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BASIX Certificate

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

Alterations and Additions

Certificate number: A336632

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: Wednesday, 19, December 2018 To be valid, this certificate must be lodged within 3 months of the date of issue.



Draiget name	E19061 Alto 8 Adda Apt 4 8 7
Project name	E18061 - Alts & Adds - Apt 4 & 7
Street address	307 Sydney Road Balgowlah 2093
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan DP335027
Lot number	D
Section number	-
Project type	
Dwelling type	Unit
Type of alteration and addition	My renovation work is valued at \$50,000 or mo

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

Name / Company Name: Credwell Energy

ABN (if applicable): 625598352

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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			
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					
	d construction (floor(s), walls, and ceilings/roofs) tion is not required where the area of new const where insulation already exists.		~	~	~
Construction	Additional insulation required (R-value)	Other specifications			
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)				
flat ceiling, flat roof: framed	ceiling: R0.90 (up), roof: foil backed blanket (55 mm)	light (solar absorptance < 0.475)			

Glazing req	uirements	_					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows an	d glazed do	oors							
					nading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	\checkmark	\checkmark	~
The following	requirements	must also	be satisfi	ed in relation	to each window and glazed door:			\checkmark	\checkmark
have a U-valu must be calcu	e and a Solar lated in accor	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestratior	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		~	~
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	\checkmark	\checkmark	~
For projection least that show			ne ratio of	the projection	on from the wall to the height above	e the window or glazed door sill must be at	\checkmark	\checkmark	~
Pergolas with	polycarbonate	e roof or si	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		\checkmark	~
External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.							\checkmark	~	
					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
Overshadowir specified in th					nt and distance from the centre and	the base of the window and glazed door, as	\checkmark	\checkmark	~
Windows a	nd glazed	doors g	lazing r	equiremer	nts				
Window / doc	r Orientation		Oversha	<u> </u>	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
Apt 4 - F	N	3	8	9.3	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - F	N	1.3	8	9.3	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
Apt 4 - F	N	3	8	9.3	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - LK	E	2.6	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - LK	S	13	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - B3	S	9.3	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - L	S	1.3	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - B1	W	2.45	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - B1	W	1.48	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - B1	E	5.6	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - B2	E	4.2	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - B1	E	6.1	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - B2	E	4.6	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - L	N	11.6	4	9.3	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - S	N	2.4	4	9.3	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

Glazing requirements						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)	adowing Distance (m)	Shading device	Frame and glass type			
Apt 7 - L	S	13.3	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - B3	S	9.3	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - L	S	1.3	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - K	E	0.81	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - K	E	1.2	5	6	projection/height above sill ratio >=0.29	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 4 - K	N	3	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt -7 B1	W	2.1	0	0	external louvre/blind (adjustable)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt -7 B1	W	4.5	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Apt 7 - RL	N	3.5	5	13	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
Apt 7 - RL	N	3.5	5	13	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			

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.



ABN 65 625 598 352 Suite 4a1, 410 Elizabeth St Surry Hills, NSW 2010 info@credwell.com.au (02) 9281 8555

BASIX Certificate Summary

ASSESSOR DETAILS		
Name:	Padraig Healy	
Direct Number:	0498 051 209	
Office:	(02) 9281 8555	
AAO:	ABSA	
Assessor Number:	101026	
Project Name:	E18061	
Software:	BERS Pro v4.3.0.2d (3.13)	
Date:	26/07/2019	
BASIX Certificate Number:	981179M_02	
Group Certificate Number:	0004058830	
Sun Property Pty Ltd	Sun Property Pty Ltd	
Client Phone:	-	
Client Email:	-	

NB – Refer to BASIX Alts & Adds Cert for commitments to Units 4 & 7.

NCC COMPLIANCE Building compliance is required to comply with the 'New South Wales Additions' in the NCC 2017- Volume 1. Building thermal construction in accordance with part J1.2 ٠ If metal, framed sarking of R0.2 is required between stud and cladding as a thermal break ٠ Loss of ceiling insulation is compensated for by increased roof insulation in accordance with Part J1.3(c) . Any roof lights, windows, doors and exhaust fans are sealed in accordance with Part J3 • Any new air-conditioning system is installed in accordance with Parts J5.2(a), J5.2(b), J5.2(c), J5.2(d), J5.2(f) & J5.2(g) ٠ Any new mechanical ventilation system is installed in accordance with Part J5.3. ٠ Any new miscellaneous exhaust system is installed in accordance with Part J5.4. ٠ Any new heated hot water system is installed in accordance with Part J7.2 ٠ ٠ Any new energy monitoring equipment is installed in accordance with Part J8.3.





Energy Sect. J. JV3. BASIX. NABERS

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BASIX TECHNICAL NOTES – Defaults if not determined

- Medium coloured external walls
- Walls to common areas modelled as external with zero solar absorptance
- All ensuites are treated as conditioned
- Spaces without an openable window / door are included in the zone which they are accessed
- No mechanical heating or cooling appliances are modelled, including ceiling fans

NatHERS TECHNICAL NOTES – Defaults if not determined

- Models rated with no downlights
- Light coloured roof for temperate or cool climates
- Kitchens / wet areas tiled
- All other internal areas carpet
- Sealed vents to wet areas / laundry / kitchen
- Single story dwellings within 10m modelled as obstruction
- Double story dwellings within 20m modelled as obstruction
- Structures located at South are not modelled as obstruction





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BASIX Certificate Commitments:

Water	Pass - 41 %
Rainwater Tank:	Nil
Landscape:	338m ² common landscape
Water Taps:	6-star
Showerheads:	3-star (6-7.5 L/min)
Toilet Flusher:	4-star

Thermal Comfort	Pass - 6.6 Star Overall Average			
	If Fixed/Sliding Glazing	If Awning/Bi-Fold		
Glazing:	Units: 1,2,3, 5, 6 & 8	Units: 1,2,3, 5, 6 & 8		
Glazing.	Thermal Specs: U-value 4.2 or lower	Thermal Specs: U-value 4.2 or lower & SHGC of		
	& SHGC of 0.53 (+/- 5%)	0.53 (+/- 5%)		
External Walls:	Type: AAC 75mm	Insulation: R2.50 reflective insulation		
Inter-Tenancy:	Type: Double Stud	Insulation: Nil		
Internal Walls:	Type: Stud	Insulation: Nil		
Open Suspended Floors:	Type: Timber/Concrete	Insulation: R2.50 reflective insulation		
Ceiling Cavity:	Type: Plasterboard	Insulation: R4.0 insulation		
Exposed Roof:	Туре:	Insulation: R1.30 reflective insulation		

Energy	Pass - 51%	
		LED's
Common Aroosi	Lighting	Daylight and motion sensors to car-parking
Common Areas:	Lifts	VVVF motor
	Ventilation	Nil to car-parking
	Hot Water	Individual 6-star gas instantaneous
	Heating/Cooling	4-star heating & 3.5-star cooling
	Lighting	LED's
Dwellings:		WC & Laundry interconnected to light and
	Ventilation	ducted to facade
	Appliances	Gas cooktop & electric oven
	Fridge Space	Well ventilated



