

Nationwide House Energy Rating Scheme®

NatHERS® Certificate No. #HR-XFW4ZH-01

Thermal performance
star rating

Generated on 15 Jan 2025 using Hero 4.1 (Chenath v3.23)

Property

Address 29 Greenacre Road, Greenacre, NSW,
2190

Lot/DP 12/223975

NCC Class* 1a

Floor/all Floors 1 of 3 floors

Type New

Plans

Main Plan 2449/D-10.12.24

Prepared by JE

Construction and environment

Assessed floor area (m²)*	Exposure Type
Conditioned* 653.3	Suburban
Unconditioned* 103.0	NatHERS climate zone
Total 996.2	56 - Mascot AMO
Garage 239.9	



Accredited assessor

Name Ioannis Fragkoulidis

Business name AENEC-Trading as Wide Spectrum Pty Ltd

Email yanni.aenec@gmail.com

Phone +61 452648288

Accreditation No. 10002

Assessor Accrediting Organisation HERA

Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2

State/Territory variation Yes

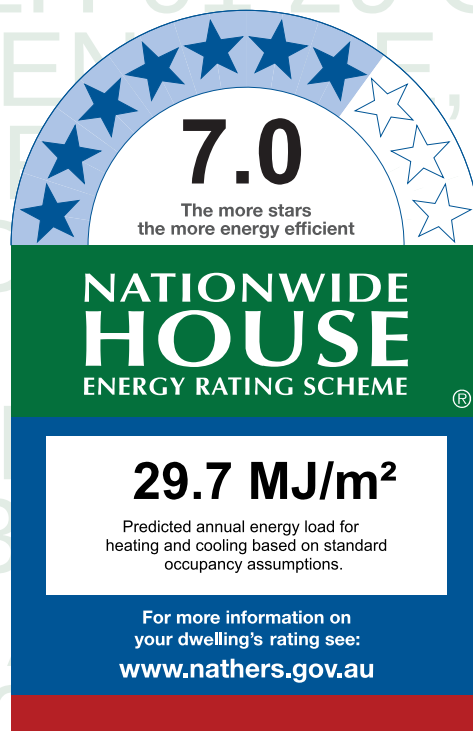
National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J2D2(2)(a) and (3) 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 (MJ/m²)

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	21.8	8.0
Load limits	25	18

Features determining load limits

Floor type	
(lowest conditioned area)	CSOG
NCC climate zone 1 or 2	N
Outdoor living area	N
Outdoor living area ceiling fan N	

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

<http://www.hero-software.com.au/pdf/HR-XFW4ZH-01>.

When using either link,
ensure you are visiting
<http://www.hero-software.com.au>



* Refer to glossary.

About the ratings

Thermal performance rating

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

Whole of Home performance rating

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

Heating and 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: 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

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar.

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Certificate check

The checklist covers important items impacting the dwelling's ratings.

It is recommended that the accuracy of the whole certificate is checked.

Note: The boxes indicate when and who should check each item.

It is not mandatory to complete this checklist.

Approval stage		Construction stage		
Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other

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 on the NatHERS-stamped plans?

☐☐☐☐☐

* Refer to glossary.

Certificate check

Continued

Approval stage		Construction stage		
Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other

Additional NCC requirements for thermal performance (not included in the NatHERS assessment)

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 Home assessment is not conducted)

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 as 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 assessment)

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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional Notes

Default ceiling penetration density calculated as lighting plan has not been provided. All openable windows are assumed to be fully openable as per NCC 2022 > Volume 2 > H5P2 (fall prevention barriers) are in place. North Pointer shown on the plans has been calculated to be the True North. No trees have been modelled as no relevant information has been provided. For all insulation installed the rating called out in the NatHERS is the primary factor and not its description. If these are not in place then this NatHERS must be revised.

