

# BASIX<sup>®</sup>Certificate

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

## Single Dwelling

Certificate number: 1762597S

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, 02 September 2024

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.



### Project summary

Project name	65 Dalton Avenue Condell Park
Street address	65 DALTON Avenue CONDELL PARK 2200
Local Government Area	Canterbury-Bankstown Council
Plan type and plan number	Deposited Plan DP224013
Lot no.	227
Section no.	-
Project type	dwelling house (detached)
No. of bedrooms	5

### Project score

Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 74	Target 72
Materials	✓ -100	Target n/a

### Certificate Prepared by

Name / Company Name: AENEC - Office: 02 9994 8906

ABN (if applicable): 32612556377

# Description of project

Project address	
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Lot no.	227
Section no.	-
Project type	
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No. of bedrooms	5
Site details	
Site area (m <sup>2</sup> )	648
Roof area (m <sup>2</sup> )	244
Conditioned floor area (m <sup>2</sup> )	301.4
Unconditioned floor area (m <sup>2</sup> )	38.0
Total area of garden and lawn (m <sup>2</sup> )	241
Roof area of the existing dwelling (m <sup>2</sup> )	0

Assessor details and thermal loads		
Assessor number	HERA10002	
Certificate number	HR-QQ9EA6-01	
Climate zone	56	
Area adjusted cooling load (MJ/ m².year)	9	
Area adjusted heating load (MJ/ m².year)	20	
Project score		
Water	<div><div></div><div>41</div></div>	Target 40
Thermal Performance	<div><div></div><div>Pass</div></div>	Target Pass
Energy	<div><div></div><div>74</div></div>	Target 72
Materials	<div><div></div><div>-100</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 100 square metres of the site.	✓	✓	
<b>Fixtures</b>			
The applicant must install showerheads with a minimum rating of 4 star (> 4.5 but <= 6 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 5 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 244 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: <ul style="list-style-type: none"> <li>all toilets in the development</li> <li>the cold water tap that supplies each clothes washer in the development</li> </ul>		✓ ✓	✓ ✓

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<ul style="list-style-type: none"> <li>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.)</li> </ul>		✓	✓
<b>Swimming Pool</b>			
The swimming pool must not have a volume greater than 55 kilolitres.	✓	✓	
The swimming pool must be outdoors.	✓	✓	
<b>Outdoor Spa</b>			
The spa must not have a volume greater than 5 kilolitres.	✓	✓	

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 - concrete slab on ground, conventional slab.	104.3	none
floor - suspended floor above open subfloor, concrete - suspended; frame: timber - untreated softwood.	29.9	fibreglass batts or roll
floor - above habitable rooms or mezzanine, concrete - suspended; frame: timber - untreated softwood..	144.2	none
floor - suspended floor above garage, concrete - suspended; frame: no frame.	61	fibreglass batts or roll
garage floor - concrete slab on ground.	75.8	none
external wall: cavity brick; frame: timber - untreated softwood.	209	none
external wall: framed (fibre cement sheet or boards); frame: timber - untreated softwood.	0.1	none
external garage wall: cavity brick; frame: no frame.	210	polystyrene
external garage wall: brick veneer; frame: timber - untreated softwood.	0.01	none
internal wall: 75 mm AAC panel; frame: timber - untreated softwood.	23	polystyrene
internal wall: single skin masonry; frame: timber - untreated softwood.	11	polystyrene
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, timber - untreated softwood.	237.8	ceiling: fibreglass batts or roll; roof: foil/sarking.

Construction	Area - m <sup>2</sup>	Insulation
ceiling and roof - flat ceiling / flat roof, concrete - plasterboard internal, timber - untreated softwood.	6.2	ceiling: fibreglass batts or roll; roof: none.

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	143
timber	0
uPVC	0
steel	0
composite	0

Glazing	Maximum area - m2
single	0
double	143
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 5.5 stars.	✓	✓	✓
<b>Cooling system</b>			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		✓	✓
<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: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		✓	✓
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		✓	✓
<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: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
<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>			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	✓	✓	✓

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a window and/or skylight in 5 bathroom(s)/toilet(s) in the development for natural lighting.	✓	✓	✓
<b>Swimming pool</b>			
The development must not incorporate any heating system for the swimming pool.		✓	
The applicant must install the following pump for the swimming pool in the development, or a pump with a higher energy rating: single speed with a performance of 5 stars.		✓	
The applicant must install a timer for the swimming pool pump in the development.		✓	
<b>Outdoor spa</b>			
The development must not incorporate any heating system for the spa.		✓	
The applicant must install a timer for the spa pump in the development.		✓	
<b>Alternative energy</b>			
The applicant must install a photovoltaic system as part of the development. The applicant must connect this system to the development's electrical system.	✓	✓	✓
The photovoltaic system must consist of: <ul style="list-style-type: none"> <li>photovoltaic collectors with the capacity to generate at least 3.5 peak kilowatts of electricity, installed at an angle between 0 degrees and 10 degrees to the horizontal facing north</li> </ul>	✓	✓	✓
<b>Other</b>			
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.