

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Multi Dwelling

Certificate number: 1268031M\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

Secretary

Date of issue: Thursday, 13 March 2025

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate 0007010180.

### Project summary

Project name	51 DRUMMOND ST_02
Street address	51 DRUMMOND STREET BELMORE 2192
Local Government Area	CANTERBURY-BANKSTOWN
Plan type and plan number	Deposited Plan 1062028
Lot no.	200
Section no.	-
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	26
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

### Project score

Water	✓ 40	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 61	Target 61
Materials	✓ -100	Target n/a

### Certificate Prepared by

Name / Company Name: Building & Energy Consultants Australia

ABN (if applicable):

# Description of project

Project address	
Project name	51 DRUMMOND ST_02
Street address	51 DRUMMOND STREET BELMORE 2192
Local Government Area	CANTERBURY-BANKSTOWN
Plan type and plan number	Deposited Plan 1062028
Lot no.	200
Section no.	-
Project type	
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	26
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	1086
Roof area (m²)	296
Non-residential floor area (m²)	188
Residential car spaces	38
Non-residential car spaces	4

Common area landscape		
Common area lawn (m²)	0.00	
Common area garden (m²)	180.00	
Area of indigenous or low water use species (m²)	0	
Assessor details and thermal loads		
Assessor number	DMN/20/1999	
Certificate number	0007010180	
Climate zone	56	
Project score		
Water	✔ 40	Target 40
Thermal Performance	✔ Pass	Target Pass
Energy	✔ 61	Target 61
Materials	✔ -100	Target n/a

## Description of project

The tables below describe the dwellings and common areas within the project

### Residential flat buildings - DRUMMOND STREET BUILDING, 12 dwellings, 5 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1.01	2	76.5	0.00	0.00	0
2.02	1	52.3	0.00	0.00	0
3.03	2	73.7	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1.02	1	52.3	0.00	0.00	0
2.03	2	77.8	0.00	0.00	0
4.01	2	71.5	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1.03	2	77.8	0.00	0.00	0
3.01	2	71.5	0.00	0.00	0
4.02	1	49.2	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2.01	2	76.5	0.00	0.00	0
3.02	1	49.2	0.00	0.00	0
4.03	2	73.8	0.00	0.00	0

### Residential flat buildings - WEST SIDE BUILDING, 14 dwellings, 6 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1.05	1	58.2	0.00	0.00	0
2.06	2	76.7	0.00	0.00	0
4.04	3	102.3	0.00	0.00	0
5.02	2	74.6	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1.06	2	77.8	0.00	0.00	0
3.04	3	102.2	0.00	0.00	0
4.05	2	74.6	0.00	0.00	0
5.03	2	76.7	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2.04	3	102.3	0.00	0.00	0
3.05	2	74.6	0.00	0.00	0
4.06	2	76.7	0.00	0.00	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2.05	2	74.6	0.00	0.00	0
3.06	2	76.7	0.00	0.00	0
5.01	3	102.6	0.00	0.00	0

## Description of project

The tables below describe the dwellings and common areas within the project

### Common areas of the development (non-building specific)

Common area	Floor area (m <sup>2</sup> )	Common area	Floor area (m <sup>2</sup> )	Common area	Floor area (m <sup>2</sup> )
Car park area	157.70	Electrical/Comms room	16.2	Garbage room - Resi	34.3
Pump Room - Basement 1	9.50	Pump room - Ground	38.9	Plant room - Ground	28.3

### Common areas of unit building - DRUMMOND STREET BUILDING

Common area	Floor area (m <sup>2</sup> )	Common area	Floor area (m <sup>2</sup> )
Ground floor Foyer - Drummond St	35.4	Hallway/lobby - Drummond St	60

### Common areas of unit building - WEST SIDE BUILDING

Common area	Floor area (m <sup>2</sup> )	Common area	Floor area (m <sup>2</sup> )	Common area	Floor area (m <sup>2</sup> )
Ground floor Foyer - West side building	78.4	Hallway/lobby - West side building	30.5	Lift bank (No. 1)	-
Lift bank (No. 2)	-				

# Schedule of BASIX commitments

## 1. Commitments for Residential flat buildings - DRUMMOND STREET BUILDING

- (a) Buildings
  - (i) Materials
- (b) Dwellings
  - (i) Water
  - (ii) Energy
  - (iii) Thermal Performance
- (c) Common areas and central systems/facilities
  - (i) Water
  - (ii) Energy

## 2. Commitments for Residential flat buildings - WEST SIDE BUILDING

- (a) Buildings
  - (i) Materials
- (b) Dwellings
  - (i) Water
  - (ii) Energy
  - (iii) Thermal Performance
- (c) Common areas and central systems/facilities
  - (i) Water
  - (ii) Energy

