### Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. #HR-TAPFBI-01

Generated on 11 Mar 2024 using Hero 3.1.0.6 (Chenath v3.23)

#### Property

Address

Lot/DP NCC Class\* Floor/all Floors Type 1B, 197 Wellington Road, Chester Hill, NSW, 2162 19/-/DP35673 1a 1 of 2 floors New

#### Plans

Main Plan Prepared by Issued for DA Submission dated /2024 ALI DAMAJ

### **Construction and environment**

Assessed floor area (m<sup>2</sup>)\* Conditioned\* 203.6 Unconditioned\* 6.9 Total 228.4 Garage 17.9 Exposure Type Suburban NatHERS climate zone 56 - Mascot AMO



### Accredited assessor

Name
Business name
Email
Phone D
Accreditation No.
Assessor Accrediting Organisation

Declaration of interest

No Conflict of Interest

Oanh Thi Kim Trinh

krissi@thermalseven.com.au

Thermal Seven

+61 428054389

DMN/22/2110

DMN

### **NCC Requirements**

**BCA** provisions

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.

Volume 2

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.

Thermal performance star rating

### NATIONWIDE HOUSE ENERGY RATING SCHEME

The more stars

the more energy efficient

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

R

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

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

#### Thermal performance (MJ/m<sup>2</sup>) Limits taken from ABCB Standard 2022

eating	Cooling
8.5	11.0
5	18

#### Features determining load limits

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

CSOG N 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-TAPFBI-01.

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



\* Refer to glossary. Generated on 11 Mar 2024 using Hero 3.1.0.6 for 1B, 197 Wellington Road, Chester Hill, NSW, 2162



Note, variations and additions to the NCC energy efficiency requirements Predicted Whole of Home annual may apply in some states and territories.

#### 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.

# impact by appliance

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

#### Enerav use:



Greenhouse gas emissions:

Cost:





#### #HR-TAPFBI-01 NatHERS Certificate

#### 7.0 Star Rating as of 11 Mar 2024

	1
NATIONWIDE HOUSE	

Certificate check	Approva	l stage	Construc 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 who should check each item. It is not mandatory to complete this checklist.	Asse	Cons	Builde	Cons surve	Occu
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the <i>'Window and glazed door type and performance'</i> and <i>'Roof window type and performance'</i> 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 <i>'External wall type table'</i> on this Certificate?					
Does the external wall shade (colour) match what is shown in the <i>'External wall type'</i> 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 <i>'Floor type'</i> 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 <i>'Ceiling type'</i> table on this Certifi cate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the <i>'Roof type'</i> 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?					

#### 7.0 Star Rating as of 11 Mar 2024



Certificate check	Approval stage		oval stage Construction stage		
Continued	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	nsulation 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	e assessr	nent is no	ot 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 <i>'Onsite Renewable Energy schedule'</i> on this Certificate?									
Additional NCC Requirements for Services (not included in the NatHE	RS asses	ssment)							
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. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional re and any st	quirements ate or territ	that must ory variatio	also be sat	isfied ICC				



#### Room schedule

Room	Zone Type	Area (m²)
Guest Bedroom	Bedroom	10.41
WIR	Night Time	2.86
ENS	Night Time	4.23
Garage	Garage	17.86
WC	Day Time	2.63
Laundry	Day Time	4.61
Entry	Day Time	7.74
Hall	Day Time	16.75
Kitchen/Living/Dining	Kitchen/Living	43.63
Bed 3	Bedroom	12.88
Bed 2	Bedroom	12.40
Bed 1	Bedroom	13.22
ENS	Night Time	5.67
Master Bedroom	Bedroom	19.93
WIR	Night Time	11.30
Bath	Unconditioned	6.92
TV Room	Living	10.49
Hall/Stairs	Day Time	28.70

### 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
ALM-003-01 A	Aluminium A DG Air Fill Clear-Clear	4.80	0.51	0.48	0.54
ALM-004-01 A	Aluminium B DG Air Fill Clear-Clear	4.80	0.59	0.56	0.62



#### Custom\* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges	
		U-value*		lower limit	upper limit
A&L-013-05 A	AI Sliding Door DG 4/10Ar/4EA	2.79	0.60	0.57	0.63

### Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
Bath	ALM-004-01 A	W07	1200	1500	Sliding	45	S	None
Bed 1	ALM-004-01 A	W05	900	2100	Sliding	10	E	None
Bed 2	ALM-004-01 A	W05	900	2100	Sliding	10	E	None
Bed 3	ALM-004-01 A	W05	900	2100	Sliding	10	S	None
ENS	ALM-003-01 A	W02	900	600	Awning	45	E	None
ENS	ALM-003-01 A	W02	900	600	Awning	45	E	None
Garage	A&L-013-05 A	W01	600	3000	Sliding	45	E	None
Guest Bedroom	A&L-013-05 A	W05	900	2100	Sliding	45	Е	None
Kitchen/Living/Dining	A&L-013-05 A	W04	600	2100	Sliding	45	E	None
Kitchen/Living/Dining	A&L-013-05 A	SD-1	2400	4800	Sliding Door	30	S	None
Master Bedroom	ALM-004-01 A	W06	900	3000	Sliding	10	Е	None
Master Bedroom	A&L-013-05 A	SD-2	2400	2200	Sliding Door	45	Ν	None
TV Room	ALM-004-01 A	W03	600	1800	Sliding	45	Е	None

### Roof window type and performance value

#### Default\* roof windows

Window Description	Maximum SHO	GC*	SHGC substitution tolerance ranges
	U-value*		lower limit upper limit
indows			
Window Description	Maximum SH0	GC*	SHGC substitution tolerance ranges
	U-value*		lower limit upper limit
	Window Description indows Window Description	Window Description U-value* SH	Window Description U-value* SHGC*

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
None	

### Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
None								

### External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Entry	2400	1500	90	Ν
Garage	2100	2400	0	Ν

### External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
ALU-SLAT-250 -BV- NONREFL-CAV-A	Aluminium slat 250mm Rendered Brick Veneer Stud Wall with Non-Reflective Sarking	0.85	Dark	2.00	No
ALU-SLAT-250 -BV- NONREFL-CAV-B	Aluminium slat 250mm Rendered Brick Veneer Stud Wall with Non-Reflective Sarking	0.50	Medium	2.00	No
REND-250 -BV- NONREFL-CAV-A	250mm Rendered Brick Veneer Stud Wall with Non-Reflective Sarking	0.50	Medium	2.00	No
REND-250 -BV- NONREFL-CAV-B	250mm Rendered Brick Veneer Stud Wall with Non-Reflective Sarking	0.25	Light (White)	2.00	No

#### External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bath	REND-250 -BV-NONREFL-CAV- B	2700	2099	S		No
Bed 1	REND-250 -BV-NONREFL-CAV- B	2700	3601	E		No
Bed 1	REND-250 -BV-NONREFL-CAV- B	2700	579	Ν		Yes
Bed 2	REND-250 -BV-NONREFL-CAV- B	2700	3600	Е		No

