

- e. energy@greenchoiceconsulting.com.au
- t. 1300 864 944



#### Address:

Unit 1, Lot 1 (#4B) Holloway Place, Curl Curl NSW 2096

### **GC Consulting Job Number:**

ER1-T4057 Unit 1

#### **Client Job Number:**

24-1120

### **Building Type and Function:**

Class 1 - New Home

#### Date:

24/06/2025

#### **Assessment Method and Documentation:**

NCC 2022 Volume Two - Amendment One

Compliance with Part H6 Energy Efficiency

Comprehensive Report indicating the final compliance outcome as assessed

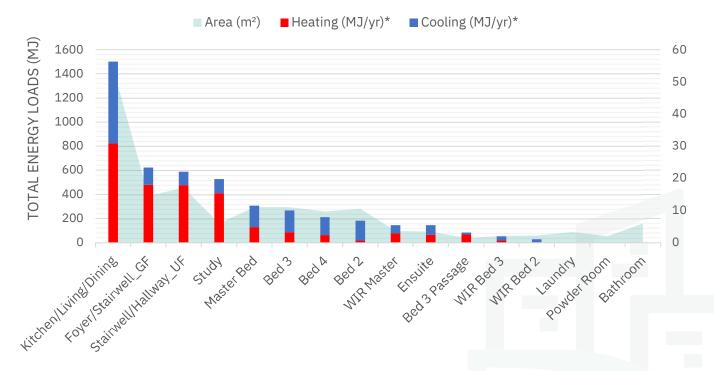
## **Thermal Performance**

<b>Achieved Rating</b>		Target Rating		
Total (MJ/m²) Heating (MJ/m²)	30 17.2	Total (MJ/m²) Heating (MJ/m²)	30 25.0	7.0 Stars
Cooling (MJ/m²)	12.7	Cooling (MJ/m²)	18.0	7.0 Stars

### Compliance is achieved when the following conditions are met:

- 1. The heating load must be equal to or lower than the heating load limit.
- 2. The cooling load must be equal to or lower than the cooling load limit.
- 3. The total energy must be equal to or lower than the total energy limit.

#### **ZONED ENERGY LOAD DISTRIBUTION TOTALS (MJ)**





# **Construction Requirements**

#### **External Walls**

Construction	Insulation	Frame	Notes
Hebel Panel/AAC	R2.5 Insulation + Wrap	Timber Frame	As per drawings
Framed	R2.5 Insulation + Wrap	Timber Frame	As per drawings
Partiwall	R2.0 Insulation	Timber Frame	As per drawings

#### **Internal Walls**

Construction	Insulation	Notes
Partiwall	R2.0 Insulation	As per drawings
Stud Frame	R2.0 Insulation	Laundry, Powder & Bath
Stud Frame	None	Remainder

## Floor/s

Construction	Underfloor Insulation	Slab Edge Insulation	Notes
Concrete Slab-on-Ground	None	None	Ground Floor
Framed Suspended	R2.5 Insulation	N/A	Suspended Floors over porch
Framed Suspended	None	None	Remaining Suspended Floors

Floor coverings as per drawings/client notes (NatHERS Defaults modelled if not specified)

## Ceiling/s

Construction	Insulation	Notes
Plasterboard	<b>R6.0 Insulation</b>	Throughout
Plasterboard	R3.0 Insulation	To the ceiling perimeter

## Roof/s

Construction	Insulation	Notes	Colour
Metal	R1.3 Anticon	As per drawings	Not nominated

#### **Penetrations**

### **Penetrations**

If downlights are installed, they must be IC/IC-F rated
Exhaust fans must be sealed
One ceiling fan to the Kitchen/Living with a minimum diameter of 1500mm



## Glazing

## **Supplier**

Not nominated - NatHERS / WERSLink defaults have been used

Туре	Colour	U-Value	SHGC	Glass	Notes
Sliding Windows	Not nominated	6.45	0.73	Single Glazed	As per documentation
Fixed Windows	Not nominated	6.46	0.78	Single Glazed	As per documentation
Sliding Doors	Not nominated	6.41	0.73	Single Glazed	As per documentation
Sliding Windows	Not nominated	4.49	0.46	Low-E	As per documentation
Fixed Windows	Not nominated	4.48	0.46	Low-E	As per documentation
Sliding Doors	Not nominated	4.49	0.46	Low-E	As per documentation

The U-Value of the supplied product must be equal to or lower than the above nominated values.

