## Nationwide House Energy Rating Scheme\* Certificate

#### Certificate number: 0003948643

Certificate Date: 20 Jun 2019

★ Star rating: 4.8



BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

### Assessor details

Accreditation number:	VIC/BDAV/15/1694
Name:	darren parker
Organisation:	energyraters.com.au
Email:	darren@energyraters.com.au
Phone:	02 60 24 10 22
Declaration of interest:	None
Software:	BERS Pro v4.3.0.2d (3.13)
AAO:	BDAV

### **Overview**

### **Dwelling details**

Street:	79 Kumarna St		
Suburb:	Duffys Forest		
State:	NSW	Postcode:	2084
Туре:	New Dwelling	NCC Class: NatHERS	1A
Lot/DP		climate zone:	56
number:	-/-	Exposure:	Open

### Key construction and insulation materials

(see following pages for details)

Construction:	Weatherboard Cavity Panel Direct Fix Concrete
Insulation:	Suspended Timber Floor R2.5 wall insulation
	R5.0 ceiling insulation R2.5 floor insulation
Glazing:	ALS-022-07 A Airflow Aluminium
	Louvre SG 6LE

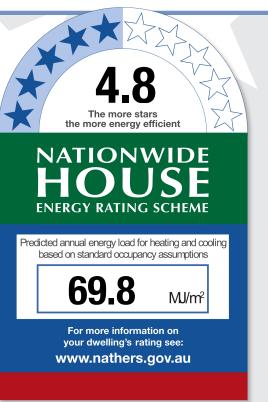
#### Net floor area (m<sup>2</sup>)

Conditioned: Unconditioned:	449.0 95.0	performanc (MJ/m <sup>2</sup> )	e loads
Garage:	79.0	Heating:	43.6
TOTAL:	545.0	Cooling:	26.2
		TOTAL:	69.8

**Annual thermal** 

### **Plan documents**

Plan ref/date: 401C Prepared by: -



Ceiling penetratio	etails)	maxii pene	TE: This total is the mum number of ceiling trations allowed to a g (under a roof) for this
Sealed: Unsealed: TOTAL:**	87 0 87	certified excertified this of and a Loss pene	g (under a root) for this icate. If this number is ded in construction then certificate IS NOT VALID a new certificate is required of ceiling insulation for the trations listed has been n into account with the rating.
Principle downlight type	e: LED		
Window selection - default windows or			Scan to access this certificate online and confirm this is valid.
	nly s: nated		certificate online and
default windows or Note on allowable window values Only a 5% tolerance to the nomin SHGC window values shown on	nly s: nated page 2		certificate online and

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.



