Nationwide House Energy Rating Scheme NatHERS Certificate No. 0005518410-01

Generated on 02 Jun 2021 using AccuRate Sustainability V2.4.3.21

Property

Address

40 Sunrise Road , Palm Beach , NSW 2108

Lot/DP

Type

Lot 151 DP 6937

NCC Class'

New Home

1a

Plans

Main Plan Prepared by DA100 to DA110 dated 2/6/21 Susan Rothwell Architects

Construction and environment

Assessed floor area (m²)*

Conditioned*	446.9
Unconditioned*	33.1
Total	479.9
Garage	33.1

Suburban NatHERS climate zone

Exposure Type

Accredited assessor

Name Business name Email Phone Accreditation No.

Andrew Spaile & Associates aspaile@ii.net 93695555

Andrew Spaile

20068

Assessor Accrediting Organisation

ABSA

Declaration of interest

Employed by designer of the building



67.1 MJ/m²

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

leating	C C
1.0	0 /2
/J/m ²	O4M

Cooling 26.1 //J/m²

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Verification

To verify this certificate, scan the QR code or visit



hstar.com.au/QR/Generate? p=cXhYrcSmT. When using either link, ensure you are visiting hstar.com.au

National Construction Code (NCC) requirements

The NCC's requirements for NatHERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at www.abcb.gov.au.

State and territory variations and additions to the NCC may also apply.



Certificate check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling's rating.

Genuine certificate

Does this Certificate match the one available at the web address or QR code in the verification box on the front page? Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Ceiling penetrations*

Does the 'number' and 'type' of ceiling penetrations (e.g. downlights, exhaust fans, etc) shown on the stamped plans or installed, match what is shown in this Certificate?

Windows

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate?

Apartment entrance doors

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 level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values

Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional notes

Window and glazed door type and performance

Default* windows

Window ID	Window Description	Maximum	SHGC*	Substitution tolerance ranges		
		U-value*	0100	SHGC lower limit	SHGC upper limit	
No Data Available	e					

Custom* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	3660	SHGC lower limit	SHGC upper limit	
LOT-010-01 A	Frameless Al Bi Fold Door- 100mm SG 12Clr	5.9	0.60	0.57	0.63	
CAN-007-03 W	Timber Double Hung Window SG 4SB	5.0	0.52	0.49	0.55	
CAN-014-01 W	Timber Bifold Door SG 3Clr	4.1	0.52	0.49	0.55	
CAN-007-06 W	Timber Double Hung Window SG 6.38CP	3.4	0.38	0.36	0.40	



