Nationwide House Energy Rating Scheme NatHERS Certificate No. 9G0A73JBYI

Generated on 26 Apr 2021 using FirstRate5: 5.3.1 (3.21)

Property

Address Lot/DP NCC Class* Type Lot B, 863 MONTPELIER DRIVE , THE OAKS , NSW, 2570 12/1232323 Class 1a New Home

Plans

Main plan Prepared by 0272 / REV. H ALVARO ARCHITECTS P/L

Construction and environment

Assessed floor area (m ²)*					
Conditioned*	254.1				
Unconditioned*	52.6				
Total	306.7				
Garage	38				

Exposure type suburban NatHERS climate zone 28, THE OAKS



Accredited assessor

NameNermeinBusiness nameLoka CoEmailinfo@lcPhone806596Accreditation No.101399Assessor Accrediting OrganisationABSADeclaration of interestDeclaration

Nermein Loka Loka Consulting Engineers info@lceng.com.au 80659689 101399

Declaration completed: no conflicts

NATIONWIDE HOUSE ENERGY RATING SCHEME

the more energy efficient

99.4 MJ/m²

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Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performanceHeatingCooling53.745.7MJ/m²MJ/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 https://www.fr5.com.au /QRCodeLanding?PublicId= 9G0A73JBYI When using either link, ensure you are visiting www.FR5.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 breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at www.abcb.gov.au.

State and territory variations and additions to the NCC may also apply.

* Refer to glossary.

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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.

Genuine certificate

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?

Ceiling penetrations*

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?

Windows

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.

Exposure*

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

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51	
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58	0.55	0.61	

Custom* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Availab	le				

Window and glazed door Schedule

			Height	Width				Window shading
Location	Window ID	Window no.	(mm)	(mm)	Window type	Opening %	Orientation	device*
Garage 1	ALM-001-03 A	D203	2400	1000	casement	100.0	Ν	No
Garage 1	ALM-002-03 A	W210	944	1800	sliding	45.0	Ν	No
Laundry	ALM-002-03 A	D204	2400	1000	fixed	0.0	Ν	No
Laundry	ALM-002-03 A	W211	2400	210	fixed	0.0	Ν	No

* Refer to glossary.

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5.4 Star Rating as of 26 Apr 2021

Bedroom 1 ALM-001-03 A W207 2100 1850 awning 30.0 S No Bathroom ALM-002-03 A W206 1370 2170 sliding 45.0 W No Master bed ALM-002-03 A D207 2700 2410 sliding 45.0 N No Master bed ALM-002-03 A W215 2700 1640 fixed 0.0 W No WIR ALM-001-03 A W201 2100 1850 awning 30.0 S No ENS ALM-001-03 A W202 2100 730 awning 30.0 S No Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W204 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>EVANOVE RADIANCE SCHOOL</th></tr<>									EVANOVE RADIANCE SCHOOL
Master bed ALM-002-03 A D207 2700 2410 sliding 45.0 N No Master bed ALM-002-03 A W215 2700 1640 fixed 0.0 W No WIR ALM-001-03 A W201 2100 1850 awning 30.0 S No ENS ALM-001-03 A W202 2100 730 awning 60.0 S No Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W203 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Entry Hall ALM-001-03 A D202 2700 5460 other 90.0 W No	Bedroom 1	ALM-001-03 A	W207	2100	1850	awning	30.0	S	No
Master bed ALM-002-03 A W215 2700 1640 fixed 0.0 W No WIR ALM-001-03 A W201 2100 1850 awning 30.0 S No ENS ALM-001-03 A W202 2100 730 awning 60.0 S No Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W203 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D202 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No	Bathroom	ALM-002-03 A	W206	1370	2170	sliding	45.0	W	No
WIR ALM-001-03 A W201 2100 1850 awning 30.0 S No ENS ALM-001-03 A W202 2100 730 awning 60.0 S No Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W203 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No	Master bed	ALM-002-03 A	D207	2700	2410	sliding	45.0	Ν	No
ENS ALM-001-03 A W202 2100 730 awning 60.0 S No Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W204 2100 1850 awning 30.0 S No Bedroom 1 ALM-001-03 A W204 2100 1850 awning 30.0 S No Bedroom 1 ALM-001-03 A W204 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Entry Hall ALM-001-03 A D202 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 awning 30.0 E No </td <td>Master bed</td> <td>ALM-002-03 A</td> <td>W215</td> <td>2700</td> <td>1640</td> <td>fixed</td> <td>0.0</td> <td>W</td> <td>No</td>	Master bed	ALM-002-03 A	W215	2700	1640	fixed	0.0	W	No
Bedroom 3 ALM-001-03 A W203 2100 1850 awning 30.0 S No Bedroom 2 ALM-001-03 A W204 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 No	WIR	ALM-001-03 A	W201	2100	1850	awning	30.0	S	No
Bedroom 2 ALM-001-03 A W204 2100 1850 awning 30.0 S No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 No	ENS	ALM-001-03 A	W202	2100	730	awning	60.0	S	No
Kitchen/Living 11 ALM-002-03 A W213 750 4210 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A D202 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-001-03 A W212 2400 210 fixed 0.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No	Bedroom 3	ALM-001-03 A	W203	2100	1850	awning	30.0	S	No
Kitchen/Living 11 ALM-002-03 A W214 2100 6690 fixed 0.0 N No Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No </td <td>Bedroom 2</td> <td>ALM-001-03 A</td> <td>W204</td> <td>2100</td> <td>1850</td> <td>awning</td> <td>30.0</td> <td>S</td> <td>No</td>	Bedroom 2	ALM-001-03 A	W204	2100	1850	awning	30.0	S	No
Kitchen/Living 11 ALM-002-03 A D206 2700 5460 other 90.0 W No Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Kitchen/Living 11	ALM-002-03 A	W213	750	4210	fixed	0.0	Ν	No
Entry Hall ALM-001-03 A D202 2700 1200 casement 100.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Kitchen/Living 11	ALM-002-03 A	W214	2100	6690	fixed	0.0	Ν	No
Entry Hall ALM-001-03 A W209 2700 1200 awning 30.0 E No Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Kitchen/Living 11	ALM-002-03 A	D206	2700	5460	other	90.0	W	No
Entry Hall ALM-001-03 A D205 2400 1000 casement 60.0 N No Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Entry Hall	ALM-001-03 A	D202	2700	1200	casement	100.0	Е	No
Entry Hall ALM-002-03 A W212 2400 210 fixed 0.0 N No Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Entry Hall	ALM-001-03 A	W209	2700	1200	awning	30.0	Е	No
Rumpus ALM-002-03 A W208 2700 2480 fixed 0.0 E No Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Entry Hall	ALM-001-03 A	D205	2400	1000	casement	60.0	Ν	No
Rumpus ALM-002-03 A D201 2700 2410 sliding 30.0 N No	Entry Hall	ALM-002-03 A	W212	2400	210	fixed	0.0	Ν	No
	Rumpus	ALM-002-03 A	W208	2700	2480	fixed	0.0	Е	No
Corridor ALM-002-03 A W205 1540 1570 sliding 30.0 S No	Rumpus	ALM-002-03 A	D201	2700	2410	sliding	30.0	Ν	No
	Corridor	ALM-002-03 A	W205	1540	1570	sliding	30.0	S	No

Roof window type and performance value

Default* roof windows

						Substit	ution to	erance ranges
Window ID	Window description		Maximum U-value*	SH	IGC*	SHGC low	ver limit	SHGC upper limit
No Data Available								
Custom* roof windows								
						Substit	ution to	erance ranges
Window ID	Window description		Maximum U-value*	SH	IGC*	SHGC low	ver limit	SHGC upper limit
No Data Available								
Location	Window ID	Window no.	Opening %	-	krea m²) C	Drientation	Outdoo shade	or Indoor shade
No Data Available								
Skylight type a	nd performance		Skylight des	cripti	on			
GEN-04-001a			SC: Single C	ear				
Skylight schea	lule	Skylight	Skylight shaft	Area	Orient	- Outdoor		Skylight shaft
Location	Skylight ID	No.	length (mm)	(m²)	ation	shade	Diffuse	r reflectance
Corridor	GEN-04-001a	Element 1	1000	0.6	Ν	None	No	0.75

* Refer to glossary.

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9G0A73JBYI NatHER	S Certificate	5.4 Star Ra	ting as of 26	6 Apr 2021			HIGUNE
Corridor	GEN-04-001a	Element 2	1000	0.6 N	None	No	0.75

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage 1	2100	5046	100.0	E

External wall type

		Solar	Wall shade		Reflective
Wall ID	Wall type	absorptance	(colour)	Bulk insulation (R-value)	wall wrap*
1	FR5 - Brick Veneer	0.5	Medium	Glass fibre batt: R2.0 (R2.0)	No
2	FR5 - Fibro Clad Framed	0.5	Medium	Glass fibre batt: R2.0 (R2.0)	No
3	FR5 - Internal Plasterboard Stud Wall	0.5	Medium		No

External wall schedule

					Horizontal shading	Vertical
	Wall	Height	Width		feature* maximum	shading feature
Location	ID	(mm)	(mm)	Orientation	projection (mm)	(yes/no)
Garage 1	1	2700	1792	W	0	Yes
Garage 1	2	2700	2476	S	0	Yes
Garage 1	2	2700	6245	E	1453	Yes
Garage 1	1	2700	6263	Ν	0	No
Laundry	1	2700	2501	Ν	0	Yes
Bedroom 1	1	2700	3951	S	468	No
Bathroom	1	2700	2945	W	19608	Yes
Bathroom	1	2700	2954	S	474	No
Master bed	1	2700	3875	Ν	7732	Yes
Master bed	1	2700	1866	W	1071	Yes
Master bed	1	2700	606	Ν	0	Yes
Master bed	1	2700	3644	W	465	No
Master bed	1	2700	4479	S	476	No
WIR	1	2700	363	Ν	0	Yes
WIR	1	2700	2527	S	474	No
ENS	1	2700	1760	S	471	No
Bedroom 3	1	2700	3948	S	470	No
Bedroom 2	1	2700	3938	S	471	No
Bedroom 2	1	2700	2989	E	0	Yes
Kitchen/Living 11	3	2700	188	Ν	0	Yes
Kitchen/Living 11	1	2700	621	E	0	Yes
Kitchen/Living 11	1	2700	4132	N	0	Yes
Kitchen/Living 11	1	2700	615	W	0	Yes
Kitchen/Living 11	1	2700	6915	Ν	1212	Yes
Kitchen/Living 11	1	2700	6455	W	3949	Yes
Kitchen/Living 11	1	2700	352	S	0	Yes

* Refer to glossary.

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5.4 Star Rating as of 26 Apr 2021



Kitchen/Living 11	1	2700	597	W	0 Yes
Entry Hall	2	2700	2365	E	7715 Yes
Entry Hall	1	2700	1166	Ν	0 Yes
Rumpus	1	2700	3825	S	479 No
Rumpus	1	2700	5505	E	1082 Yes
Rumpus	1	2700	3825	Ν	3650 No
Corridor	1	2700	1509	S	3460 Yes
Corridor	1	2700	2489	Ν	0 Yes

Internal wall type

 Wall ID	Wall type	Area (m ²) Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	243.9
 2	FR5 - Single Brick Finished	17

Floor type

		۸roa	Sub-floor	Added insulation	
Location	Construction		ventilation	(R-value)	Covering
Garage 1	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	38	Enclosed	R0.0	none
Laundry	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	5.9	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	16.7	Enclosed	R0.0	Carpet
Bathroom	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	8.7	Enclosed	R0.0	Tiles
storage	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	3.4	Enclosed	R0.0	Tiles
Master bed	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	23.6	Enclosed	R0.0	Carpet
WIR	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	11.5	Enclosed	R0.0	Tiles
ENS	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	5.4	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	16.7	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	16.7	Enclosed	R0.0	Carpet
Kitchen/Living 11	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	68.7	Enclosed	R0.0	Tiles
Pantry	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	3.5	Enclosed	R0.0	Tiles
Powder Room	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	2.7	Enclosed	R0.0	Tiles
Entry Hall	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	31.9	Enclosed	R0.0	Tiles
Rumpus	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	21.1	Enclosed	R0.0	Tiles

* Refer to glossary.

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5.4 Star Rating as of 26 Apr 2021



Corridor FR5 - 225mm waffle pod, 100mm concrete (R0.60) 32.3 Enclosed R0.0 Tiles

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage 1	Plasterboard	R4.0	Yes
Laundry	Plasterboard	R4.0	Yes
Bedroom 1	Plasterboard	R4.0	Yes
Bathroom	Plasterboard	R4.0	Yes
storage	Plasterboard	R4.0	Yes
Master bed	Plasterboard	R4.0	Yes
WIR	Plasterboard	R4.0	Yes
ENS	Plasterboard	R4.0	Yes
Bedroom 3	Plasterboard	R4.0	Yes
Bedroom 2	Plasterboard	R4.0	Yes
Kitchen/Living 11	Plasterboard	R4.0	Yes
Pantry	Plasterboard	R4.0	Yes
Powder Room	Plasterboard	R4.0	Yes
Entry Hall	Plasterboard	R4.0	Yes
Rumpus	Plasterboard	R4.0	Yes
Corridor	Plasterboard	R4.0	Yes

Ceiling penetrations*

Laundry1Exhaust Fans100SealedBedroom 14Downlights50SealedBathroom2Downlights50SealedBathroom1Exhaust Fans100SealedBathroom1Exhaust Fans100Sealedstorage1Downlights50SealedMaster bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPantry1Downlights50SealedPantry1Downlights50Sealed	Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed
Bedroom 14Downlights50SealedBathroom2Downlights50SealedBathroom1Exhaust Fans100Sealedstorage1Downlights50SealedMaster bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Laundry	1	Downlights	50	Sealed
Bathroom2Downlights50SealedBathroom1Exhaust Fans100Sealedstorage1Downlights50SealedMaster bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Laundry	1	Exhaust Fans	100	Sealed
Bathroom1Exhaust Fans100Sealedstorage1Downlights50SealedMaster bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Bedroom 1	4	Downlights	50	Sealed
storage1Downlights50SealedMaster bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Bathroom	2	Downlights	50	Sealed
Master bed6Downlights50SealedWIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Bathroom	1	Exhaust Fans	100	Sealed
WIR3Downlights50SealedENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	storage	1	Downlights	50	Sealed
ENS2Downlights50SealedENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Master bed	6	Downlights	50	Sealed
ENS1Exhaust Fans100SealedBedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	WIR	3	Downlights	50	Sealed
Bedroom 34Downlights50SealedBedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	ENS	2	Downlights	50	Sealed
Bedroom 24Downlights50SealedKitchen/Living 1128Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	ENS	1	Exhaust Fans	100	Sealed
Kitchen/Living 1128Downlights50SealedKitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Bedroom 3	4	Downlights	50	Sealed
Kitchen/Living 111Exhaust Fans150SealedPantry1Downlights50SealedPowder Room1Downlights50Sealed	Bedroom 2	4	Downlights	50	Sealed
Pantry1Downlights50SealedPowder Room1Downlights50Sealed	Kitchen/Living 11	28	Downlights	50	Sealed
Powder Room 1 Downlights 50 Sealed	Kitchen/Living 11	1	Exhaust Fans	150	Sealed
	Pantry	1	Downlights	50	Sealed
Powder Room 1 Exhaust Fans 100 Sealed	Powder Room	1	Downlights	50	Sealed
	Powder Room	1	Exhaust Fans	100	Sealed

* Refer to glossary.

Generated on 26 Apr 2021 using FirstRate5: 5.3.1 (3.21) for 863 MONTPELIER DRIVE THE OAKS ,

9G0A73JBYI NatHERS Certificate	5.4 Star Rating as of 26	Apr 2021		HOUSE
Entry Hall	12 Dov	vnlights	50	Sealed
Rumpus	8 Dov	vnlights	50	Sealed
Corridor	12 Dov	vnlights	50	Sealed
Ceiling fans				
Location	Quantity		Dia	meter (mm)
No Data Available				
Roof type				
Construction	Added insulation (R-val	ue) Solar abs	sorptance	Roof shade
Cont:Attic-Continuous	0.0	0	.5	Medium



Explanatory Notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

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 ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERSAdministrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings are likely to perform when used in a similar way. Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, indoor air temperature and local climate.

Not all assumptions that may have been made by the assessor while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, rangehoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category - exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category - open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.



National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Opening Percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).