

BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Single Dwelling

Certificate number: 1303637S

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

Secretary

Date of issue: Thursday, 06 October 2022

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



Planning,
Industry &
Environment

Project summary		
Project name	Lot-3@ 6 Orchard St Warriewood	
Street address	6 Orchard Street Warriewood 2102	
Local Government Area	Northern Beaches Council	
Plan type and plan number	deposited 1212459	
Lot no.	3	
Section no.	-	
Project type	separate dwelling house	
No. of bedrooms	4	
Project score		
Water	✓ 40	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 55	Target 50

Certificate Prepared by

Name / Company Name: Outsource Ideas (ss)

ABN (if applicable): 12130092661

Description of project

Project address	
Project name	Lot-3@ 6 Orchard St Warriewood
Street address	6 Orchard Street Warriewood 2102
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 1212459
Lot no.	3
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m ²)	400
Roof area (m ²)	226
Conditioned floor area (m2)	177.0
Unconditioned floor area (m2)	16.0
Total area of garden and lawn (m2)	70

Assessor details and thermal loads		
Assessor number	n/a	
Certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m ² .year)	n/a	
Area adjusted heating load (MJ/m ² .year)	n/a	
Ceiling fan in at least one bedroom	n/a	
Ceiling fan in at least one living room or other conditioned area	n/a	
Project score		
Water	✔ 40	Target 40
Thermal Comfort	✔ Pass	Target Pass
Energy	✔ 55	Target 50

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
Fixtures			
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.		✓	
Alternative water			
Rainwater tank			
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 150 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"> 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 Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must not have more than 2 storeys.	✓	✓	✓
The conditioned floor area of the dwelling must not exceed 300 square metres.	✓	✓	✓
The dwelling must not contain open mezzanine area exceeding 25 square metres.	✓	✓	✓
The dwelling must not contain third level habitable attic room.	✓	✓	✓
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	✓	✓	✓

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
floor - suspended floor above garage, framed	nil	
external wall - brick veneer	2.06 (or 2.40 including construction)	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 3.45 (up), roof: foil backed blanket (55 mm)	unventilated; medium (solar absorptance 0.475-0.70)
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 3.40 (up), roof: foil backed blanket (55 mm)	framed; medium (solar absorptance 0.475-0.70)

Note	• Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.
Note	• In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doors and skylights			
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door: <ul style="list-style-type: none"> For the following glass and frame types, the certifier check can be performed by visual inspection. <ul style="list-style-type: none"> Aluminium single clear Aluminium double (air) clear Timber/uPVC/fibreglass single clear Timber/uPVC/fibreglass double (air) clear Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35. Unless they have adjustable shading, pergolas must have fixed battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not exceed the height of the battens. 	✓	✓ ✓ ✓	✓ ✓ ✓

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W2 12	2400	1000	aluminium, single, clear	none	not overshadowed
W2 13	2400	1000	aluminium, single, clear	none	not overshadowed
W2 15	2700	3900	aluminium, single, clear	pergola (fixed battens) 3150 mm, 50 mm above head of window or glazed door	not overshadowed
W3 05	600	2600	aluminium, single, clear	none	not overshadowed
W3 03	2100	1990	aluminium, single, clear	none	not overshadowed
East facing					

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading Device (Dimension within 10%)	Overshadowing
W1 05	600	2400	aluminium, single, clear	none	not overshadowed
W2 14	2400	900	aluminium, single, clear	pergola (fixed battens) 4720 mm, 50 mm above head of window or glazed door	not overshadowed
W2 16	2400	900	aluminium, single, clear	none	not overshadowed
W2 17	600	2100	aluminium, single, clear	none	not overshadowed
W2 18	2500	600	aluminium, single, clear	none	not overshadowed
W2 19	2500	600	aluminium, single, clear	none	not overshadowed
W2 2	2500	600	aluminium, single, clear	none	not overshadowed
W3 07	600	2600	aluminium, single, clear	eave 170 mm, 0 mm above head of window or glazed door	not overshadowed
W3 08	2100	600	aluminium, single, clear	eave 170 mm, 100 mm above head of window or glazed door	not overshadowed
W3 06	2100	900	aluminium, single, clear	eave 170 mm, 0 mm above head of window or glazed door	not overshadowed
South facing					
W1 04	2100	600	aluminium, single, clear	eave 150 mm, 50 mm above head of window or glazed door	not overshadowed
W2 05	2700	600	aluminium, single, clear	none	not overshadowed
W2 06	2250	1800	aluminium, single, clear	eave 150 mm, 550 mm above head of window or glazed door	not overshadowed
W2 07	2500	600	aluminium, single, clear	eave 150 mm, 500 mm above head of window or glazed door	not overshadowed
W2 08	2500	600	aluminium, single, clear	eave 150 mm, 500 mm above head of window or glazed door	not overshadowed
W2 09	2500	600	aluminium, single, clear	eave 150 mm, 500 mm above head of window or glazed door	not overshadowed
W2 10	1800	670	aluminium, single, clear	eave 150 mm, 500 mm above head of window or glazed door	not overshadowed
W2 11	600	2100	aluminium, single, clear	none	not overshadowed
W3 04	2100	1670	aluminium, single, clear	none	not overshadowed


Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading Device (Dimension within 10%)	Overshadowing
West facing					
W1 02	2400	610	aluminium, single, clear	none	not overshadowed
W1 03	2400	610	aluminium, single, clear	none	not overshadowed
W2 01	2700	600	aluminium, single, clear	none	not overshadowed
W2 02	2700	600	aluminium, single, clear	none	not overshadowed
W2 02A	1500	600	aluminium, single, clear	none	not overshadowed
W2 03	2700	600	aluminium, single, clear	none	not overshadowed
W2 04	2700	600	aluminium, single, clear	none	not overshadowed
W3 01	600	2550	aluminium, single, clear	eave 170 mm, 140 mm above head of window or glazed door	not overshadowed
W3 02	1618	1130	aluminium, single, clear	eave 170 mm, 210 mm above head of window or glazed door	not overshadowed
W3 09	982	5490	aluminium, single, clear	eave 170 mm, 0 mm above head of window or glazed door	not overshadowed


Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
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 stars.	✔	✔	✔
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 star (average zone)		✔	✔
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 3 star (average zone)		✔	✔
The cooling system must provide for day/night zoning between living areas and bedrooms.		✔	✔
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 star (average zone)		✔	✔
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 3 star (average zone)		✔	✔
The heating system must provide for day/night zoning between living areas and bedrooms.		✔	✔
Ventilation			
<p>The applicant must install the following exhaust systems in the development:</p> <p>At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off</p> <p>Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off</p> <p>Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off</p>		<p style="text-align: center;">✔</p> <p style="text-align: center;">✔</p> <p style="text-align: center;">✔</p>	<p style="text-align: center;">✔</p> <p style="text-align: center;">✔</p> <p style="text-align: center;">✔</p>
Artificial lighting			
<p>The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:</p> <ul style="list-style-type: none"> at least 4 of the bedrooms / study; dedicated 		✔	✔


Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<ul style="list-style-type: none"> • at least 3 of the living / dining rooms; dedicated • the kitchen; dedicated • all bathrooms/toilets; dedicated • the laundry; dedicated • all hallways; dedicated 		<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓
Natural lighting			
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 2 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.