Certificate number: 0004454336-01 Certificate Date: 23 Jan 2020 ★ Star rating: 4.8



Assessor details

Accreditation

number: 100588

Name: Brian Teplicanec

Organisation: Brian Teplicanec Consultancy Email: brianteplicanec@gmail.com

Phone: **0407 929 659**

Declaration No potential conflicts of interest to

of interest: declare

Software: AccuRate Sustainability V2.3.3.13 SP4

AAO: ABSA

Overview

Dwelling details

Street: Unit B, 70 Lauderdale Avenue

Suburb: Fairlight

State: NSW Postcode: 2094

Type: New NCC Class: 1a

NatHERS

Lot/DP climate zone: **56**

number: Lot 1 DP 965132 Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Plywood wall

Metal roof/Plasterboard

Plywood

Insulation: Wall (uninsulated)

Ceiling (uninsulated) R2.0 floor insulation

Glazing: Al Thermally Broken B DG Argon Fill

High Solar

Net floor area (m²)

 Conditioned:
 152.5

 Unconditioned:
 51.8

 Garage:
 32.9

 TOTAL:
 204.3

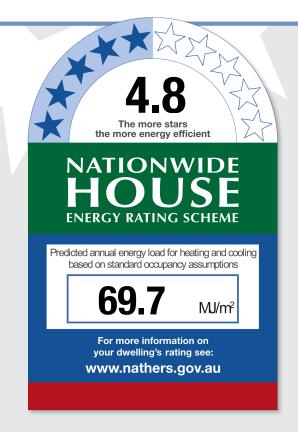
Annual thermal performance loads (MJ/m²)

Heating: 43.4 Cooling: 26.3 TOTAL: 69.7

Plan documents

Plan ref/date: November 2019

Prepared by: MARSTON ARCHITECTS



Ceiling penetrations

(see following pages for details)

Sealed: 0

Unsealed: TOTAL:** **NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: No Ceiling Penetration Downlights

0

0

Window selection - default windows only

Note on allowable window values: With a 10% tolerance to the nominated SHGC window values shown on page 2, the following ratings are achieved:

-10% SHGC 4.8

+10% SHGC 4.8

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If the rating listed above falls below 6.0 stars or the required rating, then the window with this tolerance can NOT be selected.

Scan to access this certificate online and confirm this is valid.



Certificate number: **0004454336-01** Certificate Date: **23 Jan 2020**

★ Star rating:



Building features

Window type and performance value					
Window ID	Window type	U-value	SHGC		
ATB-006-03 B	DEFAULTS: Al Thermally Broken B DG Argon Fill High Solar Gain low-E -Clear	2.9	0.51		
ATB-006-04 B	DEFAULTS: Al Thermally Broken B DG Argon Fill Low Solar Gain low-E -Clear	3.0	0.26		

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
bed 1	ATB-006-03 B	D13	2700	5120	SW	None
study	ATB-006-03 B	W05	600	2700	NW	None
bed 3	ATB-006-03 B	W07	2700	2850	NE	None
bed 2	ATB-006-03 B	W08	2700	2900	NE	None
hall	ATB-006-03 B	W06	2700	850	NW	None
kit/liv	ATB-006-03 B	D04	2800	4900	SW	None
kit/liv	ATB-006-04 B	D03	2800	4870	NW	None
kit/liv	ATB-006-04 B	D02	2800	2000	SW	None
kit/liv	ATB-006-04 B	D01	2800	7200	NW	None
kit/liv	ATB-006-04 B	W02b	1875	3850	NE	Miniature louvres
kit/liv	ATB-006-04 B	W02a	1130	4450	NE	Miniature louvres
entry	ATB-006-03 B	W03	1875	2800	NW	Miniature louvres

ID	Window type	U-value	SHGC
VEL-011-01 W	Velux: VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Arg Gap / 5.36mm Clear La	on 2.6	0.24