A 5% tolerance is permitted to the above nominated SHGC values.

Your NatHERS Certificate may show codes for other suppliers. Suppliers may not have all their windows available in the software.

Contact us if your supplier cannot meet the values above.

#### **Additional Notes**



## **Declaration of Compliance**

I certify that the details provided within this energy efficiency report are true, correct, and reflective of the plans and specifications of this dwelling. I certify that I am a specialist in the relevant discipline and compliance has been demonstrated with the requirements of the National Construction Code (NCC) as outlined in this report.

Name of assessor: Albert Burton

Qualification: CPP41212 Certificate IV in NatHERS Assessment

Accreditation number: DMN/21/2045

Signature: Albert Burton

Company Name: Green Choice Consulting Pty Ltd (ABN 63 658 893 415)

#### **Additional Provisions**

This assessment demonstrates compliance with Part H6 of the NCC. Calculations have been done using Hero and the Chenath Engine (v3.22).

- (1) Building must comply with Section 13 of the ABCB Housing Provisions clauses—
  - (a) 13.2.2, for building fabric thermal insulation; and
  - (b) 13.2.3(7) and 13.2.5(5), for thermal breaks; and
  - (c) 13.2.3(5), for compensating for a loss of ceiling insulation, other than where the house energy rating software has compensated for a loss of ceiling insulation; and
  - (d) 13.2.6(4), 13.2.6(5) and 13.2.6(6) for floor edge insulation; and
  - (e) Part 13.4, for building sealing
- (2) To comply with H6P2, in addition to S42C3, a building must comply with Part 13.7 of the ABC Housing Provisions.

Services must be installed as per Part 13.7.

All metal roof framing must have a thermal break, consisting of a material with an R-Value of greater than or equal to 0.2, installed between the metal sheet roofing and its supporting metal purlins, metal rafters or metal battens.

All metal wall framing must have a thermal break, consisting of a material with an R-Value greater than or equal to 0.2, installed between the external cladding and the metal frame.



## **State-Specific Provisions**

### QLD only provisions (only applies for projects in QLD)

In accordance with the Queensland Development Code Part 4.1-

For applying S42C2 of Specification 42 of the BCA, a reference to climate zones 1 and 2 is taken to be a reference to climate zones 1, 2, 3 or 5.

Toilet cisterns must have a dual flush function, minimum 4-star WELS rating and be compatible with the size of the toilet bowl to allow for proper functioning of the toilet.

#### WA only provisions (only applies for projects in WA)

All tap fittings other than bath outlets and garden taps must be a minimum of 4 stars WELS rated.

All showerheads must be a minimum of 3 stars WELS rated.

All sanitary flushing systems must be a minimum of 4 stars WELS rated dual flush.

An outdoor private swimming pool or spa associated with a Class 1 building must be supplied with a cover, blanket or the like that is designed to reduce water evaporation and is accredited under the Smart Approved Watermark Scheme governed by the Australian Water Association, the Irrigation Association of Australia, the Nursery and Garden Industry Australia and the Water Services Association of Australia.

All internal heated water outlets (such as taps, showers and washing machine water supply fittings) must be connected to a heated water system or a re-circulating heated water system with pipes installed and insulated in accordance with AS/NZS 3500: Plumbing and Drainage, Part 4 Heated Water Services. The pipe from the heated water system or re-circulating heated water system to the furthest heated water outlet must not be more than 20 m in length or 2 liters of internal volume.