Window and glazed door schedule

Rumpus LOT-010-01 A W107 2400 6010 Other 90 N None Cinema LOT-010-01 A W101 2400 2150 Other 90 W None Bed 3 CAN-007-03 W W106 2230 3700 Double Hung 45 E None Bed 4 CAN-007-03 W W105 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W103 2230 800 Double Hung 45 None Bed 6 CAN-007-03 W W108 2230 3300 Double Hung 45 None Ensuite 3 CAN-007-03 W W108 2230 1300 Double Hung 45 None Ensuite 6 CAN-007-03 W W102 230 800 Double Hung 45 W None Ensuite 6 CAN-007-	Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Bed 3 CAN-007-03 W W106 2230 3700 Double Hung 30 N None Bed 4 CAN-007-03 W W104 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 45 E None Bed 6 CAN-007-03 W W110 2400 2150 Other 90 S None Ensuite 3 CAN-007-03 W W110 2230 1300 Double Hung 45 W None Ensuite 6 CAN-007-03 W W106 2230 1300 Double Hung 45 W None Garage CAN-007-03 W W102 230 800 Double Hung 45 E None	Rumpus	LOT-010-01 A	W107	2400	6010	Other	90	Ν	None
Bed 4 CAN-007-03 W W104 2230 800 Double Hung 45 E None Bed 4 CAN-007-03 W W105 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 45 E None Bed 6 CAN-014-01 W w111 2400 2150 Other 90 S None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 5 CAN-007-03 W W109 2230 800 Double Hung 45 W None Ensuite 6 CAN-007-03 W W101 2230 800 Double Hung 45 E None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None </td <td>Cinema</td> <td>LOT-010-01 A</td> <td>W101</td> <td>2400</td> <td>2150</td> <td>Other</td> <td>90</td> <td>W</td> <td>None</td>	Cinema	LOT-010-01 A	W101	2400	2150	Other	90	W	None
Bed 4 CAN-007-03 W W105 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W103 2230 800 Double Hung 45 E None Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 30 N None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 45 W None Ensuite 5 CAN-007-03 W W100 2230 800 Double Hung 45 W None Garage CAN-007-03 W W102 2230 800 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None	Bed 3	CAN-007-03 W	W106	2230	3700	Double Hung	30	Ν	None
Bed 7 CAN-007-03 W W102 2230 800 Double Hung 45 E None Bed 7 CAN-007-03 W W103 2230 800 Double Hung 45 E None Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 30 N None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 45 W None Ensuite 5 CAN-007-03 W W106 2230 800 Double Hung 45 W None Garage CAN-007-03 W W100 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Entry CAN-007-03 W W201 2400 1200 Other 90 S None	Bed 4	CAN-007-03 W	W104	2230	800	Double Hung	45	E	None
Bed 7 CAN-007-03 W W103 2230 800 Double Hung 45 E None Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 30 N None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 800 Double Hung 45 W None Ensuite 6 CAN-007-03 W W100 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 K None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None <td>Bed 4</td> <td>CAN-007-03 W</td> <td>W105</td> <td>2230</td> <td>800</td> <td>Double Hung</td> <td>45</td> <td>E</td> <td>None</td>	Bed 4	CAN-007-03 W	W105	2230	800	Double Hung	45	E	None
Bed 5 CAN-007-03 W W108 2230 3390 Double Hung 30 N None Bed 6 CAN-014-01 W w111 2400 2150 Other 90 S None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 45 W None Ensuite 5 CAN-007-03 W W109 2230 800 Double Hung 45 W None Garage CAN-007-03 W W102 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Garage CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None	Bed 7	CAN-007-03 W	W102	2230	800	Double Hung	45	E	None
Bed 6 CAN-014-01 W w111 2400 2150 Other 90 S None Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 22 N None Ensuite 5 CAN-007-03 W w109 2230 800 Double Hung 45 W None Garage CAN-007-03 W W100 2230 800 Double Hung 45 E None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Living Dining CAN-007-06 W W210 2400 2150 Other 90 S None	Bed 7	CAN-007-03 W	W103	2230	800	Double Hung	45	E	None
Bed 6 CAN-007-03 W W112 2230 760 Double Hung 45 S None Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 22 N None Ensuite 5 CAN-007-03 W w109 2230 800 Double Hung 45 W None Ensuite 6 CAN-007-03 W W110 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Living Dining CAN-007-06 W W202 2230 2280 Double Hung 22 W None	Bed 5	CAN-007-03 W	W108	2230	3390	Double Hung	30	Ν	None
Ensuite 3 CAN-007-03 W W106 2230 1300 Double Hung 22 N None Ensuite 5 CAN-007-03 W w109 2230 800 Double Hung 45 W None Ensuite 6 CAN-007-03 W W110 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Living Dining CAN-007-06 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W	Bed 6	CAN-014-01 W	w111	2400	2150	Other	90	S	None
Ensuite 5 CAN-007-03 W w109 2230 800 Double Hung 45 W None Ensuite 6 CAN-007-03 W W110 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Garage CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Living Dining CAN-014-01 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining LOT-010-01 A W205 2400 7570 Other 90 N Non	Bed 6	CAN-007-03 W	W112	2230	760	Double Hung	45	S	None
