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Energy Efficiency Report

Address:

Lot 1 (#32) James Street, Horseshoe Bend NSW 2320

GC Consulting Job Number:

ER1-T4132_Secondary Dwelling

Client Job Number:

YHD-860

Building Type and Function:

Class 1 - New Home

Date:

22/07/2025

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

Achieved Rating

Total (MJ/m ²)	227.7
Heating (MJ/m ²)	135.5
Cooling (MJ/m ²)	92.2

Target Rating

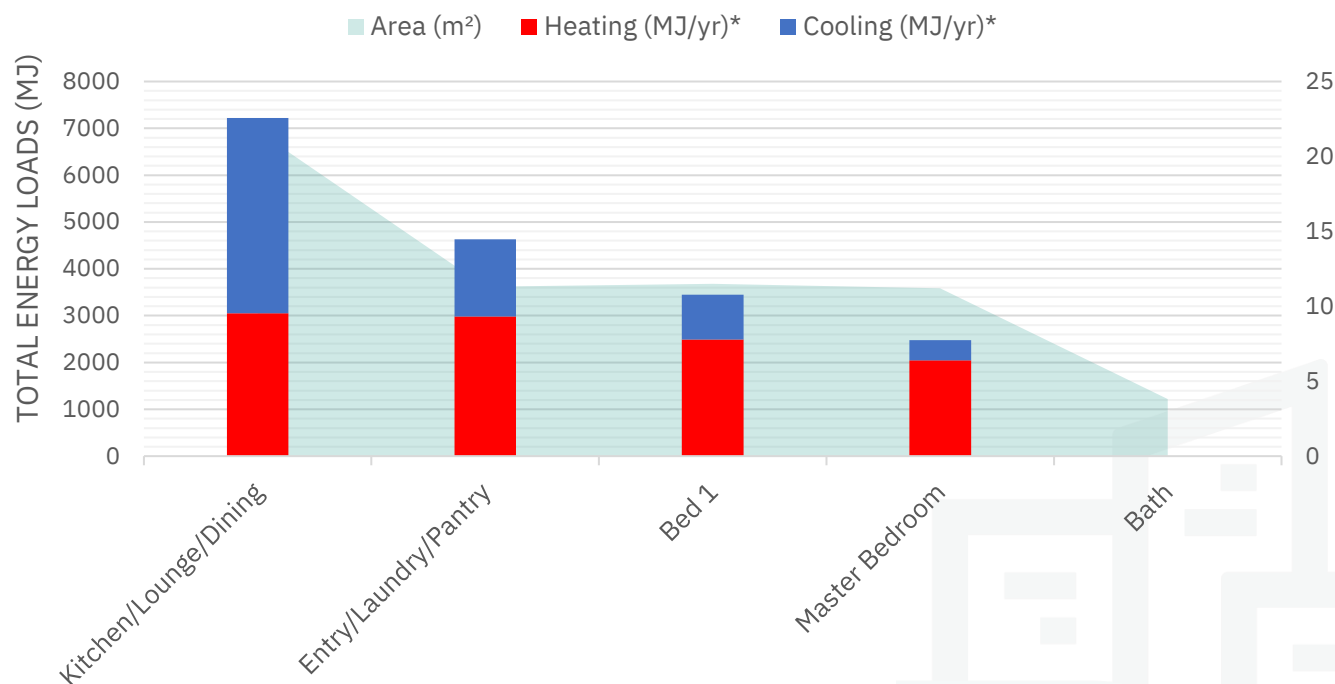
Total (MJ/m ²)	60
Heating (MJ/m ²)	53.6
Cooling (MJ/m ²)	43.4

3.2 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 load must be equal to or lower than the total energy limit.

ZONED ENERGY LOAD DISTRIBUTION TOTALS (MJ)



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Construction Requirements

External Walls

Construction	Insulation	Frame	Notes
Framed	R2.0 Insulation	Timber Frame	Living

Internal Walls

Construction	Insulation	Notes
Stud Frame	None	Throughout

Floor/s

Construction	Underfloor Insulation	Slab Edge Insulation	Notes
Framed Suspended	None	N/A	Suspended Floors

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

Ceiling/s

Construction	Insulation	Notes
Plasterboard	R4.0 Insulation	Throughout (excl. Garage)
Plasterboard	R3.0 Insulation	To the ceiling perimeter

Roof/s

Construction	Insulation	Colour
Colorbond	None	Dune

Penetrations

Penetrations
If downlights are installed, they are not required to be IC/IC-F rated Exhaust fans must be sealed No ceiling fans modelled

Glazing

Supplier					
Bradnam's					

Type	Colour	U-Value	SHGC	Glass	Notes
Double-Hung Windows	White	6.30	0.74	Single Glazed	As per drawings
Sliding Doors	White	6.19	0.74	Single Glazed	As per drawings

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



Compliance Option/s

The star rating is based on the design, construction, insulation, and glazing modelled. We run simulations to find a cost-effective outcome for minimum compliance.

Design changes (glazing sizes, colours, etc.) may reduce the upgrade requirements.

Compliance List

All changes listed below are required for minimum compliance.

- Nominate that all downlights are IC/IC-F rated
- Add R2.7 insulation to the Bathroom internal walls
- Add R6.0 insulation throughout the suspended framed floor
- Upgrade the ceiling insulation to R6.0 (excluding Garage)
- Upgrade the external wall insulation to R2.7 (excluding Garage)
- Add a reflective wall wrap to all external walls (Class 4 may be required to address condensation requirements)
- Add an R1.3 reflective blanket to the roof
- Add a ceiling fan to the Kitchen/Living with a minimum diameter of 1500mm
- Upgrade all windows and glazed doors to thermally broken double glazing + low-e (excl. Bath)
- Upgrade the suspended framed floor to 35mm XCEM AlphaFloor
- Add a ceiling fan to the Kitchen/Lounge/Dining, and Bed 1 with a minimum diameter of 1500mm
- Add a ceiling fan to the Bed 1 with a minimum diameter of 1400mm
- Nominate a 25mm XPS core insulated door to the Entry

Glazing Values used in this compliance option

Opening Type	Type of Glass	U-Value	SHGC
Double-Hung Windows	TB Double Glazed + Low-E	2.0	0.49

Sliding Doors

TB Double Glazed +
Low-E

2.12

0.47

7.0

Target	53.6	43.4	60
Result	24.0	35.3	59.2

If you accept the changes above, please send us updated plans with the changes incorporated.

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