

Certificate Number:

PYSA59XZ8J

Assessor Name:

Pranab chakma

Accreditation number:

101225

Certificate date:

24 Jun 2020

Dwelling address:

**78 Hudson Parade
Clareville NSW 2107**

www.nathers.gov.au



<https://www.fr5.com.au/QRCodeLanding?PublicId=PYSA59XZ8J>

Nationwide House Energy Rating Scheme* Certificate

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★ Star rating: **6**



Assessor details

Accreditation number: **101225**
Name: **Pranab chakma**
Organisation: **Paul & c Associates**
Email: **info@basixcertifier.com.au**
Phone: **0490511593**
Declaration of interest: **Employed by designer of the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **ABSA**

Overview

Dwelling details

Address: **78 Hudson Parade**
Suburb: **Clareville**
State: **NSW** Postcode: **2107**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **-** NatHERS climate zone: **56**
Exposure: **suburban**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Reverse Brick Venner & Clad**
Roof: **CONCRETE ROOF**
Floor: **CONCRETE FLOOR**
Insulation: Wall: **R2**
Roof: **FIRST FLOOR R6, G & LG R2**
Floor: **NA**
Glazing: **Timber Clear**

Net floor area (m²)

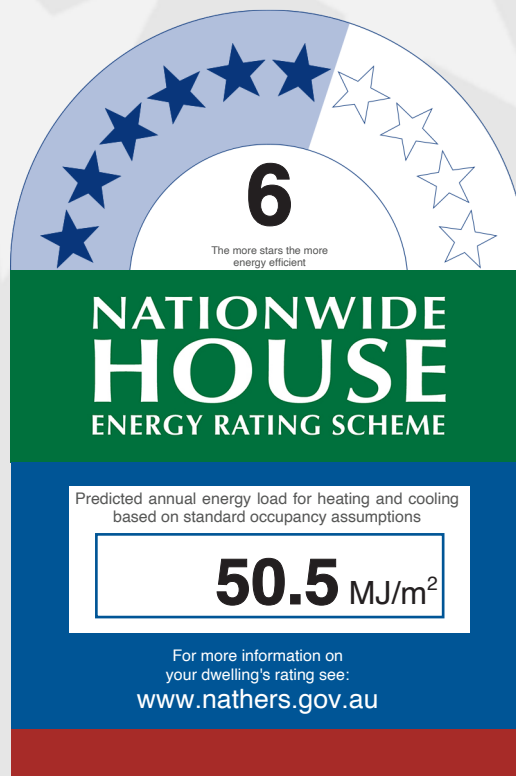
Conditioned: **421.3**
Unconditioned: **29.7**
Garage: **-**
TOTAL: **451**

Annual thermal performance loads (MJ/m²)

Heating: **25.4**
Cooling: **25.1**
TOTAL: **50.5**

Plan documents

Plan ref/date: **-**
Prepared by: **-**



Ceiling penetrations

(see following pages for details)

Sealed: **84**
Unsealed: **0**
TOTAL:** **84**

Principal downlight type: **LED**

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
TIM-001-01 W	Timber A SG Clear	5.4	0.56
TIM-002-01 W	Timber B SG Clear	5.4	0.63

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
TIM-001-01 W	W001	2400	3501	W	rampus	Yes
TIM-001-01 W	D02	2430	1765	W	rampus	No
TIM-002-01 W	D07	3100	4266	N	kitchen+dinning	No
TIM-002-01 W	D07	3100	6949	W	kitchen+dinning	Yes
TIM-002-01 W	D11	3225	2729	NE	stair	Yes
TIM-001-01 W	W009	2706	613	N	Bedroom3	Yes
TIM-002-01 W	D024	2707	3114	N	Bedroom3	Yes
TIM-002-01 W	W008	2706	613	N	bedroom2	Yes
TIM-002-01 W	D022	2707	3114	N	bedroom2	Yes
TIM-002-01 W	W007	2706	613	N	bedroom1	Yes
TIM-002-01 W	D020	2707	3114	N	bedroom1	Yes
TIM-002-01 W	W006	2706	613	N	STORE	No
TIM-002-01 W	W004	3000	2689	NE	corridor	No
TIM-001-01 W	D035	2194	3200	S	corridor	No
TIM-001-01 W	D035	2595	1075	S	corridor	No
TIM-002-01 W	W010	2506	467	E	corridor	Yes
TIM-001-01 W	W011	2506	1612	E	bunk room	Yes
TIM-001-01 W	W014	2506	467	E	bunk room	No
TIM-001-01 W	W012	606	1447	S	bathroom	No
TIM-001-01 W	W013	606	1459	S	laundry	No
TIM-002-01 W	D012	3257	3000	W	snug	Yes
TIM-002-01 W	W002	1606	1057	N	masterbed	No
TIM-002-01 W	D013	3257	3658	W	masterbed	Yes
TIM-002-01 W	W003	1606	1057	N	ensuite	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
DEFAULTS:DG-Generic-02 A	Clear AI DG DEFAULT ROOF WINDOW System 02	4.22	0.72