Ensuite 6 CAN-007-03 W W110 2230 800 Double Hung 45 W None Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Garage CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-007-06 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining LOT-010-01 A W205 2400 7570 Other 90 N None	Ensuite 3	CAN-007-03 W	W106	2230	1300	Double Hung	22	Ν	None
Garage CAN-007-03 W W202 1930 700 Double Hung 45 E None Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Entry CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-007-06 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N	Ensuite 5	CAN-007-03 W	w109	2230	800	Double Hung	45	W	None
Garage CAN-007-03 W W203 1930 700 Double Hung 45 E None Entry CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-014-01 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 60 N <t< td=""><td>Ensuite 6</td><td>CAN-007-03 W</td><td>W110</td><td>2230</td><td>800</td><td>Double Hung</td><td>45</td><td>W</td><td>None</td></t<>	Ensuite 6	CAN-007-03 W	W110	2230	800	Double Hung	45	W	None
Entry CAN-014-01 W W201 2400 1200 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-007-06 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N No	Garage	CAN-007-03 W	W202	1930	700	Double Hung	45	E	None
Kitchen LOT-010-01 A W212 2400 3735 Other 90 S None Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-014-01 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2150 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N	Garage	CAN-007-03 W	W203	1930	700	Double Hung	45	E	None
Kitchen CAN-007-06 W W211 2230 4140 Double Hung 16 W None Living Dining CAN-014-01 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2150 Double Hung 22 N None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 5250 Other 60 N None Loby CAN-007-03 W W301 1900 900 Double Hung 22	Entry	CAN-014-01 W	W201	2400	1200	Other	90	S	None
Living Dining CAN-014-01 W W210 2400 2150 Other 90 S None Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22	Kitchen	LOT-010-01 A	W212	2400	3735	Other	90	S	None
Living Dining CAN-007-06 W W208 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W205 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45	Kitchen	CAN-007-06 W	W211	2230	4140	Double Hung	16	W	None
Living Dining CAN-007-06 W W209 2230 2280 Double Hung 22 W None Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W205 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45	Living Dining	CAN-014-01 W	W210	2400	2150	Other	90	S	None
Living Dining CAN-007-06 W W207 2230 2150 Double Hung 22 N None Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 <	Living Dining	CAN-007-06 W	W208	2230	2280	Double Hung	22	W	None
Living Dining LOT-010-01 A W206 2400 7570 Other 90 N None Living Dining LOT-010-01 A W205 2400 4145 Other 90 N None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Bed 1 LOT-010-01 A W304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 K None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W	Living Dining	CAN-007-06 W	W209	2230	2280	Double Hung	22	W	None
Living Dining LOT-010-01 A W205 2400 4145 Other 90 W None Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Bed 1 LOT-010-01 A W304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W303 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N Non	Living Dining	CAN-007-06 W	W207	2230	2150	Double Hung	22	Ν	None
Living Dining LOT-010-01 A W204 2400 5250 Other 60 N None Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Bed 1 LOT-010-01 A W304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W302 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Living Dining	LOT-010-01 A	W206	2400	7570	Other	90	Ν	None
Lobby CAN-007-03 W W301 1900 900 Double Hung 22 S None Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Bed 1 LOT-010-01 A W304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Living Dining	LOT-010-01 A	W205	2400	4145	Other	90	W	None
Bed 1 CAN-007-03 W W305 2230 1200 Double Hung 22 W None Bed 1 LOT-010-01 A W304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Living Dining	LOT-010-01 A	W204	2400	5250	Other	60	Ν	None
Bed 1 LOT-010-01 A W 304 2400 4895 Other 90 N None Ensuite 1 dress CAN-007-03 W W 303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W 302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W 307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W 306 2400 3735 Other 90 N None	Lobby	CAN-007-03 W	W301	1900	900	Double Hung	22	S	None
Ensuite 1 dress CAN-007-03 W W303 2230 2660 Double Hung 45 N None Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Bed 1	CAN-007-03 W	W305	2230	1200	Double Hung	22	W	None
Ensuite 1 dress CAN-007-03 W W302 2230 700 Double Hung 45 E None Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Bed 1	LOT-010-01 A	W304	2400	4895	Other	90	Ν	None
Bed 2 CAN-007-03 W W307 2230 900 Double Hung 45 W None Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Ensuite 1 dress	CAN-007-03 W	W303	2230	2660	Double Hung	45	Ν	None
Bed 2 LOT-010-01 A W306 2400 3735 Other 90 N None	Ensuite 1 dress	CAN-007-03 W	W302	2230	700	Double Hung	45	E	None
	Bed 2	CAN-007-03 W	W307	2230	900	Double Hung	45	W	None
Ensuite 2 CAN-007-03 W W308 2230 800 Double Hung 22 W None	Bed 2	LOT-010-01 A	W306	2400	3735	Other	90	Ν	None
	Ensuite 2	CAN-007-03 W	W308	2230	800	Double Hung	22	W	None