## NSW only provisions (only applies for projects in NSW)

All requirements in this report are in accordance with the BASIX requirements.

All insulation must be installed as per NSW H6P1.

Building must be sealed as per NSW H6P2.

Domestic services must be selected and have features as per NSW H6P3.



## **Intellectual Property and Legal Disclaimer**

This document is the intellectual property of Green Choice Consulting Pty Ltd (ACN 658 893 415). Except as permitted under the Copyright Act 1998 or with prior written consent, no part of this document may be reproduced, stored, or transmitted in any form.

The contents of this report are based on the architectural drawings, specifications, and other materials supplied by the client at the time of assessment. Any modifications to the building design—no matter how minor—may affect the validity of this assessment. If changes occur, a revised assessment will be required to verify ongoing compliance. Additional fees may apply for reassessment.

Green Choice Consulting Pty Ltd holds no responsibility if the project is not constructed in accordance with the requirements of the current National Construction Code (NCC) and/or the requirements detailed in this report. Any deviation from the documented design elements may invalidate this assessment and necessitate recertification.

This report is prepared solely to demonstrate compliance with the energy efficiency provisions of the National Construction Code. It does not account for other aspects of the building code or project-specific compliance requirements. The client is responsible for ensuring that all materials and products used in construction meet the relevant codes and standards. Green Choice Consulting Pty Ltd does not accept liability for the selection or use of non-compliant products.

This document may be updated, amended, or replaced without notice. Hard copies may not reflect the most current information. Where this report is to be used for regulatory or statutory purposes, it is the responsibility of the user to confirm its currency with Green Choice Consulting Pty Ltd.

No liability is accepted for unauthorised modifications or partial reproductions of this report. Any reliance on an altered or incomplete version is at the user's own risk.

All findings are based on the accuracy of client-supplied information. Green Choice Consulting Pty Ltd disclaims liability for any losses or damage/s resulting from inaccuracies in the documentation provided, whether direct or consequential.

This report is intended for the named recipient(s) only. It may contain privileged or confidential information and must not be shared with third parties without written permission. Unauthorised use or disclosure may be unlawful.

To the extent allowed by law, Green Choice Consulting Pty Ltd, including its directors, employees, and subcontractors, shall not be liable for any loss or damage arising from the use of this report. The client and any authorised recipients agree to release Green Choice Consulting Pty Ltd from all claims related to the use or reliance on the contents herein.



# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-CZEORF-01

Generated on 24 Jun 2025 using Hero 4.1 (Chenath v3.23)

## **Property**

Address Unit 1, Lot 1 (#4B) Holloway Place, Curl

Curl, NSW, 2096

**Lot/DP** 1/604615

NCC Class\* 1a

Floor/all Floors 1 of 2 floors

**Type** New

#### **Plans**

Main Plan 24-1120

Prepared by Peninsula Homes

#### Construction and environment

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

Conditioned\* 143.6 Suburban

Unconditioned\* 11.5 NatHERS climate zone

Total 155.1 56 - Mascot AMO

Garage 0.0



## Accredited assessor

Name Albert Burton

Business name Green Choice Consulting

Email albert@greenchoiceconsulting.com.au

DMN

 Phone
 +61 045219132

 Accreditation No.
 DMN/21/2045

**Assessor Accrediting** 

Organisation

Declaration of interest No Conflict of Interest

## **NCC** Requirements

BCA provisions Volume 2

State/Territory variation Yes

#### National Construction Code (NCC) requirements

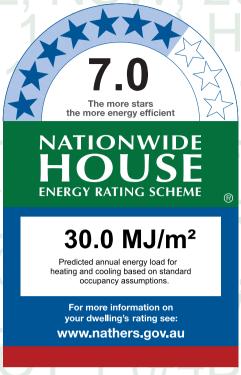
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

# Thermal performance star rating



## Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

Heating Cooling
Modelled 17.2 12.7
Load limits 25 18

#### Features determining load limits

Floor type

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

# Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

#### Verification

To verify this certificate, scan the QR code or visit

http://www.hero-software.com. au/pdf/HR-CZEORF-01.