Room schedule

Room	Zone Type	Area (m ²)
GARAGE	Garage	239.86
LIFT BS	Day Time	1.70
LIFT GF	Day Time	1.70
LIFT GF	Day Time	1.70
MECH ROOM	Unconditioned	30.96
STORAGE BS	Unconditioned	6.58
COMMS	Unconditioned	7.10
PLANT ROOM	Unconditioned	30.58
POOL EQUIP	Unconditioned	6.61
BATTERY ROOM	Unconditioned	6.33
HALL/STAIRS BS	Day Time	17.68
ENTRY	Day Time	38.48
HALL/STAIRS GF	Day Time	36.16
STORE GF	Day Time	2.13
KLD	Kitchen/Living	132.54
BUTLERS 1	Day Time	8.17
COOL ROOM	Day Time	5.67
BUTLERS 2	Day Time	8.19
BATHROOM GF	Unconditioned	5.34
FORMAL LIVING	Living	29.59
LAUNDRY	Unconditioned	9.52
GUEST BED	Bedroom	25.53



Room schedule

Room	Zone Type	Area (m²)
ENSUITE GB	Night Time	6.93
WIR GB	Night Time	7.08
TOY ROOM	Day Time	16.38
CIRCULATION 1	Day Time	52.97
CIRCULATION 2	Day Time	70.24
RUMPUS	Living	27.52
OFFICE	Day Time	28.94
BED 01	Bedroom	16.46
WIR 1	Night Time	4.00
ENSUITE 1	Night Time	6.52
BED 02	Bedroom	16.46
WIR 2	Night Time	4.98
ENSUITE 2	Night Time	4.90
MASTER BEDROOM	Bedroom	34.65
WIR MB	Day Time	26.92
ENS MB	Night Time	17.20
BED 03	Bedroom	16.50
BED 04	Bedroom	19.33
WC FF	Day Time	4.90
WIR 4	Night Time	3.83
ENSUITE 4	Night Time	4.48
ENSUITE 3	Night Time	5.18
WIR 3	Night Time	5.90

Window and glazed door *type and performance*

Default* windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
ATB-005-03 B	Al Thermally Broken A DG Argon Fill High Solar Gain low-E - Clear	2.91	0.44	0.42	0.46
ATB-006-03 B	Al Thermally Broken B DG Argon Fill High Solar Gain low-E - Clear	2.90	0.51	0.48	0.54
HBFW-020-045	Housing Thermally Broken Aluminium Fixed Window Double Glazed	1.88	0.46	0.44	0.48

Custom* windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
A&L-108-015	A&L ComfortSmart Thermally Broken Sliding Door	1.89	0.49	0.47	0.52

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
BATHROOM GF	ATB-006-03 B	W04	600	1700	Sliding	45	W	None
BED 01	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
BED 02	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
BED 03	ATB-006-03 B	W01	900	2800	Sliding	45	E	None
BED 04	ATB-006-03 B	W01	900	2800	Sliding	45	E	None
BUTLERS 1	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
BUTLERS 2	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
CIRCULATION 1	HBFW-020-045	W10	2700	2600	Fixed	0	S	None
CIRCULATION 2	ATB-006-03 B	W10	2700	2600	Fixed	0	N	None
CIRCULATION 2	HBFW-020-045	W11	2700	3360	Fixed	0	W	None
CIRCULATION 2	HBFW-020-045	W11	2700	3360	Fixed	0	E	None

* Refer to glossary.

