## Nationwide House Energy Rating Scheme NatHERS Certificate No. 0008397994

Generated on 07 Feb 2023 using BERS Pro v4.4.1.5d (3.21)

## Property

Address

25 York Terrace , Bilgola Plateau , NSW , 2107

Lot/DP

215/16327

NCC Class' Type

New Dwelling

### Plans

Main Plan9.01.2023 DA IssuePrepared byBlue Sky Building Design

Construction and environmen

### Assessed floor area (m<sup>2</sup>)\*

Conditioned*	214.0
Unconditioned*	23.0
Total	237.0
Garage	0.0

NatHERS climate zone

Suburban

Exposure Type



## Accredited assessor

Name Business name Email Phone Accreditation No. Marcello Belcastro Evergreen Energy Consultants marcello@evergreenec.com.au 1300 584 010

DMN/18/1887

Assessor Accrediting Organisation

**Design Matters National** 

Declaration of interest

Declaration completed: no conflicts

### The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME

# 65.9 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

leating	Cooling
39.7	26.1
/J/m <sup>2</sup>	MJ/m <sup>2</sup>

### 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=vxsgHUzlu.

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? Substituted values must be based on the Australian Fenestration Rating Council (AFRC) protocol.

#### 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

I have modeled the shading in accordance with NatHERS principles

### Window and glazed door type and performance

#### Default\* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*		SHGC lower limit	SHGC upper limit	
No Data Availat	ble					

#### Custom\* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	SIGC	SHGC lower limit	SHGC upper limit	
GJA-090-34 A	GJA-090-34 A Type 477 Aluminium Bi-Fold Door SG 638CP	4.5	0.40	0.38	0.42	
GJA-011-34 A	GJA-011-34 A Type 130 Series Fixed Window SG 638CP	3.9	0.48	0.46	0.50	
GJA-013-39 A	GJA-013-39 A Type 131 Aluminium Sliding Window SG 638CP	4.5	0.46	0.44	0.48	
GJA-001-32 A	GJA-001-32 A Type 048 Series Awning Window SG 638CP	4.8	0.39	0.37	0.41	



### Custom\* windows

Window ID	Window Description	Maximum	SHGC*	Substitution tolerance ranges		
		U-value*	SHGC	SHGC lower limit	SHGC upper limit	
GJA-082-34 A	GJA-082-34 A Type 472 Aluminium Hinged Door SG 638CP	4.6	0.39	0.37	0.41	
GJA-017-37 A	GJA-017-37 A Type 136 Aluminium Double Hung Window SG 638CP	4.6	0.44	0.42	0.46	

## Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	GJA-090-34 A	n/a	2040	1640	n/a	90	E	No
Kitchen/Living	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Kitchen/Living	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Kitchen/Living	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Kitchen/Living	GJA-011-34 A	n/a	2040	460	n/a	00	E	No
Kitchen/Living	GJA-011-34 A	n/a	2040	460	n/a	00	E	No
Kitchen/Living	GJA-011-34 A	n/a	600	2170	n/a	00	S	No
Kitchen/Living	GJA-013-39 A	n/a	600	1570	n/a	45	S	No
Kitchen/Living	GJA-090-34 A	n/a	2100	5000	n/a	90	W	No
Kitchen/Living	GJA-001-32 A	n/a	1370	1850	n/a	90	W	No
Lounge	GJA-090-34 A	n/a	2040	1640	n/a	90	W	No
Lounge	GJA-090-34 A	n/a	2040	1640	n/a	90	E	No
Laundry	GJA-082-34 A	n/a	2100	820	n/a	90	S	No
Bathroom	GJA-013-39 A	n/a	600	1570	n/a	45	S	No
Master	GJA-001-32 A	n/a	1370	2650	n/a	10	E	No
Master	GJA-017-37 A	n/a	1370	850	n/a	10	W	No
Ensuite	GJA-001-32 A	n/a	1370	1850	n/a	60	E	No
Bedroom 1	GJA-001-32 A	n/a	1370	2650	n/a	10	W	No
Bedroom 2	GJA-001-32 A	n/a	1370	2650	n/a	10	W	No
Bath	GJA-017-37 A	n/a	1200	850	n/a	45	S	No
WC	GJA-017-37 A	n/a	1200	850	n/a	45	S	No
Hall	GJA-017-37 A	n/a	1370	850	n/a	10	Ν	No
Hall	GJA-017-37 A	n/a	1370	850	n/a	10	E	No
Hall	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Hall	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Hall	GJA-011-34 A	n/a	1800	850	n/a	00	Ν	No
Bed/Office	GJA-001-32 A	n/a	1370	2650	n/a	60	E	No



