Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0009285081

Generated on 07 Mar 2024 using BERS Pro v5.1.7 (3.22)

Property

Address Unit A, 1070 Canterbury Road,

ROSELANDS, NSW, 2196

Lot 1 DP 35202

NCC class* 1

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* 156.1 Suburban

Unconditioned* 7.7

Total 163.8

Garage 0.0

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

30.0 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	13.6	16.3
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=LHNyUEPtW. 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

No

NA - Not Applicable





Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

7 Star Rating as of 07 Mar 2024

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Certificate check	Approva	I Stage	Construe Stage	ction	
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	Builder	Conser	Occupa
Genuine certificate check		1	1	1	
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 highrise 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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	Approval Stage		Construction Stage		
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	ıded in tl	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	nce asses	ssment is r	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	assessr	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					
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. All downlights: IC-F /IC-4/ (insu	lation cove	ered/			
including the control gears/) rated as per AS/NZS standard 60598 and IP (see	ealed) rate	d as per B	S EN		_
60529:1992, European IEC 60509:1989.					



Rated with ceiling fans (1200mm) throughout (as shown on the plans).

All bathrooms with ventilation opening of less than 5% are rated with mechanical ventilation.

Rated with waffle pod slab (175mm)/6.2 and 6.3 as per the NatHERS Technical Note 2023.

Rated with floor covering as specified by the client.

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

custom colours tool).

Rated with reduced insulation of R2.5 near the eave in the distance of 580mm (as per the housing provision note 10.8).

Rated with AWS windows.

W109 is rated with 30% opening percentage.

In the absence of data in BERS for the sliding windows designated as AWS-093-02 ComfortEDGE Series 753 Uv 2.7 SHGC 0.53,

all sliding windows are categorized under AWS-071-25. Therefore, the code AWS-071-25 for fixed windows should be

interpreted as applicable to sliding windows.

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]
F.Living-GF	Living	12.28
Bed 4-GF	Bedroom	13.55
Bath-FF	Unconditioned	4.74
Laundry-GF	Unconditioned	2.96
Pantry-GF	Daytime	3.49
Ktch/Din/Fam-GF	Kitchen/Living	42.8
Stairs/Hall-GF	Daytime	8.58
M.Bed-FF	Bedroom	17.21
WIR/M.Bed-FF	Nighttime	2.74
Bath/M.Bed-FF	Nighttime	3.53
Bed 2-FF	Bedroom	10.81
Bath-FF	Unconditioned	6.4
Bed 4-FF	Bedroom	9.96

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Room	Zone Type	Area [m²]
Bed 3-FF	Bedroom	13.55

Room	Zone Type	Area [m²]
Bed 3-FF	Bedroom	13.55
Rumpus/Stairs-FF	Living	19.11
Hall-FF	Daytime	4.61

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
window iD	Description	U-value*	alue* SHGC lower limit S		SHGC upper limit		
TIM-001-03 W	Timber A SG High Solar Gain Low-E	4.3	0.42	0.40	0.44		

Custom windows*

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution to SHGC lower limit	
AWS-003- 86 A	502/504 Al Sliding Window DG 4-12-4ClimaTech	3.3	0.51	0.48	0.54
AWS-067- 09 A	RES SERIES 516 FIXED WINDOW DG 1_LightBridge_ClrS0_4-12-4	2.1	0.53	0.50	0.56
AWS-071- 25 A	RES SERIES 616 FIXED WINDOW DG FGIOptEmaClr_4mm_16Ar_4mm	2.7	0.53	0.50	0.56
AWS-088- 04 A	Series 755 Comfort Edge Awning Window DG AGG Is SI EA 4/12Ar/4	2.6	0.57	0.54	0.60
AWS-089- 46 A	RES SERIES 704 FLUSH SLIDING DOOR DG LightBridge_ClrS0_5-12-5	2.2	0.56	0.53	0.59

