Certificate number: 0004748224

Certificate Date: 09 Apr 2020

★ Star rating: 5.3



# Assessor details

Accreditation number:	20884
Name:	Zoltan Lipovski
Organisation:	EcoMode Design
Email:	zoltan@ecomode.com.au
Phone:	0410605614
Declaration of interest:	None
Software:	BERS Pro v4.4.0.0 (3.21)
AAO:	ABSA

# **Overview**

#### **Dwelling details**

Street: Suburb:	Unit 2, 8 Baz Retreat Warriewood			
State:	NSW	Postcode:	2102	
Туре:	New Dwelling	NCC Class:	1A	
Lot/DP		NatHERS climate zone:	56	
number:	10/270907	Exposure:	Suburban	

## Key construction and insulation materials

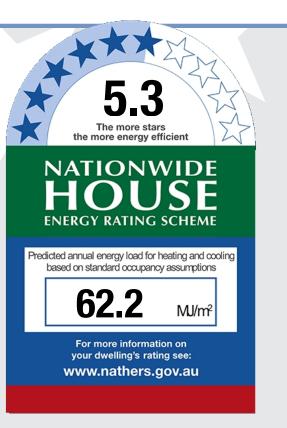
(see following pages for details)

Construction:	Weatherboard Cavity Panel Direct Fix Corrugated Iron
Insulation:	Waffle pod slab 300 mm R2.0 wall insulation
	R6.0 ceiling insulation No floor insulation
Glazing:	ATB-003-03 B AI Thermally Broken A DG Air Fill High Solar Gain Iow-E -Clear

Net floor area	(m²)	Annual the	
Conditioned: Unconditioned:	90.0 26.0	performanc (MJ/m <sup>2</sup> )	e loads
Garage:	20.0	Heating: Cooling:	37.1
TOTAL:	116.0	TOTAL:	25.1 62.2

## **Plan documents**

Plan ref/date: Job No. - Site, Floor Plans, Elevations, Sections Prepared by: **DKO Architecture** 



Ceiling penetrations (see following pages for details)		OTE: This total is the kimum number of ceiling etrations allowed to a		
Unsealed:	) cerf exc ) this ) and Los pen	<ul> <li>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.</li> </ul>		
Principle downlight type: Window selection - default windows only		Scan to access this certificate online and		
Note on allowable window values: Dnly a 5% tolerance to the nominate SHGC window values shown on pa can be used with this rating.		confirm this is valid.		
Note: Only a +/- 5% SHGC toleranc	e is	जिद्र अस्ति		
allowed with this rating.				

be lower but not higher than the values stated on page 2. If any of windows selected are

outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.



Certificate Date:

Certificate number: 0004748224

09 Apr 2020

★ Star rating:

5.3 ×

# **Building features**

# Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-04 A	ALM-002-04 A Aluminium B SG Low Solar Gain Low-E	5.6	0.41
ATB-003-04 B	ATB-003-04 B AI Thermally Broken A DG Air Fill Low Solar Gain low- E -Clear	3.1	0.27
ATB-004-03 B	ATB-004-03 B AI Thermally Broken B DG Air Fill High Solar Gain low- E -Clear	3.1	0.49
ATB-004-04 B	ATB-004-04 B AI Thermally Broken B DG Air Fill Low Solar Gain low- E -Clear	3.1	0.27
ATB-003-03 B	ATB-003-03 B AI Thermally Broken A DG Air Fill High Solar Gain low- E -Clear	3.1	0.39
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57

## Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-002-04 A	n/a	2400	1010	SE	No Shading
Kitchen/Living	ATB-003-04 B	n/a	2315	910	SE	No Shading
Kitchen/Living	ALM-002-04 A	n/a	2400	1010	SE	No Shading
Kitchen/Living	ATB-004-03 B	n/a	850	6300	SE	No Shading
Kitchen/Living	ALM-002-04 A	n/a	2400	1010	SW	No Shading
Kitchen/Living	ATB-004-04 B	n/a	2370	2400	SW	No Shading
Kitchen/Living	ATB-004-04 B	n/a	850	2439	SW	No Shading
Kitchen/Living	ATB-004-04 B	n/a	850	900	SW	No Shading
Kitchen/Living	ATB-004-03 B	n/a	2340	600	NE	No Shading
Bedroom 1	ATB-003-03 B	n/a	1543	2480	NE	No Shading
Bedroom 1	ATB-003-03 B	n/a	1543	850	SE	No Shading
Bedroom 2	ATB-003-03 B	n/a	1543	2480	SE	No Shading
Bedroom 3	ATB-003-03 B	n/a	1543	2480	SW	No Shading
Ensuite	ALM-001-01 A	n/a	1543	850	NE	No Shading
Bath	ALM-001-01 A	n/a	1543	850	SW	No Shading

Roof windo	w and skylight	type and performance	e value			
ID	Window ty	ре			U-value	SHGC
None Presen	t					
Roof windo	w and skylight	schedule				
Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Presen	t			-	-	

External wall type				
ID	Wall type	Insulation	Wall wrap or foil	
EW-1	Weatherboard Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes	
EW-2	Brick Veneer	Anti-glare foil with bulk no gap R2	Yes	
External v	vall schedule			