## 3. Commitments for common areas and central systems/facilities for the development (non-building specific)

- (a) Buildings 'Other'
  - (i) Materials
- (b) Common areas and central systems/facilities
  - (i) Water

(ii) Energy

## Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

### 1. Commitments for Residential flat buildings - DRUMMOND STREET BUILDING

#### (a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
floors above habitable rooms, frame: suspended concrete slab	875.6	-	-
suspended floor above open subfloor, frame: suspended concrete slab	21.9	polystyrene	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer, frame: light steel frame	366.3	-	fibreglass batts or roll
External wall type 2	framed (fibre cement sheet or boards), frame: light steel frame	95.8	-	fibreglass batts or roll

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	500	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	624.1	-
Internal wall type 3	single skin masonry, frame:no frame	172.8	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	1	foil/sarking	fibreglass batts or roll

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
195.3	-	-	195.3	-	-	-	-



## (b) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install:  (aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and  (bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		✓ ✓	✓ ✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 4.5 but ≤ 6 L/min)	4 star	6 star	6 star	no	not specified	5 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	No alternative water supply	-	-	-	-	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		✓	✓
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 1)	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
1.01, 2.01, 3.01, 4.01	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	0	no
1.02, 2.02, 3.02, 4.02	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	0	no
All other dwellings	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1	yes

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	3.5 star	2 star	no	no

(iii) Thermal Performance	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	✓		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		✓	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must:  (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✓		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✓	

Thermal loads			
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
1.01	16.9	13.5	30.400
1.02	6.8	16.6	23.400
1.03	22.2	10.0	32.200
2.01	10.5	19.2	29.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in MJ/m <sup>2</sup> /yr)	Area adjusted total load (in MJ/m <sup>2</sup> /yr)
2.02	17.6	18.5	36.100
2.03	21.6	9.0	30.600
3.01	12.0	19.2	31.200
3.02	10.0	19.5	29.500
3.03	19.4	10.4	29.800
4.01	20.4	14.0	34.400
4.02	17.8	13.4	31.200
All other dwellings	28.5	7.5	36.000

**(c) Common areas and central systems/facilities**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 3)	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Ground floor Foyer - Drummond St	no mechanical ventilation	-	light-emitting diode	motion sensors	-
Hallway/lobby - Drummond St	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	-

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 6 number of levels from the bottom of the lift shaft to the top of the lift shaft: 8 number of lifts: 1 lift load capacity: $\geq 1001$ kg but $\leq 1500$ kg
Central hot water system (No. 1)	gas instantaneous	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

## 2. Commitments for Residential flat buildings - WEST SIDE BUILDING

### (a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
floors above habitable rooms, frame: suspended concrete slab	1120.6	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	138.9	polystyrene	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer,frame:light steel frame	540.4	-	fibreglass batts or roll
External wall type 2	framed (fibre cement sheet or boards),frame:light steel frame	153.2	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	818.4	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	522.1	-
Internal wall type 3	single skin masonry, frame:no frame	174.2	-



Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	296	foil/sarking	fibreglass batts or roll

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
273.6	-	-	273.6	-	-	-	-

## (b) Dwellings








(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: (aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and (bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		✓ ✓	✓ ✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
1.05, 1.06, 2.04, 5.02, 5.03	4 star (> 4.5 but ≤ 6 L/min)	4 star	6 star	6 star	-	not specified	5 star	-	-	-	-	-	-	-

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All other dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	no	not specified	5 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	No alternative water supply	-	-	-	-	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓


(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<p>(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:</p> <p>(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and</p> <p>(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.</p>		 	
<p>(h) The applicant must install in the dwelling:</p> <p>(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances &amp; other efficiency measures" column of the table below;</p> <p>(bb) each appliance for which a rating is specified for that dwelling in the "Appliances &amp; other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and</p> <p>(cc) any clothes drying line specified for the dwelling in the "Appliances &amp; other efficiency measures" column of the table.</p>		  	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".			

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 2)	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
1.05, 2.05, 3.05, 4.05	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	0	no
2.04, 3.04, 4.04, 5.01	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1	yes
All other dwellings	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	1-phase airconditioning - non ducted / EER 3.0 - 3.5	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	3.5 star	2 star	no	no

(iii) Thermal Performance	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	✓		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		✓	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must:  (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✓		

(iii) Thermal Performance	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.			

