# Nationwide House Energy Rating Scheme\* Certificate

#### Certificate number: 0004615894

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



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/12/1441
Name:	lan Fry
Organisation:	Frys Energywise
Email:	comply@frysenergywise.com.au
Phone:	02 9899 2825
Declaration of interest:	The Assessor has provided design advice to the Applicant
Software:	BERS Pro v4.3.0.2f (3.13)

**BDAV** AAO:

# **Overview**

### **Dwelling details**

Street: Suburb:	129 Wyadra Avenu North Manly	Ie	
State:	NSW	Postcode:	2100
Туре:	New Dwelling	NCC Class: NatHERS	1 <b>A</b>
Lot/DP		climate zone:	56
number:	A/291221	Exposure:	Suburban

# Key construction and insulation materials

(see following pages for details)

Construction:	Brick Veneer Roof Tiles
Insulation:	Suspended Timber Floor R2.2 wall insulation
	R5.0 ceiling insulation R2.2 floor insulation
Glazing:	STG-007-01 A Aluminium Sliding Window SG 3Clr

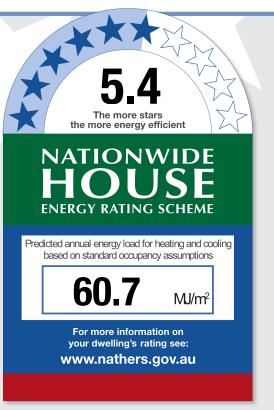
## Net floor area (m<sup>2</sup>)

Conditioned: Unconditioned:	177.0 35.0	performanc (MJ/m <sup>2</sup> )	e loads
Garage:	25.0	Heating:	39.6
TOTAL:	213.0	Cooling:	21.1
		TOTAL:	60.7

Annual thermal

# **Plan documents**

Plan ref/date: 29913993 Prepared by: PG



Ceiling penetratio	<b>ns</b> etails)	maxii pene	TE: This total is the mum number of ceiling trations allowed to a g (under a race) for this		
Sealed: Unsealed: TOTAL:**	3 0 3	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	: Unk	now	/n		
			Scan to access this certificate online and confirm this is valid.		
default windows or Note on allowable window values Only a 5% tolerance to the nomin SHGC window values shown on	nly S: nated				
Window selection - default windows or Note on allowable window values Only a 5% tolerance to the nomir SHGC window values shown on can be used with this rating. Note: Only a +/- 5% SHGC tolera allowed with this rating.	nly s: nated page 2		certificate online and		

If any of windows selected are outside the 5% tolerance then this

confirm compliance.

certificate is no longer valid and the dwelling will need to be rerated to

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Nationwide House Energy Rating Scheme* Certificate					A A A A A A A A A A A A A A A A A A A
Certificate number: 0004615894	Certificate Date:	24 Feb 2020	★ Star rating:	5.4	NATIONWIDE HOUSE ENERGY RATING SCHEME

# **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-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65
STG-005-02 A	STG-005-02 A Aluminium Sliding Door SG 5Clr	6.3	0.72

# Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Entry	STG-007-01 A	n/a	697	800	W	No Shading
Study	STG-002-01 A	n/a	2000	600	S	No Shading
Study	STG-002-01 A	n/a	2000	600	S	No Shading
Study	STG-007-01 A	n/a	600	1810	W	No Shading
Kitchen/Family	STG-007-01 A	n/a	514	2170	W	No Shading
Kitchen/Family	STG-005-02 A	n/a	2400	3200	Ν	No Shading
Kitchen/Family	STG-005-02 A	n/a	2400	2300	E	No Shading
Kitchen/Family	STG-005-02 A	n/a	2400	2300	Ν	No Shading
Kitchen/Family	STG-007-01 A	n/a	514	2170	E	No Shading
Bed 4	STG-007-01 A	n/a	1200	1500	Ν	No Shading
Bed 2	STG-007-01 A	n/a	1200	1500	N	No Shading
Bath	STG-007-01 A	n/a	1200	800	E	No Shading
Bed 3	STG-007-01 A	n/a	1200	1500	E	No Shading
Ensuite	STG-002-01 A	n/a	800	600	E	No Shading
Ensuite	STG-002-01 A	n/a	1200	1500	S	No Shading
Bed 1	STG-005-02 A	n/a	2100	820	S	No Shading
Bed 1	STG-002-01 A	n/a	2100	590	S	No Shading
Bed 1	STG-002-01 A	n/a	2100	590	S	No Shading
Leisure	STG-007-01 A	n/a	600	3000	W	No Shading
Leisure	STG-007-01 A	n/a	1303	800	W	No Shading

