

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004514626

Certificate Date: 16 Jan 2020

★ Star rating: 5.3



Assessor details

Accreditation number: **101182**
Name: **Daniel.Warda**
Organisation: **Energi Thermal Assessors Pty Ltd**
Email: **daniel.warda@hotmail.com**
Phone: **0452504125**
Declaration of interest: **None**
Software: **BERS Pro v4.4.0.0 (3.21)**
AAO: **ABSA**

Overview

Dwelling details

Street: **7 Eric Street**
Suburb: **Freshwater**
State: **NSW** Postcode: **2096**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **9282** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Roof Tiles
Suspended Timber Floor
Insulation: **R2.0 wall insulation**
R3.5 ceiling insulation
No floor insulation
Glazing: **STG-002-01 A Aluminium Awning**
Window SG 3Clr

Net floor area (m²)

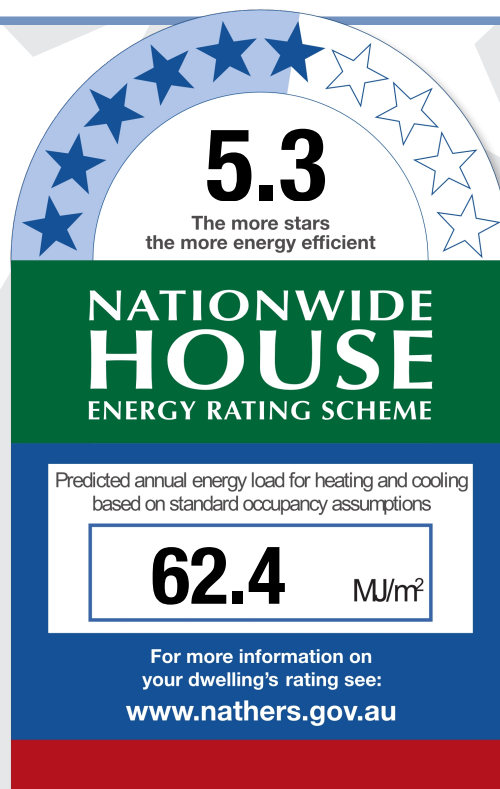
Conditioned: **264.0**
Unconditioned: **53.0**
Garage: **36.0**
TOTAL: **316.0**

Annual thermal performance loads (MJ/m²)

Heating: **39.4**
Cooling: **23.0**
TOTAL: **62.4**

Plan documents

Plan ref/date: **29913947**
Prepared by: **Clarendon Homes - AK**



Ceiling penetrations (see following pages for details)

Sealed: **2**
Unsealed: **0**
TOTAL:** **2**

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded 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: **Unknown**

Window selection - default windows only

Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

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



Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004514626

Certificate Date:

16 Jan 2020

★ Star rating:

5.3



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
STG-007-01 A	STG-007-01 A Aluminium Sliding Window SG 3Clr	6.3	0.73
STG-058-03 A	STG-058-03 A Aluminium Bi-fold Window SG 3Clr	6.1	0.52
STG-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	STG-007-01 A	n/a	2000	2600	E	No Shading
Kitchen/Living	STG-058-03 A	n/a	2400	2770	S	No Shading
Kitchen/Living	STG-002-01 A	n/a	2000	600	E	No Shading
Kitchen/Living	STG-058-03 A	n/a	2400	2770	S	No Shading
Kitchen/Living	STG-007-01 A	n/a	600	2100	N	No Shading
Kitchen/Living	STG-002-01 A	n/a	600	1800	N	No Shading
Living	STG-007-01 A	n/a	2000	2600	E	No Shading
Entry/Stairs	STG-002-01 A	n/a	2100	300	W	No Shading
Entry/Stairs	STG-002-01 A	n/a	2100	300	W	No Shading
Study/Guest	STG-002-01 A	n/a	2000	800	W	No Shading
Study/Guest	STG-002-01 A	n/a	2000	800	W	No Shading
Bedroom 1	STG-007-01 A	n/a	1200	2400	S	No Shading
Ensuite	STG-007-01 A	n/a	500	1500	E	No Shading
Bedroom 2	STG-002-01 A	n/a	1200	2600	W	No Shading
Bedroom 3	STG-007-01 A	n/a	600	1400	S	No Shading
Bedroom 3	STG-007-01 A	n/a	600	1400	S	No Shading
Bedroom 4	STG-007-01 A	n/a	800	1800	E	No Shading
Leisure	STG-002-01 A	n/a	2100	900	W	No Shading
Leisure	STG-002-01 A	n/a	2100	900	W	No Shading
WC	STG-002-01 A	n/a	1000	600	N	No Shading
Bath	STG-007-01 A	n/a	1200	1500	N	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R2	No
EW-2	Brick Veneer	No insulation	No
EW-3	Single Skin Brick	No insulation	No
EW-4	Fibro Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004514626