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
CIRCULATION 2	ATB-006-03 B	W09-1	600	1500	Fixed	0	S	None
CIRCULATION 2	ATB-005-03 B	W09-2	1800	1500	Hinged Door	45	S	None
ENS MB	ATB-005-03 B	W08	2400	1000	Awning	72	N	None
ENS MB	ATB-006-03 B	W02	1200	800	Double Hung	45	E	None
ENSUITE 1	ATB-006-03 B	W02	1200	800	Double Hung	45	W	None
ENSUITE 2	ATB-006-03 B	W02	1200	800	Double Hung	45	W	None
ENSUITE 3	ATB-006-03 B	W02	1200	800	Double Hung	45	E	None
ENSUITE 4	ATB-006-03 B	W02	1200	800	Double Hung	45	E	None
ENSUITE GB	ATB-006-03 B	W05	1200	1500	Sliding	45	E	None
ENTRY	ATB-005-03 B	ED01	3000	1800	Hinged Door	90	S	None
FORMAL LIVING	ATB-005-03 B	DD02	2750	1400	Hinged Door	90	S	None
FORMAL LIVING	ATB-005-03 B	DD02	2750	1400	Hinged Door	45	S	None
FORMAL LIVING	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
GUEST BED	ATB-005-03 B	DD02	2750	1400	Hinged Door	45	S	None
GUEST BED	ATB-005-03 B	DD02	2750	1400	Hinged Door	45	S	None
HALL/STAIRS GF	ATB-005-03 B	W03	1600	1600	Awning	60	W	None
HALL/STAIRS GF	A&L-108-015	SD02	2900	3260	Sliding Door	45	E	None
HALL/STAIRS GF	HBFW-020-045	W06	3000	2600	Fixed	0	N	None
HALL/STAIRS GF	A&L-108-015	SD02	2900	3260	Sliding Door	45	W	None
KLD	ATB-006-03 B	W06	3000	2600	Fixed	0	S	None
KLD	ATB-006-03 B	SD02	3000	3260	Sliding Door	60	N	None
KLD	ATB-006-03 B	SD04	3000	2650	Sliding Door	60	N	None
KLD	ATB-006-03 B	SD05	3000	5170	Sliding Door	60	N	None
KLD	ATB-006-03 B	W01	900	2800	Sliding	45	E	None
KLD	ATB-006-03 B	W01	900	2800	Sliding	45	E	None

* Refer to glossary.



Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
LAUNDRY	ATB-006-03 B	W02	1200	800	Double Hung	45	W	None
MASTER BEDROOM	ATB-005-03 B	DD05	2400	2000	Hinged Door	90	N	None
MASTER BEDROOM	ATB-005-03 B	W07	2400	1980	Awning	60	N	None
MASTER BEDROOM	ATB-005-03 B	W07	2400	1980	Awning	60	N	None
OFFICE	ATB-005-03 B	DD04	2400	1400	Hinged Door	90	S	None
OFFICE	ATB-005-03 B	DD04	2400	1400	Hinged Door	90	S	None
OFFICE	ATB-006-03 B	W01	900	2800	Sliding	45	W	None
RUMPUS	ATB-006-03 B	W01	900	2800	Sliding	45	E	None
RUMPUS	ATB-005-03 B	DD04	2400	1400	Hinged Door	90	S	None
RUMPUS	ATB-005-03 B	DD04	2400	1400	Hinged Door	90	S	None
TOY ROOM	ATB-006-03 B	W01	900	2800	Sliding	45	E	None
WIR MB	ATB-005-03 B	W08	2400	1000	Awning	72	N	None

Roof window *type and performance value*

Default* roof windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
None					

Custom* roof windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
None					

Roof window *schedule*

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orient-ation	Outdoor shade	Indoor shade
None								

Skylight *type and performance*

Skylight ID	Skylight description
-------------	----------------------

* Refer to glossary.

Skylight type and performance

Skylight ID	Skylight description
GEN-04-004a	Double-glazed Clear Skylight

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m ²)	Orientation	Outdoor shade	Diffuser	Shaft Reflectance
CIRCULATION 1	GEN-04-004a	SL04	600	15.28	W	None	No	80
ENS MB	GEN-04-004a	SL02	600	2.25	E	None	No	80
ENSUITE 1	GEN-04-004a	SL01	600	0.68	W	None	No	80
ENSUITE 2	GEN-04-004a	SL01	600	0.68	W	None	No	80
ENSUITE 4	GEN-04-004a	SL01	600	0.68	E	None	No	80
WIR MB	GEN-04-004a	SL03	600	3.84	S	None	No	80

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
BUTLERS 1	2400	820	90	N
GARAGE	2500	4200	0	S
LAUNDRY	2400	820	90	W
RUMPUS	2400	770	90	W

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
DBL-BRICK-110-50-110-RD	Double Brick - 110mm/50mmair/110mm Rendered both sides	0.25	Light (White)	2.40	No
DINCEL 200 BARE/RD-A	DINCEL 200mm BARE/RD	0.50	Medium	0.00	No
DINCEL 200 BARE/RD-B	DINCEL 200mm BARE/RD	0.25	Light (White)	0.00	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* projection (mm)	Vertical shading feature
BATHROOM GF	DBL-BRICK-110-50-110-RD	3000	2657	W	1063	Yes
BATTERY ROOM	DINCEL 200 BARE/RD-A	2700	2528	N		No
BED 01	DBL-BRICK-110-50-110-RD	2700	4000	W	461	Yes

