Nationwide House Energy Rating Scheme NatHERS Certificate No. 0005290259-01

Generated on 25 Mar 2021 using BERS Pro v4.4.0.2 (3.21)

New Dwelling

Property

Unit 1, 263 Mount Vernon Road Street, Mount Vernon, NSW, 2178

Lot/DP 72/32140 NCC Class*

Plans

Grippaudo 20-1072

Construction and environment

Assessed floor a	rea (m²)*	Exposure Type
Conditioned*	328.0	Suburban
Unconditioned*	485.0	NatHERS climate zone
Total	813.0	28
Garage	457.0	



Frys Energywise

comply@frysenergywise.com.au 02 9899 2825 DMN/12/1441

NATIONWIDE HOUSE 91.7 MJ/m²

Thermal performance

	Portoritation
Heating	Cooling
54.3	37.4
MJ/m ²	MJ/m²

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Verification To verify this

certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=rbKCSNrOm. When using either link, ensure you are visiting hstar.com.au

National Construction Code (NCC) requirements

The NCC's requirements for NathERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal beaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Sound Standard) are available at www.abcb.gov.au. State and territory variations and additions to the NCC may also apply.



2450

External wall type

Entry/Hallway

	21				
Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Single Skin Brick	0.50	Medium	No insulation	No
EW-2	Brick Veneer	0.50	Medium	No insulation	No
EW-3	Single Skin Brick	0.50	Medium	No insulation	No
EW-4	Fibro Cavity Panel Direct Fix	0.50	Medium	No insulation	No
EW-5	Brick Veneer	0.50	Medium	Reflective foil with bulk no gap R2.5	Yes
EW-6	Brick Veneer	0.50	Medium	Reflective foil with bulk no gap R2.5	Yes
FW-7	Fibro Cavity Panel Direct Fix	0.50	Medium	Reflective foil with bulk no gap R2.5	Yes

External wall schedule

Version: 1, Version Date: 28/04/2021

Location	Wall Height Width Horizontal shading ID (mm) (mm) Orientation feature* maximum projection (mm)		Vertical shading feature (yes/no)			
Garage 1	EW-1	3000	17400	NW	100	NO
Garage 1	EW-1	3000	5000	NE	100	YES
Garage 1	EW-1	3000	5100	NW	100	YES
Garage 1	EW-1	3000	7800	NE	7600	NO
Garage 1	EW-1	3000	4900	SE	5100	YES
Garage 1	EW-1	3000	5200	NE	12500	YES
Garage 1	EW-1	3000	17600	SE	3400	NO
Garage 1	EW-1	3000	18000	sw	3800	NO
Garage 2	EW-2	3172	8700	NW	600	NO
Garage 2	EW-3	3172	3200	NE	100	YES
Garage 2	EW-3	3172	800	NW	100	YES
Garage 2	EW-3	3172	6300	NE	100	NO
Garage 2	EW-3	3172	800	SE	100	YES
Garage 2	EW-3	3172	3300	NE	100	YES
Garage 2	EW-4	3172	6295	SE	600	NO
Garage 2	EW-5	3000	1500	SW	400	YES
Bathroom	EW-5	3000	1300	SW	0	YES
Bathroom	EW-5	3000	3695	NW	600	YES
Laundry	EW-5	3000	2690	NW	6900	YES
Pantry	EW-5	3000	3990	NW	6900	NO
Ensuite M	EW-5	3000	3000	sw	500	YES
Ensuite M	EW-5	3000	3695	SE	700	YES

0005290259-01 NatHERS Certificate 5.9 Star Rating as of 25 Mar 2021

Certificate check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling's rating.

Does this Certificate match the one available at the web address or QR code in the verification box on the front page? Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Does the 'number' and 'type' of ceiling penetrations (e.g. downlights, exhaust fans, etc.) shown on the stamped plans or installed, match what is shown in this Certificate?

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate?

Apartment entrance doors

Does the "External Door Schedule" show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.