ID None Present	Window type				U-value	SHGC
Roof window	/ and skylight sch	edule				
Location	ID	Roof window/skylight	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser

External w	External wall type					
ID	Wall type	Insulation	Wall wrap or foil			
EW-1	Brick Veneer	No insulation	No			
EW-2	Single Skin Brick	No insulation	No			
EW-3	Brick Veneer	Bulk Insulation R2.2	No			
EW-4	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.2	No			
External w	External wall schedule					

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# **Building features continued**

Garage     EW-1     600     2825     N     No     100       Garage     EW-1     6000     2825     E     No     100       Garage     EW-2     4295     2826     S     No     100       Entry     EW-3     1590     2750     S     No     200       Study     EW-3     1600     2750     S     No     1600       Study     EW-3     1600     2750     S     No     100       Study     EW-3     1600     2750     N     No     100       Powder     EW-3     660     2750     N     No     100       Kitchen/Family     EW-3     6495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     N     No     100       Kitchen/Family     EW-3     3495     2750     N     No     100       Litchen/Family     EW-3     3495     756     E     No     100	Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage     EW-2     4295     2825     S     No     100       Entry     EW-3     1690     2750     S     No     2700       Study     EW-3     1200     2750     E     No     1200       Study     EW-3     1600     2750     S     No     1600       Study     EW-3     1600     2750     S     No     100       Study     EW-3     3495     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     N     No     100       Kitchen/Family     EW-3     3400     2750     N     No     100       Laundry     EW-3     1790     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     0 <	Garage	EW-1	600	2825	N	No	
Entry     EW-3     1590     2750     S     No     2700       Entry     EW-3     2290     3075     W     No     100       Study     EW-3     1100     2750     E     No     2200       Study     EW-3     1600     2750     S     No     1600       Study     EW-3     3495     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     E     No     300       Laundry     EW-3     395     2750     E     No     100       Bed 4     EW-3     4095     795     N     No     0       Bed 4     EW-3     195     750     N     No     0	Garage	EW-1	6000	2825	E	No	100
Entry     EW-3     2290     3075     W     No     100       Study     EW-3     1100     2750     E     No     1200       Study     EW-3     1200     2750     S     No     1600       Study     EW-3     1420     2750     S     No     100       Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     N     No     100       Kitchen/Family     EW-3     3400     2750     N     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     1995     795     N     No     0       Bed 4     EW-4     2995     1655     N     No     700	Garage	EW-2	4295	2825	S	No	100
Study     EW-3     1100     2750     E     No     2200       Study     EW-3     1600     2750     S     No     1600       Study     EW-3     1200     2750     S     No     100       Study     EW-3     3495     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     N     No     100       Kitchen/Family     EW-3     3100     2750     E     No     3000       Kitchen/Family     EW-3     3400     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     1995     795     N     No     0       Bed 4     EW-3     2995     795     N     No     0       WIR     EW-4     1190     1655     N     No     700	Entry	EW-3	1590	2750	S	No	2700
Situdy     EW-3     1600     2750     S     No     1600       Study     EW-3     1200     2750     S     No     100       Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     4100     2750     N     No     100       Kitchen/Family     EW-3     3400     2750     E     No     3200       Kitchen/Family     EW-3     3400     2750     E     No     100       Laundry     EW-3     4095     795     W     No     0       Bed 4     EW-3     2995     1655     N     No     700       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     3295     795     N     No     0	Entry	EW-3	2290	3075	W	No	100
Study     EW-3     1200     2750     S     No     100       Study     EW-3     3495     2750     W     No     100       Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     N     No     100       Kitchen/Family     EW-3     3100     2750     N     No     3200       Kitchen/Family     EW-3     1790     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     0       Bed 4     EW-3     4095     1655     W     No     0       Bed 4     EW-4     2995     795     N     No     0       Bed 4     EW-3     3190     795     N     No     0 <td>Study</td> <td>EW-3</td> <td>1100</td> <td>2750</td> <td>E</td> <td>No</td> <td>2200</td>	Study	EW-3	1100	2750	E	No	2200
Study     EW-3     3495     2750     W     No     100       Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     N     No     100       Kitchen/Family     EW-3     3100     2750     N     No     100       Kitchen/Family     EW-3     3400     2750     E     No     100       Laundry     EW-3     3400     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     2995     795     W     No     0       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-4     2995     1655     N     No     700       Bed 4     EW-3     3295     795     N     No     0  <	Study	EW-3	1600	2750	S	No	1600