4.9 Star Rating as of 02 Jun 2021



Roof window type and performance

Default* roof windows

Descrip	otion	U-valı	ue*	SHGC*	SHGC lowe	er limit	SHGC upper limit
hle							1.1.
010							
vindows							
v ID Window Description		Maxim	Maximum		Substi	tution toler	ance ranges
		U-value*		SHGC	SHGC lower limit		SHGC upper limit
ble							
dow so	hedule						
Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orientation	Outdoo shade	r Indoor shade
b	Window Descrip Die dow SC Window	Window Description De dow schedule Window Window	Window DescriptionMaxim U-valubledow scheduleWindowWindowOpening	Window DescriptionMaximum U-value*oleImage: Constraint of the second	Window Description Maximum U-value* SHGC* ole Ole Ole Mindow Window Opening Height Width	Window Description Maximum U-value* SHGC* Substing SHGC lower ole Shift Shift dow schedule Shift Shift Window Window Opening Height Width Orientation	Window Description Maximum U-value* SHGC* Substitution toler SHGC lower limit ole SHGC* SHGC lower limit dow schedule Vindow Opening Height Width Orientation Outdoor

Skylight type and performance

Skylight ID	Skylight description
No Data Available	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orientation	Outdoor shade	Diffuser	Skylight shaft reflectance
No Data Av	ailable							

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage	2200	5000	100	S

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-001	Brick wall	50	Medium	Polyethylene foam (k = 0.04): R0.1	Yes
EW-002	Sandstone/Concrete block	50	Medium		No
EW-003	Sandstone/Concrete block	50	Medium		No
EW-004	Brick wall/Concrete wall	50	Medium	Polyethylene foam (k = 0.04): R0.1	Yes



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Rumpus	EW-001	2500	6400	Ν	3800	Yes
Cinema	EW-002	2500	5900	S		No
Cinema	EW-001	2500	3580	W	1200	Yes
Laundry	EW-001	2500	1850	E		No
Laundry	EW-002	2500	5600	S		No
LG lift	EW-003	2900	3300	S		No
Bed 3	EW-001	2500	3990	Ν		No
Bed 3	EW-001	2500	800	W	10700	Yes
Bed 3	EW-001	2500	4200	E		No
Bed 4	EW-001	2500	4010	E		No
Bed 7	EW-001	2500	4010	E		No
Bed 5	EW-001	2500	1750	E	6400	Yes
Bed 5	EW-001	2500	3730	Ν	1700	Yes
Bed 5	EW-001	2500	4110	W		No
Bed 6	EW-001	2500	4110	W		No
Bed 6	EW-001	2500	3600	S	4400	Yes
Ensuite 3	EW-001	2500	1500	Ν		No
Ensuite 3	EW-001	2500	2470	W	10700	Yes
Ensuite 5	EW-001	2500	1500	W		No
Ensuite 6	EW-001	2500	1500	W		No
Garage	EW-001	2200	6000	E		No
Garage	EW-001	2700	5600	S		No
GF Lift	EW-004	3200	1650	S		No
Entry	EW-001	2700	1710	S	1800	Yes
Kitchen	EW-001	2700	450	E	1800	Yes
Kitchen	EW-001	2700	4160	S	1050	Yes
Kitchen	EW-001	2700	6500	W		No
Living Dining	EW-001	2700	2300	S		No
Living Dining	EW-001	2700	5410	W		No
Living Dining	EW-001	2700	10400	Ν		No
Living Dining	EW-001	2700	5400	W		No
Living Dining	EW-001	2700	5600	Ν		No
Living Dining	EW-001	2700	10900	E		No
1stFl Lift	EW-004	2500	1690	S		No
1stFl Lift	EW-004	2500	1600	E		No
Lobby	EW-001	2500	1200	E		No
Lobby	EW-001	2500	1710	S		No