Has the appropriate exposure level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional notes

Window and glazed door type and performance

Default* windows

WindowID	Window	Maximum	011001	Substitution tolerance ranges		
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
TIM-004-03 W	TM-004-03 W Timber B DG Air Fill High Solar Gain low- E -Clear	2.3	0.32	0.32	0.32	

Window ID	Window	Maximum	SHGC*	Substitution to	Substitution tolerance ranges		
WINDOWID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit		
TND-002-01 A	TND-002-01 ATrend Al Awning Window SG 3Cir	6.5	0.66	0.63	0.69		
TND-024-01 A	TND-024-01 ATrend A Internal offset glazed window SG 5Cir	6.1	0.75	0.71	0.79		
TND-020-01 A	TND-020-01 ATrend Al Double Hung Window SG 3Clr	6.1	0.75	0.71	0.79		
TND-026-05 A	TND-026-05 ATrend Al Bi-Fold Door DG LightBridge_ClrS0_4-10-4	3.3	0.40	0.38	0.42		
TND-029-05 A	TND-029-05 ATrend Al Double Hung Window DG LightBridge ClrS0 4-10-4	3.3	0.46	0.44	0.48		

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Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)	
Master Suite	EW-5	3000	6395	SE	700	YES	
Master Suite	EW-5	3000	600	SW	4200	YES	
Bedroom 2	EW-5	3000	4195	SE	10800	YES	
Bedroom 2	EW-5	3000	1000	NE	4800	YES	
Bedroom 3	EW-5	3000	1500	NE	600	YES	
Bedroom 3	EW-5	3000	4195	SE	3400	YES	
WIR 3	EW-6	3000	1490	SE	600	YES	
Kitchen/Dining	EW-5	4900	7395	SW	2400	YES	
Kitchen/Dining	EW-5	4900	12700	NW	6200	NO	
Kitcher/Dining	EW-5	4900	700	NE	19700	YES	
Kitchen/Dining	EW-5	4900	495	NW	6900	YES	
Theatre/Gym	EW-7	3000	4495	SE	600	YES	
Theatre/Gym	EW-7	3000	3700	SW	600	NO	
Theatre/Gym	EW-5	3000	1900	SW	600	NO	
Theatre/Gym	EW-5	3000	1400	NW	13600	YES	
Entry/Hallway	EW-5	3000	4100	NE	6900	YES	
Entry/Hallway	EW-5	3000	2900	SE	6700	NO	
Entry/Hallway	EW-5	3000	700	SW	6800	YES	

Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
IW-1 - Cavity wall, direct fix plasterboard, single gap		41.00	Bulk Insulation, No Air Gap R2.5
IW-2 - Cavity wall, direct fix plasterboard, single gap		50.00	Bulk Insulation, No Air Gap R2
fW-3 - Cavity wall, direct fix plasterboard, single gap		262.00	No insulation

Floor type

Construction	Area (m²)			Covering
Concrete Slab on Ground 100mm	354.00	None	No Insulation	Bare
Concrete Above Plasterboard 150mm	9.30		Bulk Insulation R2.5	Bare
Suspended Concrete Slab 150mm	98.60	Very Open	No Insulation	Bare
Concrete Above Plasterboard 150mm	15.10		Bulk Insulation R2.5	Ceramic Tiles 8mm
Concrete Above Plasterboard 150mm	13.20		Bulk Insulation R2.5	Ceramic Tiles 8mm
Concrete Above Plasterboard 150mm	19.80		Bulk Insulation R2.5	Ceramic Tiles 8mm
Concrete Above Plasterboard 150mm	3.60		Bulk Insulation R2.5	Ceramic Tiles 8mm
Concrete Above Plasterboard 100mm	4.30		Bulk Insulation R2.5	Ceramic Tiles 8mm
	Concrete Slab on Ground 100mm Concrete Above Plasterboard 150mm Suspended Concrete Slab 150mm Concrete Above Plasterboard	Concrete Slab on Ground 100mm Concrete Above Plasterboard 150mm Suspended Concrete Slab 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm 19.80 Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 150mm Concrete Above Plasterboard 14.00 Concrete Above Plasterboard 150mm Concrete Above Plasterboard Concrete Above Plasterboard	Concrete Slab on Ground 100mm Concrete Above Plasterboard 150mm Suspended Concrete Slab 150mm Concrete Above Plasterboard 150mm 19.80 Concrete Above Plasterboard 150mm Concrete Above Plasterboard Concrete Above Plasterboard 14.30	Concrete Slab on Ground 100mm Concrete Slab on Ground 100mm Suspended Concrete Slab 150mm Concrete Above Plasterboard

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Custom* windows

for down ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
findow ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
	TND-031-05 ATrend Al Internal offset					
ND-031-05 A	glazed window DG LightBridge_ClrS0_4- 10-4	2.3	0.52	0.49	0.55	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	shading device*
Garage 1	TND-002-01 A	n/a	600	2650	n/a	90	SW	No
Garage 2	TND-024-01 A	n/a	2035	850	n/a	00	NW	No
Garage 2	TND-002-01 A	n/a	2035	1810	n/a	22	NW	No
Garage 2	TND-002-01 A	n/a	2035	1810	n/a	22	NW	No
Garage 2	TND-020-01 A	n/a	2400	3010	n/a	20	SE	No
Garage 2	TND-024-01 A	n/a	1000	4480	n/a	00	NE	No Shading
Bathroom	TND-024-01 A	n/a	2400	2650	n/a	00	NW	No
Laundry	TND-024-01 A	n/a	2340	360	n/a	00	NW	No
Pantry	TND-026-05 A	n/a	2400	3612	n/a	33	NW	No
Ensuite M	TND-020-01 A	n/a	2400	1570	n/a	45	SW	No
Ensuite M	TND-020-01 A	n/a	2400	1570	n/a	45	SE	No
Master Suite	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Master Suite	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Master Suite	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Bedroom 2	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Bedroom 2	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Bedroom 3	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Bedroom 3	TND-029-05 A	n/a	2400	970	n/a	45	SE	No
Kitchen/Dining	TND-026-05 A	n/a	2400	2530	n/a	90	SW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2530	n/a	00	SW	No
Kitchen/Dining	TND-026-05 A	n/a	2400	2530	n/a	90	SW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2530	n/a	00	SW	No
Kitchen/Dining	TND-026-05 A	n/a	2400	5650	n/a	45	NW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2530	n/a	00	NW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2530	n/a	00	NW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2410	n/a	00	NW	No
Kitchen/Dining	TND-031-05 A	n/a	1030	2530	n/a	00	NW	No
Kitchen/Dining	TND-026-05 A	n/a	2400	2530	n/a	90	NW	No
Kitchen/Dining	TND-024-01 A	n/a	650	2800	n/a	00	NW	No Shading
Theatre/Gym	TND-026-05 A	n/a	2400	2761	n/a	90	SE	No
Theatre/Gym	TND-029-05 A	n/a	2400	1570	n/a	45	SW	No
Entry/Hallway	TND-029-05 A	n/a	2400	1210	n/a	45	NE	No

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Location	Construction		Sub-floor ventilation	Addedinsulation (R-value)	Covering
Ensuite M	Concrete Slab on Ground 100mm	13.00	None	No Insulation	Ceramic Tiles 8mm
WIR MGarage 1	Concrete Above Plasterboard 150mm	27.10		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Master Suite/Garage 1	Concrete Above Plasterboard 100mm	14.00		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Master Suite	Concrete Slab on Ground 100mm	26.20	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/Garage 1	Concrete Above Plasterboard 100mm	14.90		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab on Ground 100mm	5.20	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 3	Concrete Slab on Ground 100mm	19.60	Nane	No Insulation	Carpet+Rubber Underlay 18mm
WIR 3	Suspended Concrete Slab 150mm	4.60	Very O pen	No Insulation	Ceramic Tiles 8mm
WIR 2/Garage 1	Concrete Above Plasterboard 150mm	3.30		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Kitchen/Dining/Garage	Concrete Above Plasterboard 150mm	84.30		Bulk Insulation R2.5	Ceramic Tiles 8mm
Kitchen/Dining	Suspended Concrete Slab 150mm	16.90	Very Open	Bulk Insulation in Contact with Floor R2.5	60/40 Carpet 10mm/Ceramic
Theatre/Gym/Garage	Concrete Above Plasterboard 150mm	3.90		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Theatre/Gym	Suspended Concrete Slab 150mm	20.90	Very O pen	Bulk Insulation in Cortact with Floor R2.5	Carpet+Rubber Underlay 18mm
Entry/Hallway/Garage 1	Concrete Above Plasterboard 100mm	32.00		Bulk Insulation R2.5	Ceramic Tiles 8mm
Entry/Hallway	Concrete Slab on Ground 100mm	14.40	None	No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage 1	Plasterboard	No insulation	No
Garage 1	Concrete Above Plasterboard	Bulk Insulation R2.5	No
Garage 2	Plasterboard	No insulation	No
Bathroom	Plasterboard	Bulk Insulation R5	No
Laundry	Plasterboard	Bulk Insulation R5	No
Pantry	Plasterboard	Bulk Insulation R5	No
Cool Room	Plasterboard	Bulk Insulation R5	No
Ensuite M	Plasterboard	Bulk Insulation R5	No
WIR M	Plasterboard	Bulk Insulation R5	No
Master Suite	Plasterboard	Bulk Insulation R5	No
Bedroom 2	Plasterboard	Bulk Insulation R5	No
Bedroom 3	Plasterboard	Bulk Insulation R5	No
WIR 3	Plasterboard	Bulk Insulation R5	No
WIR 2	Plasterboard	Bulk Insulation R5	No
Kitchen/Dining	Plasterboard	Bulk Insulation R5	No
Theatre/Gym	Plasterboard	Bulk Insulation R5	No

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Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Entry/Hallway	TND-029-05 A	n/a	2400	1210	n/a	45	NE	No
Entry/Hallway	TM-004-03 W	n/a	600	2450	n/a	00	SE	No

Description

D(efau	út"	roof	W	ind

IVO Dala Availa	ле				
Custom* roof v	vindows				
WindowID	Window	Maximum	SHGC*	Substitution to	olerance ranges
WINDOWID	Description	U-value*	SHOC	SHGC lower limit	SHGC upper limit

0.24

Maximum U-value*

Substitution tolerance ranges

SHGC lower limit SHGC upper limit

0.25

0.23

Roof window schedule

VEL-011-01 W Glass

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orientation	Outdoor shade	Indoor shade
WIR M	VEL-011-01 W	n/a	0	600	600	SE	No	No
WIR M	VEL-011-01 W	n/a	0	600	600	SE	No	No

Skylight type and performance

Skylight ID	Skylight description	
No Data Available		

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft le ngth (mm)	Area (m²)	Orientation	Outdoor shade	Diffuser	Skylight shaft reflectance
No Data Av	allable							

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage 1	2486	4810	90	SW
Garage 1	2486	4810	90	SW
Garage 2	2400	2410	90	NE
Garage 2	2486	4810	90	NE
Garage 2	2400	2410	90	NE
Bathroom	2340	820	90	SW

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Entry/Hallway	Plasterboard	Bulk Insulation R5	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm²)	Se aled/unsealed	
Bathroom	1	Exhaust Fans	300	Sealed	
Ensuite M	1	Exhaust Fans	300	Sealed	

Ceiling fans

Location	Quantity	Diameter (mm)
No Data Available		

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Waterproofing Membrane	No Insulation, Only an Air Gap	0.85	Dark
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.85	Dark





MR. FRANK GRIPPAUDO MS. DANIELLE LUCEY

SIGNATURE: DATE: I ACCEPT AND APPROVE CURRENT PLANS AND ALL DOCUMENTATION PROVIDED TO ME BY FOWLER HOMES. SITE ADDRESS: LOT 72, DP 32140

(No.263) MOUNT VERNON ROAD

MOUNT VERNON, NSW, 2178