

BASIX Certificate

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

Alterations and Additions

Certificate number: A33454

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 29/9/2008 published by Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Thursday, 24, April 2008



NSW GOVERNMENT
Department of Planning

Description of project

Project address	
Project name	Johnston
Street address	5 Ronald Avenue Harbord 2096
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 14564
Lot number	8
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 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.		✓	✓

Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors								
<p>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.</p> <p>The following requirements must also be satisfied in relation to each window and glazed door:</p> <p>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.</p> <p>Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must 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. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.</p> <p>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.</p> <p>Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.</p> <p>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.</p>						✓	✓	✓
Windows and glazed doors glazing requirements								
Window / door no.	Orientation	Area of glass inc. frame (m ²)	Overshadowing		Shading device	Frame and glass type		
			Height (m)	Distance (m)				
W1	W	3.54	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)		
W2	W	6.3	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)		
W3	N	1.99	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)		

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m ²)	Overshadowing		Shading device	Frame and glass type			
			Height (m)	Distance (m)					
W4	N	1.99	0	0	eave/verandah/ pergola/balcony >=600 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W5	E	6.06	0	0	eave/verandah/ pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W6	E	6.06	0	0	eave/verandah/ pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W7	W	4.07	0	0	eave/verandah/ pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W8	W	4.07	0	0	eave/verandah/ pergola/balcony >=900 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W9	N	2.61	0	0	eave/verandah/ pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	E	1.8	0	0	eave/verandah/ pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	E	6.88	0	0	eave/verandah/ pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12	E	6.88	0	0	eave/verandah/ pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	S	2.31	0	0	eave/verandah/ pergola/balcony >=450 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W14	E	7.2	0	0	eave/verandah/ pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights									
The applicant must install the skylights in accordance with the specifications listed in the table below.							✓	✓	✓

Glazing requirements				Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check								
<p>The following requirements must also be satisfied in relation to each skylight:</p> <p>Each skylight 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.</p>					✓	✓								
<p>Skylights glazing requirements</p> <table border="1"> <thead> <tr> <th>Skylight number</th> <th>Area of glazing inc. frame (m2)</th> <th>Shading device</th> <th>Frame and glass type</th> </tr> </thead> <tbody> <tr> <td>S1</td> <td>1.09</td> <td>no shading</td> <td>timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)</td> </tr> </tbody> </table>				Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type	S1	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)		✓	✓
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type											
S1	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)											

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.