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 02	DBL-BRICK-110-50-110-RD	2700	4001	W	461	Yes
BED 03	DBL-BRICK-110-50-110-RD	2700	3997	E	390	Yes
BED 04	DBL-BRICK-110-50-110-RD	2700	5712	E	391	Yes
BUTLERS 1	DBL-BRICK-110-50-110-RD	3000	3023	W		Yes
BUTLERS 1	DBL-BRICK-110-50-110-RD	3000	3167	N	7030	Yes
BUTLERS 2	DBL-BRICK-110-50-110-RD	3000	3040	W		Yes
BUTLERS 2	DBL-BRICK-110-50-110-RD	3000	1092	S	7439	Yes
CIRCULATION 1	DBL-BRICK-110-50-110-RD	2700	3183	S		Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	3183	N		Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	3821	W		Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	1415	E	3527	Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	1004	S		No
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	666	W	159	Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	3821	E		Yes
CIRCULATION 2	DBL-BRICK-110-50-110-RD	2700	3941	S	2541	Yes
COMMS	DINCEL 200 BARE/RD-A	2700	2756	W		No
COOL ROOM	DBL-BRICK-110-50-110-RD	3000	2362	W		Yes
ENS MB	DBL-BRICK-110-50-110-RD	2700	2413	N	1410	No
ENS MB	DBL-BRICK-110-50-110-RD	2700	6342	E	390	Yes
ENSUITE 1	DBL-BRICK-110-50-110-RD	2700	3379	W	461	Yes
ENSUITE 2	DBL-BRICK-110-50-110-RD	2700	2896	W	461	Yes
ENSUITE 3	DBL-BRICK-110-50-110-RD	2700	2768	E	389	Yes
ENSUITE 4	DBL-BRICK-110-50-110-RD	2700	2698	E	1510	Yes
ENSUITE GB	DBL-BRICK-110-50-110-RD	3000	1688	E		Yes
ENTRY	DBL-BRICK-110-50-110-RD	3000	1296	S		No

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orient-ation	Horizontal shading feature* projection (mm)	Vertical shading feature
ENTRY	DBL-BRICK-110-50-110-RD	3000	1243	S		No
ENTRY	DBL-BRICK-110-50-110-RD	3000	3418	S	2290	Yes
FORMAL LIVING	DBL-BRICK-110-50-110-RD	3000	1092	N	7424	Yes
FORMAL LIVING	DBL-BRICK-110-50-110-RD	3000	5203	S		Yes
FORMAL LIVING	DBL-BRICK-110-50-110-RD	3000	5932	W		Yes
FORMAL LIVING	DBL-BRICK-110-50-110-RD	3000	737	E		No
GARAGE	DINCEL 200 BARE/RD-A	2700	1092	S		No
GARAGE	DINCEL 200 BARE/RD-A	2700	4077	E		No
GARAGE	DINCEL 200 BARE/RD-A	2700	1092	N		No
GARAGE	DINCEL 200 BARE/RD-A	2700	6377	E		No
GARAGE	DINCEL 200 BARE/RD-B	2700	5462	S		Yes
GARAGE	DINCEL 200 BARE/RD-B	2700	901	E		Yes
GARAGE	DINCEL 200 BARE/RD-A	2700	5868	S		No
GARAGE	DINCEL 200 BARE/RD-A	2700	11330	N		No
GARAGE	DINCEL 200 BARE/RD-A	2700	10643	E		No
GUEST BED	DBL-BRICK-110-50-110-RD	3000	737	W		No
GUEST BED	DBL-BRICK-110-50-110-RD	3000	3861	E		Yes
GUEST BED	DBL-BRICK-110-50-110-RD	3000	5194	S		Yes
HALL/STAIRS BS	DINCEL 200 BARE/RD-A	2700	2299	W		No
HALL/STAIRS GF	DBL-BRICK-110-50-110-RD	3000	2307	W	1063	Yes
HALL/STAIRS GF	DBL-BRICK-110-50-110-RD	3000	3699	E		Yes
HALL/STAIRS GF	DBL-BRICK-110-50-110-RD	3000	3146	N		Yes
HALL/STAIRS GF	DBL-BRICK-110-50-110-RD	3000	3699	W		Yes
KLD	DBL-BRICK-110-50-110-RD	3000	3146	S		Yes
KLD	DBL-BRICK-110-50-110-RD	3000	13336	N	7030	Yes