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





## About the ratings

#### Thermal performance rating

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

#### Whole of Home performance rating

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

## **Heating and Cooling Load Limits**

#### Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the *ABCB Standard: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

#### **Setting options:**

Floor type:

CSOG - Concrete Slab on Ground

SF - Suspended Floor (or a mixture of CSOG and SF)

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - Not Applicable

Outdoor living area:

Yes

No

NA - Not Applicable

Outdoor living area ceiling fan:

Yes

No

NA - Not Applicable



# Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

# Predicted Whole of Home annual impact by appliance

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

**Energy use:** 

No Whole of Home performance assessment conducted for this certificate.

#### Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.



Certificate check	Approva	stage	Construc stage	tion	
The checklist covers important items impacting the dwelling's ratings.  It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	ent authority/	Builder checked	ent authority/	Occupancy/other
Note: The boxes indicate when and who should check each item.  It is not mandatory to complete this checklist.	Asse	Consent	Build	Consent	nooo
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'External wall type table' on this Certificate?					
Does the external wall shade (colour) match what is shown in the <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 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the <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 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.0 Star Rating	as of 24	Jun 2025
-----------------	----------	----------

A	
H	OUSE

Certificate check	Approva	l stage	Construct stage	tion	
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included in	n the Nat	HERS as	sessment	<del>')</del>	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home	e assessr	nent is no	ot conduc	cted)	
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the 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. As include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					



## Room schedule

Room	Zone Type	Area (m²)
Kitchen/Living/Dining	Kitchen/Living	54.29
Laundry	Unconditioned	3.44
Powder Room	Unconditioned	2.08
Study	Day Time	6.06
Foyer/Stairwell_GF	Day Time	14.72
Bed 3	Bedroom	11.12
WIR Bed 3	Night Time	2.21
Bed 2	Bedroom	10.57
WIR Bed 2	Night Time	2.34
Bathroom	Unconditioned	5.95
Ensuite	Night Time	3.45
Master Bed	Bedroom	11.15
Bed 4	Bedroom	9.78
Bed 3 Passage	Day Time	1.55
Stairwell/Hallway_UF	Day Time	17.14
WIR Master	Night Time	3.66

## Window and glazed door type and performance

#### Default\* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges	
		U-value*		lower limit	upper limit
HAFWS-045-045	Housing Aluminium Fixed Window Single Glazed	4.5	0.46	0.44	0.48
HAFWS-065-077	Housing Aluminium Fixed Window Single Glazed	6.5	0.78	0.74	0.82
HASDS-045-045	Housing Aluminium Sliding Door Single Glazed	4.5	0.46	0.44	0.48
HASDS-065-077	Housing Aluminium Sliding Door Single Glazed	6.4	0.73	0.70	0.77
HASDS-065-077	Housing Aluminium Sliding Door Single Glazed	6.4	0.73	0.70	



## Window and glazed door type and performance

#### Default\* windows

Window ID	Window Description	Maximum	SHGC*	tolerance ranges	
		U-value*		lower limit	upper limit
HASWS-045-045	Housing Aluminium Sliding Window Single Glazed	4.5	0.46	0.43	0.48
HASWS-065-077	Housing Aluminium Sliding Window Single Glazed	6.5	0.73	0.70	0.77

#### **Custom\* windows**

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges
	Wildow Beschption	U-value*		lower limit upper limit

