W	S07	0	1200	600	SE	Yes	Yes
Stairs/Void-FF	VEL-011-01 W	S02	0	1200	1200	SE	Yes	Yes
Study-FF	VEL-011-01 W	W01	0	1935	1275	SE	Yes	Yes
Ens/M.Bed-FF	VEL-011-01 W	S03	0	900	600	SE	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 ²]	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	0.27	Anti-glare foil with bulk no gap R2.5	No
EW-4 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	NW	100	No
Guest Bed-GF	EW-3	2800	1000	SE	13400	No
Guest Bed-GF	EW-3	2800	3400	SW	1100	Yes
Guest Bed-GF	EW-3	2800	4100	NW	100	No
Guest Bed-GF	EW-3	2800	400	NE	100	No
Bath-GF	EW-3	2800	1590	NW	100	No
Home Cinema-GF	EW-3	2800	3795	NW	100	Yes
Home Cinema-GF	EW-3	2800	900	NE	100	No
Ktch/Fam/Din-GF	EW-3	2800	5100	NW	100	Yes
Ktch/Fam/Din-GF	EW-3	2800	3600	NE	4800	No
Ktch/Fam/Din-GF	EW-3	2800	412	NE	4899	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-3	2800	447	NW	4696	No
Ktch/Fam/Din-GF	EW-3	2800	3300	NW	4300	No
Ktch/Fam/Din-GF	EW-3	2800	3600	NE	100	No
Ktch/Fam/Din-GF	EW-3	2800	900	SW	100	No
Stairs/Void-FF	EW-4	2600	2790	NW	100	No
M.Bedroom-FF	EW-4	2600	5095	NW	100	No
M.Bedroom-FF	EW-4	2600	4895	NE	100	No
Ens/M.Bed-FF	EW-4	2600	1995	NE	100	No
Bath-FF	EW-4	2600	4190	NW	100	No
Bedroom 2-FF	EW-4	2600	3395	SW	900	Yes
Bedroom 2-FF	EW-4	2600	5295	NW	100	No
Bedroom 3-FF	EW-4	2600	3495	SW	900	Yes

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	8.96	Bulk Insulation, No Air Gap R2.5
IW-002	Cavity brick, plasterboard	84.44	No Insulation
IW-003	Timber Stud Frame, Direct Fix Plasterboard	201.89	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage-GF	Waffle pod slab 300 mm 85mm	19.11	None	Waffle Pod 300mm	Bare
Entry-GF	Waffle pod slab 300 mm 85mm	12.96	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	13.52	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Bath-GF	Waffle pod slab 300 mm 85mm	5.04	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Home Cinema-GF	Waffle pod slab 300 mm 85mm	12.26	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Ktch/Fam/Din-GF	Waffle pod slab 300 mm 85mm	54.78	None	Waffle Pod 300mm	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
WC-GF	Waffle pod slab 300 mm 85mm	2.65	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Pantry-GF	Waffle pod slab 300 mm 85mm	4.41	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	0.88		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	5.68		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Study-FF / Entry-GF	AAC Timber Framed Above Plasterboard 75mm	3.87		No Insulation	Cork Tiles or Parquetry 8mm
Study-FF / Ldry-GF	AAC Timber Framed Above Plasterboard 75mm	5.35		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 / WC-GF	AAC Timber Framed Above Plasterboard 75mm	0.35		No Insulation	Cork Tiles or Parquetry 8mm
WIR/M.Bed-FF / Pantry- GF	AAC Timber Framed Above Plasterboard 75mm	4.40		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	2.47		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Bath-GF	AAC Timber Framed Above Plasterboard 75mm	0.59		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Home Cinema-GF	AAC Timber Framed Above Plasterboard 75mm	8.69		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Entry- GF	AAC Timber Framed Above Plasterboard 75mm	5.21		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Guest Bed-GF	AAC Timber Framed Above Plasterboard 75mm	8.10		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Bath- GF	AAC Timber Framed Above Plasterboard 75mm	2.62		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF	Suspended AAC (75mm) Timber Frame 75mm	1.04	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
Bedroom 3-FF / Garage GF	- AAC Timber Framed Above Plasterboard 75mm	13.49		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm

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Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
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	3.24	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-GF	Plasterboard on Timber	Bulk Insulation R5	
Bath-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*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Entry-GF	5	Downlights - LED	0	Sealed
Stairs-GF	1	Downlights - LED	0	Sealed
Guest Bed-GF	5	Downlights - LED	0	Sealed
Bath-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
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	Unsealed
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

Location	Quantity	Diameter [mm]
M.Bedroom-FF	1	1200
Bedroom 2-FF	1	1200

Roof type

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

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Construction	Added insulation [R-value]	Solar absorptance	Roof shade
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/m² is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

Appliance/ system type	Lo	Minimum Location Fuel type efficiency/ performance		Recommended capacity			
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 e /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	cy/	Recomm capad	
No Data Available							
Onsite Renewabl	e Energy Sch	edule					
System Type	Orientation		Syst	em Size O	r 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

Annual energy load The predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Assessed floor area the floor area in the design documents. Colling penetrations features that require a penetration to the celling, including downlights, vents, exhaust fans, range hoods, chinneves and flues. Exhausta fans trange hoods, chinneves and flues. 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 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 is your homes rating without solar or batteries. Entrance door these signify ventiliation benefits in the modelling user, the environment and energy networks (as defined in the ABCE Housing Provisions Standard). Entrance door these signify ventiliation benefits in the modelling out on timine and exact and the set opport exact adaptions below 100 (nons). Exposure category – exposed terrain with numerous, closely paced obstructions below 100 (nons). Exposure category – exposed terrain with numerous, closely paced obstructions below 100 (nons). Exposure c	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. Coiling penetrations Eastures that require a penetration to the coiling, including downlights, wents, exhaust fans, range hoods, chimreys and flues. The object of the coiling of winning, e.g. celling fans, pendart lights, and the coiling of winning, e.g. celling fans, pendart lights, and the coiling of winning, e.g. celling fans, pendart lights, and welling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include gargles. Custom windows windows light in watterRS assessment. Note, this may not be consistent with the floor area in welling with a light and the representative of a specific type of window product and whose properties have been derived by statistical methods. EER Encrypt Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input. Energy value The site 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 ASCB housing Provisions Standard). Exposure category - popen see exposure categories below. Exposure category - popen terrain with numerous, closely spaced obstructions several floor, accurated in dustard areas. Provisional shading feature provides shading. In the process of the satholys.		
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 circumstations it will include garages. Custom windows Expected in the control of the		the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the
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Continuination circumstances it will include garages. Inclusion Inclusion Custom windows windows tisted in NaHERS 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 product provide that are representative of a specific type of window product and whose properties have been derived by statistical product provide the set of the	COP	Coefficient of performance
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Provisional value 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 SHCC) 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 is not limited to, materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, buy 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 stirps U-value	Opening percentage	
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