Powder     EW-3     1595     2750     W     No     100       Powder     EW-3     600     2750     N     No     100       Kitcher/Family     EW-3     8495     2750     W     No     100       Kitcher/Family     EW-3     4100     2750     E     No     3500       Kitcher/Family     EW-3     3400     2750     E     No     3200       Kitcher/Family     EW-3     3895     2750     E     No     100       Laundry     EW-3     4095     795     W     No     0       Bed 4     EW-3     4095     795     N     No     0       Bed 4     EW-4     4095     1655     N     No     700       Bed 4     EW-3     1190     795     N     No     0       WIR     EW-3     3295     795     N     No     0       Bed 2     EW-3     3495     795     N     No     0	Study	EW-3	1200	2750	S	No	100
Powder     EW-3     600     2750     N     No     100       Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     4100     2750     N     No     100       Kitchen/Family     EW-3     3100     2750     N     No     3200       Kitchen/Family     EW-3     3400     2750     E     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-3     4095     1655     W     No     700       Bed 4     EW-4     2995     1655     N     No     700       WIR     EW-3     1990     795     N     No     0       WIR     EW-4     2995     1655     N     No     700       WIR     EW-3     3295     795     N     No     0       Bed 2     EW-3     3295     795     E     No     0	Study	EW-3	3495	2750	W	No	100
Kitchen/Family     EW-3     8495     2750     W     No     100       Kitchen/Family     EW-3     3100     2750     N     No     3500       Kitchen/Family     EW-3     3400     2750     E     No     3500       Kitchen/Family     EW-3     3490     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-3     2995     1655     N     No     700       Bed 4     EW-3     1990     795     N     No     0       WiR     EW-4     2995     1655     N     No     700       WiR     EW-4     3295     795     N     No     0       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     700	Powder	EW-3	1595	2750	W	No	100
Kitchen/Family     EW-3     4100     2750     N     No     100       Kitchen/Family     EW-3     3100     2750     E     No     3500       Kitchen/Family     EW-3     3400     2750     F     No     100       Laundry     EW-3     1790     2750     F     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-3     4095     1655     W     No     700       Bed 4     EW-3     2995     1655     N     No     700       Bed 4     EW-4     1995     1655     N     No     700       Bed 2     EW-3     3190     795     N     No     0       Bed 2     EW-4     1190     795     N     No     700       Bed 2     EW-3     3295     795     N     No     700       Bed 2     EW-4     3295     1655     N     No     700 <t< td=""><td>Powder</td><td>EW-3</td><td>600</td><td>2750</td><td>Ν</td><td>No</td><td>100</td></t<>	Powder	EW-3	600	2750	Ν	No	100
Kitchen/Family     EW-3     3100     2750     E     No     3500       Kitchen/Family     EW-3     3400     2750     N     No     3200       Kitchen/Family     EW-3     3895     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-3     2995     795     N     No     700       Bed 4     EW-4     2995     1655     N     No     700       WIR     EW-3     1190     795     N     No     0       WIR     EW-4     3295     795     N     No     700       Bed 2     EW-3     3295     795     N     No     700       Bed 2     EW-4     3295     1655     E     No     700       Bed 3     EW-4     3090     795     E     No     0	Kitchen/Family	EW-3	8495	2750	W	No	100
Kitchen/Family     EW-3     3400     2750     N     No     3200       Kitchen/Family     EW-3     3895     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     4095     1655     W     No     0       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     1655     N     No     0       Bed 4     EW-4     2995     1655     N     No     0       WIR     EW-3     1190     1655     N     No     0       WIR     EW-4     3295     795     N     No     0       Bed 2     EW-3     3295     1655     N     No     0       Bed 2     EW-4     3495     1655     E     No     0       Bed 3     EW-3     3090     795     E     No     0       Bed 3	Kitchen/Family	EW-3	4100	2750	Ν	No	100
Kitchen/Family     EW-3     3895     2750     E     No     100       Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-4     4095     1655     W     No     700       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     1655     N     No     700       WIR     EW-4     2995     1655     N     No     0       WIR     EW-4     1190     795     N     No     0       Bed 2     EW-3     3295     1655     N     No     700       Bed 2     EW-4     3495     795     E     No     0       Bed 1     EW-3     3090     795     E     No     700       Bed 3     EW-4     3090     1655     E     No     700       Bed 3	Kitchen/Family	EW-3	3100	2750	E	No	3500
Laundry     EW-3     1790     2750     E     No     100       Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-4     2995     1655     N     No     700       WIR     EW-4     1190     1655     N     No     0       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-3     3495     1655     E     No     0       Bed 3     EW-4     3495     1655     E     No     0       Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4	Kitchen/Family	EW-3	3400	2750	Ν	No	3200