None

## Window and glazed door schedule

Williaow alla gic	<b>1200 4001</b> 30110	Judic						
Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
Bathroom	HASWS-065-077	W09	800	1500	Sliding	10	ENE	None
Bed 2	HASWS-065-077	W10	1200	1500	Sliding	10	ENE	None
Bed 3	HASWS-065-077	W11	1200	1810	Sliding	10	NNW	None
Bed 4	HASWS-065-077	W12	1200	1810	Sliding	10	NNW	None
Ensuite	HASWS-065-077	W08	800	1500	Sliding	10	ENE	None
Foyer/Stairwell_GF	HAFWS-045-045	W15	2200	325	Fixed	0	SSE	None
Foyer/Stairwell_GF	HAFWS-045-045	W16	2200	325	Fixed	0	SSE	None
Kitchen/Living/Dining	HASWS-045-045	W04-1	1625	1810	Sliding	45	ENE	None
Kitchen/Living/Dining	HAFWS-045-045	W04-2	625	1810	Fixed	0	ENE	None
Kitchen/Living/Dining	HASDS-045-045	W05	2250	3950	Sliding Door	45	ENE	None
Kitchen/Living/Dining	HAFWS-045-045	W06	1200	2270	Fixed	0	NNW	None
Laundry	HASDS-065-077	W03	2100	1570	Sliding Door	45	ENE	None
Master Bed	HASWS-065-077	W07	1200	1500	Sliding	10	ENE	None
Master Bed	HASWS-065-077	W13	1200	1570	Sliding	10	SSE	None
Powder Room	HASWS-065-077	W02	600	1070	Sliding	45	ENE	None
Study	HASWS-065-077	W01	1200	1570	Sliding	45	SSE	None



## Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
WIR Master	HAFWS-065-077	W14	600	1700	Fixed	0	SSE	None

## Roof window type and performance value

#### Default\* roof windows

Window ID	Window Description	Maximum SHGC* 1	SHGC substitution colerance ranges
	•	U-value*	ower limit upper limit
None			

#### **Custom\* roof windows**

Window ID	Vindow ID Window Description Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
Willdow ID		U-value*		lower limit upper limit

None

## **Roof window** schedule

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

## Skylight type and performance

Skylight ID	Skylight description	
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
Foyer/Stairwell_GF	2200	820	90	SSE

# External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
AAC-50-REFL-CAV	AAC (50mm) Clad (Refl Cavity) Stud Wall	0.50	Medium	2.50	Yes
FC-REFL-CAV	Fibre-Cement Clad Battened (Refl Cavity) Stud Wall	0.50	Medium	2.50	Yes



## **External wall** type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
P-PARTI	Partiwall	0.50	Medium	4.00	No

## External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bathroom	AAC-50-REFL-CAV	2450	1750	ENE	578	Yes
Bed 2	AAC-50-REFL-CAV	2450	3031	ENE	578	Yes
Bed 3	AAC-50-REFL-CAV	2450	2800	NNW	578	Yes
Bed 3	AAC-50-REFL-CAV	2450	3481	ENE	578	Yes
Bed 4	AAC-50-REFL-CAV	2450	2621	NNW	578	Yes
Ensuite	AAC-50-REFL-CAV	2450	1940	ENE	578	Yes
Foyer/Stairwell_GF	P-PARTI	2950	2797	WSW		Yes
Foyer/Stairwell_GF	FC-REFL-CAV	2950	2030	SSE	542	Yes
Kitchen/Living/Dining	AAC-50-REFL-CAV	2950	9852	ENE	2424	Yes
Kitchen/Living/Dining	AAC-50-REFL-CAV	2950	5511	NNW		Yes
Laundry	AAC-50-REFL-CAV	2950	1940	ENE	2424	Yes
Master Bed	AAC-50-REFL-CAV	2450	3091	ENE	578	Yes
Master Bed	AAC-50-REFL-CAV	2450	3381	SSE	578	Yes
Powder Room	AAC-50-REFL-CAV	2950	1190	ENE	2434	Yes
Stairwell/Hallway_UF	P-PARTI	2450	1317	WSW	602	Yes
Study	AAC-50-REFL-CAV	2950	1801	ENE	2424	Yes
Study	AAC-50-REFL-CAV	2950	3381	SSE		Yes
Study	AAC-50-REFL-CAV	2950	476	WSW		Yes
WIR Bed 3	AAC-50-REFL-CAV	2450	1290	ENE	578	Yes
WIR Master	AAC-50-REFL-CAV	2450	152	SSE	578	Yes
WIR Master	FC-REFL-CAV	2450	1880	SSE	642	Yes
WIR Master	P-PARTI	2450	1800	WSW	600	Yes



## Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	41.1	2.00
INT-PB	Internal Plasterboard Stud Wall	77.1	0.00
P-PARTI	Partiwall	63.4	4.00

## Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Bathroom	TIMB-001: Suspended Timber Floor	6.0	N/A	0.15	Tile (8mm)
Bed 2	TIMB-001: Suspended Timber Floor	10.6	N/A	0.15	Timber (12mm)
Bed 3	TIMB-001: Suspended Timber Floor	11.1	N/A	0.15	Timber (12mm)
Bed 3 Passage	TIMB-001: Suspended Timber Floor	1.5	N/A	0.15	Timber (12mm)
Bed 4	TIMB-001: Suspended Timber Floor	9.8	N/A	0.15	Timber (12mm)
Ensuite	TIMB-001: Suspended Timber Floor	3.5	N/A	0.15	Tile (8mm)
Foyer/Stairwell_GF	CSOG-100: Concrete Slab on Ground (100mm)	14.7	N/A	0.00	Carpet
Kitchen/Living/Dining	CSOG-100: Concrete Slab on Ground (100mm)	54.3	N/A	0.00	Tile (8mm)
Laundry	CSOG-100: Concrete Slab on Ground (100mm)	3.4	N/A	0.00	Tile (8mm)
Master Bed	TIMB-001: Suspended Timber Floor	11.2	N/A	0.15	Timber (12mm)
Powder Room	CSOG-100: Concrete Slab on Ground (100mm)	2.1	N/A	0.00	Tile (8mm)
Stairwell/Hallway_UF	TIMB-001: Suspended Timber Floor	17.1	N/A	0.15	Timber (12mm)
Study	CSOG-100: Concrete Slab on Ground (100mm)	6.1	N/A	0.00	Carpet
WIR Bed 2	TIMB-001: Suspended Timber Floor	2.3	N/A	0.15	Timber (12mm)
WIR Bed 3	TIMB-001: Suspended Timber Floor	2.2	N/A	0.15	Timber (12mm)
WIR Master	TIMB-001: Suspended Timber Floor	3.1	N/A	0.15	Timber (12mm)
WIR Master	TIMB-002: Suspended Timber Floor - Lined Below	0.5	N/A	2.50	Timber (12mm)

# Ceiling type

Location	Construction	Bulk insulation (R-value)
Location	Construction	wrap*



## Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Bathroom	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Bathroom	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Bed 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 3 Passage	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Bed 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Ensuite	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Ensuite	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Master Bed	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
Master Bed	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Stairwell/Hallway_UF	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Stairwell/Hallway_UF	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
WIR Bed 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes
WIR Bed 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR Master	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR Master	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	3.00	Yes

# Ceiling penetrations\*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
Bathroom	2	Downlight	90	Sealed
Bathroom	1	Exhaust Fan	350	Sealed



## **Ceiling** penetrations\*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
Bed 2	3	Downlight	90	Sealed
Bed 3	3	Downlight	90	Sealed
Bed 3 Passage	1	Downlight	90	Sealed
Bed 4	2	Downlight	90	Sealed
Ensuite	1	Exhaust Fan	350	Sealed
Ensuite	1	Downlight	90	Sealed
Foyer/Stairwell_GF	3	Downlight	90	Sealed
Kitchen/Living/Dining	1	Exhaust Fan	350	Sealed
Kitchen/Living/Dining	11	Downlight	90	Sealed
Laundry	1	Downlight	90	Sealed
Master Bed	3	Downlight	90	Sealed
Powder Room	1	Downlight	90	Sealed
Stairwell/Hallway_UF	3	Downlight	90	Sealed
Study	2	Downlight	90	Sealed
WIR Bed 2	1	Downlight	90	Sealed
WIR Bed 3	1	Downlight	90	Sealed
WIR Master	1	Downlight	90	Sealed