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
F.Living-GF	AWS-071-25 A	W09	900	2000	Sliding	45	E	No
F.Living-GF	AWS-088-04 A	W01	1800	800	Awning	60	N	No
F.Living-GF	TIM-001-03 W	D01	1200	1020	Casement	90	N	No
Bed 4-GF	AWS-071-25 A	W03	900	2000	Sliding	45	W	No
Bed 4-GF	AWS-071-25 A	W02	1800	2000	Sliding	30	N	No
Bath-FF	AWS-003-86 A	W08	600	1000	Sliding	45	E	No
Pantry-GF	AWS-067-09 A	W07	600	1500	Fixed	00	E	No
Ktch/Din/Fam-GF	AWS-067-09 A	W06	600	2000	Fixed	00	E	No
Ktch/Din/Fam-GF	AWS-089-46 A	D09	2400	2000	Sliding	60	S	No
Ktch/Din/Fam-GF	AWS-003-86 A	W05	600	2000	Sliding	45	W	No

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Ktch/Din/Fam-GF	AWS-089-46 A	D08	2400	2500	Sliding	60	W	No
Ktch/Din/Fam-GF	AWS-003-86 A	W04	1500	2500	Sliding	23	W	No
M.Bed-FF	AWS-071-25 A	W108	1800	2500	Sliding	10	S	No
M.Bed-FF	AWS-071-25 A	W107	1800	2500	Sliding	10	W	No
Bath/M.Bed-FF	AWS-003-86 A	W106	600	1000	Sliding	45	W	No
Bed 2-FF	AWS-071-25 A	W105	1800	1500	Sliding	10	W	No
Bath-FF	AWS-003-86 A	W104	600	1000	Sliding	45	W	No
Bed 4-FF	AWS-089-46 A	D101	2400	2000	Sliding	60	N	No
Bed 3-FF	AWS-071-25 A	W102	900	2000	Sliding	10	W	No
Bed 3-FF	AWS-071-25 A	W101	1800	2000	Sliding	10	N	No
Rumpus/Stairs-FF	AWS-071-25 A	W110	900	2500	Sliding	10	Е	No
Rumpus/Stairs-FF	AWS-067-09 A	W103	2000	1200	Fixed	00	W	No

Roof window* type and performance value

AWS-071-25 A

W109

Default roof windows*

Hall-FF

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow iD	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
No Data Avail	able				

600

2500 Sliding

30

Ε

No

Custom roof windows*

Window ID	Window	Maximum	CHCC*	Substitution tolerance ranges		
willdow iD	Description	U-value*	SHGC* -	SHGC lower limit	SHGC upper limit	
		-		-		

No Data Available

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm] Orientation	Outdoor shade	Indoor shade	
No Data Avai		110.	70	[]	Įj	Siludo	Silado	

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		



Skylight* schedule

Skylight Skylight Skylight Area Outdoor shaft length Location Orientation Diffuser ID No. [m²] shade [mm]

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
F.Living-GF	1140	1020	90	N
Laundry-GF	2340	820	90	E