Bed 4     EW-3     4095     795     W     No     0       Bed 4     EW-4     4095     1655     W     No     700       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     1655     N     No     700       WR     EW-3     1190     795     N     No     0       WR     EW-4     1190     1655     N     No     700       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     700       Bed 2     EW-3     3495     1655     E     No     0       Bed 3     EW-3     3090     795     E     No     0       Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4	Kitchen/Family	EW-3	3895	2750	E	No	100
Bed 4     EW-4     4095     1655     W     No     700       Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-3     2995     1655     N     No     700       WIR     EW-3     1190     795     N     No     0       WIR     EW-4     1190     1655     N     No     700       Bed 2     EW-3     3295     795     N     No     700       Bed 2     EW-4     3295     1655     N     No     700       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-4     3495     1655     E     No     0       Bath     EW-3     3090     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Ensuite     EW	Laundry	EW-3	1790	2750	E	No	100
Bed 4     EW-3     2995     795     N     No     0       Bed 4     EW-4     2995     1655     N     No     700       WIR     EW-3     1190     795     N     No     0       WIR     EW-4     1190     1655     N     No     0       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-3     3295     1655     N     No     0       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-3     3495     795     E     No     0       Bed 3     EW-3     3090     795     E     No     0       Bed 3     EW-4     3090     1655     E     No     700       Bed 3     EW-4     2195     795     E     No     700       Bed 3     EW-4     2190     2450     E     No     700       Ensuite     EW-4	Bed 4	EW-3	4095	795	W	No	0
Bed 4     EW-4     2995     1655     N     No     700       WIR     EW-3     1190     795     N     No     0       WIR     EW-3     1190     1655     N     No     0       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     0       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-3     3495     1655     E     No     0       Bed 3     EW-3     3090     795     E     No     0       Bath     EW-3     3090     1655     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     2190     2450     E     No     700       Ensuite     EW-4 <td>Bed 4</td> <td>EW-4</td> <td>4095</td> <td>1655</td> <td>W</td> <td>No</td> <td>700</td>	Bed 4	EW-4	4095	1655	W	No	700
WIR     EW-3     1190     795     N     No     0       WIR     EW-4     1190     1655     N     No     700       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     0       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-4     3495     1655     E     No     700       Bed 3     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-3     2195     795     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Ensuite     EW-4     1995     2450     E     No     700       Ensuite     EW-	Bed 4	EW-3	2995	795	N	No	0
WIR     EW-4     1190     1655     N     No     700       Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     700       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-3     3495     1655     E     No     0       Bed 2     EW-4     3495     1655     E     No     0       Bed 3     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-4     3295     1655     S     No     0  Ensuite     EW-4	Bed 4	EW-4	2995	1655	N	No	700
Bed 2     EW-3     3295     795     N     No     0       Bed 2     EW-4     3295     1655     N     No     700       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-4     3495     1655     E     No     0       Bath     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-4     2195     795     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     1795     2450     E     No     700       Ensuite     EW-3     3295     795     S     No     0       Ensuite     EW-4     3295     1655     S     No     0       Bed 1     EW-4	WIR	EW-3	1190	795	N	No	0
Bed 2     EW-4     3295     1655     N     No     700       Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-4     3495     1655     E     No     700       Bath     EW-3     3090     795     E     No     0       Bath     EW-3     3090     1655     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-3     2195     795     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-4     3295     1655     S     No     0       Ensuite     EW-3     3295     795     S     No     0       Bed 1	WIR	EW-4	1190	1655	N	No	700
Bed 2     EW-3     3495     795     E     No     0       Bed 2     EW-4     3495     1655     E     No     700       Bath     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     0       Bed 3     EW-4     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     2195     2450     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       Ensuite     EW-4     3295     795     S     No     0       Ensuite     EW-4     3295     1655     S     No     0       Bed 1     EW-3     1100     795     E     No     0       Bed 1     E	Bed 2	EW-3	3295	795	N	No	0