#### External wall schedule

Bed 3REND-250-BV-NONREFL-CAV B27003900ENoBed 3REND-250-BV-NONREFL-CAV R20001783EYesENSREND-250-BV-NONREFL-CAV A3000618SYesENSREND-250-BV-NONREFL-CAV CAV-A30001870ENoENSREND-250-BV-NONREFL-CAV CAV-A30001870E1681YesENSREND-250-BV-NONREFL-CAV CAV-A3000187E1681YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000184ENE1688YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1583YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167N1518YesEntryALU-SLAT-250-BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250-BV-NONREFL-CAV CAV-A30001675N1518YesEntryREND-250-BV-NONREFL-CAV CAV-A30001675N1518YesEntryREND-250-BV-NONREFL-CAV CAV-A30001675N1518YesGarageALU-SLAT-250-BV-NONREFL-CAV CAV-A30003040EYesYesGarageREND-250-BV-NONREFL-CAV CAV-A30005616 </th <th>Location</th> <th>Wall ID</th> <th>Height (mm)</th> <th>Width (mm)</th> <th>Orient- ation</th> <th>Horizontal shading feature* projection (mm)</th> <th>Vertical shading feature</th>	Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bes 3BZ10034/4SNoENSREND-250 -BV-NONREFL-CAV A30001783EYesENSREND-250 -BV-NONREFL-CAV B3000618SYesENSREND-250 -BV-NONREFL-CAV B27001998ENoEntryCAV-A3000187E1681YesEntryCAV-A3000184ENE1688YesEntryALU-SLAT-250 -BV-NONREFL CAV-A3000167NE1504YesEntryALU-SLAT-250 -BV-NONREFL CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1503YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250 -BV-NONREFL-CAV CAV-A30003079N2055YesGarageCAU-SLAT-250 -BV-NONREFL-CAV A30003004EYesYesGarageREND-250 -	Bed 3		2700	3900	E		No
ENSA300017.83EYesENSREND-250 -BV-NONREFL-CAV B3000618SYesENSREND-250 -BV-NONREFL-CAV- CAV-A27001998ENoEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000187E1681YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000184ENE1688YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1504YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A30001675N1488YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000457E1553YesEntryALU-SLAT-250 -BV-NONREFL-CAV- CAV-A30001675N1518YesEntryREND-250 -BV-NONREFL-CAV- A30003004EYesYesGarageREND-250 -BV-NONREFL-CAV- A30003004EYesYesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesYesGuest BedroomREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- A270	Bed 3		2700	3474	S		No
ENSA3000613SYesENSREND-250-BV-NONREFL-CAV CAV-A27001998ENoEntryALU-SLAT-250-BV-NONREFL- CAV-A3000187E1681YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000184ENE1688YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000204NE1504YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1533YesEntryALU-SLAT-250-BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250-BV-NONREFL- CAV-A30001675N1518YesEntryALU-SLAT-250-BV-NONREFL-CAV- CAV-A30001675N1518YesEntryALU-SLAT-250-BV-NONREFL-CAV- CAV-A30001675N1518YesGarageREND-250-BV-NONREFL-CAV- A30003079N2055YesGuest BedroomREND-250-BV-NONREFL-CAV- A30005681S3259YesKitchen/Living/DiningREND-250-BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250-BV-NONREFL-CAV- AV-A30005681S3259YesMaster BedroomREND-250-BV-	ENS		3000	1783	E		Yes
ENSBZ1001998ENOEntryALU-SLAT-250-BV-NONREFL- CAV-A3000187E1681YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000184ENE1688YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1604YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250-BV-NONREFL- CAV-A3000167NE1611YesEntryALU-SLAT-250-BV-NONREFL- CAV-A30001675N1488YesEntryALU-SLAT-250-BV-NONREFL- CAV-A30001675N1518YesEntryREND-250-BV-NONREFL-CAV CAV-A30001675N1518YesGarageREND-250-BV-NONREFL-CAV CAV-A30001675N2055YesGarageREND-250-BV-NONREFL-CAV CAV-A30003079N2055YesGuest BedroomREND-250-BV-NONREFL-CAV A30003064EYesYesKitchen/Living/DiningREND-250-BV-NONREFL-CAV A30005681S3259YesMaster BedroomREND-250-BV-NONREFL-CAV CAV-A27002673N2055YesMaster BedroomALU-SLAT-250-BV-NONREFL-CAV CAV-A2700567E1583YesMaster Bedroom </td <td>ENS</td> <td></td> <td>3000</td> <td>618</td> <td>S</td> <td></td> <td>Yes</td>	ENS		3000	618	S		Yes
Entry     CAV-A     3000     187     E     1681     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     184     ENE     1688     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     204     NE     1504     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     167     NE     1087     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     173     NNE     761     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     849     N     1488     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     867     E     1553     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     1675     N     1518     Yes       Garage     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     5800     E     Yes       Garage     ALU-SLAT-250 -BV-NONREFL-CAV- A     3000     3004     E     Yes       Garage     ALU-SLAT-250 -BV-NONREFL-CAV- A     3000     7916     E	ENS		2700	1998	E		No
EntryCAV-A3000184ENE1688YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000204NE1504YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000167NE1087YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000173NNE761YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000849N1488YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000457E1553YesEntryALU-SLAT-250 -BV-NONREFL-CAV- A30001675N1518YesEntryREND-250 -BV-NONREFL-CAV- A30805800EYesGarageALU-SLAT-250 -BV-NONREFL-CAV- A30803079N2055YesGarageALU-SLAT-250 -BV-NONREFL-CAV- A30003004EYesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- A27002673N2075YesMaster BedroomREND-250 -BV-NONREFL-CAV- A27002677E1583YesMaster BedroomREND-250 -BV-NONREFL-CAV- A27002673N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL-CAV- A27005677E1583YesMaster Bedroom	Entry		3000	187	E	1681	Yes
