

# BASIX<sup>®</sup>Certificate

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

## Single Dwelling

Certificate number: 1740237S

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: Monday, 18 March 2024

To be valid, this certificate must be lodged within 3 months of the date of issue.



### Project summary

Project name	NECH - Lewis
Street address	5 KEITH Crescent SMITHS LAKE 2428
Local Government Area	Mid-Coast Council
Plan type and plan number	Deposited Plan DP32207
Lot no.	71
Section no.	-
Project type	dwelling house (detached)
No. of bedrooms	3

### Project score

Water	✓ 47	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 70	Target 70
Materials	✓ 41	Target n/a

### Certificate Prepared by

Name / Company Name: JB Dynamic Designs

ABN (if applicable): 44288414093

# Description of project

Project address	
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Plan type and plan number	Deposited Plan DP32207
Lot no.	71
Section no.	-
Project type	
Project type	dwelling house (detached)
No. of bedrooms	3
Site details	
Site area (m <sup>2</sup> )	597
Roof area (m <sup>2</sup> )	121
Conditioned floor area (m <sup>2</sup> )	104.3
Unconditioned floor area (m <sup>2</sup> )	25.0
Total area of garden and lawn (m <sup>2</sup> )	150
Roof area of the existing dwelling (m <sup>2</sup> )	0

Assessor details and thermal loads		
Assessor number	20042	
Certificate number	0009302951	
Climate zone	15	
Area adjusted cooling load (MJ/ m².year)	16	
Area adjusted heating load (MJ/ m².year)	34	
Project score		
Water	<div><div>✔</div><div>47</div></div>	Target 40
Thermal Performance	<div><div>✔</div><div>Pass</div></div>	Target Pass
Energy	<div><div>✔</div><div>70</div></div>	Target 70
Materials	<div><div>✔</div><div>41</div></div>	Target n/a

## 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.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<b>Landscape</b>			
The applicant must plant indigenous or low water use species of vegetation throughout 50 square metres of the site.	✓	✓	
<b>Fixtures</b>			
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) in all showers in the development.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		✓	
<b>Alternative water</b>			
<b>Rainwater tank</b>			
The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
The applicant must configure the rainwater tank to collect rain runoff from at least 118 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		✓	✓
The applicant must connect the rainwater tank to:			
• all toilets in the development		✓	✓
• the cold water tap that supplies each clothes washer in the development		✓	✓

## Water Commitments

Show on  
DA plans

Show on CC/CDC  
plans & specs

Certifier  
check

- at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)



Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<b>Simulation Method</b>			
Assessor details and thermal loads			
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 an occupation certificate for the proposed development.			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate and the "Construction" and "Glazing" tables below.			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate 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. 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.	✓	✓	✓
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.		✓	✓
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. 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 Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Construction			
The applicant must construct the floors, walls, roofs, ceilings and glazing of the dwelling in accordance with the specifications listed in the tables below.	✓	✓	✓
The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the tables below.			✓

Construction	Area - m <sup>2</sup>	Insulation
floor - suspended floor above enclosed subfloor, treated softwood; frame: timber - untreated softwood.	120	fibreglass batts or roll+ foil/sarking
external wall: framed (solid or reconstituted timber weatherboard); frame: timber - H2 treated softwood.	all external walls	fibreglass batts or roll+ foil/sarking
internal wall: plasterboard; frame: timber - H2 treated softwood.	154.8	fibreglass batts or roll
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, timber - untreated softwood.	100.44	ceiling: fibreglass batts or roll; roof: foil backed blanket.
ceiling and roof - raked ceiling / pitched or skillion roof, framed - metal roof, timber - untreated softwood.	19.72	ceiling: fibreglass batts or roll; roof: foil backed blanket.

## Thermal Performance and Materials commitments

Show on  
DA plans

Show on CC/CDC  
plans & specs

Certifier  
check

### Glazing

The applicant must install windows, glazed doors and skylights as described in the table below, in accordance with the specifications listed in the table.



### Frames

#### Maximum area - m2

aluminium

14.65

timber

16.2

uPVC

0

steel

0

composite

0

### Glazing

#### Maximum area - m2

single

20.31

double

10.54

triple

0

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<b>Hot water</b>			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 4 stars.	✓	✓	✓
<b>Cooling system</b>			
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		✓	✓
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		✓	✓
<b>Heating system</b>			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: wood heater; Energy rating: n/a		✓	✓
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		✓	✓
The wood heater must have a compliance plate confirming that it complies with the relevant Australian standards, and must be installed in accordance with the requirements of all applicable regulatory authorities.			✓
<b>Ventilation</b>			
The applicant must install the following exhaust systems in the development: At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
Laundry: natural ventilation only, or no laundry; Operation control: n/a		✓	✓
<b>Artificial lighting</b>			
The applicant must ensure that a minimum of 80% of light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Natural lighting</b>			



Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	✓	✓	✓
The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	✓	✓	✓
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		✓	
The applicant must install a fixed outdoor clothes drying line as part of the development.		✓	

## Legend

In these commitments, "applicant" means the person carrying out the development.

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).

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.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate (either interim or final) for the development may be issued.