Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No.

ZSHPPOZQGL-01

Generated on 4 Mar 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 19 Lancelot Street,

Punchbowl, NSW, 2196

Lot/DP 12/DP6976 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 40/2024 Rev A/13.03.2023

Prepared by Dezcon

Construction and environment

Assessed floor area [m²]* Exposure type Conditioned* 350.9 suburban

Unconditioned* 166.9 NatHERS climate zone

Total 517.8 56 Mascot AMO

Garage 140.3



Accredited assessor

Name Millard Perez
Business name Thermperform

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Phone +61402366704

Accreditation No. 101510
Assessor Accrediting Organisation

ABSA

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Thermal performance star rating



NATIONWIDE HOUSE ENERGY RATING SCHEME

29.9 MJ/m²

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 performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	16.3	13.5
Load limits	N/A	N/A

Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

Verification

To verify this certificate, scan the QR code or visit https://w ww.fr5.com.au/QRCodeLand ing?PublicId=ZSHPPOZQGL -01 When using either link, ensure you are visiting www.fr5.com.au.



About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

CSOG - Concrete Slab on Ground

SF - Suspended Floor (or a mixture of CSOG and SF)

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - not applicable

Outdoor living area:

Yes

No

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

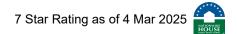
Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construc stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consen	Builder	Consen	Occupa
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor			<u>'</u>	'	
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
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 type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	Approval	stage	Construct stage	tion	
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method		ı		ı	
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home perf	ormance a	ssessmen	t is not con	ducted)	
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)			
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check	<u>'</u>				
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. As include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
Additional notes					
Number of ceiling penetrations have been assumed.					
Eaves/overhangs may not be directly opposite to wall (some eaves may be hori	-	•			
Default solar absorptance/colours have been applied where no details had been	n provided	at time of	assessme	ent.	



Room schedule

Room	Zone Type	Area [m²]
Garage	garage	140.3
Basement Stairs	dayTime	14.5
Storage/Workshop	dayTime	38.9
Laundry	unconditioned	9.3
Prayer	dayTime	16
Bathroom	unconditioned	8.5
Entry/Lounge/Kitch/Family/WIP/Stairs	kitchen	156.5
Stair Family Void	doubleHeightVoid	46.1
Bathroom	unconditioned	8.8
Bed 4	bedroom	13.9
Bed 2	bedroom	21.3
Bed 3	bedroom	19.6
Master WIR	nightTime	18.8
Master Ensuite	nightTime	9.4
Master Bed	bedroom	21.1
Entry Void	doubleHeightVoid	4.4
Passage/WIL	dayTime	27.6

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
No Data Availa	able				

Custom* windows

				Substitution tolerance ranges			
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
BRD-026-16 A	ESS Awning Window (52mm) SG 4EA	5	0.54	0.51	0.57		
BRD-126-15 A	ESS Fixed Window External 52 Comm SG 6mmEntTech	3.82	0.61	0.58	0.64		
BRD-112-01 A	ESS Awning 52 SG 4mmClr	6.54	0.67	0.64	0.7		
BRD-139-15 A	Essential Sliding Stacker Door SG 6mmEntTech	4.34	0.61	0.58	0.64		
BRD-124_37 A	ESS Fixed Window External 52 SG 5mmClr	5.87	0.73	0.69	0.77		
BRD-139-01 A	Essential Sliding Stacker Door SG 4mmClr	6.24	0.74	0.7	0.78		