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## **Building features**

### Window type and performance value

Window ID	Window type				U-value	SHGC
ALM-003-03 A	ALM-003-03 A A	Aluminium A DG	Clear 4.3	0.47		
ALS-037-13 A	LightBridge_Clr		2.9	0.36		
ALS-028-14 A	ALS-028-14 A 5 LightBridge_Clr	0mm Carinya Cla PrvSI_638-8-4	assic Fixed Wind	ow DG	2.3	0.40
ALS-022-07 A	ALS-022-07 A A	Airflow Aluminium	Louvre SG 6LE		4.5	0.53
ALS-002-07 A	ALS-002-07 A 7 LightBridge_Clr	′6mm ViewMax D SI_638-6-4	oubleHung Wind	low DG	3.6	0.42
Window sched	ule					
Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
LAUNDRY	ALM-003-03 A	n/a	2700	1000	SE	No Shading
KIT/MEAL/ENTR Y	ALS-037-13 A	n/a	2700	4500	NW	No Shading
KIT/MEAL/ENTR Y	ALS-037-13 A	n/a	2700	3000	NW	No Shading
KIT/MEAL/ENTR Y	ALS-028-14 A	n/a	2700	900	SW	No Shading
KIT/MEAL/ENTR Y	ALS-028-14 A	n/a	2680	390	NE	No Shading
KIT/MEAL/ENTR Y	ALS-028-14 A	n/a	2680	390	NE	No Shading
KIT/MEAL/ENTR Y	ALS-022-07 A	n/a	2700	600	SE	No Shading
KIT/MEAL/ENTR Y	ALS-028-14 A	n/a	720	5100	SE	No Shading
KIT/MEAL/ENTR Y	ALS-022-07 A	n/a	720	900	SE	No Shading
BED 6	ALS-022-07 A	n/a	2700	1200	NE	No Shading
HALLWAY 2	ALS-022-07 A	n/a	2700	880	SW	No Shading
BED 5	ALS-022-07 A	n/a	2700	1200	NE	No Shading
STUDY/DAY BED	ALS-028-14 A	n/a	2700	2355	NW	No Shading
STUDY/DAY BED	ALS-022-07 A	n/a	1800	900	NW	No Shading
STUDY/DAY BED	ALS-028-14 A	n/a	1700	2050	SE	No Shading
STUDY/DAY BED	ALS-022-07 A	n/a	2700	1035	SW	No Shading
LIVING 2	ALS-037-13 A	n/a	2700	2990	NW	No Shading
LIVING 2	ALS-037-13 A	n/a	2700	2990	NW	No Shading
LIVING 2	ALS-022-07 A	n/a	2700	900	NE	No Shading
LIVING 2	ALS-037-13 A	n/a	2700	3000	NE	No Shading
LIVING 2	ALS-022-07 A	n/a	2700	900	SW	No Shading
LIVING 2	ALS-022-07 A	n/a	2700	900	SW	No Shading
LIVING 1	ALS-037-13 A	n/a	2700	3000	NW	No Shading
LIVING 1	ALS-002-07 A	n/a	2700	900	SW	No Shading
GYM/YOGA/ST AIR	ALS-028-14 A	n/a	1200	3000	NW	No Shading
GYM/YOGA/ST AIR	ALS-022-07 A	n/a	900	3000	SE	No Shading

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Nationwide Ho	Ationwide House Energy Rating Scheme* Certificate							
Certificate numbe	er: 0003948643	Certificate Date	:	20 Jun 2019	★ Star rating:	4.8 NATIONWIDE HOUSE ENERCY MATING SCHEME		
Building featu	res continued							
GYM/YOGA/ST AIR	ALS-022-07 A	n/a	2350	900	SW	No Shading		
WIR	ALS-022-07 A	n/a	1200	5640	NW	No Shading		
BED 1	ALS-028-14 A	n/a	1200	3000	NW	No Shading		
BED 1	ALS-022-07 A	n/a	2350	900	NE	No Shading		
BED 1	ALS-022-07 A	n/a	2350	900	NE	No Shading		
BED 4	ALS-022-07 A	n/a	2700	1200	NE	No Shading		
BED 3	ALS-022-07 A	n/a	1950	900	SE	No Shading		
BED 3	ALS-028-14 A	n/a	1950	1600	SE	No Shading		
BED 2	ALS-022-07 A	n/a	1950	900	NW	No Shading		
BED 2	ALS-028-14 A	n/a	1950	1600	NW	No Shading		
CORRIDOR	ALS-022-07 A	n/a	2680	1025	SE	No Shading		

ID	Window type				U-value	SHGC
GEN-04-008a	Double-glaze	d clear, Timber and A	Aluminium Fra	ame	0.0	0.00
Roof window a	and skylight scl	nedule				
Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
LAUNDRY	GEN-04-008a	1	1.1	SE	None	No
BATH 4	GEN-04-008a	1	0.8	SW	None	No
GYM/YOGA/ST AIR	GEN-04-008a	1	0.9	SE	None	No
ENS	GEN-04-008a	1	0.4	SE	None	No
ENS	GEN-04-008a	2	1.3	SE	None	No
BED 1	GEN-04-008a	1	1.6	SE	None	No
BATH	GEN-04-008a	1	1.1	SW	None	No
BATH	GEN-04-008a	1	1.1	NE	None	No