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* projection (mm)	Vertical shading feature
KLD	DBL-BRICK-110-50-110-RD	3000	10504	E		Yes
KLD	DBL-BRICK-110-50-110-RD	3000	1093	S	3655	Yes
KLD	DBL-BRICK-110-50-110-RD	3000	151	WSW		Yes
LAUNDRY	DBL-BRICK-110-50-110-RD	3000	2620	W	1063	Yes
MASTER BEDROOM	DBL-BRICK-110-50-110-RD	2700	7685	N	1410	No
MECH ROOM	DINCEL 200 BARE/RD-A	2700	1105	N		No
MECH ROOM	DINCEL 200 BARE/RD-A	2700	5347	S		No
MECH ROOM	DINCEL 200 BARE/RD-A	2700	6059	W		No
MECH ROOM	DINCEL 200 BARE/RD-A	2700	737	E		No
OFFICE	DBL-BRICK-110-50-110-RD	2700	1105	N	22696	Yes
OFFICE	DBL-BRICK-110-50-110-RD	2700	5220	S	220	Yes
OFFICE	DBL-BRICK-110-50-110-RD	2700	5728	W	461	Yes
PLANT ROOM	DINCEL 200 BARE/RD-A	2700	6008	W		No
PLANT ROOM	DINCEL 200 BARE/RD-A	2700	1105	S		No
POOL EQUIP	DINCEL 200 BARE/RD-A	2700	2502	W		No
POOL EQUIP	DINCEL 200 BARE/RD-A	2700	2642	N		No
RUMPUS	DBL-BRICK-110-50-110-RD	2700	666	E	261	Yes
RUMPUS	DBL-BRICK-110-50-110-RD	2700	851	S		No
RUMPUS	DBL-BRICK-110-50-110-RD	2700	1146	W	3589	Yes
RUMPUS	DBL-BRICK-110-50-110-RD	2700	5055	E	406	Yes
RUMPUS	DBL-BRICK-110-50-110-RD	2700	5470	S	218	Yes
RUMPUS	DBL-BRICK-110-50-110-RD	2700	1092	N	23345	Yes
STORAGE BS	DINCEL 200 BARE/RD-A	2700	2553	W		No
TOY ROOM	DBL-BRICK-110-50-110-RD	3000	3994	E	1045	Yes
WIR GB	DBL-BRICK-110-50-110-RD	3000	2101	E		Yes

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* projection (mm)	Vertical shading feature
WIR GB	DBL-BRICK-110-50-110-RD	3000	1093	N	3682	Yes
WIR MB	DBL-BRICK-110-50-110-RD	2700	6541	W	461	Yes
WIR MB	DBL-BRICK-110-50-110-RD	2700	4115	N	1410	No

Internal wall *type*

Wall ID	Wall Type	Area (m ²)	Bulk insulation
DINCEL 200 BARE/RD	DINCEL 200mm BARE/RD	37.6	0.00
SB-RD	Single Brick wall - Rendered	546.3	0.00
SB-RD	Single Brick wall - Rendered	43.5	1.43

Floor *type*

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATHROOM GF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.3	N/A	6.00	Tile (8mm)
BATTERY ROOM	CSOG-200: Concrete Slab on Ground (200mm)	6.3	N/A	0.00	Exposed
BED 01	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	16.5	N/A	0.15	Timber (12mm)
BED 02	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	16.4	N/A	0.15	Timber (12mm)
BED 03	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	16.5	N/A	0.15	Timber (12mm)
BED 04	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	19.4	N/A	0.15	Timber (12mm)
BUTLERS 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	7.8	N/A	6.00	Tile (8mm)
BUTLERS 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	0.4	N/A	0.15	Tile (8mm)
BUTLERS 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	7.9	N/A	6.00	Tile (8mm)
BUTLERS 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	0.3	N/A	0.15	Tile (8mm)
CIRCULATION 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	53.0	N/A	0.15	Timber (12mm)
CIRCULATION 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	70.3	N/A	0.15	Timber (12mm)
COMMS	CSOG-200: Concrete Slab on Ground (200mm)	7.1	N/A	0.00	Exposed
COOL ROOM	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.7	N/A	6.00	Tile (8mm)