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Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
DEFAULTS:DG-Generic-02 A	SKY2	1.4	N	corridor	None	None
DEFAULTS:DG-Generic-02 A	SKY3	2.2	N	bunk room	None	None
DEFAULTS:DG-Generic-02 A	SKY1	1.4	N	bathroom	None	None
DEFAULTS:DG-Generic-02 A	SKY-4	0.4	N	laundry	None	None
DEFAULTS:DG-Generic-02 A	SKY-5	1.4	N	laundry	None	None
DEFAULTS:DG-Generic-02 A	SKY6	1	N	ensuite	None	None

External wall type

Type	Insulation	Wall wrap
1 : WALL-01 - AFS-WALL	Rockwool batt: R2.0 (R2.0)	No
2 : WALL-01 - 270 CON		No
3 : WALL-01 - 200 CON		No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : WALL-01 - AFS-WALL	6.4	W	store-lg	Yes	No
1 : WALL-01 - AFS-WALL	30.1	N	store-lg	Yes	No
1 : WALL-01 - AFS-WALL	9.8	N	stair+corridor	Yes	No
1 : WALL-01 - AFS-WALL	11.3	S	stair+corridor	No	No
1 : WALL-01 - AFS-WALL	14.2	SE	stair+corridor	Yes	No
1 : WALL-01 - AFS-WALL	7.4	S	stair+corridor	Yes	No
1 : WALL-01 - AFS-WALL	8.7	N	bathroom-lg	Yes	No
1 : WALL-01 - AFS-WALL	5.4	N	store/lift	No	No
1 : WALL-01 - AFS-WALL	6.1	S	store/lift	Yes	No
1 : WALL-01 - AFS-WALL	11.3	E	store/lift	No	No
1 : WALL-01 - AFS-WALL	1.8	SE	rampus	Yes	No
1 : WALL-01 - AFS-WALL	4.3	N	rampus	Yes	No
1 : WALL-01 - AFS-WALL	18.4	W	rampus	No	Yes

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1 : WALL-01 - AFS-WALL	27.6	S	rampus	No	No
2 : WALL-01 - 270 CON	24.1	N	kitchen+dinning	No	No
3 : WALL-01 - 200 CON	35.9	W	kitchen+dinning	No	Yes
1 : WALL-01 - AFS-WALL	17.7	S	kitchen+dinning	No	No
1 : WALL-01 - AFS-WALL	1.5	SE	kitchen+dinning	Yes	No
1 : WALL-01 - AFS-WALL	7.9	N	pantry	No	No
1 : WALL-01 - AFS-WALL	10.6	E	pantry	Yes	No
1 : WALL-01 - AFS-WALL	11.3	S	stair	No	No
1 : WALL-01 - AFS-WALL	5.8	SE	stair	Yes	No
1 : WALL-01 - AFS-WALL	3.1	N	stair	Yes	No
1 : WALL-01 - AFS-WALL	10.5	NE	stair	Yes	No
1 : WALL-01 - AFS-WALL	4.8	W	store-g	Yes	No
1 : WALL-01 - AFS-WALL	5.5	S	store-g	Yes	No
1 : WALL-01 - AFS-WALL	11.2	E	store-g	Yes	No
1 : WALL-01 - AFS-WALL	5.4	N	store-g	No	No
1 : WALL-01 - AFS-WALL	7.1	E	wc	Yes	No
1 : WALL-01 - AFS-WALL	11.3	S	wc	Yes	No
1 : WALL-01 - AFS-WALL	10.4	E	Bedroom3	No	Yes
1 : WALL-01 - AFS-WALL	14.4	N	Bedroom3	Yes	Yes
1 : WALL-01 - AFS-WALL	14.6	N	bedroom2	Yes	Yes
1 : WALL-01 - AFS-WALL	14.5	N	bedroom1	Yes	Yes
1 : WALL-01 - AFS-WALL	2.9	N	STORE	Yes	Yes
1 : WALL-01 - AFS-WALL	0.5	N	STORE	Yes	No
1 : WALL-01 - AFS-WALL	1	NNW	STORE	Yes	No
1 : WALL-01 - AFS-WALL	1.9	NNW	STORE	Yes	No
1 : WALL-01 - AFS-WALL	0.8	NW	STORE	Yes	No
1 : WALL-01 - AFS-WALL	7.3	NW	LIFT	Yes	No
1 : WALL-01 - AFS-WALL	10.9	NE	corridor	Yes	No
1 : WALL-01 - AFS-WALL	6.1	W	corridor	No	Yes
1 : WALL-01 - AFS-WALL	11.3	S	corridor	No	No
1 : WALL-01 - AFS-WALL	14.4	SE	corridor	Yes	No
1 : WALL-01 - AFS-WALL	22.9	S	corridor	Yes	No
1 : WALL-01 - AFS-WALL	5	E	corridor	No	Yes
1 : WALL-01 - AFS-WALL	13.4	E	bunk room	Yes	Yes
1 : WALL-01 - AFS-WALL	21.2	S	bunk room	No	No