External wal	l type					
ID	Wall type		Insulation	all wrap or foil		
EW-1	Earth		No insulation		N	0
EW-2	Earth, internal	ly lined	Anti-glare foil	with bulk no gap	R2.5 Ye	es
EW-3	Weatherboard Fix	I Cavity Panel Direct	Anti-glare foil	with bulk no gap	R2.5 Ye	es
External wal	I schedule					
Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
GARAGE	EW-1	6900	2700	NE	No	100
GARAGE	EW-1	11500	2700	SE	No	100
GARAGE	EW-1	3400	2700	SW	No	100
GARAGE	EW-1	11400	2700	NW	No	100
LAUNDRY	EW-2	2395	2700	NW	No	100
LAUNDRY	EW-3	1100	2700	NE	No	1600
LAUNDRY	EW-3	1600	2700	NW	No	1200

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uilding features	s continued						
LAUNDRY	EW-3	3995	2700	SE	No	10	0
PANTRY	EW-3	1195	2700	NW	No	12	000
PANTRY	EW-3	2490	2700	SE	No	10	0
KIT/MEAL/ENTRY	EW-3	9800	2700	NW	No	10	0
KIT/MEAL/ENTRY	EW-3	2195	2700	SW	No	10	0
KIT/MEAL/ENTRY	EW-3	2290	2700	NE	No	19	00
KIT/MEAL/ENTRY	EW-3	11895	2700	SE	No	10	0
BATH 4	EW-3	1890	2700	NE	No	10	
BED 6	EW-3	4090	2700	NE	No	30	
HALLWAY 2	EW-3	5995	2700	SW	No	10	
HALLWAY 2	EW-3	2500	2700	SE	No	10	
HALLWAY 2	EW-3	3600	2700	SW	No	10	
BED 5	EW-3	4090	2700	NE	No	30	
STUDY/DAY BED	EW-3	4395	2700	NW	No	15	
STUDY/DAY BED	EW-3	1195	2700	SE	No	10	
STUDY/DAY BED	EW-3			NE	No		
STUDY/DAY BED	EW-3	500	2700	SE		10	
		2100	2700		No	10	
STUDY/DAY BED	EW-3	500	2700	SW	No	10	
STUDY/DAY BED	EW-3	1100	2700	SE	No	10	
STUDY/DAY BED	EW-3	4500	2700	SW	No	10	
LIVING 2	EW-3	7800	2700	NW	No	15	
LIVING 2	EW-3	10395	2700	NE	No	10	
LIVING 2	EW-3	7000	2700	SW	No	10	
LIVING 1	EW-3	4700	2700	NW	No	15	
LIVING 1	EW-2	8200	2700	NE	No	10	
LIVING 1	EW-3	1800	2700	SE	No	70	00
LIVING 1	EW-3	8195	2700	SW	No	10	0
GYM/YOGA/STAIR	EW-3	7395	2700	NW	No	30	0
GYM/YOGA/STAIR	EW-3	7395	2700	SE	No	10	0
GYM/YOGA/STAIR	EW-3	4700	2700	SW	No	10	0
WIR	EW-3	6790	2700	NW	No	30	0
VIR	EW-3	3890	2700	SE	No	10	0
ENS	EW-3	3490	2700	SE	No	10	0
BED 1	EW-3	4995	2700	NW	No	30	0
BED 1	EW-3	4700	2700	NE	No	10	0
BED 1	EW-3	4395	2700	SE	No	10	0
BATH	EW-3	1690	2700	NE	No	10	
BED 4	EW-3	4095	2700	NE	No	30	
BED 4	EW-3	3600	2700	SE	No	10	
BED 4	EW-3	1200	2700	SW	No	61	
BED 3	EW-3	1200	2700	NE	No	49	
BED 3	EW-3	4800	2700	SE	No	10	
BED 3	EW-3	4095	2700	SW	No	10	
BATH	EW-3	1690	2700	SW	No	10	
BED 2	EW-3	4795	2700	NW	No	30	
BED 2	EW-3	4095	2700	SW	No	10	
	EW-3	1190	2700	SV	No	10	