Floor type

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
ENS MB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	7.2	N/A	0.15	Tile (8mm)
ENS MB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	10.0	N/A	2.50	Tile (8mm)
ENSUITE 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	6.6	N/A	0.15	Tile (8mm)
ENSUITE 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.0	N/A	0.15	Tile (8mm)
ENSUITE 3	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.2	N/A	0.15	Tile (8mm)
ENSUITE 4	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	4.5	N/A	0.15	Tile (8mm)
ENSUITE GB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	6.9	N/A	6.00	Tile (8mm)
ENTRY	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	38.4	N/A	6.00	Tile (8mm)
ENTRY	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	0.2	N/A	0.15	Tile (8mm)
FORMAL LIVING	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	29.6	N/A	6.00	Tile (8mm)
GARAGE	CSOG-200: Concrete Slab on Ground (200mm)	239.9	N/A	0.00	Exposed
GUEST BED	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	17.3	N/A	6.00	Tile (8mm)
GUEST BED	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	7.1	N/A	2.50	Tile (8mm)
GUEST BED	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	1.1	N/A	0.15	Tile (8mm)
HALL/STAIRS BS	CSOG-200: Concrete Slab on Ground (200mm)	17.7	N/A	2.50	Exposed
HALL/STAIRS GF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	23.2	N/A	6.00	Tile (8mm)
HALL/STAIRS GF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	13.0	N/A	0.15	Tile (8mm)
KLD	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	128.3	N/A	6.00	Tile (8mm)
KLD	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	4.3	N/A	0.15	Tile (8mm)
LAUNDRY	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	6.4	N/A	6.00	Tile (8mm)
LAUNDRY	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	3.1	N/A	0.15	Tile (8mm)
LIFT BS	CSOG-200: Concrete Slab on Ground (200mm)	1.7	N/A	2.50	Exposed
LIFT GF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	3.4	N/A	0.15	Exposed
MASTER BEDROOM	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	2.7	N/A	0.15	Timber (12mm)

Floor type

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
MASTER BEDROOM	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	31.9	N/A	2.50	Timber (12mm)
MECH ROOM	CSOG-200: Concrete Slab on Ground (200mm)	31.0	N/A	0.00	Exposed
OFFICE	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	29.0	N/A	0.15	Timber (12mm)
PLANT ROOM	CSOG-200: Concrete Slab on Ground (200mm)	30.6	N/A	0.00	Exposed
POOL EQUIP	CSOG-200: Concrete Slab on Ground (200mm)	6.6	N/A	0.00	Tile (8mm)
RUMPUS	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	27.5	N/A	0.15	Timber (12mm)
STORAGE BS	CSOG-200: Concrete Slab on Ground (200mm)	6.6	N/A	0.00	Exposed
STORE GF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	2.1	N/A	6.00	Tile (8mm)
TOY ROOM	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	16.4	N/A	6.00	Tile (8mm)
WC FF	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	4.9	N/A	0.15	Tile (8mm)
WIR 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	3.9	N/A	0.15	Timber (12mm)
WIR 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.0	N/A	0.15	Timber (12mm)
WIR 3	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	5.9	N/A	0.15	Timber (12mm)
WIR 4	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	3.9	N/A	0.15	Timber (12mm)
WIR GB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	7.1	N/A	6.00	Tile (8mm)
WIR MB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	9.8	N/A	0.15	Timber (12mm)
WIR MB	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	17.1	N/A	2.50	Timber (12mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BED 01	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
BED 02	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
BED 03	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
BED 04	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
BUTLERS 1	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BUTLERS 2	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No
CIRCULATION 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
CIRCULATION 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
COOL ROOM	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No
ENS MB	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
ENSUITE 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
ENSUITE 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
ENSUITE 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
ENSUITE 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
ENSUITE GB	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No
GARAGE	SLAB-200-EXP-01: Concrete Slab (200mm) with Exposed Concrete Ceiling	0.00	No
KLD	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No
LIFT GF	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
MASTER BEDROOM	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
OFFICE	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
RUMPUS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WC FF	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WIR 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WIR 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WIR 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WIR 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes
WIR GB	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	4.00	No
WIR MB	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	7.00	Yes

* Refer to glossary.