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
1.05	22.8	12.0	34.800
1.06	24.3	8.3	32.600
2.04	30.4	7.1	37.500
2.05	16.8	14.9	31.700
2.06	15.7	10.9	26.600
3.04	24.7	7.7	32.400
3.05	10.4	14.7	25.100
3.06	14.7	11.0	25.700
4.04	23.3	7.7	31.000
4.05	7.8	14.4	22.200
4.06	15.8	11.2	27.000
5.01	20.6	8.9	29.500
5.02	11.0	11.4	22.400
All other dwellings	21.3	9.4	30.700

**(c) Common areas and central systems/facilities**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 1)	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Ground floor Foyer - West side building	no mechanical ventilation	-	light-emitting diode	motion sensors	-
Hallway/lobby - West side building	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	-
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	-
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	-

Central energy systems	Type	Specification
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 6 number of levels from the bottom of the lift shaft to the top of the lift shaft: 8 number of lifts: 1 lift load capacity: $\geq 1001$ kg but $\leq 1500$ kg
Central hot water system (No. 2)	gas instantaneous	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)



### 3. Commitments for common areas and central systems/facilities for the development (non-building specific)

#### (a) Buildings 'Other'

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	260.76	-	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer,frame:light steel frame	112	-	-

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	single skin masonry, frame:no frame	70	-

#### Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	1	foil/sarking	fibreglass batts or roll

**Glazing types****Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
101.3	-	-	101.3	-	-	-	-

**(b) Common areas and central systems/facilities**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	motion sensors	-
Electrical/Comms room	no mechanical ventilation	-	light-emitting diode	manual on / manual off	-
Garbage room - Resi	ventilation exhaust only	-	light-emitting diode	motion sensors	-
Pump Room - Basement 1	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	-
Pump room - Ground	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	-
Plant room - Ground	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	-

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 0 peak kW
Other	-	-

## Notes

1. In these commitments, "applicant" means the person carrying out the development.
2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
5. If a star or other rating is specified in a commitment, this is a minimum rating.
6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

## Legend

1. Commitments identified with a "✔" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).
2. Commitments identified with a "✔" in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
3. Commitments identified with a "✔" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfilment it is required to monitor in relation to the building or part, has been fulfilled).



## NatHERS - THERMAL COMFORT SUMMARY



<b>Address: 51 Drummond Street Belmore 2192</b>		<b>Date: 13/03/2025</b>
<b>Software: BERS Pro v5</b>	<b>Certificate No.: 0007010180</b>	
Building Elements	Material	Detail
External walls	Brick veneer Lightweight cladding	R2.5 insulation ( <i>product value</i> )
Internal walls within units	Plasterboard on studs	-
Common walls between units	Hebel + stud + plasterboard	-
Common walls between units and lift shafts/fire stairs	200mm Concrete	-
Common walls between units and corridors	Hebel + stud + plasterboard	-
Ceiling	Plasterboard	R3.5 insulation ( <i>product value</i> ) to ceilings exposed to outside air – Top floor units
Floors	Concrete	R2.5 insulation ( <i>product value</i> ) to floor suspended to outside air, car park, plant room, pump room & hydrant/sprinkler room – Units 1.03, 1.05, 1.06 & 204
Roof	Concrete	-
Windows/Doors – excluding ensuites	<b><u>Awning windows:</u></b> Aluminium frame, single glazed low e or similar	U value 5.40 or less and SHGC 0.49 +/- 5%
	<b><u>Sliding doors &amp; fixed windows:</u></b> Aluminium frame, double glazed argon fill or similar	U value 4.50 or less and SHGC 0.61 +/- 5%
Windows/Doors – ensuites only	<b><u>Awning windows:</u></b> Aluminium frame, single glazed clear	U value 6.70 or less and SHGC 0.57 +/- 5%
Skylight – Unit 501	Double glazed	U value 4.20 or less and SHGC 0.72 +/- 5%
<i>U and SHGC values are according to NFRC. Alternate products may be used if the U value is the same or lower and the SHGC is within 5% of the above figures. This also applies to changes to the type and thickness of glass required to meet Bushfire and acoustic regulations.</i>		
<b>Ceiling fans:</b> 1200mm ceiling fans to Living - Units 3.02, 4.02 & 1.05		
<b>Lighting:</b> Units have been rated with non-ventilated LED downlights as per NatHERS certificate.		
<b>Note:</b> In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.		
<b>Note:</b> Self-closing damper to bath, laundry and ensuite exhaust fans.		
<b>Note:</b> Additional insulation may be required to meet acoustic requirements		
<b>This Development must comply with Section J of the BCA</b>		
<b>Building &amp; Energy Consultants Australia dissolves itself from any responsibility associated with the selection of insulation, sarking type materials, thermal breaks and other componentry which fail to comply with the fire safety requirement provisions under Part C of the BCA</b>		

# Nationwide House Energy Rating Scheme®

## Class 2 Summary

### NatHERS® Certificate No. 0007010180

Generated on 13 Mar 2025 using BERS Pro v5.2.3 (3.23)

## Property

**Address** 51 Drummond St,  
Belmore , NSW , 2192

**Lot/DP** Lot 200 DP 1062028

**NatHERS Climate Zone** 56 Mascot (Sydney Airport)



## Accredited assessor

**Name** Thomas Ruck

**Business name** Building & Energy Consultants Australia

**Email** thomas@beca.net.au

**Phone** 9533 2388

**Accreditation No.** DMN/20/1999

**Assessor Accrediting Organisation**  
Design Matters National

## Verification

To verify this certificate, scan the QR code or visit [hstar.com.au/QR/Generate?p=rUMbuUpY](https://hstar.com.au/QR/Generate?p=rUMbuUpY). When using either link, ensure you are visiting [hstar.com.au](https://hstar.com.au)



## 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](https://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®

The rating above is the average of all dwellings in this summary.