### Roof window type and performance

Default\* roof windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	3660	SHGC lower limit	SHGC upper limit	
No Data Available	9					
Custom* roof wir	ndows					
Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
WINDOW ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
VEL-011-01 W	Glass	2.6	0.24	0.23	0.25	

### Roof window schedule

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orientation	Outdoor shade	Indoor shade
Master	VEL-011-01 W	n/a	0	800	1200	S	No	No
Ensuite	VEL-011-01 W	n/a	0	1200	800	S	No	No

### 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 Ava	ailable							

## External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Kitchen/Living	2040	820	90	E

## External wall type

Wall	Wall	Solar	Wall shade	Bulk insulation	Reflective
ID	type	absorptance	(colour)	(R-value)	wall wrap*
EW-1	Fibro Cavity Panel Direct Fix	0.50	Medium	Anti-glare foil with bulk no gap R2.5	No

### External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)	
Kitchen/Living	EW-1	2700	6200	Ν	600	NO	

\* Refer to glossary. Generated on 07 Feb 2023 using BERS Pro v4.4.1.5d (3.21) for 25 York Terrace , Bilgola Plateau , NSW , 2107

#### 0008397994 NatHERS Certificate

5.0 Star Rating as of 07 Feb 2023



Kitchen/Living     EW-1     2700     4895     N     600     YES       Kitchen/Living     EW-1     2700     7595     S     700     NO       Kitchen/Living     EW-1     2700     7595     S     700     NO       Kitchen/Living     EW-1     2700     6500     W     4100     NO       Kitchen/Living     EW-1     2701     3200     W     600     NO       Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     5800     E     8525     NO       Lounge     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1890     S     600     NO       Mester     EW-1     2700     4995     E     600     NO       Bedroom1     EW-1     2700     3290     S     600 <th>Location</th> <th>Wall ID</th> <th>Height (mm)</th> <th>Width (mm)</th> <th>Orientation</th> <th>Horizontal shading feature* maximum projection (mm)</th> <th>Vertical shading feature (yes/no)</th>	Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Kitchen/Living     EW-1     2700     2190     E     10075     YES       Kitchen/Living     EW-1     2700     7595     S     700     NO       Kitchen/Living     EW-1     2700     6500     W     4100     NO       Kitchen/Living     EW-1     2701     3200     W     600     NO       Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1890     S     700     NO       Master     EW-1     2700     1890     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     3295     E     600	Kitchen/Living	EW-1	2700	2800	E	600	YES
Kitchen/Living     EW-1     2700     7595     S     700     NO       Kitchen/Living     EW-1     2700     6500     W     4100     NO       Kitchen/Living     EW-1     2701     3200     W     600     NO       Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1890     S     700     NO       Master     EW-1     2700     1890     S     700     NO       Master     EW-1     2700     1990     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     3295     E     600     NO<	Kitchen/Living	EW-1	2700	4895	Ν	600	YES
Kitchen/Living     EW-1     2700     6500     W     4100     NO       Kitchen/Living     EW-1     2701     3200     W     600     NO       Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1890     S     700     NO       Laundry     EW-1     2700     1890     S     700     NO       Master     EW-1     2700     1890     S     700     NO       Master     EW-1     2700     1890     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     1300     W     600     NO <	Kitchen/Living	EW-1	2700	2190	E	10075	YES
