# **BASIX**°Certificate

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

## **Alterations and Additions**

Certificate number: A387622

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 Alterations and Additions Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

### Secretary

Date of issue: Friday, 16, October 2020

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



# Project Street Local Plan t Lot nu Section Project Dwellii Type addition

Project address	
Project name	Park House Addition
Street address	4 Park Avenue Avalon Beach 2107
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan DP13326
Lot number	32
Section number	
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa).

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: CM Studio

ABN (if applicable): 158240996

BASIX Certificate number: A387622 page 2 / 8

Fixtures and systems	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: gas instantaneous.	✓	✓	✓
Lighting	1		
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>~</b>	<b>✓</b>
Fixtures	1		
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.		<b>✓</b>	<b>✓</b>
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.		<b>~</b>	

BASIX Certificate number: A387622 page 3 / 8

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or altere the table below, except that a) additional insula is not required for parts of altered construction	<b>√</b>	<b>✓</b>	<b>√</b>		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor with in-slab heating system.	R1.00 (slab edge)	in-slab heating system			
external wall: cavity brick	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

BASIX Certificate number: A387622 page 4 / 8

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors			
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.	<b>✓</b>	~	<b>✓</b>
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.		✓	<b>✓</b>
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>✓</b>	<b>~</b>
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	<b>✓</b>	<b>✓</b>
For projections described as a ratio, the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below.	✓	<b>✓</b>	<b>✓</b>
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.		✓	✓
Pergolas with fixed battens must have 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 be more than 50 mm.		<b>✓</b>	~
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	<b>✓</b>	<b>✓</b>	<b>✓</b>
Windows and glazed doors glazing requirements			

BASIX Certificate number: A387622 page 5 / 8

							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
WG-01	S	4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-02	S	4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-03	W	2	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-04	W	2	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-05	W	2	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-06	S	2	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-07	W	3	4.9	3.1	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WG-08	N	24	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WG-09	N	5	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-10	Е	6	14	2	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-11	Е	7	3.3	6.7	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-12	N	2	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
WG-13	E	3	0.9	4.52	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A387622 page 6 / 8

Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check		
Window / doo	r Orientation	Area of	Oversha	adowing	Shading device	Frame	and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)						
WG-14	E	2	0.9	6.32	projection/height above sill ra >=0.43		ard aluminium, single clear, (or ie: 7.63, SHGC: 0.75)			
WG-15	E	2	0	0	projection/height above sill ra >=0.43		ard aluminium, single clear, (or ie: 7.63, SHGC: 0.75)			
WG-16	S	3	0	0	eave/verandah/pergola/balco >=900 mm		ard aluminium, single clear, (or ie: 7.63, SHGC: 0.75)			
W1-01	S	5	0	0	none		ard aluminium, single clear, (or ie: 7.63, SHGC: 0.75)			
W1-02	N	3	0	0	projection/height above sill ra >=0.23		ard aluminium, single pyrolytic low-e, ue: 5.7, SHGC: 0.47)			
W1-03	N	3	0	0	projection/height above sill ra >=0.23		ard aluminium, single pyrolytic low-e, ue: 5.7, SHGC: 0.47)			
Skylights										
The applicant	must install th	e skylight	s in acco	rdance with t	ne specifications listed in the ta	able below.		<b>✓</b>	<b>✓</b>	✓
The following	requirements	must also	be satisf	ied in relation	to each skylight:				✓	✓
Each skylight the table below		tch the de	escription	, or, have a l	J-value and a Solar Heat Gain	Coefficient (S	SHGC) no greater than that listed in		<b>✓</b>	<b>✓</b>
Skylights g	lazing requ	uiremen	its							
Skylight numb	oer Area of ginc. fram		Shading	g device	Frame	e and glass ty	pe			
S1	3		no shad	ling		r, low-E interr ue: 2.5, SHG0	nal/argon fill/clear external, (or C: 0.456)			
S2	3		no shad	ling	timber	r, low-E interr	nal/argon fill/clear external, (or			

BASIX Certificate number: A387622 page 7 / 8

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check		
	a of glazing frame (m2)	Frame and glass type			
		U-value: 2.5, SHGC: 0.456)			

BASIX Certificate number: A387622 page 8 / 8

### 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.