0005518410-01 NatHERS Certificate

4.9 Star Rating as of 02 Jun 2021



Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Bed 1	EW-001	2700	2950	W		No
Bed 1	EW-001	2700	5300	Ν		No
Ensuite 1 dress	EW-001	2700	3000	Ν		No
Ensuite 1 dress	EW-001	2700	5710	E		No
Ensuite 1 dress	EW-001	2700	4400	S		No
Bed 2	EW-001	2700	4920	W		No
Bed 2	EW-001	2700	4000	Ν		No
Ensuite 2	EW-001	2700	1530	W		No
Ensuite 2	EW-001	2700	4160	S		No
Ensuite 2	EW-001	2700	450	E		No

Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
IVV-001	Brick wall	299.47	
IW-002	Concrete wall	28.73	

Floor type

Location	Construction	Area Sub-floor (m²) ventilatio	Added insulation (R-value)	Covering
Rumpus/Ground	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	10.50	R1.0	Ceramic tile
Rumpus/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	48.05	R1.0	Ceramic tile
Cinema/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	1.50	R1.0	Ceramic tile
Cinema/Ground	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	31.90	R1.0	Ceramic tile
Laundry/Ground	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	9.41	R1.0	Ceramic tile
LG lift/Ground	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	2.60	R1.0	Ceramic tile
Bed 3/Outdoor Air	LG Concrete Slab 200 mm: carpet/bare R1 insulation	17.29	R1.0	Carpet 10 + felt underlay 10
Bed 4/Ground	LG Concrete Slab 200 mm: carpet/bare R1 insulation	2.30	R1.0	Carpet 10 + felt underlay 10
Bed 4/Outdoor Air	LG Concrete Slab 200 mm: carpet/bare R1 insulation	13.30	R1.0	Carpet 10 + felt underlay 10
Bed 7/Ground	LG Concrete Slab 200 mm: carpet/bare R1 insulation	15.03	R1.0	Carpet 10 + felt underlay 10
Bed 5/Outdoor Air	LG Concrete Slab 200 mm: carpet/bare R1 insulation	16.82	R1.0	Carpet 10 + felt underlay 10
Bed 6/Outdoor Air	LG Concrete Slab 200 mm: carpet/bare R1 insulation	16.70	R1.0	Carpet 10 + felt underlay 10
Ensuite 3/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	3.53	R1.0	Ceramic tile
Ensuite 4/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	3.93	R1.0	Ceramic tile
Ensuite 7/Ground	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	2.00	R1.0	Ceramic tile