Kitchen/Living     EW-1     2701     3200     W     600     NO       Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1500     S     6600     YES       Lounge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     3295     E     600     NO       Bedroon 1     EW-1     2700     4395     S     600     NO <	Kitchen/Living	EW-1	2700	7595	S	700	NO
Lounge     EW-1     2700     2800     W     700     YES       Lounge     EW-1     2700     5600     N     600     NO       Lounge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1800     S     700     NO       Bathroom     EW-1     2700     1900     S     700     NO       Master     EW-1     2700     1900     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     S     600     NO  <	Kitchen/Living	EW-1	2700	6500	W	4100	NO
Jourge     EW-1     2700     5600     N     600     NO       Lourge     EW-1     2700     3800     E     8525     NO       Lourge     EW-1     2700     1500     S     6600     YES       Lounge     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3295     E     600     NO       Ensuite     EW-1     2700     4395     S     600     NO       Bedroom 1     EW-1     2700     3395     W     600     NO  <	Kitchen/Living	EW-1	2701	3200	W	600	NO
Jourge     EW-1     2700     3800     E     8525     NO       Lounge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     3295     E     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO	Lounge	EW-1	2700	2800	W	700	YES
Jourge     EW-1     2700     1500     S     6600     YES       Laundry     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     3295     E     600     NO       Bedroom 1     EW-1     2700     4195     S     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO	Lounge	EW-1	2700	5600	Ν	600	NO
Jaundry     EW-1     2700     1890     S     700     NO       Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Ensuite     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3490     S     600     NO	Lounge	EW-1	2700	3800	E	8525	NO
Bathroom     EW-1     2700     1990     S     700     NO       Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     2595     E     600     NO       Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       MC     EW-1     2700     3295     W     600     NO	Lounge	EW-1	2700	1500	S	6600	YES
Master     EW-1     2700     5600     N     600     NO       Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     1300     W     600     YES       Ensuite     EW-1     2700     2595     E     600     NO       Bedroom 1     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       MC     EW-1     2700     3295     W     600     NO       MC     EW-1     2700     3490     S     600     NO	Laundry	EW-1	2700	1890	S	700	NO
Master     EW-1     2700     4095     E     600     NO       Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     1300     W     600     YES       Ensuite     EW-1     2700     2595     E     600     NO       Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3490     S     600     NO       WC     EW-1     2700     3490     S     600     NO       Hall     EW-1     2700     1795     N     600     NO	Bathroom	EW-1	2700	1990	S	700	NO
Master     EW-1     2700     3290     S     600     NO       Master     EW-1     2700     1300     W     600     YES       Ensuite     EW-1     2700     2595     E     600     NO       Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bath     EW-1     2700     3295     W     600     NO       WC     EW-1     2700     1290     S     600     NO       Hall     EW-1     2700     1300     E     600     YES  <	Master	EW-1	2700	5600	Ν	600	NO
