page 1/7

BASIX Certificate

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

Alterations and Additions

Certificate number: A351556 02

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: Tuesday, 21, January 2020 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project address			
Project name	KING_40 Iris Street, Frenchs Forest_02		
Street address	40 Iris Street Frenchs Forest 2086		
Local Government Area	Warringah Council		
Plan type and number	Deposited Plan 210469		
Lot number	8		
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: Sally Gardner Design and Draft

ABN (if applicable): 17 751 732 195

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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	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.		\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	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
	construction (floor(s), walls, and ceilings/roofs) ion is not required where the area of new constr where insulation already exists.		~	~	~
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
suspended floor above garage: framed (R0.7).	nil				
floor above existing dwelling or building.	nil				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
internal wall shared with garage: plasterboard (R0.36)	nil				
flat ceiling, pitched roof	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

Glazing re	equirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows a	and glazed do	ors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	 	~	~
The followin	ng requirements	must also	be satisfi	ed in relatio	n to each window and glazed door:			\checkmark	\checkmark
have a U-va must be cal	alue and a Solar culated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) I Fenestratio	no greater than that listed in the tab	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	~
	ons described in head of the windo	cony or awning must be no more than 500 mm	\checkmark	~	\checkmark				
	ons described as nown in the table		ne ratio of	f the projecti	on from the wall to the height above	e the window or glazed door sill must be at	\checkmark	\checkmark	~
Pergolas wi	ith polycarbonate	e roof or s	milar trar	slucent mat	erial must have a shading coefficien	nt of less than 0.35.		\checkmark	\checkmark
Pergolas wi shades a pe	ith fixed battens i erpendicular wind	must have dow. The	e battens spacing b	parallel to th between batt	e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	\checkmark
Windows	and glazed o	doors g	lazing r	equireme	nts		-		
Window / d no.	loor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W1	N	4.18	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3	E	0.44	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W4	E	0.99	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W5	E	1.56	0	0	projection/height above sill ratio	improved aluminium, single toned,			

Glazing requirements									Certifier Check
Window / doc	or Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=0.29	(U-value: 6.39, SHGC: 0.56)			
W7	S	2.64	0	0	projection/height above sill ratio >=0.29	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W8	S	3.3	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W9	W	1.22	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W10	W	1.22	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W12	W	0.44	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	N	1.08	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D15	N	7.58	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W16	N	0.94	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D17	N	6.57	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W21	E	2.04	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W22	S	0.6	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D23	S	2.18	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W24	S	0.6	0	0	eave/verandah/pergola/balcony	improved aluminium, single clear, (U-value:			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)							
					>=900 mm	6.44, SHGC: 0.75)			
W26	W	2.81	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W27	W	1.45	0	0	projection/height above sill ratio >=0.36	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights									
The applicant m	ust install the	e skylight	s in accor	dance with th	e specifications listed in the table b	pelow.	\checkmark	\checkmark	\checkmark
The following re	quirements r	nust also	be satisfi	ed in relation	to each skylight:			\checkmark	\checkmark
Each skylight m the table below.		tch the de	escription,	or, have a U	-value and a Solar Heat Gain Coef	ficient (SHGC) no greater than that listed in		~	~
Skylights gla	azing requ	iiremen	ts						
Skylight numbe									
S1	0.33		no shadi	ing	aluminium, 6.21, SHG(
S2	0.33		no shadi	ading aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)					
S3	0.33		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 "
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"
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.