External wall type

Wall	Wall	Solar V	Vall shade	Bulk insulation	Reflective
ID	type	absorptance [colour]	[R-value]	wall wrap*
EW-1	AAC Timber Stud Frame on Battens	0.16		Anti-glare foil with bulk no 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]
F.Living-GF	EW-1	2800	4195	Е	100	No
F.Living-GF	EW-1	2800	2995	N	2000	Yes
Bed 4-GF	EW-1	2800	500	S	100	No
Bed 4-GF	EW-1	2800	4200	W	100	No
Bed 4-GF	EW-1	2800	3295	N	100	Yes
Bath-FF	EW-1	2800	2590	E	100	No
Laundry-GF	EW-1	2800	1590	E	100	No
Pantry-GF	EW-1	2800	1890	E	100	No
Ktch/Din/Fam-GF	EW-1	2800	7795	E	100	No
Ktch/Din/Fam-GF	EW-1	2800	3200	S	2500	Yes
Ktch/Din/Fam-GF	EW-1	2801	400	S	100	No
Ktch/Din/Fam-GF	EW-1	2800	4500	W	100	No
Ktch/Din/Fam-GF	EW-1	2800	900	S	100	No
Ktch/Din/Fam-GF	EW-1	2800	3300	W	700	No
Ktch/Din/Fam-GF	EW-1	2800	600	S	3400	No
Ktch/Din/Fam-GF	EW-1	2800	3795	W	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]	
Stairs/Hall-GF	EW-1	2800	700	S	100	No	
Stairs/Hall-GF	EW-1	2800	2295	W	100	No	
M.Bed-FF	EW-1	2800	5495	Е	100	No	
M.Bed-FF	EW-1	2800	3600	S	100	No	
M.Bed-FF	EW-1	2800	4495	W	100	No	
Bath/M.Bed-FF	EW-1	2800	900	S	100	No	
Bath/M.Bed-FF	EW-1	2800	1895	W	100	No	
Bed 2-FF	EW-1	2800	1395	W	100	No	
Bed 2-FF	EW-1	2800	600	S	100	No	
Bed 2-FF	EW-1	2800	1695	W	100	Yes	
Bath-FF	EW-1	2800	2090	W	100	No	
Bed 4-FF	EW-1	2800	3595	Е	100	No	
Bed 4-FF	EW-1	2800	2995	N	2000	Yes	
Bed 3-FF	EW-1	2800	500	S	100	No	
Bed 3-FF	EW-1	2800	4200	W	100	No	
Bed 3-FF	EW-1	2800	3295	N	700	Yes	
Rumpus/Stairs-FF	EW-1	2800	4990	Е	100	No	
Rumpus/Stairs-FF	EW-1	2800	700	S	100	No	
Rumpus/Stairs-FF	EW-1	2800	2295	W	100	No	
Hall-FF	EW-1	2800	3990	E	100	No	

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	162.12	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
F.Living-GF	Waffle pod slab 225 mm 85mm	12.28	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bed 4-GF	Waffle pod slab 225 mm 85mm	13.55	None	Waffle Pod 225mm	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bath-FF	Waffle pod slab 225 mm 85mm	4.74	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Laundry-GF	Waffle pod slab 225 mm 85mm	2.96	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Pantry-GF	Waffle pod slab 225 mm 85mm	3.49	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Ktch/Din/Fam-GF	Waffle pod slab 225 mm 85mm	42.80	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Stairs/Hall-GF	Waffle pod slab 225 mm 85mm	8.58	None	Waffle Pod 225mm	Ceramic Tiles 8mm
M.Bed-FF / Ktch/Din/Fam-GF	Timber Framed Timber Above Plasterboard 19mm	17.21		No Insulation	Cork Tiles or Parquetry 8mm
WIR/M.Bed-FF / Ktch/Din/Fam-GF	Timber Framed Timber Above Plasterboard 19mm	2.74		No Insulation	Cork Tiles or Parquetry 8mm
Bath/M.Bed-FF / Ktch/Din/Fam-GF	Timber Framed Timber Above Plasterboard 19mm	3.53		No Insulation	Ceramic Tiles 8mm
Bed 2-FF / Pantry-GF	Timber Framed Timber Above Plasterboard 19mm	1.21		No Insulation	Cork Tiles or Parquetry 8mm
Bed 2-FF / Ktch/Din/Fam-GF	Timber Framed Timber Above Plasterboard 19mm	9.63		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Ktch/Din/Fam-GF	· Timber Framed Timber Above Plasterboard 19mm	6.39		No Insulation	Ceramic Tiles 8mm
Bed 4-FF / F.Living-GF	Timber Framed Timber Above Plasterboard 19mm	9.97		No Insulation	Cork Tiles or Parquetry 8mm
Bed 3-FF / Bed 4-GF	Timber Framed Timber Above Plasterboard 19mm	13.55		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus/Stairs-FF / F.Living-GF	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus/Stairs-FF / Bath-FF	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus/Stairs-FF / Laundry-GF	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus/Stairs-FF / Stairs/Hall-GF	Timber Framed Timber Above Plasterboard 19mm	2.76		No Insulation	Cork Tiles or Parquetry 8mm
Hall-FF / Pantry-GF	Timber Framed Timber Above Plasterboard 19mm	2.01		No Insulation	Cork Tiles or Parquetry 8mm
Hall-FF / Ktch/Din/Fam- GF	Timber Framed Timber Above Plasterboard 19mm	2.66		No Insulation	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
F.Living-GF	Timber Framed Timber Above Plasterboard	No Insulation	
Bed 4-GF	Timber Framed Timber Above Plasterboard	No Insulation	