BRD-001-37 A

ESS Sliding Window (52mm) SG

6.38

0.74

0.7

0.78

Window and glazed door schedule

			Height	Width				Window shading
_ocation	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*
Prayer	BRD-026-16 A	28-08 AAW (W08)	2800	800	awning	30.0	W	No
Prayer	BRD-026-16 A	28-08 AAW (W09)	2800	800	awning	30.0	W	No
Prayer	BRD-126-15 A	34-24 AFW (W01)	3400	2365	fixed	0.0	S	No
Bathroom	BRD-112-01 A	28-10 AAW (W07)	2800	1000	awning	45.0	W	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-126-15 A	29-36 AFW (W02)	2900	3600	fixed	0.0	S	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-026-16 A	28-08 AAW (W03)	2800	800	awning	30.0	E	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-126-15 A	06-27 ASW (W03)	600	2700	fixed	0.0	E	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-139-15 A	30-50 ASSSD (D02)	3000	5000	sliding	100.0	N	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-126-15 A	65-49 AFW (W05) Lower	3800	4900	fixed	0.0	N	No
Entry/Lounge/Ki- tch/Family/WIP/- Stairs	BRD-126-15 A	68-30 AFW (W06)	3800	3000	fixed	0.0	W	No
Stair Family Void	BRD-126-15 A	68-30 AFW (W06) Upper	3000	3000	fixed	0.0	W	No
Stair Family Void	BRD-126-15 A	65-49 AFW (W05) Upper	2700	4900	fixed	0.0	N	No
Bathroom	BRD-112-01 A	25-10 AAW (W13)	2500	1000	awning	45.0	W	No
Bed 4	BRD-112-01 A	06-26 AAW (W12)	600	2600	awning	45.0	W	No
Bed 4	BRD-124_37 A	23-23 AFW (W11)	2300	2365	fixed	0.0	S	No
Bed 2	BRD-139-01 A	27-36 ASSD (D14)	2700	3600	sliding	60.0	S	No
Bed 3	BRD-001-37 A	09-26 ASW (W15)	900	2600	sliding	10.0	E	No

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Master Ensuite	BRD-112-01 A	20-06 AAW (W14)	2000	600	awning	45.0	E	No
Master Bed	BRD-139-01 A	27-34 ASSD (D15)	2700	3455	sliding	60.0	N	No
Entry Void	BRD-126-15 A	15-23 AFW (W10)	1500	2300	fixed	0.0	S	No

Roof window* type and performance value

Default* roof windows

Window ID					lerance ranges
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					

Custom* roof windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
Velux:VEL-011-01 W	VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.58	0.24	0.23	0.25	

Roof window* schedule

Location	Window ID	Window no.	Opening %	Area [m²]	Width [mm]	Orientation	Outdoor shade	Indoor shade
Stair Family Void	Velux:VEL-011-01 W	S02	0.0	2	0	N	None	None
Master WIR	Velux:VEL-011-01 W	S03	0.0	1.1	0	N	None	None
Master Ensuite	Velux:VEL-011-01 W	Ensuite SL	0.0	0.9	0	N	None	None
Entry Void	Velux:VEL-011-01 W	S01	0.0	1.1	0	N	None	None

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

			Skylight shaft	Area	Orient-	Outdoor	
Location	Skylight ID	Skylight No.	length [mm]	[m²]	ation	shade	Diffuser
No Data							
Available							

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2400	5000	0.0	S

ZSHPPOZQGL-01 NatHERS Certificate Laundry 2400 820 100.0 E Entry/Lounge/Kitch/Family/WIP/Stairs 3000 1500 100.0 S

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	TP-RW - 200 Dincel Ret Walls	0.3	Light	Polystyrene extruded (k = 0.028) (R2.6)	No
2	TP-DNCL - 200 Rendered Dincel Ext	0.5	Medium	Polystyrene extruded (k = 0.028) (R2.6)	No
3	TP-RW - 200 Dincel Ret Walls	0.5	Medium	Polystyrene extruded (k = 0.028) (R2.6)	No
4	TP-CB - Rendered Brick Cavity Lined + Foilboard 20mm with reflective air-gaps within a 50mm cavity	0.3	Light	Polyurethane rigid foamed aged (k = 0.028) (R0.7)	Yes