4.9 Star Rating as of 02 Jun 2021



Location	Construction	Area Su (m)ve	Incluation	Covering
Ensuite 7/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	1.93	R1.0	Ceramic tile
Ensuite 5/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	3.90	R1.0	Ceramic tile
Ensuite 6/Outdoor Air	LG Concrete Slab 200 mm: ceramic tiles/bare R1 insulation	3.90	R1.0	Ceramic tile
Garage/Laundry	GF concrete/PB ceiling below	9.41		
Garage/Bed 7	GF concrete/PB ceiling below	4.44		
Garage/Ground	GF Concrete Slab 200 mm: bare/bare	19.20		
GF Lift/LG lift	GF Concrete Slab 200 mm: bare/bare	2.60		
Entry/Rumpus	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	9.58		Ceramic tile
Entry/Cinema	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	15.40		Ceramic tile
Kitchen/Cinema	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	18.00		Ceramic tile
Kitchen/Bed 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	2.80		Ceramic tile
Kitchen/Outdoor Air	GF concrete/PB ceiling below	4.20		
Living Dining/Rumpus	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	43.47		Ceramic tile
Living Dining/Bed 3	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	17.29		Ceramic tile
Living Dining/Bed 4	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	15.60		Ceramic tile
Living Dining/Bed 7	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	10.59		Ceramic tile
Living Dining/Bed 5	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	5.40		Ceramic tile
Living Dining/Bed 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	9.30		Ceramic tile
Living Dining/Ensuite 3	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	3.53		Ceramic tile
Living Dining/Ensuite 4	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	3.93		Ceramic tile
Living Dining/Ensuite 7	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	3.93		Ceramic tile
Living Dining/Ensuite 5	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	3.90		Ceramic tile
Living Dining/Ensuite 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard	3.90		Ceramic tile
1stFI Lift/GF Lift	1st Conc fl 200mm: tile/Ceiling : 7	2.60		Ceramic tile
Lobby/Entry	1st Conc fl 200mm: tile/Ceiling : 7	14.87		Ceramic tile
Bed 1/Garage	1st Fl Concrete Slab 200 mm: carpet/plasterboard	1.50		Carpet 10 + felt underlay 10
Bed 1/Entry	1st Fl Concrete Slab 200 mm: carpet/plasterboard	6.63		Carpet 10 + felt underlay 10
Bed 1/Living Dining	1st Fl Concrete Slab 200 mm: carpet/plasterboard	12.00		Carpet 10 + felt underlay 10
Ensuite 1 dress/Living Dining	1st Conc fl 200mm: tile/Ceiling : 7	9.60		Ceramic tile
Ensuite 1 dress/Garage	1st Conc fl 200mm: tile/Ceiling : 7	9.50		Ceramic tile
Bed 2/Kitchen	1st FI Concrete Slab 200 mm: carpet/plasterboard	19.45		Carpet 10 + felt underlay 10
Ensuite 2/Kitchen	1st Conc fl 200mm: tile/Ceiling : 7	6.76		Ceramic tile

0005518410-01 NatHERS Certificate

4.9 Star Rating as of 02 Jun 2021



Location	Construction	Area Sub-flo (m) ventilat	incluation	Covering
Roofspace 1/Lobby	Plasterboard 10 mm + R3.5 bulk insulation	7.00	R3.5	
Roofspace 1/Bed 1	Plasterboard 10 mm + R3.5 bulk insulation	21.00	R3.5	
Roofspace 1/Ensuite 1 dress	Plasterboard 10 mm + R3.5 bulk insulation	19.30	R3.5	
Roofspace 2/Bed 2	Plasterboard 10 mm + R3.5 bulk insulation	19.45	R3.5	
Roofspace 2/Ensuite 2	Plasterboard 10 mm + R3.5 bulk insulation	6.76	R3.5	