# Ceiling fans

Location	Quantity	Diameter (mm)
Kitchen/Living/Dining	1	1500

## Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.50	Medium

## Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions	Frame spacing	Steel thickness	Thermal Break
bullding element	(height x width, mm)	(mm)	(BMT mm)	(R-value)



## Thermal bridging schedule for steel frame elements

Building element Steel section dimensions Frame spacing Steel thickness Thermal Break (height x width, mm) (mm) (BMT mm) (R-value)

None

## **Appliance** schedule

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

**Cooling system** 

Type Location Fuel Type efficiency / performance Recommended capacity

No Whole of Home Data

**Heating system** 

Type Location Fuel Type efficiency / performance capacity

No Whole of Home Data

Hot water system

Type Fuel type Water efficiency / daily load CER Zone STC [litres]

No Whole of Home Data

Pool / spa equipment

Type Fuel type English Fuel ty

No Whole of Home Data

**Onsite Renewable Energy** schedule

Type Orientatation Generation Capacity [kW]

No Whole of Home Data

Battery schedule

Type Storage Capacity [kWh]

No Whole of Home Data



## **Explanatory Notes**

#### About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NathERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value\* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value\*.

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

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

#### **Accredited assessors**

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

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

are not quality assured.

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

#### **Disclaimer**

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

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

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

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

## **Glossary**

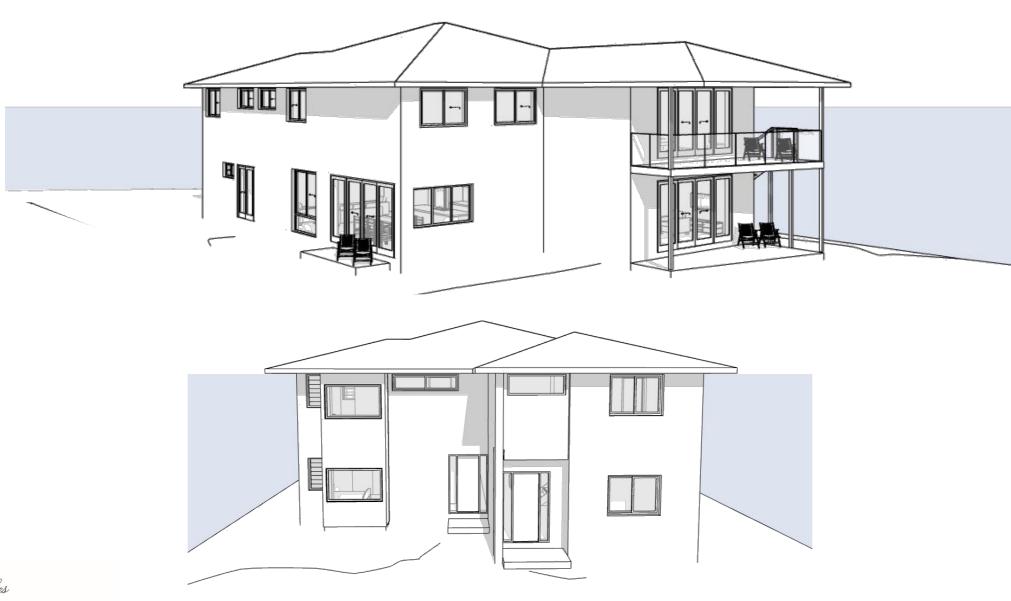
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent 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 Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)



# PROPOSED RESIDENCES

# Michelle + Shaun Walsh

# 4B Holloway Place CURL CURL NSW 2096





BUILT JUST FOR YOU.

