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### **Building features continued**

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Earth	9.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	12.0	Bulk Insulation, No Air Gap R2.5	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	205.0	No insulation	No
IW-4 - Cavity wall, direct fix plasterboard, single gap	76.0	Bulk Insulation, No Air Gap R2	No

Floors					
Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
GARAGE	Concrete Slab on Ground 100mm	79.0	None	No Insulation	Bare
LAUNDRY	Suspended Timber Floor 19mm	16.4	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
PANTRY	Suspended Timber Floor 19mm	11.0	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
KIT/MEAL/ENTRY	Suspended Timber Floor 19mm	68.8	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
CELLAR	Suspended Timber Floor 19mm	9.1	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
BATH 4	Suspended Timber Floor 19mm	6.4	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
BED 6	Suspended Timber Floor 19mm	14.3	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
HALLWAY 2	Suspended Timber Floor 19mm	23.8	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
BED 5	Suspended Timber Floor 19mm	14.3	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
STUDY/DAY BED	Suspended Timber Floor 19mm	20.6	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
LIVING 2	Suspended Timber Floor 19mm	80.6	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
LIVING 1	Suspended Timber Floor 19mm	38.4	Enclosed	Bulk Insulation,	Cork Tiles or Parquetry 8mm

<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

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uilding features	s continued					
					Gap to Floor R2.5	
GYM/YOGA/STAI R/KIT/MEAL/ENTR	Timber Above F 19mm	Plasterboard	7.7		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
GYM/YOGA/STAI R/CELLAR	Timber Above F 19mm	Plasterboard	9.6		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
GYM/YOGA/STAI R/HALLWAY 2	Timber Above F 19mm	Plasterboard	17.3		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
WIR/KIT/MEAL/EN TRY	Timber Above F 19mm	Plasterboard	20.4		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
WC [ENS]/KIT/MEAL/E NTRY	Timber Above F 19mm	Plasterboard	1.9		Bulk Insulation R2.5	Ceramic Tiles 8mm
ENS/KIT/MEAL/EN TRY	Timber Above F 19mm	Plasterboard	10.3		Bulk Insulation R2.5	Ceramic Tiles 8mm
BED 1/KIT/MEAL/ENTR Y	Timber Above F 19mm	Plasterboard	21.3		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
BATH	Suspended Tim	ber Floor 19mm	5.7	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
BED 4	Suspended Tim	ber Floor 19mm	14.5	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
BED 3	Suspended Tim	ber Floor 19mm	19.3	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
BATH	Suspended Tim	ber Floor 19mm	7.7	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
BED 2	Suspended Tim	ber Floor 19mm	19.3	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
CORRIDOR	Suspended Tim	ber Floor 19mm	9.6	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm

Ceiling type				
Location	Construction	Added insulation	Roof space above	
GARAGE	Plasterboard	No insulation	Yes	
LAUNDRY	Plasterboard	Bulk Insulation R5	Yes	
PANTRY	Plasterboard	Bulk Insulation R5	Yes	
KIT/MEAL/ENTRY	Plasterboard	Bulk Insulation R5	Yes	
KIT/MEAL/ENTRY	Timber Above Plasterboard	Bulk Insulation R2.5	No	
CELLAR	Timber Above Plasterboard		No	