Ceiling penetrations*

Location	Quantity	Type	Diameter (mm)	Sealed /unsealed
BATHROOM GF	1	Downlight	190	Sealed
BATTERY ROOM	1	Downlight	190	Sealed
BED 01	3	Downlight	190	Sealed
BED 02	3	Downlight	190	Sealed
BED 03	3	Downlight	190	Sealed
BED 04	3	Downlight	190	Sealed
BUTLERS 1	1	Downlight	190	Sealed
BUTLERS 2	1	Downlight	190	Sealed
CIRCULATION 1	11	Downlight	190	Sealed
CIRCULATION 2	14	Downlight	190	Sealed
COMMS	1	Downlight	190	Sealed
COOL ROOM	1	Downlight	190	Sealed
ENS MB	3	Downlight	190	Sealed
ENSUITE 1	1	Downlight	190	Sealed
ENSUITE 2	1	Downlight	190	Sealed
ENSUITE 3	1	Downlight	190	Sealed
ENSUITE 4	1	Downlight	190	Sealed
ENSUITE GB	1	Downlight	190	Sealed
ENTRY	8	Downlight	190	Sealed
FORMAL LIVING	6	Downlight	190	Sealed
GUEST BED	5	Downlight	190	Sealed
HALL/STAIRS BS	4	Downlight	190	Sealed
HALL/STAIRS GF	7	Downlight	190	Sealed
KLD	27	Downlight	190	Sealed

* Refer to glossary.

Ceiling *penetrations**

Location	Quantity	Type	Diameter (mm)	Sealed /unsealed
KLD	1	Exhaust Fan	350	Sealed
LAUNDRY	2	Downlight	190	Sealed
LIFT BS	1	Downlight	190	Sealed
LIFT GF	2	Downlight	190	Sealed
MASTER BEDROOM	7	Downlight	190	Sealed
MECH ROOM	6	Downlight	190	Sealed
OFFICE	6	Downlight	190	Sealed
PLANT ROOM	6	Downlight	190	Sealed
POOL EQUIP	1	Downlight	190	Sealed
RUMPUS	6	Downlight	190	Sealed
STORAGE BS	1	Downlight	190	Sealed
STORE GF	1	Downlight	190	Sealed
TOY ROOM	3	Downlight	190	Sealed
WC FF	1	Downlight	190	Sealed
WIR 1	1	Downlight	190	Sealed
WIR 2	1	Downlight	190	Sealed
WIR 3	1	Downlight	190	Sealed
WIR 4	1	Downlight	190	Sealed
WIR GB	1	Downlight	190	Sealed
WIR MB	5	Downlight	190	Sealed

Ceiling *fans*

Location	Quantity	Diameter (mm)
CIRCULATION 1	2	1500
CIRCULATION 2	1	2100
KLD	2	1800

* Refer to glossary.



Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.73	Dark (Monument)
SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	0.00	0.50	Medium
SLAB-200-EXP-01: Concrete Slab (200mm) with Exposed Concrete Ceiling	0.00	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions (height x width, mm)	Frame spacing (mm)	Steel thickness (BMT mm)	Thermal Break (R-value)
None				

Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Cooling system

Type	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data				

Heating system

Type	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data				

Hot water system

Type	Fuel type	Hot Water CER Zone	Minimum efficiency / STC	Assessed daily load [litres]
No Whole of Home Data				

Pool / spa equipment

Type	Fuel type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data			

Onsite Renewable Energy schedule

Type	Orientatation	Generation Capacity [kW]
No Whole of Home Data		

Battery schedule

Type	Storage Capacity [kWh]
No Whole of Home Data	

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 home's energy value*.

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your home's 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 - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	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.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)

* Refer to glossary.