SURVEY DETAILS PROVIDED BY CMS SURVEYORS PTY LTD REF 23962





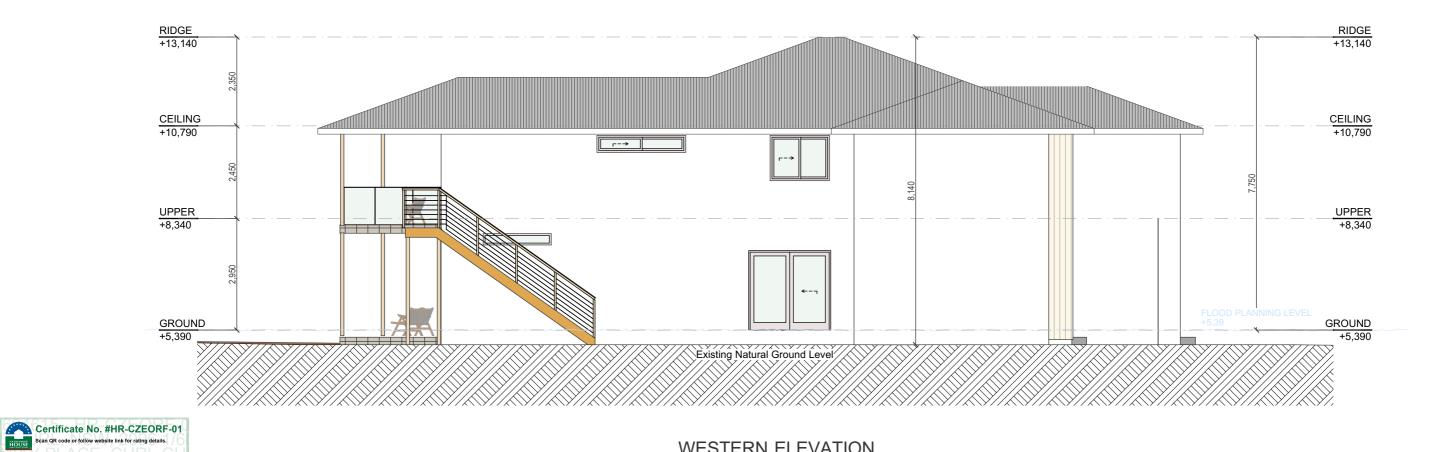




	NOTE	1
	This drawing is the copyright of Sally Gardner Design and Draft	ľ
	and may not be alteres, reproduced or transmitted in any form or	
	by any means in part or in whole without permission of Sally	
	Gardner Design and Draft.	
	Do not scale these drawings. Figured dimensions are to be used	
	only.	
	The builder/contractor shall check and verify all levels and	
	dimensions on site prior to commencement of any work, creation	
	of shop drawings, or fabrication of components.	
ist	Any errors or omissions are to be verified by the builder/contractor	
	and referred to the designer prior to the commencement of works.	L

	Michelle	+
	Shaun	
or	Walsh	

PROPOSED RESIDENCES	Scale 1:100	Job Number	24-1120
4B Holloway Place CURL CURL NSW 2096 Drawing Title	Date	Drawn	Drawing No.
ELEVATION SHEET 1	Wednesday, 28 May 2025		<b>A4</b>



WESTERN ELEVATION



## **EASTERN ELEVATION**

Northern Beaches PENINSULA 2009 ĤOMES LOCALLY INSPIRED, UNIQUELY DESIGNED BUILT JUST FOR YOU.

Unit 1, Lot 1 (#4B) Holloway Place, Curl Curl, NSW, 2096

SURVEY DETAILS PROVIDED BY CMS SURVEYORS PTY LTD REF 23962

GROUND +5,390

ACCREDITATION No. 6255 ABN 17 751 732 195 ACCREDITED SALLY GARDNER DESIGN AND DRAFT

Existing Natural Ground Level





Michelle + Shaun Walsh

	Job Numb
Date	Drawn
Wednesday, 28 May 2025	S.G
	1:100  Date  Wednesday, 28

GROUND

24-1120

**A5** 