External wall schedule

		Height	Width		Horizontal shading feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Garage	1	2700	6635	S	0	No
Garage	2	2700	1650	E	5700	Yes
Garage	2	2700	5700	S	1930	Yes
Garage	1	2700	15540	E	0	No
Garage	1	2700	6400	N	0	No
Garage	1	2700	2000	N	0	No
Garage	1	2700	6650	W	0	No
Basement Stairs	3	2700	3189	W	0	No
Storage/Workshop	3	2700	5825	N	0	No
Storage/Workshop	3	2700	7140	W	0	No
Storage/Workshop	3	2700	2000	S	0	No
Laundry	4	3500	1700	E	0	Yes
Prayer	4	3500	4000	W	0	Yes
Prayer	4	3500	734	S	378	Yes
Prayer	4	3500	2356	S	0	Yes
Prayer	4	3500	910	S	1778	Yes
Prayer	4	3500	1580	E	2438	Yes
Bathroom	4	3500	2400	W	0	Yes
Bathroom	4	3500	2000	N	0	Yes
Entry/Lounge/Kitch/Family- /WIP/Stairs	4	3500	2725	S	3428	Yes

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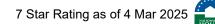
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NATIONWIDE HOUSE	

Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	960	W	3445	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	5360	S	2077	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	4000	E	0	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	10507	E	0	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	7032	N	4979	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3800	5163	N	4979	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	7000	W	0	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3500	2000	S	0	Yes
Entry/Lounge/Kitch/Family-/WIP/Stairs	4	3800	3430	W	0	Yes
Stair Family Void	4	3000	7000	W	0	No
Stair Family Void	4	3000	2000	S	0	Yes
Stair Family Void	4	3000	3430	W	0	Yes
Stair Family Void	4	3000	5475	N	1678	No
Bathroom	4	3000	2720	W	0	No
Bathroom	4	3000	2000	N	0	Yes
Bed 4	4	3000	3680	W	0	No
Bed 4	4	3000	4000	S	378	Yes
Bed 4	4	3000	1580	Е	0	Yes
Bed 2	4	3000	1060	W	0	Yes
Bed 2	4	3000	631	SW	323	Yes
Bed 2	4	3000	592	S	969	Yes
Bed 2	4	3000	3777	S	1178	Yes
Bed 2	4	3000	783	S	1178	Yes
Bed 2	4	3000	4000	Е	0	Yes
Bed 3	4	3000	4910	Е	0	Yes
Master WIR	4	3000	3400	E	0	Yes
Master Ensuite	4	3000	4690	Е	0	Yes
Master Ensuite	4	3000	730	N	1678	Yes
Master Ensuite	4	3000	1270	N	1678	Yes
Master Bed	4	3000	4500	N	1678	No
Entry Void	4	3000	2615	S	0	Yes

Internal wall type

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Wall ID	Wall type	Area [m²]	Bulk insulation
1	TP-IntW - Internal Brick Lined	302.4	

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	TPM - CSOG: Slab on Ground	140.3	Enclosed	R0.0	none
Basement Stairs	TPM - CSOG: Slab on Ground	14.5	Enclosed	R0.0	Tiles
Storage/Workshop	TPM - CSOG: Slab on Ground	38.9	Enclosed	R0.0	Tiles
Laundry	FR5 - 300mm concrete slab Lined	9.3	Enclosed	R0.0	Tiles
Prayer	FR5 - 300mm concrete slab Lined	16	Enclosed	R0.0	Tiles
Bathroom	FR5 - 300mm concrete slab Lined	8.5	Enclosed	R0.0	Tiles
Entry/Lounge/Kit- ch/Family/WIP/St- airs	FR5 - 300mm concrete slab Lined	3.7	Elevated	R0.0	Tiles
Entry/Lounge/Kit- ch/Family/WIP/St- airs	FR5 - 300mm concrete slab Lined	152.8	Enclosed	R0.0	Tiles
Stair Family Void	No Floor	46.1	Enclosed	R0.0	No Floor
Bathroom	FR5 - 300mm concrete slab Lined	8.8	Enclosed	R0.0	Tiles
Bed 4	FR5 - 300mm concrete slab Lined	13.9	Enclosed	R0.0	Tiles
Bed 2	FR5 - 300mm concrete slab Lined	3.3	Elevated	R0.0	Tiles
Bed 2	FR5 - 300mm concrete slab Lined	17.9	Enclosed	R0.0	Tiles
Bed 3	FR5 - 300mm concrete slab Lined	19.6	Enclosed	R0.0	Tiles
Master WIR	FR5 - 300mm concrete slab Lined	18.8	Enclosed	R0.0	Tiles
Master Ensuite	FR5 - 300mm concrete slab Lined	9.4	Enclosed	R0.0	Tiles
Master Bed	FR5 - 300mm concrete slab Lined	21.1	Enclosed	R0.0	Tiles
Entry Void	No Floor	4.4	Enclosed	R0.0	No Floor
Passage/WIL	FR5 - 300mm concrete slab Lined	27.6	Enclosed	R0.0	Tiles

