

# BASIX<sup>®</sup>Certificate

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

## Alterations and Additions

Certificate number: A509853\_06

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: Tuesday, 04 June 2024

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



Project address	
Project name	30 George Street Manly_06
Street address	30 GEORGE STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan DP90346
Lot number	2
Section number	-
Project type	
Dwelling type	Dwelling house (attached)
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more, and does not include a pool (and/or spa).
N/A	N/A
Certificate Prepared by <small>(please complete before submitting to Council or PCA)</small>	
Name / Company Name: Sago Design	
ABN (if applicable): 38168100856	

Fixtures and systems	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: gas instantaneous.	✓	✓	✓
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check												
<b>Insulation requirements</b>																	
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m <sup>2</sup> , b) insulation specified is not required for parts of altered construction where insulation already exists.			✔	✔	✔												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #808080; color: white;">Construction</th> <th style="background-color: #808080; color: white;">Additional insulation required (R-value)</th> <th style="background-color: #808080; color: white;">Other specifications</th> </tr> </thead> <tbody> <tr> <td>floor above existing dwelling or building.</td> <td>nil</td> <td>N/A</td> </tr> <tr> <td>external wall: framed (weatherboard, fibro, metal clad)</td> <td>R1.30 (or R1.70 including construction)</td> <td></td> </tr> <tr> <td>flat ceiling, flat roof: framed</td> <td>ceiling: R1.82 (up), roof: foil/sarking</td> <td>light (solar absorptance &lt; 0.475)</td> </tr> </tbody> </table>			Construction	Additional insulation required (R-value)	Other specifications	floor above existing dwelling or building.	nil	N/A	external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)		flat ceiling, flat roof: framed	ceiling: R1.82 (up), roof: foil/sarking	light (solar absorptance < 0.475)			
Construction	Additional insulation required (R-value)	Other specifications															
floor above existing dwelling or building.	nil	N/A															
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)																
flat ceiling, flat roof: framed	ceiling: R1.82 (up), roof: foil/sarking	light (solar absorptance < 0.475)															


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>									
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.							✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:								✓	✓
Each window or glazed door with standard aluminium or timber frames and single clear or toned glass may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.								✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.								✓	✓
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W01	SE	2.89	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W02	NW	0.96	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W05	SE	6.6	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			


Glazing requirements				Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Skylights</b>						
The applicant must install the skylights in accordance with the specifications listed in the table below.				✓	✓	✓
The following requirements must also be satisfied in relation to each skylight:					✓	✓
Each skylight may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below.					✓	✓
<b>Skylights glazing requirements</b>						
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.442	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	0.645	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	0.44	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	0.44	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S5	0.44	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

## 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 & 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 for the development may be issued.