Entry     CAV-A     3000     204     NE     1504     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     167     NE     1087     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     173     NNE     761     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     849     N     1488     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     457     E     1553     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     1675     N     1518     Yes       Entry     REND-250 -BV-NONREFL-CAV- A     3080     5800     E     Yes       Garage     ALU-SLAT-250 -BV-NONREFL-CAV- A     3080     3079     N     2055     Yes       Guest Bedroom     REND-250 -BV-NONREFL-CAV- A     3000     7916     E     Yes       Kitchen/Living/Dining     REND-250 -BV-NONREFL-CAV- B     3000     5681     S     3259     Yes       Master Bedroom     REND-250 -BV-NONREFL-CAV- B     3000     5671	Entry		3000	184	ENE	1688	Yes
Entry     CAV-A     3000     167     NE     1087     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     173     NNE     761     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     849     N     1488     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     457     E     1553     Yes       Entry     ALU-SLAT-250 -BV-NONREFL- CAV-A     3000     457     E     1553     Yes       Garage     REND-250 -BV-NONREFL-CAV- A     3000     1675     N     1518     Yes       Garage     REND-250 -BV-NONREFL-CAV- A     3080     5800     E     Yes       Garage     REND-250 -BV-NONREFL-CAV- A     3080     3079     N     2055     Yes       Guest Bedroom     REND-250 -BV-NONREFL-CAV- A     3000     7916     E     Yes       Kitchen/Living/Dining     REND-250 -BV-NONREFL-CAV- A     3000     5681     S     3259     Yes       Master Bedroom     REND-250 -BV-NONREFL-CAV- B     3000     5681 <t< td=""><td>Entry</td><td></td><td>3000</td><td>204</td><td>NE</td><td>1504</td><td>Yes</td></t<>	Entry		3000	204	NE	1504	Yes
EntryCAV-A30001/3NNE761YesEntryALU-SLAT-250 - BV-NONREFL- CAV-A3000849N1488YesEntryALU-SLAT-250 - BV-NONREFL- CAV-A3000457E1553YesEntryCAV-A30001675N1518YesEntryREND-250 - BV-NONREFL-CAV- A30001675N1518YesGarageREND-250 - BV-NONREFL-CAV- A30805800EYesGarageREND-250 - BV-NONREFL-CAV- CAV-A30803079N2055YesGarageREND-250 - BV-NONREFL-CAV- A30003004EYesGuest BedroomREND-250 - BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 - BV-NONREFL-CAV- A30005681S3259YesKitchen/Living/DiningREND-250 - BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 - BV-NONREFL-CAV- A27002573N2075YesMaster BedroomALU-SLAT-250 - BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 - BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 - BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 - BV-NONREFL- CAV-A2700180ENE1611Yes	Entry		3000	167	NE	1087	Yes
EntryCAV-A3000849N1488YesEntryALU-SLAT-250 -BV-NONREFL- CAV-A3000457E1553YesEntryREND-250 -BV-NONREFL-CAV- A30001675N1518YesGarageREND-250 -BV-NONREFL-CAV- CAV-A30805800EYesGarageALU-SLAT-250 -BV-NONREFL- CAV-A30803079N2055YesGarageALU-SLAT-250 -BV-NONREFL- CAV-A30003004EYesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoNoMaster BedroomREND-250 -BV-NONREFL-CAV- B2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611Yes	Entry		3000	173	NNE	761	Yes
EntryCAV-A3000457E1553YesEntryREND-250 -BV-NONREFL-CAV- A30001675N1518YesGarageREND-250 -BV-NONREFL-CAV- CAV-A30805800EYesGarageALU-SLAT-250 -BV-NONREFL- CAV-A30803079N2055YesGuest BedroomREND-250 -BV-NONREFL-CAV- CAV-A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Entry		3000	849	Ν	1488	Yes
EntryA30001675N1518YesGarageREND-250 -BV-NONREFL-CAV- CAV-A30805800EYesGarageALU-SLAT-250 -BV-NONREFL- CAV-A30803079N2055YesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611Yes	Entry		3000	457	E	1553	Yes
GarageA30805800EYesGarageALU-SLAT-250 -BV-NONREFL- CAV-A30803079N2055YesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Entry		3000	1675	Ν	1518	Yes
GarageCAV-A30803079N2055YesGuest BedroomREND-250 -BV-NONREFL-CAV- A30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomREND-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Garage		3080	5800	E		Yes
Guest BedroomA30003004EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Garage		3080	3079	Ν	2055	Yes
Kitchen/Living/DiningA30007916EYesKitchen/Living/DiningREND-250 -BV-NONREFL-CAV- A30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A27002577N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Guest Bedroom		3000	3004	E		Yes
Kitchen/Living/DiningA30005681S3259YesMaster BedroomREND-250 -BV-NONREFL-CAV- B27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Kitchen/Living/Dining		3000	7916	E		Yes
Master BedroomB27004088ENoMaster BedroomREND-250 -BV-NONREFL-CAV- B27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611Yes	Kitchen/Living/Dining		3000	5681	S	3259	Yes
Master BedroomB27002573N2075YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611Yes	Master Bedroom		2700	4088	E		No
Master BedroomCAV-A2700567E1583YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700200NE1277Yes	Master Bedroom		2700	2573	Ν	2075	Yes
Master BedroomCAV-A2700178ENE1711YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700180ENE1611YesMaster BedroomALU-SLAT-250 -BV-NONREFL- CAV-A2700209NE1277Yes	Master Bedroom		2700	567	E	1583	Yes
Master Bedroom CAV-A 2700 180 ENE 1611 Yes   Master Bedroom ALU-SLAT-250 -BV-NONREFL- 2700 209 NE 1277 Yes	Master Bedroom		2700	178	ENE	1711	Yes
	Master Bedroom		2700	180	ENE	1611	Yes
	Master Bedroom		2700	209	NE	1277	Yes





