

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

Single Dwelling

Certificate number: 1025194S_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 Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Tuesday, 13 August 2019

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



| Project summary | | | | | |
|---------------------------|----------------------------------|--------------------------|--|--|--|
| Project name | 48 GOONDARI ROA HEIGHTS 21_03 | D ALLAMBIE | | | |
| Street address | 48 GOONDARI Road 2100 | ALLAMBIE HEIGHTS | | | |
| Local Government Area | Northern Beaches Co | Northern Beaches Council | | | |
| Plan type and plan number | deposited 247868 | | | | |
| Lot no. | 12 | | | | |
| Section no. | 116 | 116 | | | |
| Project type | separate dwelling ho | use | | | |
| No. of bedrooms | 2 | | | | |
| Project score | | | | | |
| Water | ✓ 40 | Target 40 | | | |
| Thermal Comfort | ✓ Pass | Target Pass | | | |
| Energy | ✓ 50 | Target 50 | | | |

| Certificate | Prepared | by |
|-------------|----------|----|
|-------------|----------|----|

Name / Company Name: Serge Panayi

ABN (if applicable): 158856485

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Description of project

| Project address | |
|------------------------------------|--|
| Project name | 48 GOONDARI ROAD ALLAMBIE HEIGHTS 21_03 |
| Street address | 48 GOONDARI Road ALLAMBIE HEIGHTS 2100 |
| Local Government Area | Northern Beaches Council |
| Plan type and plan number | Deposited Plan 247868 |
| Lot no. | 12 |
| Section no. | 116 |
| Project type | |
| Project type | separate dwelling house |
| No. of bedrooms | 2 |
| Site details | |
| Site area (m²) | 727 |
| Roof area (m²) | 91 |
| Conditioned floor area (m2) | 54.98 |
| Unconditioned floor area (m2) | 5.02 |
| Total area of garden and lawn (m2) | 100 |

| Assessor details and thermal loads | | | | | | | |
|---|-------------|-------------|--|--|--|--|--|
| Assessor number | n/a | | | | | | |
| Certificate number | n/a | | | | | | |
| Climate zone | n/a | | | | | | |
| Area adjusted cooling load (MJ/m².year) | n/a | | | | | | |
| Area adjusted heating load (MJ/m².year) | n/a | | | | | | |
| Project score | | | | | | | |
| Water | ✓ 40 | Target 40 | | | | | |
| Thermal Comfort | ✓ Pass | Target Pass | | | | | |
| Energy | ✔ 50 | Target 50 | | | | | |

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Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

| Water Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| Landscape | | | |
| The applicant must plant indigenous or low water use species of vegetation throughout 40 square metres of the site. | ~ | ~ | |
| Fixtures | | | |
| The applicant must install showerheads with a minimum rating of 3 star (> 4.5 but <= 6 L/min) in all showers in the development. | | ~ | V |
| The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development. | | ~ | V |
| The applicant must install taps with a minimum rating of 4 star in the kitchen in the development. | | ~ | |
| The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development. | | V | |
| Alternative water | | | |
| Rainwater tank | | | |
| The applicant must install a rainwater tank of at least 3000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities. | ~ | ✓ | ~ |
| The applicant must configure the rainwater tank to collect rain runoff from at least 90.79 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam). | | • | ~ |
| The applicant must connect the rainwater tank to: | | | |
| at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) | | ~ | • |

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| Thermal Comfort Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|---------------------|------------------------------|-----------------|
| General features | | | |
| The dwelling must not have more than 2 storeys. | V | ~ | - |
| The conditioned floor area of the dwelling must not exceed 300 square metres. | V | ~ | V |
| The dwelling must not contain open mezzanine area exceeding 25 square metres. | V | ~ | V |
| The dwelling must not contain third level habitable attic room. | V | V | V |
| Floor, walls and ceiling/roof | | | |
| The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below. | V | V | V |

| Construction | Additional insulation required (R-Value) | Other specifications |
|---|--|---|
| floor - concrete slab on ground | nil | |
| external wall - framed (weatherboard, fibre cement, metal clad) | 2.00 (or 2.40 including construction) | |
| ceiling and roof - flat ceiling / flat roof, framed | ceiling: 2.82 (up), roof: foil/sarking | framed; light (solar absorptance < 0.475) |

| Note | Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia. |
|------|--|
| Note | In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials. |

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| Thermal Comfort Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|---------------------|------------------------------|-----------------|
| Windows, glazed doors and skylights | | | |
| The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door. | ~ | • | V |
| The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table. | V | ~ | V |
| The following requirements must also be satisfied in relation to each window and glazed door: | ~ | V | V |
| • For the following glass and frame types, the certifier check can be performed by visual inspection. | | | |
| - Aluminium single clear | | | - |
| - Aluminium double (air) clear | | | |
| - Timber/uPVC/fibreglass single clear | | | |
| - Timber/uPVC/fibreglass double (air) clear | | | |
| For other glass or frame types, each window and glazed door must be accompanied with certification showing a U value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) within the range of those listed. Total system U values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. Frame and glass types shown in the table below are for reference only. | | | ~ |

| Window/glazed door no. | Maximum height (mm) | Maximum width (mm) | Туре | Shading Device (Dimension within 10%) | Overshadowing |
|------------------------|------------------------|--------------------|---|---|------------------|
| North facing | | | | | |
| W01 | 2100 | 2400 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| North-East facing | | | | | |
| W04 | 500 | 900 | U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint) | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| W06 | 600 | 2100 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| W03 | 1200 | 1500 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |

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| Window/glazed door no. | Maximum height (mm) | Maximum width (mm) | Туре | Shading Device (Dimension within 10%) | Overshadowing |
|------------------------|------------------------|--------------------|---|---|------------------|
| W05 | 500 | 1200 | U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint) | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| East facing | | | | | |
| W07 | 1200 | 1500 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| West facing | | | | | |
| W08 | 600 | 1800 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| North-West facing | | | | | |
| W02 | 1200 | 1500 | aluminium, single, clear | eave 565 mm, 500 mm above head of window or glazed door | not overshadowed |
| W09 | 1200 | 2400 | aluminium, single, clear | eave 595 mm, 500 mm above head of window or glazed door | not overshadowed |

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| Energy Commitments | 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, or a system with a higher energy rating: gas instantaneous with a performance of 3 stars. | ~ | ~ | V |
| Cooling system | | | |
| The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 1 Star | | ~ | ~ |
| The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system. | | ~ | V |
| Heating system | | | |
| The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system. | | → | V |
| The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system. | | ~ | V |
| Ventilation | | | |
| The applicant must install the following exhaust systems in the development: | | | |
| At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off | | ✓ | V |
| Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off | | ✓ | • |
| Laundry: natural ventilation only, or no laundry; Operation control: n/a | | V | V |
| Artificial lighting | | | |
| The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent clight emitting diode (LED) lamps: | e Or | | |
| • at least 2 of the bedrooms / study; | | ~ | V |
| at least 2 of the living / dining rooms; | | | |

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| Energy Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting. | - | ~ | V |
| The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting. | - | ~ | V |
| Other | | | |
| The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling. | | ✓ | |
| The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions. | | ~ | |
| The applicant must install a fixed outdoor clothes drying line as part of the development. | | ~ | |
| The applicant must install a fixed indoor or sheltered clothes drying line as part of the development. | | V | |

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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 and 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(either interim or final) for the development may be issued.

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