Bed 2     EW-4     3495     1655     E     No     700       Bath     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     2190     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-4     3295     795     S     No     0       Bed 1     EW-3     3295     795     E     No     0       Bed 1     EW-4     3000     795     E     No     0       Bed 1 <td< td=""><td>Bed 2</td><td>EW-4</td><td>3295</td><td>1655</td><td>N</td><td>No</td><td>700</td></td<>	Bed 2	EW-4	3295	1655	N	No	700
Bath     EW-3     3090     795     E     No     0       Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     1795     2450     E     No     700       Ensuite     EW-4     3295     795     S     No     0       Ensuite     EW-3     3295     795     E     No     0       Bed 1     EW-4     3295     1655     S     No     0       Bed 1     EW-3     1100     795     E     No     0       Bed 1     E	Bed 2	EW-3	3495	795	E	No	0
Bath     EW-4     3090     1655     E     No     700       Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     2190     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-3     3295     795     S     No     0       Ensuite     EW-4     3295     1655     S     No     700       Bed 1     EW-3     1100     795     E     No     0       Bed 1     EW-3     700     795     S     No     0       Bed 1     EW-4     100     1655     S     No     2000       Bed 1	Bed 2	EW-4	3495	1655	E	No	700
Bed 3     EW-3     2195     795     E     No     0       Bed 3     EW-4     2195     1656     E     No     700       Bed 3     EW-4     1995     2450     E     No     700       WIR     EW-4     2190     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-4     1795     2450     E     No     700       Ensuite     EW-3     3295     795     S     No     0       Ensuite     EW-3     3295     1655     S     No     700       Bed 1     EW-3     1100     795     E     No     0       Bed 1     EW-3     700     795     S     No     0       Bed 1     EW-4     700     1655     S     No     2000       Bed 1     EW-4     2100     2451     S     No     0       Bed 1	Bath	EW-3	3090	795	E	No	0
Bed 3EW-421951656ENo700Bed 3EW-419952450ENo700WIREW-421902450ENo700EnsuiteEW-417952450ENo700EnsuiteEW-33295795SNo0EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-411001655ENo0Bed 1EW-3700795SNo0Bed 1EW-411001655SNo0Bed 1EW-47001655SNo0Bed 1EW-421002451SNo0Bed 1EW-31400795SNo0Bed 1EW-413002450WNo700Bed 1EW-436952450WNo700Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0	Bath	EW-4	3090	1655	E	No	700
Bed 3EW-419952450ENo700WIREW-421902450ENo700EnsuiteEW-417952450ENo700EnsuiteEW-33295795SNo0EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-41001655ENo0Bed 1EW-411001655SNo0Bed 1EW-41001655SNo0Bed 1EW-3700795SNo0Bed 1EW-41001655SNo0Bed 1EW-43002451SNo2000Bed 1EW-414001655SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0	Bed 3	EW-3	2195	795	E	No	0
WIREW-421902450ENo700EnsuiteEW-417952450ENo700EnsuiteEW-33295795SNo0EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-411001655ENo0Bed 1EW-3700795SNo0Bed 1EW-411001655SNo0Bed 1EW-3700795SNo0Bed 1EW-41001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-436952450WNo700Bed 1EW-436952450WNo700WILEW-413902450WNo0	Bed 3	EW-4	2195	1656	E	No	700
EnsuiteEW-417952450ENo700EnsuiteEW-33295795SNo0EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-411001655ENo4000Bed 1EW-3700795SNo0Bed 1EW-411001655SNo0Bed 1EW-3700795SNo0Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-413001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo0LeisureEW-36690795WNo0	Bed 3	EW-4	1995	2450	E	No	700
EnsuiteEW-33295795SNo0EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-411001655ENo4000Bed 1EW-3700795SNo0Bed 1EW-411001655SNo0Bed 1EW-3700795SNo0Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-413001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo0LeisureEW-36690795WNo0	WIR	EW-4	2190	2450	E	No	700
EnsuiteEW-432951655SNo700Bed 1EW-31100795ENo0Bed 1EW-411001655ENo4000Bed 1EW-3700795SNo0Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-42100795SNo0Bed 1EW-436952450WNo2000Bed 1EW-414001655SNo2000Bed 1EW-41400795SNo0Bed 1EW-436952450WNo700WLLEW-413902450WNo0LeisureEW-36690795WNo0	Ensuite	EW-4	1795	2450	E	No	700
Bed 1EW-31100795ENo0Bed 1EW-411001655ENo4000Bed 1EW-3700795SNo0Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-436952450WNo2000Bed 1EW-413902450WNo700WILEW-41390795WNo0	Ensuite	EW-3	3295	795	S	No	0
Bed 1EW-411001655ENo4000Bed 1EW-3700795SNo0Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-414001655SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo0LeisureEW-36690795WNo0	Ensuite	EW-4	3295	1655	S	No	700
Bed 1EW-3700795SNo0Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WLLEW-413902450WNo700LeisureEW-36690795WNo0	Bed 1	EW-3	1100	795	E	No	0
Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0	Bed 1	EW-4	1100	1655	E	No	4000
Bed 1EW-47001655SNo2000Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0							0
Bed 1EW-421002451SNo2000Bed 1EW-31400795SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0	Bed 1	EW-4	700	1655	S	No	2000
Bed 1EW-31400795SNo0Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0							
Bed 1EW-414001655SNo2000Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0							
Bed 1EW-436952450WNo700WILEW-413902450WNo700LeisureEW-36690795WNo0							
WIL     EW-4     1390     2450     W     No     700       Leisure     EW-3     6690     795     W     No     0							
Leisure EW-3 6690 795 W No 0							
	Leisure	EW-4	6690	1655	W	No	700