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bath-FF	Timber Framed Timber Above Plasterboard	No Insulation	
Laundry-GF	Timber Framed Timber Above Plasterboard	No Insulation	
Pantry-GF	Timber Framed Timber Above Plasterboard	No Insulation	
Ktch/Din/Fam-GF	Timber Framed Timber Above Plasterboard	No Insulation	
Stairs/Hall-GF	Timber Framed Timber Above Plasterboard	No Insulation	
M.Bed-FF	Plasterboard on Timber	Bulk Insulation R5	
M.Bed-FF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/M.Bed-FF	Plasterboard on Timber	Bulk Insulation R5	
Bath/M.Bed-FF	Plasterboard on Timber	Bulk Insulation R5	
Bed 2-FF	Plasterboard on Timber	Bulk Insulation R5	
Bath-FF	Plasterboard on Timber	Bulk Insulation R5	
Bed 4-FF	Plasterboard on Timber	Bulk Insulation R5	
Bed 4-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 3-FF	Plasterboard on Timber	Bulk Insulation R5	
Rumpus/Stairs-FF	Plasterboard on Timber	Bulk Insulation R5	
Rumpus/Stairs-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Hall-FF	Plasterboard on Timber	Bulk Insulation R5	

Ceiling penetrations*

Plasterboard on Timber

Hall-FF

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
F.Living-GF	5	Downlights - LED	0	Sealed
Bed 4-GF	5	Downlights - LED	0	Sealed
Bath-FF	1	Downlights - LED	0	Sealed
Laundry-GF	1	Downlights - LED	0	Sealed
Pantry-GF	1	Downlights - LED	0	Sealed
Ktch/Din/Fam-GF	17	Downlights - LED	0	Sealed
Ktch/Din/Fam-GF	1	Exhaust Fans	300	Sealed
Stairs/Hall-GF	1	Downlights - LED	0	Sealed
M.Bed-FF	7	Downlights - LED	0	Sealed
WIR/M.Bed-FF	1	Downlights - LED	0	Sealed
Bath/M.Bed-FF	1	Downlights - LED	0	Sealed

Bulk Insulation R2.5

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bed 2-FF	4	Downlights - LED	0	Sealed
Bath-FF	2	Downlights - LED	0	Sealed
Bath-FF	1	Exhaust Fans	300	Sealed
Bed 4-FF	4	Downlights - LED	0	Sealed
Bed 3-FF	5	Downlights - LED	0	Sealed
Rumpus/Stairs-FF	8	Downlights - LED	0	Sealed
Hall-FF	1	Downlights - LED	0	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
F.Living-GF	1	1200
Ktch/Din/Fam-GF	1	1200
M.Bed-FF	1	1200
Bed 2-FF	1	1200
Bed 4-FF	1	1200
Bed 3-FF	1	1200
Rumpus/Stairs-FF	1	1200

Roof type

Construction	Added insulation [R-value]	Solar absorptance Roof shade[colour]
Corrugated Iron Timber Frame	e Bulk, Reflective Side Down, No Air Gap Above R1.3	0.333402352941176 Light
Corrugated Iron Timber Frame	e Bulk, Reflective Side Down, No Air Gap Above R1.8	0.33 Light

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	Minimum Location Fuel type efficiency/ performance		Recommended capacity				
No Data Available							
Heating system							
Appliance/ system type	Loc	cation F	uel type	effi	nimum ciency/ ormance		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		Minimur efficienc performar	:y/	Recomm capac	
No Data Available				-			
Onsite Renewable	e Energy Sch	edule					
System Type	Orientation		Syst	em Size Or	Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Bat	ttery 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.
	the floor area modelled in the software for the purpose of the NathErsS assessment. Note, this may not be consistent with the
Assessed floor area	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)