### External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Master Bedroom	ALU-SLAT-250 -BV-NONREFL- CAV-A	2700	237	NNE	764	Yes
Master Bedroom	ALU-SLAT-250 -BV-NONREFL- CAV-B	2700	822	Ν	973	Yes
TV Room	REND-250 -BV-NONREFL-CAV- B	2700	3392	E		Yes
TV Room	REND-250 -BV-NONREFL-CAV- B	2700	579	S		Yes
TV Room	REND-250 -BV-NONREFL-CAV- B	2700	1001	E		No
WIR	REND-250 -BV-NONREFL-CAV- B	2700	1555	Ν	1000	Yes

#### Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
270mm PARTITION CAV-BRICK- 110-110-PB	270mm Cavity Brick Wall - 110mm/110mm PB	118.7	0.00
INT-PB	Internal Plasterboard Stud Wall	151.4	0.00
INT-PB	Internal Plasterboard Stud Wall	37.2	2.00

### Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Bath	TIMB-002: Suspended Timber Floor - Lined Below	6.3	N/A	0.00	Tile (8mm)
Bath	TIMB-001: Suspended Timber Floor	0.6	N/A	0.00	Tile (8mm)
Bed 1	TIMB-001: Suspended Timber Floor	13.3	N/A	0.00	Carpet
Bed 2	TIMB-001: Suspended Timber Floor	12.4	N/A	0.00	Carpet
Bed 3	TIMB-001: Suspended Timber Floor	2.4	N/A	0.00	Carpet
Bed 3	TIMB-002: Suspended Timber Floor - Lined Below	10.5	N/A	0.00	Carpet
ENS	CSOG-100: Concrete Slab on Ground (100mm)	4.2	N/A	0.00	Tile (8mm)
ENS	TIMB-001: Suspended Timber Floor	5.7	N/A	0.00	Tile (8mm)
Entry	CSOG-100: Concrete Slab on Ground (100mm)	7.7	N/A	0.00	Tile (8mm)
Garage	CSOG-100: Concrete Slab on Ground (100mm)	17.9	N/A	0.00	Exposed
Guest Bedroom	CSOG-100: Concrete Slab on Ground (100mm)	10.4	N/A	0.00	Carpet