For more information on your dwelling's rating see:  
[www.nathers.gov.au](https://www.nathers.gov.au)

## NCC heating and cooling maximum loads (MJ/m<sup>2</sup>/p.a.)

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled block average	17.7	12.5
Maximum block limit	N/A	N/A

## Whole of Home performance rating

No Whole of Home performance rating conducted for this summary certificate or not completed for all dwellings

## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m <sup>2</sup> /p.a.]	Cooling load (load limit) [MJ/m <sup>2</sup> /p.a.]	Total load [MJ/m <sup>2</sup> /p.a.]	Star Rating	Whole of Home Rating
<a href="#">0011780939</a>	1.01	13.5 (N/A)	16.9 (N/A)	30.3	6.9	0
<a href="#">0011780970</a>	1.02	6.8 (N/A)	16.6 (N/A)	23.5	7.7	0

## Summary of all dwellings (continued)

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m <sup>2</sup> /p.a.]	Cooling load (load limit) [MJ/m <sup>2</sup> /p.a.]	Total load [MJ/m <sup>2</sup> /p.a.]	Star Rating	Whole of Home Rating
<a href="#">0011781002</a>	1.03	22.2 (N/A)	10.0 (N/A)	32.2	6.7	0
<a href="#">0011781036</a>	1.05	22.8 (N/A)	12.0 (N/A)	34.9	6.4	0
<a href="#">0011781069</a>	1.06	24.3 (N/A)	8.3 (N/A)	32.6	6.7	0
<a href="#">0011781093</a>	2.01	10.5 (N/A)	19.2 (N/A)	29.6	7	0
<a href="#">0011781127</a>	2.02	17.6 (N/A)	18.5 (N/A)	36.1	6.2	0
<a href="#">0011781150</a>	2.03	21.6 (N/A)	9.0 (N/A)	30.6	6.9	0
<a href="#">0011781176</a>	2.04	30.4 (N/A)	7.1 (N/A)	37.5	6.1	0
<a href="#">0011780921</a>	2.05	16.8 (N/A)	14.9 (N/A)	31.7	6.8	0
<a href="#">0011780954</a>	2.06	15.7 (N/A)	10.9 (N/A)	26.5	7.4	0
<a href="#">0011780988</a>	3.01	12.0 (N/A)	19.2 (N/A)	31.2	6.9	0
<a href="#">0011781010</a>	3.02	10.0 (N/A)	19.5 (N/A)	29.5	7.1	0
<a href="#">0011781044</a>	3.03	19.4 (N/A)	10.4 (N/A)	29.8	7	0
<a href="#">0011781077</a>	3.04	24.7 (N/A)	7.7 (N/A)	32.4	6.7	0
<a href="#">0011781101</a>	3.05	10.4 (N/A)	14.7 (N/A)	25.2	7.4	0
<a href="#">0011781135</a>	3.06	14.7 (N/A)	11.0 (N/A)	25.7	7.4	0
<a href="#">0011781168</a>	4.01	20.4 (N/A)	14.0 (N/A)	34.4	6.4	0
<a href="#">0011780947</a>	4.02	17.8 (N/A)	13.4 (N/A)	31.2	6.9	0
<a href="#">0011780962</a>	4.03	28.5 (N/A)	7.6 (N/A)	36.1	6.2	0
<a href="#">0011780996</a>	4.04	23.3 (N/A)	7.7 (N/A)	30.9	6.9	0
<a href="#">0011781028</a>	4.05	7.8 (N/A)	14.4 (N/A)	22.2	7.9	0
<a href="#">0011781051</a>	4.06	15.8 (N/A)	11.2 (N/A)	27.0	7.3	0
<a href="#">0011781085</a>	5.01	20.6 (N/A)	8.9 (N/A)	29.5	7.1	0
<a href="#">0011781119</a>	5.02	11.0 (N/A)	11.4 (N/A)	22.4	7.8	0
<a href="#">0011781143</a>	5.03	21.3 (N/A)	9.4 (N/A)	30.7	6.9	0

## Explanatory notes

### About this ratings

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate.

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 energy loads and societal cost. 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.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

### Accredited Assessors





For high quality 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.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register.

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 certificates 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 use, 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 while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.