Ceiling type

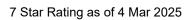
Location material/type [may include edge batt values] wrap*

Bulk insulation R-value

Construction

Reflective

Certificate





Garage	FR5 - 300mm concrete slab Lined	R0.0	No
Garage	Plasterboard	R0.0	No
Basement Stairs	FR5 - 300mm concrete slab Lined	R0.0	No
Storage/Workshop	FR5 - 300mm concrete slab Lined	R0.0	No
Laundry	FR5 - 300mm concrete slab Lined	R0.0	No
Prayer	FR5 - 300mm concrete slab Lined	R0.0	No
Bathroom	FR5 - 300mm concrete slab Lined	R0.0	No
Entry/Lounge/Kit- ch/Family/WIP/St- airs	FR5 - 300mm concrete slab Lined	R0.0	No
Entry/Lounge/Kit- ch/Family/WIP/St- airs	FR5 - 300mm concrete slab Lined	R0.0	No
Stair Family Void	Plasterboard	R2.0	No
Bathroom	Plasterboard	R2.0	No
Bed 4	Plasterboard	R2.0	No
Bed 2	Plasterboard	R2.0	No
Bed 2	Plasterboard	R2.0	No
Bed 3	Plasterboard	R2.0	No
Master WIR	Plasterboard	R2.0	No
Master Ensuite	Plasterboard	R2.0	No
Master Bed	Plasterboard	R2.0	No
Entry Void	Plasterboard	R2.0	No
Passage/WIL	Plasterboard	R2.0	No

Ceiling penetrations*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
Entry/Lounge/Kitch/Family- /WIP/Stairs	2	Exhaust Fans	250	250	Sealed
Entry/Lounge/Kitch/Family- /WIP/Stairs	1	Heater Flues	180	180	Unsealed

Ceiling fans

Location	Quantity	Diameter [mm]
Entry/Lounge/Kitch/Family/WIP/Stairs	1	1200

Roof type

Construction [R-value] Solar absorptance Roof shade [colour]

Added insulation

Certificate

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Slab:Slab - Suspended Slab : 300mm: 300mm Suspended Slab	0.0	0.5	Medium
SlabExt:Slab - Suspended Slab - External Insul : 300mm: 300mm Suspended Slab - External Insul	0.0	0.5	Medium

Thermal bridging schedule for steel frame elements

Steel section dimensions

Steel thickness

Thermal break

Building element

[height x width, mm]

Frame spacing [mm]

[BMT,mm]

[R-value]

No Data Available

Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

Minimum efficiency/ Recommended performance Appliance/ system type Location Fuel type capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Minimum efficiency/ Recommended Appliance/ system type Location Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum

efficiency/ performance **Hot Water CER** Zone

Zone 3 STC

Assessed daily

load

Fuel type No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type

Minimum efficiency/ Recommended Appliance/ system type Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

Explanatory Notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings 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, behaviour, appliance performance, indoor air temperature and local climate.

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

Glossary

C.CCC.,	
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
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, range hoods, 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.
СОР	Coefficient of performance
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.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate corridor in a Class 2 building.
Exposure category – expose	d 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 –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
protected	
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	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or
(NCC) Class	4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
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
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	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 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.

7 Star Rating as of 4 Mar 2025

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STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought
	and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is
	not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene
	insulation sheeting, plastic strips or furring channels.
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).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features*
	(eg eaves and balconies)