BASIX Certificate

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

Alterations and Additions

Certificate number: A502728

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: Thursday, 07, September 2023

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



Project address Project name 373 Harley Residence 23 Mortimer street Street Mudgee 2850 Street address Mid-Western Regional Council Local Government Area Deposited Plan 153706 Plan type and number 3 Lot number Section number Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, addition and does not include a pool (and/or spa).

escriptio

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

Name / Company Name: Cameron Anderson Architects

ABN (if applicable): 78385853147

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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 heat pump system that is eligible to create Renewable Energy Certificates under the (Commonwealth) Renewable Energy (Electricity) Regulations 2001 (incorporating Amendment Regulations 2005 (No. 2)).	√	V	~
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		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 alterer the table below, except that a) additional insular is not required for parts of altered construction	V	V	~		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R1.95 (up), roof: foil backed blanket (55 mm)	dark (solar absorptance > 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors							
The applicant r Relevant overs	✓	✓	✓						
The following re	equirements	must also	be satisfi	ed in relatior	to each window and glazed door:			✓	✓
have a U-value must be calcula	and a Solar ated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the tab	ear glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	~
					each eave, pergola, verandah, bal Than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
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.								✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.								✓	✓
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.								✓	✓
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.								✓	✓
Windows ar	nd glazed (doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
DE0.06	NW	5.25	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.06	NW	1.9	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.07	NW	1.9	0	0	eave/verandah/pergola/balcony	standard aluminium, clear/air gap/clear,			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
					>=750 mm	(U-value: 5.34, SHGC: 0.67)			
DE0.07	NW	3.5	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.08	NW	3.5	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
W0.09	NW	3.4	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.10	NE	4.9	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.09	NE	3.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.01	NE	2.2	2.1	1.4	eave/verandah/pergola/balcony >=450 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.01	NE	2.2	2.1	1.4	eave/verandah/pergola/balcony >=450 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.05	NE	8.6	3.7	2.2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.02	SE	2.1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.03	SE	2.1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.04	SE	2.1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.02	SW	8.6	0	0	projection/height above sill ratio >=0.43	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
DE0.03	SW	4.3	0	0	projection/height above sill ratio	standard aluminium, clear/air gap/clear,			

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Glazing requ	irements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device		Frame and glass type			
					>=0.43		(U-value: 5.34, SHGC: 0.67)			
DE0.04	SW	6.4	0	0	projection/height above sil >=0.43		standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.05	SW	5.4	3.7	2.2	none		standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W0.08	NE	0.5	1.5	0.9	none		standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
Skylights										
	nust install th	e skylight	s in accoi	rdance with the	ne specifications listed in the	e table be	low.		√	
The following re	equirements i	must also	be satisfi	ied in relation	to each skylight:			-	./	.,
•	•					. 0 "	: . (01100)		٧,	٧,
the table below		tcn tne de	escription	, or, nave a C	J-value and a Solar Heat Ga	ain Coeffic	cient (SHGC) no greater than that listed in			
Skylights gl	azing requ	ıiremen	ts							
Skylight numbe	er Area of o		Shading	g device	Fra	me and g	lass type			
S1	0.8		no shad	ling	timb	ber, doub	le clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.6		no shad	ling	timb	ber, doub	le clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S3	0.6		no shad	ling	timb	ber, doub	le clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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.