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1 : WALL-01 - AFS-WALL	8.5	S	bathroom	No	No
1 : WALL-01 - AFS-WALL	13.3	W	laundry	Yes	No
1 : WALL-01 - AFS-WALL	7.3	S	laundry	No	No
1 : WALL-01 - AFS-WALL	1.7	SE	snug	Yes	No
1 : WALL-01 - AFS-WALL	1.2	W	snug	No	Yes
1 : WALL-01 - AFS-WALL	11.9	W	snug	No	Yes
1 : WALL-01 - AFS-WALL	17.5	S	snug	No	No
2 : WALL-01 - 270 CON	21.8	N	masterbed	No	No
1 : WALL-01 - AFS-WALL	16.3	W	masterbed	No	Yes
1 : WALL-01 - AFS-WALL	10.9	E	ensuite	No	No
2 : WALL-01 - 270 CON	10.2	N	ensuite	No	No

Internal wall type

Type	Area (m ²)	Insulation
1 : WALL-01 - AFS110	393.8	
2 : WALL-01 - AFS-WALL	7.2	Rockwool batt: R2.0 (R2.0)

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
store-lg	FR5 - CSOG: Slab on Ground	19.1	Enclosed	R0.0	Tiles
stair+corridor	FR5 - CSOG: Slab on Ground	26.1	Enclosed	R0.0	Timber
bathroom-lg	FR5 - CSOG: Slab on Ground	5.5	Enclosed	R0.0	Tiles
store/lift	FR5 - CSOG: Slab on Ground	5.9	Enclosed	R0.0	Tiles
rampus	FR5 - CSOG: Slab on Ground	52	Enclosed	R0.0	Timber
kitchen+dinning	FR5 - 250mm concrete slab Lined	25.3	Enclosed	R0.0	Timber
kitchen+dinning	FR5 - 250mm concrete slab Lined	52.3	Enclosed	R0.0	Timber
pantry	FR5 - 200mm concrete slab Lined	3	Enclosed	R0.0	Timber
pantry	FR5 - 200mm concrete slab Lined	8.4	Enclosed	R0.0	Timber
stair	FR5 - 250mm concrete slab Lined	25.9	Enclosed	R0.0	Timber
stair	FR5 - 200mm concrete slab Lined	0	Enclosed	R0.0	Timber
store-g	FR5 - 200mm concrete slab Lined	5.6	Enclosed	R0.0	Tiles
wc	FR5 - 200mm concrete slab Lined	6	Elevated	R0.0	Tiles
Bedroom3	FR5 - 150mm concrete slab Lined	13.8	Enclosed	R0.0	Timber
bedroom2	FR5 - 150mm concrete slab Lined	13.8	Enclosed	R0.0	Timber

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bedroom1	FR5 - 150mm concrete slab Lined	13.8	Enclosed	R0.0	Timber
STORE	FR5 - 200mm concrete slab	1.7	Enclosed	R0.0	Tiles
STORE	FR5 - 200mm concrete slab	2.8	Enclosed	R0.0	Tiles
LIFT	FR5 - 200mm concrete slab	0.3	Enclosed	R0.0	none
LIFT	FR5 - 200mm concrete slab	1.2	Enclosed	R0.0	none
LIFT	FR5 - 200mm concrete slab	1.5	Enclosed	R0.0	none
corridor	FR5 - 200mm concrete slab	44.5	Enclosed	R0.0	Timber
corridor	FR5 - 200mm concrete slab	21	Enclosed	R0.0	Timber
bunk room	FR5 - 150mm concrete slab Lined	26.1	Enclosed	R0.0	Carpet
bathroom	FR5 - 150mm concrete slab Lined	10.4	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab Lined	8.9	Enclosed	R0.0	Tiles
snug	FR5 - 200mm concrete slab	25.8	Enclosed	R0.0	Timber
masterbed	FR5 - 250mm concrete slab Lined	32.5	Enclosed	R0.0	Timber
ensuite	FR5 - 200mm concrete slab	15.2	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
store-lg	FR5 - 250mm concrete slab Lined	R0.0	No
store-lg	FR5 - 250mm concrete slab Lined	R0.0	No
store-lg	FR5 - 200mm concrete slab Lined	R0.0	No
store-lg	FR5 - 200mm concrete slab Lined	R0.0	No
store-lg	Plasterboard	R2.0	No
stair+corridor	FR5 - 250mm concrete slab Lined	R0.0	No
stair+corridor	FR5 - 200mm concrete slab Lined	R0.0	No
stair+corridor	FR5 - 250mm concrete slab Lined	R0.0	No
bathroom-lg	FR5 - 250mm concrete slab Lined	R0.0	No
bathroom-lg	Plasterboard	R2.0	No
store/lift	FR5 - 200mm concrete slab Lined	R0.0	No
rampus	FR5 - 250mm concrete slab Lined	R0.0	No
rampus	Plasterboard	R2.0	No
kitchen+dinning	FR5 - 250mm concrete slab Lined	R0.0	No
kitchen+dinning	FR5 - 200mm concrete slab	R0.0	No
kitchen+dinning	FR5 - 200mm concrete slab	R0.0	No
kitchen+dinning	FR5 - 200mm concrete slab	R0.0	No
kitchen+dinning	FR5 - 250mm concrete slab Lined	R0.0	No