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**

Internal wall type				
Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil	
IW-1 - Cavity wall, direct fix plasterboard, single gap	56.0	Bulk Insulation, No Air Gap R2.2	No	
IW-2 - Cavity wall, direct fix plasterboard, single gap	146.0	No insulation	No	

Floors					
Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage	Waffle pod slab 175 mm 100mm	25.4	None	Waffle Pod 175mm	Bare
Entry	Waffle pod slab 225 mm 100mm	19.2	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Study	Waffle pod slab 225 mm 100mm	9.6	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Powder	Waffle pod slab 225 mm 100mm	3.7	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Family	Waffle pod slab 225 mm 100mm	45.2	None	Waffle Pod 225mm	80/20 Carpet 10mm/Ceramic
Laundry	Waffle pod slab 225 mm 100mm	3.9	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bed 4/Kitchen/Family	Timber Above Plasterboard 100mm	12.0		No Insulation	Carpet+Rubber Underlay 18mm
WIR/Kitchen/Family	Timber Above Plasterboard 19mm	2.4		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Kitchen/Family	Timber Above Plasterboard 19mm	1.3		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2	Suspended Timber Floor 19mm	10.0	Open		Carpet+Rubber Underlay 18mm
Bath/Kitchen/Family	Timber Above Plasterboard 19mm	6.1		No Insulation	Ceramic Tiles 8mm
Bed 3/Garage	Timber Above Plasterboard 19mm	6.4		Bulk Insulation R2.2	Carpet+Rubber Underlay 18mm
Bed 3/Entry	Timber Above Plasterboard 19mm	1.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Kitchen/Family	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Laundry	Timber Above Plasterboard 19mm	4.0		No Insulation	Carpet+Rubber Underlay 18mm
WIR/Garage	Timber Above Plasterboard 19mm	6.9		Bulk Insulation R2.2	Carpet+Rubber Underlay 18mm
Ensuite/Garage	Timber Above Plasterboard 19mm	5.7		Bulk Insulation R2.2	Ceramic Tiles 8mm
Bed 1/Garage	Timber Above Plasterboard 19mm	1.2		Bulk Insulation R2.2	Carpet+Rubber Underlay 18mm
Bed 1/Entry	Timber Above Plasterboard 19mm	4.5		No Insulation	Carpet+Rubber Underlay 18mm