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
kit/liv	VEL-011-01 W	S5	1.9	NE	100% shade	None
kit/liv	VEL-011-01 W	S4	2.7	SW	100% shade	None
entry	VEL-011-01 W	S6	4.0	SW	100% shade	None

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-001	Plywood		No
EW-002	Plywood		No
EW-003	Plywood		No
EW-004	Plywood		No
EW-005	Retaining Plywood		No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
bed 1	EW-004	6850	2700	SW	Yes	700
bed 1	EW-002	4400	2700	NW	Yes	1000

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Building featu	res continued	d				
study	EW-002	2700	2700	NW	Yes	1000
study	EW-001	1350	2700	NE	Yes	850
bed 3	EW-001	1350	2700	SW	Yes	850
bed 3	EW-002	3700	2700	NW	Yes	900
bed 3	EW-003	2850	2700	NE	Yes	9100
bed 2	EW-003	2900	2700	NE	Yes	9100
hall	EW-003	900	2700	NE	Yes	9100
hall	EW-003	850	2700	NW	Yes	2700
kit/liv	EW-003	5100	2800	SW	Yes	700
kit/liv	EW-003	5000	2800	NW	Yes	
kit/liv	EW-003	2000	2800	SW	Yes	
kit/liv	EW-001	8000	2800	NW	Yes	1000
kit/liv	EW-001	4550	3950	NE	No	
garage	EW-001	5400	2400	SW	No	
garage	EW-001	6100	2400	NW	No	
garage	EW-001	5400	2400	NE	No	
garage	EW-001	6100	2400	SE	No	
entry	EW-001	2800	2800	NW	No	
entry	EW-001	1250	2800	NE	Yes	4200
entry	EW-001	550	2800	NW	No	
WC	EW-001	650	2800	NE	Yes	4200
basement	EW-001	2500	2400	SW	Yes	700
basement	EW-005	7550	1100	NW	No	
basement	EW-005	1500	1500	NE	No	
lift basement	EW-005	1550	1500	NE	No	
lift basement	EW-005	1650	1500	SE	No	
subfloor	EW-005	13050	800	NW	No	
WC B1	EW-002	850	2700	NW	Yes	1000

Internal wall type						
ID	Wall type	Area (m²)	Insulation	Wall wrap or foil		
IW-001	Plywood	107.3		No		
IW-002	Plywood	139.8		No		
IW-003	Plywood	17.7		No		

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
bed 1/basement	Carpet on CLT system 450mm + R2.0	10.5		R2.0	Carpet 10 + felt underlay 10
bed 1/subfloor	Carpet on CLT system 450mm + R2.0	- 14.0		R2.0	Carpet 10 + felt underlay 10
ensuite/basement	Tiles on CLT system 450mm + R2.0	1.3		R2.0	Ceramic tile
ensuite/subfloor	Tiles on CLT system 450mm + R2.0	5.8		R2.0	Ceramic tile

