

BASIX Certificate

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

Alterations and Additions

Certificate number: A19333

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 29/9/2006 published by Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Monday, 24, September 2007



NSW GOVERNMENT
Department of Planning

Project Address	
Project name	Wills Project 23/9/07
Street address	143 Prince Alfred Parade Newport 2106
Local Government Area	Pitwater Council
Plan type and number	Deposited Plan 13457
Lot number	45
Section number	0
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).

Fixtures and systems	Show on BASIX Plans	Show on Energy BASIX Plans	Energy BASIX Plans
<p>Hot water</p> <p>The applicant must install the following hot water system in the development: gas instantaneous.</p>	✓	✓	✓
<p>Lighting</p> <p>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.</p>	✓	✓	✓
<p>Fixtures</p> <p>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.</p> <p>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.</p> <p>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.</p>	✓	✓	✓

Construction

Shading
Devices

Shading
Devices
Spec.

Ceiling
Check

Insulation requirements

The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m², b) insulation specified is not required for parts of altered construction where insulation already exists.

✓

✓

✓

Construction	Additional insulation required (R-value)	Other specifications
floor above existing dwelling or building.	nil	
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)	
raked ceiling, pitched/skillion roof: framed	ceiling: R2.50 (up), roof: foil/sarking	dark (solar absorptance > 0.70)

Glazing equipment	Show on Plans	Show on CC/CDD Plans & Specs	Certified Check
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Windows and glazed doors

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 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 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.

Windows and glazed doors glazing requirements

Window or door no.	Orientation	Area of glass inc. frame (m ²)	Overshadowing Height (m)	Distance (m)	Shading Device	Frame and glass type
W1	N	3.24	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)
W2	N	0.82	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)
W3	N	3.75	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)
W4	W	5.25	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)
W5	W	4.4	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)

							✓	✓	✓
							✓	✓	✓
							✓	✓	✓
							✓	✓	✓
							✓	✓	✓

Glazing requirements				Shading device		Frame or glass type		Show on DA Plans	Show on Council Plans & Specs	Self-check
Window Label	Orientation	Area of glass inc. frame (m ²)	Overhanging Height (m)	Overhanging Distance (m)						
W6	W	1.08	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W7	S	3.24	0	0	none	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W8	N	3.26	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W9	N	3.26	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W10	W	17	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W11	S	2.6	0	0	eave/verandah/pergolaba/cony >=600 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W11A	S	0.65	0	0	eave/verandah/pergolaba/cony >=600 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W12	S	2.1	0	0	eave/verandah/pergolaba/cony >=600 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W13	E	2.1	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W14	E	3.28	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W15	E	3.74	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W16	N	3.48	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				
W17	N	4.24	0	0	eave/verandah/pergolaba/cony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)				

Glazing requirements							Shading device plan	Shading device spec	Compliance check
Window door no	Orientation	Area of glass inc frame (m ²)	Overhanging Height (m)	Distance (m)	Shading device	Frame or glass type			
W18	W	1.7	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear. (or U-value: 5.71, SHGC: 0.66)			

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.