\* 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: 0004615894 Certificate Date: 24 Feb 2020 ★ Star rating: 5.4 **Building features continued** Bed 1/Study Timber Above Plasterboard 7.5 No Insulation Carpet+Rubber 19mm Underlay 18mm Carpet+Rubber Suspended Timber Floor 19mm 2.2 Bed 1 Open **Bulk Insulation** in Contact with Underlay 18mm Floor R2.2 **Timber Above Plasterboard** Carpet+Rubber WIL/Entry 1.4 No Insulation Underlay 18mm 19mm WIL/Powder Timber Above Plasterboard 2.4 No Insulation Carpet+Rubber Underlay 18mm 19mm

1.1

11.9

17.2

2.1

1.6

**Bulk Insulation** 

No Insulation

No Insulation

No Insulation

No Insulation

**Bulk Insulation** 

**Bulk Insulation** 

**R5** 

R2.2

Carpet+Rubber Underlay 18mm

Carpet+Rubber

Underlay 18mm

Carpet+Rubber

Underlay 18mm

**Ceramic Tiles** 

Carpet+Rubber

Underlay 18mm

8mm

Timber Above Plasterboard

Timber Above Plasterboard

**Timber Above Plasterboard** 

**Timber Above Plasterboard** 

19mm

19mm

19mm

19mm

Hallway/Kitchen/Fa Timber Above Plasterboard

19mm

Leisure/Garage

Leisure/Entry

Ceiling type

Bed 1

WIL

mily

mily

Leisure/Kitchen/Fa

WC/Kitchen/Family

#### Location Construction Added **Roof space** insulation above Garage Plasterboard No insulation Yes **Timber Above Plasterboard Bulk Insulation** No Garage R2.2 Entry **Timber Above Plasterboard** No Insulation No Plasterboard **Bulk Insulation** Study Yes R5 **Timber Above Plasterboard** Study No Insulation No Plasterboard Powder **Bulk Insulation** Yes **R5** Powder Timber Above Plasterboard No Insulation No Kitchen/Family **Timber Above Plasterboard** No Insulation No Laundry **Timber Above Plasterboard** No Insulation No Bed 4 Plasterboard **Bulk Insulation** Yes **R5** WIR Plasterboard **Bulk Insulation** Yes **R5** Bed 2 Plasterboard **Bulk Insulation** Yes **R5** Bath Plasterboard **Bulk Insulation** Yes R5 Plasterboard Yes Bed 3 **Bulk Insulation R**5 WIR Plasterboard **Bulk Insulation** Yes **R5** Plasterboard Yes Ensuite **Bulk Insulation R**5

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Plasterboard

Plasterboard

Yes

Yes

Nationwide House Energy Rating Scheme* Certificate						
Certificate numb	oer: 0004615894	Certificate Date:	24 Feb 2020	★ Star rating:	5.4	NATIONWIDE HOUSE ENERGY RATING SCHEME
Building feat	ures continued					
				R5		
Leisure	Plasterboard			Bulk Insulation R5	Yes	
WC	Plasterboard			Bulk Insulation R5	Yes	
Hallway	Plasterboard			Bulk Insulation R5	Yes	

Ceiling penetrations				
Location	Number	Туре	Diameter (mm)	Sealed/unsealed
Powder	1	Exhaust Fans	300	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed

Ceiling fans			
Location	Number	Diameter (mm)	
None Present			

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

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004615894

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



# **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