^{*} Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

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Building features continued

study/subfloor	Timber on CLT system 450mm + R2.0	- 6.3		R2.0	
bed 3/subfloor	Carpet on CLT system 450mm + R2.0	10.5		R2.0	Carpet 10 + felt underlay 10
bed 2/subfloor	Carpet on CLT system 450mm + R2.0	11.0		R2.0	Carpet 10 + felt underlay 10
hall/basement	Timber on CLT system 450mm + R2.0	- 2.0		R2.0	
hall/subfloor	Timber on CLT system 450mm + R2.0	- 6.6		R2.0	
bath/subfloor	Tiles on CLT system 450mm + R2.0	4.5		R2.0	Ceramic tile
laundry/subfloor	Tiles on CLT system 450mm + R2.0	2.0		R2.0	Ceramic tile
lift lower/lift basement	Concrete Slab 200mm: timber/bare	2.6			
kit/liv/ensuite	Timber on CLT system 450mm	6.6			
kit/liv/bed 1	Timber on CLT system 450mm	19.7			
kit/liv/laundry	Timber on CLT system 450mm	2.0			
kit/liv/bath	Timber on CLT system 450mm	4.5			
kit/liv/study	Timber on CLT system 450mm	6.3			
kit/liv/hall	Timber on CLT system 450mm	7.3			
kit/liv/Outdoor Air	Timber on CLT system 450mm	1.5			
kit/liv/bed 3	Timber on CLT system 450mm	10.5			
kit/liv/bed 2	Timber on CLT system 450mm	5.6			
kit/liv/WC B1	Timber on CLT system 450mm	0.4			
garage/Outdoor Air	Concrete Slab 250 mm: bare/bare	32.9			
entry/bed 2	Timber on CLT system 450mm	4.4			
entry/hall	Timber on CLT system 450mm	4.7			
entry/Outdoor Air	Timber on CLT system 450mm	5.9			
wc/Outdoor Air	Tiles on CLT system 450mm	2.2			Ceramic tile
lift upper/lift lower	Concrete Slab 200mm: timber/bare	2.6			
basement/Ground	Concrete Slab 200mm: timber/bare	15.8			
lift basement/Ground	Concrete Slab 200mm: timber/bare	2.6			
subfloor/Ground	Bare ground	61.8	Enclosed		
WC B1/subfloor	Tiles on CLT system 450mm + R2.0	1.1		R2.0	Ceramic tile

ocining type			
Location	Construction	Added insulation	Roof space above
kit/liv/bed 1	Timber on CLT system 450mm		No
kit/liv/ensuite	Timber on CLT system 450mm		No
kit/liv/study	Timber on CLT system 450mm		No
kit/liv/bed 3	Timber on CLT system 450mm		No
kit/liv/bed 2	Timber on CLT system 450mm		No

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Building features continued

entry/bed 2	Timber on CLT system 450mm		No	
kit/liv/hall	Timber on CLT system 450mm		No	
entry/hall	Timber on CLT system 450mm		No	
kit/liv/bath	Timber on CLT system 450mm		No	
kit/liv/laundry	Timber on CLT system 450mm		No	
lift upper/lift lower	Concrete Slab 200mm: timber/bare		No	
bed 1/basement	Carpet on CLT system 450mm + R2.0	R2.0	No	
ensuite/basement	Tiles on CLT system 450mm + R2.0	R2.0	No	
hall/basement	Timber on CLT system 450mm + R2.0	R2.0	No	
lift lower/lift basement	Concrete Slab 200mm: timber/bare		No	
bed 1/subfloor	Carpet on CLT system 450mm + R2.0	R2.0	No	
ensuite/subfloor	Tiles on CLT system 450mm + R2.0	R2.0	No	
study/subfloor	Timber on CLT system 450mm + R2.0	R2.0	No	
bed 3/subfloor	Carpet on CLT system 450mm + R2.0	R2.0	No	
bed 2/subfloor	Carpet on CLT system 450mm + R2.0	R2.0	No	
hall/subfloor	Timber on CLT system 450mm + R2.0	R2.0	No	
bath/subfloor	Tiles on CLT system 450mm + R2.0	R2.0	No	
laundry/subfloor	Tiles on CLT system 450mm + R2.0	R2.0	No	
WC B1/subfloor	Tiles on CLT system 450mm + R2.0	R2.0	No	
kit/liv/WC B1	Timber on CLT system 450mm		No	

Cei	lina	penetrations
		politon and one

Location	Number	Туре	Diameter (mm)	Sealed/unsealed
None Present	-	-		

Ceiling fans

Location	Number	Diameter (mm)	
None Present			

F	₹ċ	0	f t	۷	p	е

itoor type		
Construction	Added insulation	Roof colour
Raked roof anticon +R4.0	R5.2	Medium
Timber on CLT system		Medium
Pebbles on CLT system		Medium



Additional information	

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in the report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using the underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance.

The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

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 on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au For more information on energy efficient design and insulation visit www.yourhome.gov.au

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