## **BASIX** Certificate

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

## Alterations and Additions

Certificate number: A378485

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

Secretarv Date of issue: Thursday, 28, May 2020 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

	oject address oject name	Ms. Deborah Cooper
St	reet address	22 Coora Avenue Belrose 2085
Lo	cal Government Area	Northern Beaches Council
Pla	an type and number	Deposited Plan 227151
Lo	t number	4
Se	ection number	
Pr	oject type	
Dv	velling type	Separate dwelling house
-	pe of alteration and	My renovation work is valued at \$50,000 or more and includes a pool (and/or spa).

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

Name / Company Name: JAH Design Services

ABN (if applicable): 22630690834

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Outdoor swimming pool			
The swimming pool must be outdoors.	$\checkmark$	$\checkmark$	$\checkmark$
The swimming pool must not have a capacity greater than 31.2 kilolitres.	$\checkmark$	$\checkmark$	$\checkmark$
The swimming pool must have a pool cover.		$\checkmark$	$\checkmark$
The applicant must install a pool pump timer for the swimming pool.		$\checkmark$	$\checkmark$
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		$\checkmark$	$\checkmark$

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Lighting			
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.		~	~
Fixtures			
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.		$\checkmark$	~
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.		$\checkmark$	~
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.		$\checkmark$	

external wall: brick veneer

flat ceiling, pitched roof

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
nsulation requirements			I	1	
	llation is not required where the area of new cor	fs) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	~	~	~
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
external wall: external insulated façade system (EIFS)(façade panel: 70 mm)	nil				

dark (solar absorptance > 0.70)

R1.16 (or R1.70 including construction)

(55 mm)

ceiling: R1.95 (up), roof: foil backed blanket

0	requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	s and glazed do	ors					l	l	I
	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 follov	The following requirements must also be satisfied in relation to each window and glazed door:							$\checkmark$	$\checkmark$
have a U-	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 eave, pergola, verandah, bal	cony or awning must be no more than 500 mm	~	$\checkmark$	~
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.							$\checkmark$	$\checkmark$	
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.							$\checkmark$	~	
Windov	ws and glazed o	doors gl	lazing r	equireme			-		
Window /	ws and glazed of / door Orientation	Area of	Oversha	dowing		Frame and glass type	-		
				· ·	nts	Frame and glass type			
Window /		Area of glass inc. frame	Oversha Height	dowing Distance	nts	Frame and glass type standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Window / no.	/ door Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	nts Shading device eave/verandah/pergola/balcony	standard aluminium, single clear, (or			
Window / no. W1	/ door Orientation N W	Area of glass inc. frame (m2) 2.16	Oversha Height (m) 0	Distance (m)	Shading device         Shading device         eave/verandah/pergola/balcony         >=900 mm         eave/verandah/pergola/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) standard aluminium, single clear, (or			
Window / no. W1 D1 Skylights	/ door Orientation N W S	Area of glass inc. frame (m2) 2.16 5.04	Oversha Height (m) 0	Distance (m) 0	Shading device         Shading device         eave/verandah/pergola/balcony         >=900 mm         eave/verandah/pergola/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)		✓	
Window / no. W1 D1 Skylights The applie	/ door Orientation N W S	Area of glass inc. frame (m2) 2.16 5.04 e skylights	Oversha Height (m) 0 0 s in accor	Distance (m) 0 0 dance with t	Shading device         Shading device         eave/verandah/pergola/balcony         >=900 mm         eave/verandah/pergola/balcony         >=900 mm         he specifications listed in the table balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	~		

Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
the table below.						
Skylights glaz	ing requiremer	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.92	no shading	aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)			

## 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.