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kitchen+dinning	FR5 - 200mm concrete slab	R0.0	No
pantry	FR5 - 200mm concrete slab	R0.0	No
pantry	FR5 - 200mm concrete slab	R0.0	No
stair	FR5 - 200mm concrete slab	R0.0	No
stair	FR5 - 200mm concrete slab	R0.0	No
stair	FR5 - 200mm concrete slab	R0.0	No
store-g	FR5 - 200mm concrete slab	R0.0	No
store-g	FR5 - 200mm concrete slab	R0.0	No
store-g	FR5 - 200mm concrete slab	R0.0	No
wc	Plasterboard	R2.0	No
Bedroom3	Plasterboard	R6.0	No
bedroom2	Plasterboard	R6.0	No
bedroom1	Plasterboard	R6.0	No
STORE	Plasterboard	R6.0	No
STORE	Plasterboard	R6.0	No
LIFT	Plasterboard	R6.0	No
LIFT	Plasterboard	R6.0	No
corridor	Plasterboard	R6.0	No
corridor	Plasterboard	R6.0	No
bunk room	Plasterboard	R6.0	No
bathroom	Plasterboard	R6.0	No
laundry	Plasterboard	R6.0	No
snug	Plasterboard	R6.0	No
masterbed	Plasterboard	R6.0	No
ensuite	Plasterboard	R6.0	No

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
store-lg	1	Exhaust Fans	200	200	Sealed
store-lg	1	Downlights	100	100	Sealed
stair+corridor	6	Downlights	100	100	Sealed
bathroom-lg	1	Exhaust Fans	200	200	Sealed
bathroom-lg	1	Downlights	100	100	Sealed
store/lift	1	Downlights	100	100	Sealed
rampus	8	Downlights	100	100	Sealed
kitchen+dinning	9	Downlights	100	100	Sealed

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pantry	3	Downlights	100	100	Sealed
stair	3	Downlights	100	100	Sealed
store-g	1	Downlights	100	100	Sealed
wc	1	Exhaust Fans	200	200	Sealed
wc	1	Downlights	100	100	Sealed
Bedroom3	4	Downlights	100	100	Sealed
bedroom2	4	Downlights	100	100	Sealed
bedroom1	4	Downlights	100	100	Sealed
STORE	1	Downlights	100	100	Sealed
LIFT	1	Downlights	100	100	Sealed
corridor	6	Downlights	100	100	Sealed
bunk room	8	Downlights	100	100	Sealed
bathroom	1	Exhaust Fans	200	200	Sealed
bathroom	1	Downlights	100	100	Sealed
laundry	1	Downlights	100	100	Sealed
snug	8	Downlights	100	100	Sealed
masterbed	6	Downlights	100	100	Sealed
ensuite	2	Downlights	100	100	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab : 200mm: 200mm Suspended Slab	0.0	medium

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Additional Information

WINDOW FRAME COULD BE REPLACED WITH SIMILAR U-VALUE & SHGC SUCH AS STEEL WHERE APPLICABLE
INSULATION TYPE COULD BE REPLACED WITH SIMILAR R-VALUE.

NOTE FOR COUNCIL & CERTIFIER: WINDOW NO, OPENING SERIAL ETC COULD DEFER FROM DRAWINGS DUE TO ASSESSOR OWN NAMEING CONVENTION & SOFATWARE AUTO GENERATION . SIZE , LOCATION COULD BE FOUND IN NETHARS CERTIFICATE.

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au

For more information on energy efficient design and insulation visit www.yourhome.gov.au