BASIX Certificate

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

Alterations and Additions

Certificate number: A470828

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: Monday, 26, September 2022

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



Description of project

Project address	
Project name	HARTLEY RESIDENCE
Street address	60 HUDSON PARADE CLAREVILLE 2107
Local Government Area	Pittwater Council
Plan type and number	Deposited Plan DP 7794
Lot number	56
Section number	
Project type	
Project type Dwelling type	Separate dwelling house
	Separate dwelling house 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: Bennett Murada Architects

ABN (if applicable): 97191617829

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 2056 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 rainwater runoff from at least 90 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 75 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar (electric boosted).		✓	✓

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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: electric storage plus photovoltaic system.	✓	✓	✓
The applicant must install a photovoltaic system with a capacity to generate at least 2.9 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	✓	✓	✓
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.		~	✓
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.		✓	✓
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.		✓	

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Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Insulation requirements						
The applicant must construct the new or altered the table below, except that a) additional insulat is not required for parts of altered construction v	√	√	√			
Construction	truction Additional insulation required (R-value) Other specifications					
concrete slab on ground floor.	nil					
suspended floor with open subfloor: concrete (R0.6).	R0.9 (down) (or R1.50 including construction)					
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)					
external wall: concrete panel/plasterboard (concrete: 200 mm)	R1.35 (or R1.70 including construction)					
internal wall shared with garage: plasterboard (R0.36)	nil					
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)				
flat ceiling, flat roof: concrete/bare internal	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)				

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Glazing requ	Glazing requirements								Certifier Check
Windows an	d glazed do	oors							
The applicant Relevant overs		✓	✓	✓					
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.								✓	✓
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.								✓	✓
Pergolas with	polycarbonat	e roof or s	imilar trar	slucent mate	erial must have a shading coefficien	nt of less than 0.35.		✓	V
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowin specified in the					nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows a	nd glazed	doors g	lazing r	equireme	nts				
Window / doo no.	r Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
WLG.1	W	6.2	13.5	6.5	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
WLG.2	N	7.9	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
WLG.6	N	4.1	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
WLG.7	W	2.2	7.2	2	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	glass inc. frame	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
		(m2)							
W1.6, W1.7	N	7.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W1.8	N	3.1	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W1.9	N	5.8	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W1.10	E	2.3	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W1.11,1.12	S	5.3	0	0	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W1.13	W	1.25	4.5	2	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.5	N	1.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.6	W	3.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.7	N	4.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.8	E	1.5	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.9	N	1.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.10	N	7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.11	E	3.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			

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Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of glass	Oversha		Shading device	Frame and glass type			
		inc. frame (m2)	Height (m)	Distance (m)					
W2.12	E	2.9	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W213,14,15	S	8.5	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.21	N	10.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.22	N	8.6	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.23	N	10.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W3.1 32 33	W	17	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W3.4	E	11.6	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W3.5	E	2.7	2.7	1.2	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.1	W	2	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.2	N	3.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.3	W	2.8	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.4,W4.5	N	1.9	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.6	N	4.7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			

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Glazing req	Glazing requirements								Certifier Check
Window / doo	r Orientation		Oversh	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W4.7	N	3.7	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.8	N	2.4	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.9	S	3.24	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
WLG.5	E	6.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W2.16	W	2.2	2.8	2	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W3.6	N	2.7	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W3.7	W	2.6	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W4.10	W	3.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
WR.3,4,5	N	5	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
Skylights									
The applicant must install the skylights in accordance with the specifications listed in the table below.						✓	✓	✓	
The following	The following requirements must also be satisfied in relation to each skylight:							✓	✓
Each skylight the table below		atch the de	escription	, or, have a l	J-value and a Solar Heat Gain Coef	ficient (SHGC) no greater than that listed in		✓	✓

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Glazing require	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
Skylights glaz	ing requiremen	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1.1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	0.8	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	0.3	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

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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.