

BASIX[®]Certificate

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

Alterations and Additions

Certificate number: A1739254_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 Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Wednesday, 27 March 2024

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



Project address

| | |
|-----------------------|---------------------------------|
| Project name | 14 Lillihina Avenue Cromer_02 |
| Street address | 14 LILLIHINA Avenue CROMER 2099 |
| Local Government Area | Northern Beaches Council |
| Plan type and number | Deposited Plan DP206838 |
| Lot number | 8 |
| Section number | N/A |

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). |
| N/A | N/A |

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

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82116346082

| 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. | | ✓ | ✓ |
| 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. | | ✓ | |

| Construction | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier 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 | | | |
| suspended floor with open subfloor: framed (R0.7). | R0.8 (down) (or R1.50 including construction) | N/A | | | |
| suspended floor with enclosed subfloor: framed (R0.7). | R0.60 (down) (or R1.30 including construction) | N/A | | | |
| floor above existing dwelling or building. | nil | N/A | | | |
| external wall: brick veneer | R1.16 (or R1.70 including construction) | | | | |
| flat ceiling, pitched roof | ceiling: R3.00 (up), roof: foil/sarking | dark (solar absorptance > 0.70) | | | |

| 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 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. | ✓ | ✓ | ✓ |


| Glazing requirements | | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|--|-------------|--|-----------------------------|-------------------------------|-------------------|---|---------------------|---------------------------------|--------------------|
| Windows and glazed doors glazing requirements | | | | | | | | | |
| Window/door number | Orientation | Area of glass including frame (m2) | Overshadowing height (m) | Overshadowing distance (m) | Shading device | Frame and glass type | | | |
| W01 | W | 3.97 | 0 | 0 | none | timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19) | | | |
| W02 | W | 2.18 | 0 | 0 | none | timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19) | | | |
| W03 | W | 2.18 | 0 | 0 | none | timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19) | | | |
| W04 | S | 1.14 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W05 | S | 0.48 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |


| Glazing requirements | | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|-----------------------|-------------|--|-----------------------------|-------------------------------|-------------------|--|---------------------|---------------------------------|--------------------|
| Window/door number | Orientation | Area of glass including frame (m2) | Overshadowing height (m) | Overshadowing distance (m) | Shading device | Frame and glass type | | | |
| W06 | S | 0.48 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W07 | S | 0.48 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W08 | S | 1.5 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W09 | E | 1.5 | 0 | 0 | none | aluminium: thermally broken, double Lo-Tsol/air gap/clear , (U-value: 3.1, SHGC: 0.27) | | | |
| W10 | E | 1.5 | 0 | 0 | none | aluminium: thermally broken, double Lo-Tsol/air gap/clear , (U-value: 3.1, SHGC: 0.27) | | | |


| Glazing requirements | | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|--|-------------|--|-----------------------------|-------------------------------|---|--|---------------------|---------------------------------|--------------------|
| Windows and glazed doors glazing requirements | | | | | | | | | |
| Window/door number | Orientation | Area of glass including frame (m2) | Overshadowing height (m) | Overshadowing distance (m) | Shading device | Frame and glass type | | | |
| W11 | E | 1.85 | 0 | 0 | none | aluminium: thermally broken, double Lo-Tsol/air gap/clear , (U-value: 3.1, SHGC: 0.27) | | | |
| W12 | N | 1.26 | 0 | 0 | projection/ height above sill ratio >=0.29 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W13 | N | 1.3 | 0 | 0 | projection/ height above sill ratio >=0.36 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W14 | N | 0.87 | 0 | 0 | projection/ height above sill ratio >=0.36 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W15 | N | 0.87 | 0 | 0 | projection/ height above sill ratio >=0.36 | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |

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.