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Living Dining/Rumpus	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Entry/Rumpus	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Kitchen/Cinema	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Entry/Cinema	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Garage/Laundry	GF concrete/PB ceiling below		No
GF Lift/LG lift	GF Concrete Slab 200 mm: bare/bare		No
Living Dining/Bed 3	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Bed 4	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Bed 7	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Garage/Bed 7	GF concrete/PB ceiling below		No
Living Dining/Bed 5	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Kitchen/Bed 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Bed 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Ensuite 3	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Ensuite 4	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Ensuite 7	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Ensuite 5	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Living Dining/Ensuite 6	GF Concrete Slab 200 mm: ceramic tiles/plasterboard		No
Bed 1/Garage	1st Fl Concrete Slab 200 mm: carpet/plasterboard		No
Ensuite 1 dress/Garage	1st Conc fl 200mm: tile/Ceiling : 7		No
1stFI Lift/GF Lift	1st Conc fl 200mm: tile/Ceiling : 7		No
Lobby/Entry	1st Conc fl 200mm: tile/Ceiling : 7		No
Bed 1/Entry	1st Fl Concrete Slab 200 mm: carpet/plasterboard		No
Bed 2/Kitchen	1st Fl Concrete Slab 200 mm: carpet/plasterboard		No
Ensuite 2/Kitchen	1st Conc fl 200mm: tile/Ceiling : 7		No
Bed 1/Living Dining	1st Fl Concrete Slab 200 mm: carpet/plasterboard		No
Ensuite 1 dress/Living Dining	1st Conc fl 200mm: tile/Ceiling : 7		No
Roofspace 1/Lobby	Plasterboard 10 mm + R3.5 bulk insulation	R3.5	No
Roofspace 1/Bed 1	Plasterboard 10 mm + R3.5 bulk insulation	R3.5	No

4.9 Star Rating as of 02 Jun 2021



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Roofspace 1/Ensuite 1 dress	Plasterboard 10 mm + R3.5 bulk insulation	R3.5	No
Roofspace 2/Bed 2	Plasterboard 10 mm + R3.5 bulk insulation	R3.5	No
Roofspace 2/Ensuite 2	Plasterboard 10 mm + R3.5 bulk insulation	R3.5	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm ²)	Sealed/unsealed
Rumpus	9	Downlight		Sealed
Cinema	8	Downlight		Sealed
Laundry	3	Downlight		Sealed
Bed 3	6	Downlight		Sealed
Bed 4	6	Downlight		Sealed
Bed 7	5	Downlight		Sealed
Bed 5	5	Downlight		Sealed
Bed 6	6	Downlight		Sealed
Ensuite 3	2	Downlight		Sealed
Ensuite 4	2	Downlight		Sealed
Ensuite 7	2	Downlight		Sealed
Ensuite 5	2	Downlight		Sealed
Ensuite 6	2	Downlight		Sealed
Garage	4	Downlight		Sealed
Entry	4	Downlight		Sealed
Kitchen	6	Downlight		Sealed
Living Dining	16	Downlight		Sealed
Lobby	4	Downlight		Sealed
Bed 1	4	Downlight		Sealed
Ensuite 1 dress	6	Downlight		Sealed
Bed 2	4	Downlight		Sealed
Ensuite 2	2	Downlight		Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
Rumpus	2	1400
Bed 3	1	1400
Bed 4	1	1400
Bed 7	1	1400
Bed 5	1	1400
Bed 6	1	1400

* Refer to glossary. Generated on 02 Jun 2021 using AccuRate Sustainability V2.4.3.21 for 40 Sunrise Road , PalmBeach , NSW , 2108

0005518410-01 NatHERS Certificate

4.9 Star Rating as of 02 Jun 2021



Location	Quantity	Diameter (mm)
Bed 1	1	1400
Bed 2	1	1400

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Slate roof tiles		50	Medium
LG: Terrace above insulated below R1.5	R1.5	50	Medium
GF Terrace above insulated below R1.5	R1.5	50	Medium
Concrete membrane roof Insulted above R1.5	R1.5	50	Medium
Planter above insulated below R1.5	R5.6	50	Medium



Explanatory notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings 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 softw are and made by the assessor who prepared this report), including assumptions about occupancy, indoor air temperature and local climate.

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area 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 dow nlights, vents, exhaust fans, rangehoods, 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
Conditioned	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.
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 category - exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered
Exposure category – open	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	the NOC groups buildings by their function and use, and assigns a classification code. NatHERS software models NOC Class 1, 2 or 4
(NOC) Class	buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional
Provisional value	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
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 device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released
Solar heat gain coefficient (SHGC)	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 know n as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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 chading factures	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy
Vertical shading features	screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).