

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

## Single Dwelling

Certificate number: 1342283S

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

**BASIX** 

Date of issue: Wednesday, 05 October 2022

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



Project summary				
Project name	Lot-9 @ 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.	9			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	5			
Project score				
Water	✓ 40 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 55 Target 50			

<b>Certificate Prepared</b>	by
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Name / Company Name: Outsource Ideas (ss)

ABN (if applicable): 12130092661

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## **Description of project**

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Project address			
Project name	Lot-9 @ 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.	9		
Section no.	-		
Project type			
Project type	separate dwelling house		
No. of bedrooms	5		
Site details			
Site area (m²)	406		
Roof area (m²)	165		
Conditioned floor area (m2)	207.0		
Unconditioned floor area (m2)	12.0		
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/m².year)	n/a							
Area adjusted heating load (MJ/m².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							

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## **Schedule of BASIX commitments**

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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.		~	V
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	V
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		<b>~</b>	
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 100 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> <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>v</b>	V

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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.	V	<b>~</b>	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	<b>~</b>	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	<b>V</b>	V
The dwelling must not contain third level habitable attic room.	V	~	V
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.	~	V	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	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: 3.74 (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.

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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.	V	~	~
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	V	~	~
The following requirements must also be satisfied in relation to each window and glazed door:	V	~	~
• For the following glass and frame types, the certifier check can be performed by visual inspection.			V
- 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.		<b>✓</b>	V
<ul> <li>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.</li> </ul>		~	~

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
WG05	2400	1800	aluminium, single, clear	none	not overshadowed
WG06	2400	570	aluminium, single, clear	solid overhang 1540 mm, 530 mm above head of window or glazed door	not overshadowed
WG07	2400	2000	aluminium, single, clear	solid overhang 1540 mm, 530 mm above head of window or glazed door	not overshadowed
WB05	2400	420	aluminium, single, clear	pergola (fixed battens) 2820 mm, 100 mm above head of window or glazed door	not overshadowed

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
WB06	2100	900	aluminium, single, clear	solid overhang 1540 mm, 290 mm above head of window or glazed door	not overshadowed
East facing					
WG08	1500	600	aluminium, single, clear	solid overhang 150 mm, 0 mm above head of window or glazed door	not overshadowed
WG09	1500	600	aluminium, single, clear	solid overhang 150 mm, 0 mm above head of window or glazed door	not overshadowed
WG10	2400	900	aluminium, single, clear	solid overhang 150 mm, 0 mm above head of window or glazed door	not overshadowed
WG11	800	3000	aluminium, single, clear	solid overhang 150 mm, 0 mm above head of window or glazed door	not overshadowed
WB07	2100	2000	aluminium, single, clear	none	not overshadowed
WB08	2100	2000	aluminium, single, clear	none	not overshadowed
WB09	2100	2000	aluminium, single, clear	none	not overshadowed
WB10	2100	900	aluminium, single, clear	none	not overshadowed
WB11	2100	900	aluminium, single, clear	none	not overshadowed
South facing					
WG12	800	3000	aluminium, single, clear	solid overhang 300 mm, 0 mm above head of window or glazed door	not overshadowed
WB12	2400	430	aluminium, single, clear	none	not overshadowed
WB13	1500	600	aluminium, single, clear	none	not overshadowed
WB01	1714	600	aluminium, single, clear	none	not overshadowed
West facing					
WG01	2400	1600	aluminium, single, clear	none	not overshadowed

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
WG02	2400	1800	aluminium, single, clear	solid overhang 300 mm, 0 mm above head of window or glazed door	not overshadowed
WG03	2400	1800	aluminium, single, clear	solid overhang 300 mm, 0 mm above head of window or glazed door	not overshadowed
WG04	2400	600	aluminium, single, clear	none	not overshadowed
WB02	600	2370	aluminium, single, clear	none	not overshadowed
WB03	2400	600	aluminium, single, clear	none	not overshadowed
WB04	2400	600	aluminium, single, clear	none	not overshadowed

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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.	~	<b>✓</b>	-
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)		<b>→</b>	
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.		•	V
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)		<b>→</b>	~
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)		~	V
The heating system must provide for day/night zoning between living areas and bedrooms.		<b>~</b>	-
Ventilation			
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		<b>→</b>	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>✓</b>	-
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>→</b>	-
Artificial lighting			
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:			
at least 4 of the bedrooms / study; dedicated			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 3 of the living / dining rooms; dedicated		~	~
the kitchen; dedicated		V	-
all bathrooms/toilets; dedicated		<b>~</b>	-
the laundry; dedicated		<b>~</b>	V
all hallways; dedicated		<b>~</b>	V
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	<b>~</b>	V
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	V	V
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		<b>~</b>	
The applicant must install a fixed outdoor clothes drying line as part of the development.			

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## Legend

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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.

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