Master     EW-1     2700     1300     W     600     YES       Ensuite     EW-1     2700     2595     E     600     NO       Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bath     EW-1     2700     3490     S     600     NO       WC     EW-1     2700     1290     S     600     NO       Hall     EW-1     2700     1795     N     600     YES	Master	EW-1	2700	4095	E	600	NO
Ensuite     EW-1     2700     2595     E     600     NO       Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bath     EW-1     2700     1290     S     600     NO       WC     EW-1     2700     1795     N     600     NO       Hall     EW-1     2700     1300     E     600     YES	Master	EW-1	2700	3290	S	600	NO
Ensuite     EW-1     2700     4195     S     600     NO       Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3490     S     600     NO       Bath     EW-1     2700     1290     S     600     NO       WC     EW-1     2700     1795     N     600     NO       Hall     EW-1     2700     1300     E     600     YES       Hall     EW-1     2700     4895     N     600     YES	Master	EW-1	2700	1300	W	600	YES
Bedroom 1     EW-1     2700     4395     N     600     NO       Bedroom 1     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3490     S     600     NO       Bath     EW-1     2700     1290     S     600     NO       Hall     EW-1     2700     1795     N     600     NO       Hall     EW-1     2700     1300     E     600     YES       Hall     EW-1     2700     4895     N     600     YES <td>Ensuite</td> <td>EW-1</td> <td>2700</td> <td>2595</td> <td>E</td> <td>600</td> <td>NO</td>	Ensuite	EW-1	2700	2595	E	600	NO
Bedroom 1     EW-1     2700     3395     W     600     NO       Bedroom 2     EW-1     2700     4395     S     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bedroom 2     EW-1     2700     3295     W     600     NO       Bath     EW-1     2700     3490     S     600     NO       WC     EW-1     2700     1290     S     600     NO       Hall     EW-1     2700     1795     N     600     NO       Hall     EW-1     2700     1300     E     600     YES       Hall     EW-1     2700     4895     N     600     YES       Hall     EW-1     2700     4895     N     600     YES       Bed/Office     EW-1     2700     3695     E     2500     NO	Ensuite	EW-1	2700	4195	S	600	NO
Bedroom 2EW-127004395S600NOBedroom 2EW-127003295W600NOBathEW-127003490S600NOWCEW-127001290S600NOHallEW-127001795N600NOHallEW-127001300E600YESHallEW-127004895N600YESBed/OfficeEW-127003695E2500NO	Bedroom 1	EW-1	2700	4395	Ν	600	NO
Bedroom 2EW-127003295W600NOBathEW-127003490S600NOWCEW-127001290S600NOHallEW-127001795N600NOHallEW-127001300E600YESHallEW-127004895N600YESBed/OfficeEW-127003695E2500NO	Bedroom 1	EW-1	2700	3395	W	600	NO
BathEW-127003490S600NOWCEW-127001290S600NOHallEW-127001795N600NOHallEW-127001300E600YESHallEW-127004895N600YESBed/OfficeEW-127003695E2500NO	Bedroom 2	EW-1	2700	4395	S	600	NO
WC     EW-1     2700     1290     S     600     NO       Hall     EW-1     2700     1795     N     600     NO       Hall     EW-1     2700     1300     E     600     YES       Hall     EW-1     2700     4895     N     600     YES       Bed/Office     EW-1     2700     3695     E     2500     NO	Bedroom 2	EW-1	2700	3295	W	600	NO
HallEW-127001795N600NOHallEW-127001300E600YESHallEW-127004895N600YESBed/OfficeEW-127003695E2500NO	Bath	EW-1	2700	3490	S	600	NO
HallEW-127001300E600YESHallEW-127004895N600YESBed/OfficeEW-127003695E2500NO	WC	EW-1	2700	1290	S	600	NO
Hall     EW-1     2700     4895     N     600     YES       Bed/Office     EW-1     2700     3695     E     2500     NO	Hall	EW-1	2700	1795	Ν	600	NO
Bed/Office EW-1 2700 3695 E 2500 NO	Hall	EW-1	2700	1300	E	600	YES
	Hall	EW-1	2700	4895	Ν	600	YES
Bed/Office     EW-1     2700     3695     S     700     NO	Bed/Office	EW-1	2700	3695	E	2500	NO
	Bed/Office	EW-1	2700	3695	S	700	NO

## Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
IW-1 - Cavity wall, direct fix plasterboard, single gap		154.00	No insulation

## Floor type

Location	Construction	Area Sub-floor (m²) ventilation	Added insulation (R-value)	Covering
Kitchen/Living	Suspended Timber Floor 19mm	91.40 Enclosed	No Insulation	Cork Tiles or Parquetry 8mm

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### 5.0 Star Rating as of 07 Feb 2023



Location	Construction	Area Sub-floor (m) ventilatior	Added insulation (R-value)	Covering
Lounge	Suspended Timber Floor 19mm	21.10 Enclosed	No Insulation	Cork Tiles or Parquetry 8mm
Laundry	Suspended Timber Floor 19mm	6.40 Enclosed	No Insulation	Ceramic Tiles 8mm
Bathroom	Suspended Timber Floor 19mm	5.10 Enclosed	No Insulation	Ceramic Tiles 8mm
Master/Kitchen/Living	Timber Above Plasterboard 19mm	9.60	No Insulation	Carpet+Rubber Underlay 18mm
Master/Lounge	Timber Above Plasterboard 19mm	12.60	No Insulation	Carpet+Rubber Underlay 18mm
Master/Laundry	Timber Above Plasterboard 19mm	0.60	No Insulation	Carpet+Rubber Underlay 18mm
Master/Bathroom	Timber Above Plasterboard 19mm	2.30	No Insulation	Carpet+Rubber Underlay 18mm
Master/Bed/Office	Timber Above Plasterboard 19mm	2.20	No Insulation	Carpet+Rubber Underlay 18mm
Master	Suspended Timber Floor 19mm	2.60 Open	No Insulation	Carpet+Rubber Underlay 18mm
Ensuite/Kitchen/Living	Timber Above Plasterboard 19mm	1.00	No Insulation	Carpet+Rubber Underlay 18mm
Ensuite/Bed/Office	Timber Above Plasterboard 19mm	5.80	No Insulation	Carpet+Rubber Underlay 18mm
Ensuite	Suspended Timber Floor 19mm	3.80 Open	No Insulation	Ceramic Tiles 8mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	14.60	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/Kitchen/Living	Timber Above Plasterboard 19mm	14.20	No Insulation	Carpet+Rubber Underlay 18mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	7.40	No Insulation	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	0.60	No Insulation	Ceramic Tiles 8mm
WC/Kitchen/Living	Timber Above Plasterboard 19mm	0.60	No Insulation	Ceramic Tiles 8mm
WC/Laundry	Timber Above Plasterboard 19mm	2.50	No Insulation	Ceramic Tiles 8mm
Hall/Kitchen/Living	Timber Above Plasterboard 19mm	22.00	No Insulation	Carpet+Rubber Underlay 18mm
Bed/Office	Suspended Timber Floor 19mm	13.40 Enclosed	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Kitchen/Living	Plasterboard	Bulk Insulation R4	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Lounge	Plasterboard	Bulk Insulation R4	No
Lounge	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R4	No
Laundry	Timber Above Plasterboard	No Insulation	No
Bathroom	Plasterboard	Bulk Insulation R4	No
Bathroom	Timber Above Plasterboard	No Insulation	No
Master	Plasterboard	Bulk Insulation R4	No
Ensuite	Plasterboard	Bulk Insulation R4	No
Bedroom 1	Plasterboard	Bulk Insulation R4	No
Bedroom 2	Plasterboard	Bulk Insulation R4	No
Bath	Plasterboard	Bulk Insulation R4	No
WC	Plasterboard	Bulk Insulation R4	No
Hall	Plasterboard	Bulk Insulation R4	No



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Bed/Office	Plasterboard	Bulk Insulation R4	No
Bed/Office	Timber Above Plasterboard	No Insulation	No

## Ceiling penetrations\*

Location	Quantity	Туре	Diameter (mm <sup>2</sup> )	Sealed/unsealed	
Kitchen/Living	1	Exhaust Fans	300	Sealed	
Laundry	1	Exhaust Fans	300	Sealed	
Bathroom	1	Exhaust Fans	300	Sealed	
Ensuite	1	Exhaust Fans	300	Sealed	
Bath	1	Exhaust Fans	300	Sealed	
WC	1	Exhaust Fans	300	Sealed	

## **Ceiling** fans

Location	Quantity	Diameter (mm)
Kitchen/Living	1	1400
Lounge	1	1400
Master	1	1400
Bedroom 1	1	1400
Bedroom 2	1	1400
Bed/Office	1	1400

## Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.4	0.60	Medium
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.60	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.
, and a onergy roug	the predicted and drift of energy required for the purpose of the NathERS assessment. Note, this may not be consistent with the floor area in the
Assessed floor area	design documents.
O liter and the first	features that require a penetration to the ceiling, including dow nlights, vents, exhaust fans, rangehoods, chimneys and flues. Excludes
Ceiling penetrations	fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
	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 10me.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.
Color hast usin as officiant (CLCC)	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.
Vortical 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).