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Building feature	es continued					
				Bulk Insulation R2.5		
BATH 4	Plasterboard			Bulk Insulation R5	Yes	
BED 6	Plasterboard			Bulk Insulation R5	Yes	
HALLWAY 2	Plasterboard			Bulk Insulation R5	Yes	
HALLWAY 2	Timber Above	Plasterboard		Bulk Insulation R2.5	No	
BED 5	Plasterboard			Bulk Insulation R5	Yes	
STUDY/DAY BED	Plasterboard			Bulk Insulation R5	Yes	
LIVING 2	Plasterboard			Bulk Insulation R5	Yes	
LIVING 1	Plasterboard			Bulk Insulation R5	Yes	
GYM/YOGA/STAI	R Plasterboard			Bulk Insulation R5	Yes	
WIR	Plasterboard			Bulk Insulation R5	Yes	
WC [ENS]	Plasterboard			Bulk Insulation R5	Yes	
ENS	Plasterboard			Bulk Insulation R5	Yes	
BED 1	Plasterboard			Bulk Insulation R5	Yes	
BATH	Plasterboard			Bulk Insulation R5	Yes	
BED 4	Plasterboard			Bulk Insulation	Yes	

Ceiling p	enetrations
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BED 3

BATH

BED 2

CORRIDOR

Plasterboard

Plasterboard

Plasterboard

Plasterboard

Location	Number	Туре	Diameter (mm)	Sealed/unsealed
LAUNDRY	2	Downlights - LED	150	Sealed
LAUNDRY	1	Exhaust Fans	250	Sealed
PANTRY	2	Downlights - LED	150	Sealed
KIT/MEAL/ENTR Y	11	Downlights - LED	0	Sealed
KIT/MEAL/ENTR Y	1	Exhaust Fans	150	Sealed
BATH 4	2	Downlights - LED	150	Sealed
BATH 4	1	Exhaust Fans	250	Sealed
BED 6	3	Downlights - LED	150	Sealed

R5

R5

R5

R5

R5

**Bulk Insulation** 

**Bulk Insulation** 

**Bulk Insulation** 

**Bulk Insulation** 

Yes

Yes

Yes

Yes

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ationwide Ho	buse Energy F	Rating Scheme* Co	ertificate			
Certificate numbe	r: 0003948643	Certificate Date:	20 Jun 2019	★ Star rating:	4.8	NATIONW HOUS ENERGY RATING SC
Building featu	res continued	1				
HALLWAY 2	5	Downlights - LED		0	Sealed	
BED 5	3	Downlights - LED		150	Sealed	
STUDY/DAY BED	3	Downlights - LED		150	Sealed	
LIVING 2	8	Downlights - LED		150	Sealed	
LIVING 1	6	Downlights - LED		150	Sealed	
GYM/YOGA/ST AIR	5	Downlights - LED		150	Sealed	
WIR	5	Downlights - LED		150	Sealed	
WC [ENS]	1	Downlights - LED		150	Sealed	
ENS	3	Downlights - LED		150	Sealed	
ENS	1	Exhaust Fans		250	Sealed	
BED 1	6	Downlights - LED		150	Sealed	
BATH	2	Downlights - LED		150	Sealed	
BATH	1	Exhaust Fans		250	Sealed	
BED 4	3	Downlights - LED		150	Sealed	
BED 3	3	Downlights - LED		150	Sealed	
BATH	2	Downlights - LED		150	Sealed	
BATH	1	Exhaust Fans		250	Sealed	
BED 2	3	Downlights - LED		150	Sealed	
CORRIDOR	3	Downlights - LED		150	Sealed	

Ceiling fans		
Location	Number	Diameter (mm)
None Present		

Roof type			
Construction	Added insulation	Roof colour	
Concrete	No Insulation, Only an Air Gap	Light	
Corrugated Iron	No Insulation, Only an Air Gap	Light	

# Nationwide House Energy Rating Scheme\* Certificate

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### **Additional information**

Job# 36071

Sliding doors are ALS-037-13 on BERS but ALS-037-15 on WERS. ALM-003-03 has been used for ED4

## **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