Certificate Date:

16 Jan 2020

★ Star rating:

5.3



Building features continued

EW-5 Single Skin Panel Bulk Insulation R2.6 No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	5600	2750	E	No	100
Kitchen/Living	EW-1	3700	2750	S	No	5900
Kitchen/Living	EW-1	1200	2750	E	No	3800
Kitchen/Living	EW-1	3800	2750	S	No	4700
Kitchen/Living	EW-1	12195	2750	N	No	100
Living	EW-1	4595	2750	E	No	7600
Living	EW-1	4095	2750	S	No	100
Garage	EW-2	1300	2825	E	No	100
Garage	EW-2	6100	2825	S	No	100
Garage	EW-3	5900	2825	W	No	1300
Garage	EW-2	700	2825	N	No	6900
Entry/Stairs	EW-1	3090	2750	W	No	3400
Laundry	EW-1	1790	2750	N	No	100
Powder Room	EW-1	1590	2750	N	No	100
Study/Guest	EW-1	1800	2750	S	No	9100
Study/Guest	EW-1	3700	2750	W	No	1600
Study/Guest	EW-1	3195	2750	N	No	100
Bedroom 1	EW-1	3995	800	S	No	0
Bedroom 1	EW-4	3995	1800	S	No	600
Bedroom 1	EW-5	4795	700	E	No	0
Bedroom 1	EW-4	4795	1900	E	No	600
Ensuite	EW-5	2990	1400	E	No	0
Ensuite	EW-4	2990	1200	E	No	600
Hers	EW-1	1990	800	S	No	0
Hers	EW-4	1990	1800	S	No	600
Bedroom 2	EW-5	3395	400	S	No	0
Bedroom 2	EW-4	3395	2200	S	No	600
Bedroom 2	EW-4	4695	2600	W	No	600
Bedroom 3	EW-1	2095	800	S	No	0
Bedroom 3	EW-4	2095	1800	S	No	600
Bedroom 3	EW-5	2495	400	S	No	0
Bedroom 3	EW-4	2495	2200	S	No	600
WIR 4	EW-4	1090	2600	N	No	600
Bedroom 4	EW-4	3895	2600	N	No	600
Bedroom 4	EW-5	3095	700	E	No	0
Bedroom 4	EW-4	3095	1900	E	No	600
Leisure	EW-4	1100	800	S	No	0
Leisure	EW-4	1100	1800	S	No	5300
Leisure	EW-1	6200	2600	W	No	1900
Leisure	EW-4	4295	2600	N	No	600
Leisure	EW-4	1890	2600	N	No	600
WC	EW-4	990	2600	N	No	600
Bath	EW-4	2890	2600	N	No	600

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004514626**

Certificate Date:

16 Jan 2020

★ Star rating:

5.3



Building features continued

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	39.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	243.0	No insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Waffle pod slab 300 mm 100mm	71.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Living	Waffle pod slab 300 mm 100mm	18.5	None	Waffle Pod 300mm	Carpet 10mm
Garage	Waffle pod slab 225 mm 100mm	35.5	None	Waffle Pod 225mm	Bare
Entry/Stairs	Waffle pod slab 300 mm 100mm	18.7	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Pantry	Waffle pod slab 300 mm 100mm	2.7	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 300 mm 100mm	6.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Powder Room	Waffle pod slab 300 mm 100mm	4.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Study/Guest	Waffle pod slab 300 mm 100mm	11.6	None	Waffle Pod 300mm	Carpet 10mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	1.2		No Insulation	Carpet 10mm
Bedroom 1/Living	Timber Above Plasterboard 19mm	3.4		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	17.0	Totally Open	Bulk Insulation in Contact with Floor R3.5	Carpet 10mm
Ensuite/Kitchen/Living	Timber Above Plasterboard 19mm	11.5		No Insulation	Ceramic Tiles 8mm
Hers/Living	Timber Above Plasterboard 19mm	6.2		No Insulation	Carpet 10mm
His/Kitchen/Living	Timber Above Plasterboard 19mm	4.9		No Insulation	Carpet 10mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	15.3		No Insulation	Carpet 10mm
WIR 2/Garage	Timber Above Plasterboard 19mm	2.0		No Insulation	Carpet 10mm
Bedroom 3/Living	Timber Above Plasterboard 19mm	6.1		No Insulation	Carpet 10mm
Bedroom 3/Garage	Timber Above Plasterboard 19mm	8.6		No Insulation	Carpet 10mm
WIR 4/Kitchen/Living	Timber Above Plasterboard 19mm	2.1		No Insulation	Carpet 10mm
WIR 3/Living	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet 10mm
WIR 3/Garage	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet 10mm
		12.5		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

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004514626**

Certificate Date:

16 Jan 2020

★ Star rating:

5.3



Building features continued

Bedroom 4/Kitchen/Living	Timber Above Plasterboard 19mm				
Leisure/Kitchen/Living	Timber Above Plasterboard 19mm	10.6		No Insulation	Carpet 10mm
Leisure/Living	Timber Above Plasterboard 19mm	1.5		No Insulation	Carpet 10mm
Leisure/Entry/Stairs	Timber Above Plasterboard 19mm	18.2		No Insulation	Carpet 10mm
Leisure/Pantry	Timber Above Plasterboard 19mm	1.0		No Insulation	Carpet 10mm
Leisure/Powder Room	Timber Above Plasterboard 19mm	2.7		No Insulation	Carpet 10mm
Leisure/Study/Guest	Timber Above Plasterboard 19mm	10.0		No Insulation	Carpet 10mm
Leisure	Suspended Timber Floor 19mm	5.3	Totally Open	No Insulation	Carpet 10mm
WC/Kitchen/Living	Timber Above Plasterboard 19mm	1.5		No Insulation	Ceramic Tiles 8mm
WC/Pantry	Timber Above Plasterboard 19mm	0.8		No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	0.7		No Insulation	Ceramic Tiles 8mm
Bath/Pantry	Timber Above Plasterboard 19mm	1.1		No Insulation	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	5.3		No Insulation	Ceramic Tiles 8mm
Bath/Powder Room	Timber Above Plasterboard 19mm	1.2		No Insulation	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Plasterboard	Bulk Insulation R3.5	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Living	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	No Insulation	No
Entry/Stairs	Timber Above Plasterboard	No Insulation	No
Pantry	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R3.5	Yes
Laundry	Timber Above Plasterboard	No Insulation	No
Powder Room	Plasterboard	Bulk Insulation R3.5	Yes
Powder Room	Timber Above Plasterboard	No Insulation	No
Study/Guest	Plasterboard	Bulk Insulation R3.5	Yes
Study/Guest	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes
Ensuite	Plasterboard	Bulk Insulation R3.5	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004514626**

Certificate Date:

16 Jan 2020

★ Star rating:

5.3



Building features continued

Hers	Plasterboard	Bulk Insulation R3.5	Yes
His	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes
WIR 2	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3.5	Yes
WIR 4	Plasterboard	Bulk Insulation R3.5	Yes
WIR 3	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 4	Plasterboard	Bulk Insulation R3.5	Yes
Leisure	Plasterboard	Bulk Insulation R3.5	Yes
WC	Plasterboard	Bulk Insulation R3.5	Yes
Bath	Plasterboard	Bulk Insulation R3.5	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Powder Room	1	Exhaust Fans	300	Sealed
Ensuite	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium