Nationwide House Energy Rating Scheme NatHERS Certificate No. 9BNJU9R844

Generated on 11 Feb 2022 using FirstRate5: 5.3.2a (3.21)

Property

Address Lot/DP NCC Class* Type

LOT 53, 5 GULSHAN AVENUE, CLAREMONT, NSW, 2747 53/1241192 Class 1a New Home

Plans

Main plan Prepared by REV A 26/11/2021 SM

Construction and environment

Assessed floor area (m²)*Conditioned*164.2Unconditioned*44Total208.2Garage31.5

Exposure type suburban NatHERS climate zone 28 Richmond



Accredited assessor

NameTIMOBusiness nameEco EEmailtim@Phone0413-Accreditation No.DMN.Assessor Accrediting OrganisationDesign Matters NationalDeclaration of interestDeclaration

TIMOTHY BREWIN

Eco Building Design Pty Ltd tim@ecobuildingdesign.com.au 0413400144 DMN/14/1667

Declaration completed: no conflicts

HOUSE ENERGY RATING SCHEME

The more stars the more energy efficient

111.5 MJ/m²

R

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 p	erformance
Heating	Cooling
55.7	55.8
MJ/m²	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 https://www.fr5.com.au /QRCodeLanding?PublicId= 9BNJU9R844 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 99422227 Versigenerated matel 1Field/2022 using FirstRate5: 5.3.2a (3.21) for 53/1241192, LOT 53, 5 GULSHAN



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? Substituted values must be based on the Australian Fenestration Rating Council (AFRC) protocol.

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 selection taken from the current software glazing codes and may not align with the current WERS codes Not rated with perimeter ceiling insulation

Window and glazed door type and performance

Default* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
ALM-002-04 A	Aluminium B SG Low Solar Gain Low-E	5.6	0.41	0.39	0.43
ALM-001-04 A	Aluminium A SG Low Solar Gain Low-E	5.6	0.36	0.34	0.38

Custom* windows

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

Window and glazed door Schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	shading device*
GARAGE	ALM-002-04 A	GW-08	1197	2150	sliding	45.0	Ν	No
BED 4	ALM-002-04 A	GW-07	1197	2150	sliding	45.0	E	No

* Refer to 9942227. Versice energeschomate 11 Fiets/2022 using FirstRate5: 5.3.2a (3.21) for 53/1241192, LOT 53, 5 GULSHAN Window

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5 Star Rating as of 11 Feb 2022

BATH	ALM-002-04 A	GW-06	1197	1200	sliding	45.0	Е	No
BED 3	ALM-002-04 A	GW-05	1197	2150	sliding	45.0	Е	No
BED 2	ALM-002-04 A	GW-04	1197	2150	sliding	45.0	Е	No
LIVING	ALM-002-04 A	GW-02	1500	1570	sliding	45.0	S	No
LIVING	ALM-002-04 A	GW-03	1500	1555	sliding	45.0	S	No
M.BED	ALM-002-04 A	GW-01	2390	3765	sliding	45.0	S	No
ENS	ALM-002-04 A	GW-11	1197	610	sliding	45.0	Ν	No
L'DRY	ALM-001-04 A	D04	2100	820	casement	100.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-12	600	1087	fixed	0.0	S	No
KIT/DIN/FAM	ALM-002-04 A	CW-13	600	1087	fixed	0.0	S	No
KIT/DIN/FAM	ALM-002-04 A	CW-14	600	1087	fixed	0.0	S	No
KIT/DIN/FAM	ALM-002-04 A	CW-29	600	1036	fixed	0.0	Ν	No
KIT/DIN/FAM	ALM-002-04 A	CW-30	600	1036	fixed	0.0	N	No
KIT/DIN/FAM	ALM-002-04 A	CW-31	600	1036	fixed	0.0	N	No
KIT/DIN/FAM	ALM-002-04 A	CW-32	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-33	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-34	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-35	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-36	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-37	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-38	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-39	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-20	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-21	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-22	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-23	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-24	600	1036	fixed	0.0	W	No
KIT/DIN/FAM	ALM-002-04 A	CW-27	600	1036	fixed	0.0	N	No
KIT/DIN/FAM	ALM-002-04 A	CW-28	600	1036	fixed	0.0	Ν	No
KIT/DIN/FAM	ALM-002-04 A	D02	2400	3180	sliding	60.0	N	No
KIT/DIN/FAM	ALM-002-04 A	GW-09	1197	1200	sliding	45.0	W	No
KIT/DIN/FAM	ALM-002-04 A	GW-10	1197	1200	sliding	45.0	W	No
KIT/DIN/FAM	ALM-002-04 A	D03	2400	3180	sliding	60.0	W	No
HALLWAY	ALM-002-04 A	CW-15	600	1036	fixed	0.0	S	No
HALLWAY	ALM-002-04 A	CW-16	600	1036	fixed	0.0	S	No
HALLWAY	ALM-002-04 A	CW-17	600	1036	fixed	0.0	S	No
HALLWAY	ALM-002-04 A	CW-18	600	1036	fixed	0.0	Е	No
HALLWAY	ALM-002-04 A	CW-19	600	1036	fixed	0.0	E	No
	ALM-002-04 A	CW-25	600	1036	fixed	0.0	E	No
WIP								



Roof window type and performance value

Default* roof windows

					Substi	tution to	lerance ranges
			Maximum		SHGC lov	ver limit	SHGC upper limit
Window ID	Window description		U-value*	SHGC*			
No Data Available							
Custom* roof windows							
					Substi	tution to	lerance ranges
			Maximum		SHGC lov	ver limit	SHGC upper limit
	AAPT STATE STATE STATE STATE		U-value*	SHGC*	0100100		
Window ID	Window description		e falue				
No Data Available							
				Area		Outdoo	or Indoor
No Data Available		Window no.	Opening %	Area (m²)	Orientation	Outdoo shade	or Indoor shade
No Data Available Roof window Sc	chedule				Orientation		
No Data Available Roof window so	<i>Chedule</i> Window ID				Orientation		
No Data Available Roof window so Location No Data Available	<i>Chedule</i> Window ID			(m²)	Orientation		

Skylight schedule

		Skylight	Skylight shaft	Area	Orient-	Outdoor		Skylight shaft
Location	Skylight ID	No.	length (mm)	(m²)	ation	shade	Diffuser	reflectance
No Data Available								

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
GARAGE	2400	4800	100.0	E
FOYER	2400	1200	100.0	S

External wall type

		Solar	Wall shade)	Reflective
Wall ID	Wall type	absorptance	e (colour)	Bulk insulation (R-value)	wall wrap*
1	FR5 - AAC 75mm Panel Stud Wall	0.5	Medium		No
2	CW - AAC 75mm Panel Stud Wall	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No
3	CW - Fibro Clad Framed	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No

External wall schedule

Location	Wall ID	Height (mm)		Orientation	Horizontal shading feature* maximum projection (mm)	
GARAGE	1	2845	5505	Ν	0	Yes
GARAGE	1	2845	1694	W	4604	Yes
GARAGE	1	2755	699	Ν	1698	Yes

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Versiden energiese house 11 feets/2022 using FirstRate5: 5.3.2a (3.21) for 53/1241192, LOT 53, 5 GULSHAN

5 Star Rating as of 11 Feb 2022



SARAGE 1 2845 5505 E 0 Yes 3ED 4 2 2580 3201 E 0 No SED 4 2 2580 1779 E 0 No SED 3 2 2580 1779 E 0 No SED 3 2 2580 1787 E 0 No SED 2 2 2580 286 5 0 Yes JVING 2 2580 286 5 0 Yes JVING 2 2580 3407 S 178 Yes JVING 2 2580 341 E 0 Yes JVING 2 3080 363 S 0 No MED 2 3080 161 W 1968 Yes MED 2 3080 1825 W 0 Yes S 2680 1000							
SEED 4 2 2580 3201 E 0 No 3ED 4 2 2580 2448 N 0 Yes 3ATH 2 2580 1779 E 0 No 3ED 3 2 2580 1554 S 0 Yes 3ED 3 2 2580 2988 E 0 No 3ED 3 2 2580 2988 S 0 Yes JNING 2 2580 305 S 0 Yes JNING 2 2580 305 S 0 Yes JNING 2 2580 3141 E 0 Yes JNING 2 2580 3141 E 0 Yes JNING 2 3080 1827 S 178 Yes MEED 2 3080 1825 W 0 Yes MEED 2 2808	GARAGE	1	2755	1719	W	3905	Yes
SEED 4 2 2580 2448 N 0 Yes SATH 2 2580 1779 E 0 No SED 3 2 2580 1554 S 0 Yes SED 3 2 2580 3197 E 0 No SED 2 2 2580 2988 E 0 Yes JNING 2 2580 286 S 0 Yes JNING 2 2580 3417 E 0 Yes JNING 2 2580 3417 E 0 Yes JNING 2 2580 601 W 1968 Yes JNING 2 3080 1837 S 0 No MEED 2 3080 1825 W 0 Yes MEED 2 3080 1826 W 0 Yes CDRY 2 2580	GARAGE	1	2845	5505	E	0	Yes
SATH 2 2580 1779 E 0 No BED 3 2 2580 1554 S 0 Yes BED 3 2 2580 3197 E 0 No SED 2 2 2580 298 E 0 Yes JVING 2 2580 3407 S 178 Yes JVING 2 2580 3417 S 0 Yes JVING 2 2580 3417 E 0 Yes JVING 2 2580 341 E 0 Yes JVING 2 2580 601 W 1968 Yes JVING 2 3080 833 0 No No MBED 2 3080 1825 W 0 Yes MBED 2 2080 1826 W 0 Yes COYER 2 2580	BED 4	2	2580	3201	E	0	No
SED 3 2 2580 1554 S 0 Yes BED 3 2 2580 3197 E 0 No BED 2 2 2580 298 E 0 Yes JVING 2 2580 286 S 0 Yes JVING 2 2580 3407 S 178 Yes JVING 2 2580 305 S 0 Yes JVING 2 2580 3041 E 0 Yes JVING 2 2580 601 W 1968 Yes JVING 2 3080 683 S 0 No MED 2 3080 1825 W 0 Yes MBED 2 3080 1825 W 0 Yes INS 2 2580 160 N 5338 Yes INS 2 2580 160 W 0 Yes INS 2 2580 160 <t< td=""><td>BED 4</td><td>2</td><td>2580</td><td>2448</td><td>N</td><td>0</td><td>Yes</td></t<>	BED 4	2	2580	2448	N	0	Yes
SED 3 2 2580 3197 E 0 No SED 2 2 2580 2988 E 0 Yes LIVING 2 2580 3407 S 178 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 301 W 1968 Yes LIVING 2 3080 863 S 0 No MEED 2 3080 3767 S 1778 Yes MBED 2 3080 1877 E 1968 Yes MBED 2 3080 1877 K 0 Yes ENS 2 2580 1601 W 0 Yes CDRY 2 2580 1601 W 1023 Yes CITDIN/FAM 3 850	BATH	2	2580	1779	E	0	No
SEED 2 2 2580 2980 E 0 Yes LIVING 2 2580 286 S 0 Yes LIVING 2 2580 3407 S 1778 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 3341 E 0 Yes LIVING 2 2580 601 W 1968 Yes LIVING 2 3080 863 S 0 No MBED 2 3080 3787 S 1778 Yes MBED 2 3080 1397 E 1968 Yes MEED 2 3080 1825 W 0 Yes S 178 Yes 178 Yes Yes MEED 2 3080 1826 W 0 Yes SDRY 2 2580 160	BED 3	2	2580	1554	S	0	Yes
IVING 2 2580 266 S 0 Yes LIVING 2 2580 3407 S 178 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 3341 E 0 Yes LIVING 2 2580 601 W 1968 Yes LIVING 2 2580 601 W 1968 Yes LIVING 2 3080 863 S 0 No MBED 2 3080 1397 E 1968 Yes MBED 2 3080 1825 W 0 Yes MBED 2 3080 1825 W 0 Yes S 2 2580 1601 W 0 Yes S 2 2580 1601 W 1023 Yes S 2 2580	BED 3	2	2580	3197	E	0	No