\* Refer to glossary. Generated on 11 Mar 2024 using Hero 3.1.0.6 for 1B, 197 Wellington Road, Chester Hill, NSW, 2162



### Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Hall	CSOG-100: Concrete Slab on Ground (100mm)	16.7	N/A	0.00	Tile (8mm)
Hall/Stairs	TIMB-001: Suspended Timber Floor	28.7	N/A	0.00	Carpet
Kitchen/Living/Dining	CSOG-100: Concrete Slab on Ground (100mm)	43.6	N/A	0.00	Tile (8mm)
Laundry	CSOG-100: Concrete Slab on Ground (100mm)	4.6	N/A	0.00	Tile (8mm)
Master Bedroom	TIMB-001: Suspended Timber Floor	19.9	N/A	0.00	Carpet
TV Room	TIMB-001: Suspended Timber Floor	10.5	N/A	0.00	Carpet
WC	CSOG-100: Concrete Slab on Ground (100mm)	2.6	N/A	0.00	Tile (8mm)
WIR	CSOG-100: Concrete Slab on Ground (100mm)	2.9	N/A	0.00	Tile (8mm)
WIR	TIMB-001: Suspended Timber Floor	11.2	N/A	0.00	Carpet

### Ceiling type

0 71			
Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Bath	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
Bed 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
Bed 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
Bed 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
Bed 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
ENS	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	2.00	Yes
ENS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
ENS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
Garage	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	2.00	Yes
Guest Bedroom	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	2.00	Yes
Hall/Stairs	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes



### Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Master Bedroom	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
Master Bedroom	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
TV Room	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
TV Room	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	2.00	Yes
WIR	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes

### **Ceiling** penetrations\*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
Bath	2	Downlight	200	Sealed
Bath	1	Exhaust Fan	350	Sealed
Bed 1	5	Downlight	200	Sealed
Bed 2	5	Downlight	200	Sealed
Bed 3	5	Downlight	200	Sealed
ENS	3	Downlight	200	Sealed
ENS	2	Exhaust Fan	350	Sealed
Entry	2	Downlight	200	Sealed
Garage	6	Downlight	200	Sealed
Guest Bedroom	4	Downlight	200	Sealed
Hall	6	Downlight	200	Sealed
Hall/Stairs	10	Downlight	200	Sealed
Kitchen/Living/Dining	15	Downlight	200	Sealed
Kitchen/Living/Dining	1	Exhaust Fan	350	Sealed
Laundry	1	Downlight	200	Sealed
Master Bedroom	6	Downlight	200	Sealed
TV Room	4	Downlight	200	Sealed
WC	1	Downlight	200	Sealed



#### **Ceiling** *penetrations*\*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
WIR	6	Downlight	200	Sealed

### **Ceiling** fans

Location	Quantity	Diameter (mm)
None		

### 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)
FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	1.30	0.73	Dark (Monument)

#### 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

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

#### Heating system

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
NI- Minala of Llaws - Da	4-			

No Whole of Home Data

#### Hot water system

Туре	Fuel type	Hot Water CER Zone	Minimum efficiency / STC	Assessed daily load [litres]
No Whole of Home Data				
Pool / spa equipment				
Туре	Fuel type	Minimum efficiency /		Recommended

performance capacity

\* Refer to glossary.

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#### Pool / spa equipment

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

### **Onsite Renewable Energy** schedule

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

#### **Battery** schedule

**Type** No Whole of Home Data Storage Capacity [kWh]



#### **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

#### Glossary

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.

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 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 - 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 Smal 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.

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