BASIX Certificate

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

Alterations and Additions

Certificate number: A404869 03

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: Friday, 02, September 2022

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



Project address Project name Street address Local Government Area Plan type and number Lot number Section number Project type Dwelling type Type of alteration and addition

escripti

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

1708b House Alterations 03

Northern Beaches Council
Deposited Plan 1132852

Separate dwelling house

1

18-20 Sturdee Lane Lovett Bay 2105

My renovation work is valued at \$50,000 or more,

and does not include a pool (and/or spa).

Name / Company Name: James de Soyres and Associates Pty Ltd

ABN (if applicable): 50084840648

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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)). | ✓ | ~ | ~ |
| 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. | | V | ✓ |
| 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 | | | |
| suspended floor with open subfloor: framed (R0.7). | R0.8 (down) (or R1.50 including construction) | | | | |
| floor above existing dwelling or building. | nil | | | | |
| external wall: framed (weatherboard, fibro, metal clad) | R1.30 (or R1.70 including construction) | | | | |
| flat ceiling, pitched roof | ceiling: R1.45 (up), roof: foil backed blanket (75 mm) | medium (solar absorptance 0.475 - 0.70) | | | |
| raked ceiling, pitched/skillion roof: framed | ceiling: R1.74 (up), roof: foil backed blanket (75 mm) | medium (solar absorptance 0.475 - 0.70) | | | |

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| Glazing requirements | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|--|---------------------|---------------------------------------|--------------------|
| 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. | | ✓ | ~ |
| 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. | | ✓ | ✓ |
| 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. | ✓ | ~ | ✓ |
| 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 and glazed doors glazing requirements | | | |
| Window / door no. Orientation Area of glass inc. frame (m2) Overshadowing Shading device Frame and glass type Shading device Frame and glass type Frame and glass type Frame and glass type Overshadowing Shading device Frame and glass type Overshadowing Height (m) Overshadowing Overshadowing Shading device Frame and glass type Overshadowing Shading device Frame and glass type Overshadowing Overshadowing Overshadowing Height (m) Overshadowing Overshadowing Shading device Frame and glass type Overshadowing Overshadowing Overshadowing Overshadowing | | | |
| 2J-01 W 1.79 0 projection/height above sill ratio standard aluminium, single clear, (or beginning to be seen to be standard aluminium, single clear, (or be seen to be seen to be standard aluminium, single clear, (or be seen to be s | | | |

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| Glazing requirements | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check | |
|----------------------|-----------------|--------------------------------|---------------|-----------------|---|--|---------------------------------------|--------------------|----------|
| Window / door | Orientation | Area of | Oversha | adowing | Shading device | Frame and glass type | | | |
| no. | | glass inc. frame (m2) | Height (m) | Distance (m) | | | | | |
| 2J-02 | S | 2.12 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 2J-03 | E | 1.01 | 7.4 | 3.7 | projection/height above sill ratio >=0.43 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 2J-04 | E | 1.89 | 0 | 0 | projection/height above sill ratio >=0.43 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 2J-05 | E | 2.8 | 9.2 | 5.7 | projection/height above sill ratio >=0.23 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 2J-06 | N | 0.94 | 1.8 | 1 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 3J-01 | N | 1.14 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| 3J-02 | Е | 2.34 | 0 | 0 | projection/height above sill ratio >=0.43 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 3J-03 | N | 4.29 | 0 | 0 | eave/verandah/pergola/balcony >=750 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 3J-04 | W | 1.43 | 0 | 0 | eave/verandah/pergola/balcony >=750 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 3J-05 | S | 0.88 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| 3J-06 | S | 1.57 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| Skylights | | | | | | | | | |
| The applicant r | nust install th | e skylight | s in accor | dance with t | he specifications listed in the table b | pelow. | ✓ | ✓ | ✓ |

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| Glazing require | ements | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|---|---------------------------------|----------------------------------|--|---------------------|---------------------------------------|--------------------|
| The following requ | uirements must also | be satisfied in relation to each | skylight: | | ✓ | ✓ |
| 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. | | | | | ✓ | ✓ |
| Skylights glaz | ing requiremen | nts | | | | |
| Skylight number | Area of glazing inc. frame (m2) | Shading device | Frame and glass type | | | |
| S1 | 0.4 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |
| S2 | 0.8 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |

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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.