<sup>r</sup> Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Nationwide House Energy Rating Scheme* Certificate					
Certificate number: 0004748224	Certificate Date:	09 Apr 2020	★ Star rating:	5.3	NATIONWIDE HOUSE ENERGY RATING SCHEME

# **Building features continued**

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	6295	3750	SE	No	0
Kitchen/Living	EW-1	3400	3750	SW	No	0
Kitchen/Living	EW-2	1700	3750	SW	No	0
Kitchen/Living	EW-2	1100	3750	NW	No	0
Garage	EW-1	2995	2550	NE	No	1100
Garage	EW-1	6795	2550	SE	No	0
Kitchen/Living	EW-1	2095	2550	NE	No	1100
Bedroom 1	EW-1	2995	2550	NE	No	0
Bedroom 1	EW-1	3895	2550	SE	No	0
Bedroom 2	EW-1	3690	2550	SE	No	0
Bedroom 3	EW-1	3595	2550	SE	No	0
Bedroom 3	EW-1	2995	2550	SW	No	0
Ensuite	EW-1	2095	2550	NE	No	0
Bath	EW-1	2095	2550	SW	No	0
Bath	EW-1	1000	2550	NW	No	0

# Internal wall type

\*

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	65.0	Bulk Insulation both sides of shaft liner R2	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	38.0	Bulk Insulation, No Air Gap R1.5	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	78.0	No insulation	No

Floors					
Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Waffle pod slab 300 mm 100mm	31.2	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Garage	Waffle pod slab 300 mm 100mm	20.0	None	Waffle Pod 300mm	Bare
Kitchen/Living	Waffle pod slab 300 mm 100mm	10.8	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Powder	Waffle pod slab 300 mm 100mm	2.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 300 mm 100mm	1.2	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Bedroom 1/Garage	Timber Above Plasterboard 19mm	8.1		No Insulation	Carpet 10mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	1.8		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	3.2	Open	Bulk Insulation, Gap to Floor R3.5	Carpet 10mm
Bedroom 2/Garage	Timber Above Plasterboard	10.7		No Insulation	Carpet 10mm

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

Certificate number: 0004748224

Certificate Date: 09 Apr 2020

★ Star rating:



5.3

# **Building features continued**

	19mm				
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 19mm	9.6		No Insulation	Carpet 10mm
Bedroom 3/Garage	Timber Above Plasterboard 19mm	0.9		No Insulation	Carpet 10mm
Ensuite/Kitchen/Liv ing	Timber Above Plasterboard 19mm	2.2		No Insulation	Carpet 10mm
Ensuite	Suspended Timber Floor 19mm	2.2	Open	Bulk Insulation, Gap to Floor R3.5	Ceramic Tiles 8mm
Corridor Upper/Kitchen/Livi ng	Timber Above Plasterboard 19mm	2.1		No Insulation	Carpet 10mm
	Timber Above Plasterboard 19mm	6.7		No Insulation	Carpet 10mm
Corridor Upper/Powder	Timber Above Plasterboard 19mm	2.1		No Insulation	Carpet 10mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	4.1		No Insulation	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	1.1		No Insulation	Ceramic Tiles 8mm

#### **Ceiling type** Location Added Construction **Roof space** insulation above Kitchen/Living Plasterboard **Bulk Insulation** Yes R6 Kitchen/Living **Timber Above Plasterboard** No Insulation No Garage **Timber Above Plasterboard** No Insulation No Kitchen/Living **Timber Above Plasterboard** No Insulation No **Timber Above Plasterboard** Powder No Insulation No **Timber Above Plasterboard** Laundry No Insulation No Bedroom 1 Plasterboard **Bulk Insulation** Yes **R6** Bedroom 2 Plasterboard **Bulk Insulation** Yes **R6** Bedroom 3 Plasterboard **Bulk Insulation** Yes **R6** Ensuite Plasterboard **Bulk Insulation** Yes **R6 Corridor Upper** Plasterboard **Bulk Insulation** Yes R6 Bath Plasterboard **Bulk Insulation** Yes **R6**

Ceiling pene	trations		
Location	Number	Туре	Diameter (mm) Sealed/unsealed
None Present			

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

Nationwide House E					<b>*</b>
Certificate number: 0004	748224	Certificate Date:	09 Apr 2020	★ Star rating:	5.3 NATIO HO
Building features co	ntinued				
Ceiling fans					
Location Number	er	Diameter (r	nm)		
Poof turno					
Roof type					Desfeatour
Roof type Construction				Added insulation	Roof colour
				insulation Foil, No Gap,	Roof colour Medium
Construction				insulation Foil, No Gap, Reflective Side Down, Anti-glare	Medium
Construction				insulation Foil, No Gap, Reflective Side Down, Anti-glare Up Bulk, Reflective	Medium
Construction Corrugated Iron				insulation Foil, No Gap, Reflective Side Down, Anti-glare Up	Medium
Construction Corrugated Iron				insulation Foil, No Gap, Reflective Side Down, Anti-glare Up Bulk, Reflective Side Down, Anti-	Medium

Certificate number: 0004748224

Certificate Date: 09 Apr 2020

★ Star rating: 5.3



# **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