LIVING 2 2580 3407 S 178 Yes LIVING 2 2580 305 S 0 Yes LIVING 2 2580 3341 E 0 Yes LIVING 2 2580 601 W 1968 Yes LIVING 2 3080 863 S 0 No MEED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1601 W 1023 Yes CDRY 2 2580 1601 W 1023 Yes CDYER 3 85	BED 2	2	2580	2998	E	0	Yes
IVING 2 2580 305 S 0 Yes IVING 2 2580 3341 E 0 Yes IVING 2 2580 601 W 1968 Yes IVING 2 2580 601 W 1968 Yes M.BED 2 3080 3787 S 178 Yes M.BED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes CDRY 2 2580 1601 W 1023 Yes CDYER 2 2580 1601 W 1023 No KITDIN/FAM 3	LIVING	2	2580	286	S	0	Yes
LIVING 2 2580 3341 E 0 Yes LIVING 2 2580 601 W 1968 Yes M.BED 2 3080 863 S 0 No M.BED 2 3080 3787 S 178 Yes M.BED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes CDRY 2 2580 1601 W 1023 Yes CIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3	LIVING	2	2580	3407	S	178	Yes
IVING 2 2580 601 W 1968 Yes MBED 2 3080 863 S 0 No MBED 2 3080 3787 S 178 Yes MBED 2 3080 1397 E 1968 Yes MBED 2 3080 1825 W 0 Yes MBED 2 3080 1825 W 0 Yes MBED 2 3080 1826 W 0 Yes MBED 2 3080 1826 W 0 Yes MBED 2 3080 1826 W 0 Yes ENS 2 2580 1601 W 1023 Yes CDRY 2 2580 360 S 721 Yes KIT/DIN/FAM 3 850 360 S 450 No KIT/DIN/FAM 3 950<	LIVING	2	2580	305	S	0	Yes
M.BED 2 3080 863 S 0 No M.BED 2 3080 3787 S 178 Yes M.BED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes CPRY 2 2580 1601 W 1023 Yes COYER 2 2580 2168 S 721 Yes KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 2	LIVING	2	2580	3341	E	0	Yes
M.BED 2 3080 3787 S 178 Yes M.BED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes CDRY 2 2580 1601 W 00 Yes CDYER 2 2580 1601 W 1023 Yes COYER 2 2580 1601 W 1023 Yes KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM	LIVING	2	2580	601	W	1968	Yes
M.BED 2 3080 1397 E 1968 Yes M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes ENS 2 2580 1601 W 0 Yes 'DRY 2 2580 1601 W 1023 Yes COYER 2 2580 1601 W 1023 Yes COYER 2 2580 3600 S 721 Yes KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2<	M.BED	2	3080	863	S	0	No
M.BED 2 3080 1825 W 0 Yes M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes ENS 2 2580 1800 W 0 Yes L'DRY 2 2580 1601 W 1023 Yes CYER 2 2580 2168 S 721 Yes KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3994 N 3471 Yes KIT/DIN/FAM 2 3080 1650 S 5338 Yes KIT/DIN/FA	M.BED	2	3080	3787	S	178	Yes
M.BED 2 3080 1826 W 0 Yes ENS 2 2580 1050 N 5338 Yes ENS 2 2580 1800 W 0 Yes CDRY 2 2580 1601 W 1023 Yes FOYER 2 2580 1601 W 1023 Yes CVT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3994 N 3471 Yes KIT/DIN/FAM 2 3080 150 S 5338 Yes KIT/DIN/FAM 2 3080 150 S 5338 Yes KI	M.BED	2	3080	1397	E	1968	Yes
ENS 2 2580 1050 N 5338 Yes ENS 2 2580 1800 W 0 Yes L'DRY 2 2580 1601 W 1023 Yes EOYER 2 2580 2168 S 721 Yes COYER 2 2580 3600 S 450 No KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 8380 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes HALLW	M.BED	2	3080	1825	W	0	Yes
ENS 2 2580 1800 W 0 Yes L'DRY 2 2580 1601 W 1023 Yes FOYER 2 2580 2168 S 721 Yes CVER 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 850 8380 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3994 N 3471 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes	M.BED	2	3080	1826	W	0	Yes
L'DRY 2 2580 1601 W 1023 Yes FOYER 2 2580 2168 S 721 Yes KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 850 8380 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 5246 N 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3944 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No	ENS	2	2580	1050	Ν	5338	Yes
FOYER 2 2580 2168 S 721 Yes KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 850 8380 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 1550 E 450 No	ENS	2	2580	1800	W	0	Yes
KIT/DIN/FAM 3 850 3600 S 450 No KIT/DIN/FAM 3 850 3465 N 450 No KIT/DIN/FAM 3 850 8380 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 1550 E 450 No MIP 3 750 1402 E 450 No	L'DRY	2	2580	1601	W	1023	Yes
XIT/DIN/FAM 3 850 3465 N 450 No XIT/DIN/FAM 3 850 8380 W 450 No XIT/DIN/FAM 3 950 5226 W 450 No XIT/DIN/FAM 3 950 5226 W 450 No XIT/DIN/FAM 3 950 2460 N 450 No XIT/DIN/FAM 2 3080 3904 N 3471 Yes XIT/DIN/FAM 2 3080 6475 W 0 Yes XIT/DIN/FAM 2 3080 1050 S 5338 Yes XIT/DIN/FAM 2 3080 1050 S 5338 Yes XIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No NIP 3 750 1402 E 450 No	FOYER	2	2580	2168	S	721	Yes
XIT/DIN/FAM 3 850 8380 W 450 No XIT/DIN/FAM 3 950 5226 W 450 No XIT/DIN/FAM 3 950 2460 N 450 No XIT/DIN/FAM 2 3080 3904 N 3471 Yes XIT/DIN/FAM 2 3080 6475 W 0 Yes XIT/DIN/FAM 2 3080 1050 S 5338 Yes XIT/DIN/FAM 2 3080 1050 S 5338 Yes XIT/DIN/FAM 2 3080 1050 S 5338 Yes XIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No MIP 3 750 1402 E 450 No	KIT/DIN/FAM	3	850	3600	S	450	No
KIT/DIN/FAM 3 950 5226 W 450 No KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No MIP 3 750 1402 E 450 No	KIT/DIN/FAM	3	850	3465	N	450	No
KIT/DIN/FAM 3 950 2460 N 450 No KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No MIP 3 750 1402 E 450 No	KIT/DIN/FAM	3	850	8380	W	450	No
KIT/DIN/FAM 2 3080 3904 N 3471 Yes KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No MIP 3 750 1402 E 450 No	KIT/DIN/FAM	3	950	5226	W	450	No
KIT/DIN/FAM 2 3080 6475 W 0 Yes KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No HALLWAY 3 750 1402 E 450 No	KIT/DIN/FAM	3	950	2460	Ν	450	No
KIT/DIN/FAM 2 3080 1050 S 5338 Yes KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No HALLWAY 3 850 1550 E 450 No MIP 3 750 1402 E 450 No	KIT/DIN/FAM	2	3080	3904	N	3471	Yes
KIT/DIN/FAM 2 3080 3998 W 1023 Yes HALLWAY 3 850 3880 S 450 No HALLWAY 3 850 1550 E 450 No HALLWAY 3 750 1402 E 450 No	KIT/DIN/FAM	2	3080	6475	W	0	Yes
HALLWAY38503880S450NoHALLWAY38501550E450NoMIP37501402E450No	KIT/DIN/FAM	2	3080	1050	S	5338	Yes
HALLWAY 3 850 1550 E 450 No NIP 3 750 1402 E 450 No	KIT/DIN/FAM	2	3080	3998	W	1023	Yes
MIP 3 750 1402 E 450 No	HALLWAY	3	850	3880	S	450	No
	HALLWAY	3	850	1550	E	450	No
NIP 3 750 643 N 450 No	WIP	3	750	1402	E	450	No
	WIP	3	750	643	N	450	No

Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
1	CW - Internal Plasterboard Stud Wall Insulated	68.3	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	117.6	
3	CW - Wall Adjacent Roof Space	1.2	Glass fibre batt: R2.5 (R2.5)
4	CW - Wall Adjacent Roof Space	3.1	Glass fibre batt: R2.5 (R2.5)

* Refer to 9982227 Document Set to 9982227 Versigenerated martel 1Fields/2022 using FirstRate5: 5.3.2a (3.21) for 53/1241192, LOT 53, 5 GULSHAN



Floor type

		Area	Sub-floor	Added insulation	
Location	Construction	(m²)	ventilation	(R-value)	Covering
GARAGE	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	31.5	Enclosed	R0.0	none
BED 4	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	12.2	Enclosed	R0.0	Timber
BATH	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	6.8	Enclosed	R0.0	Tiles
BED 3	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	12.2	Enclosed	R0.0	Timber
BED 2	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	11.7	Enclosed	R0.0	Timber
LIVING	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	13.4	Enclosed	R0.0	Tiles
M.BED	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	17	Enclosed	R0.0	Timber
ENS	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.2	Enclosed	R0.0	Tiles
WIR	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4	Enclosed	R0.0	Timber
L'DRY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	5.8	Enclosed	R0.0	Tiles
FOYER	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	12.9	Enclosed	R0.0	Tiles
KIT/DIN/FAM	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	13.3	Enclosed	R0.0	Tiles
KIT/DIN/FAM	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	49.7	Enclosed	R0.0	Tiles
HALLWAY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	6.9	Enclosed	R0.0	Tiles
HALLWAY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.5	Enclosed	R0.0	Tiles
WIP	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	1.4	Enclosed	R0.0	Tiles
WIP	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	0.9	Enclosed	R0.0	Tiles

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
GARAGE	Plasterboard	R0.0	No
BED 4	Plasterboard	R5.0	Yes
BATH	Plasterboard	R5.0	Yes
BED 3	Plasterboard	R5.0	Yes
BED 2	Plasterboard	R5.0	Yes
LIVING	Plasterboard	R5.0	Yes
M.BED	Plasterboard	R5.0	No
ENS	Plasterboard	R5.0	No
WIR	Plasterboard	R5.0	No
L'DRY	Plasterboard	R5.0	No
FOYER	Plasterboard	R5.0	No
KIT/DIN/FAM	Plasterboard	R5.0	No
KIT/DIN/FAM	Plasterboard	R5.0	No
HALLWAY	Plasterboard	R5.0	Yes
HALLWAY	Plasterboard	R5.0	No
WIP	Plasterboard	R5.0	Yes
WIP	Plasterboard	R5.0	No



Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed
BATH	1	Exhaust Fans	250	Sealed
ENS	1	Exhaust Fans	250	Sealed
L'DRY	1	Exhaust Fans	250	Sealed
KIT/DIN/FAM	1	Exhaust Fans	160	Sealed

Ceiling fans

Location	Quantity	Quantity Diameter (mm)	
No Data Available			

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.5	Medium
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.

9BNJU9R844 NatHERS Certificate

5 Star Rating as of 11 Feb 2022



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).