

BASIX[®]Certificate

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

Single Dwelling

Certificate number: 957201S_10

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

This certificate is a revision of certificate number 957201S_05 lodged with the consent authority or certifier on 30 November 2018 with application DA2019/1905.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Wednesday, 26 May 2021

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



Planning,
Industry &
Environment

Project summary

| | |
|---------------------------|--------------------------------|
| Project name | 01416 Shanahan_10 |
| Street address | 145 Crescent Road Newport 2106 |
| Local Government Area | Northern Beaches Council |
| Plan type and plan number | deposited 1229229 |
| Lot no. | 1 |
| Section no. | - |
| Project type | separate dwelling house |
| No. of bedrooms | 4 |

Project score

| | | |
|-----------------|--------|-------------|
| Water | ✓ 41 | Target 40 |
| Thermal Comfort | ✓ Pass | Target Pass |
| Energy | ✓ 52 | Target 50 |

Certificate Prepared by

Name / Company Name: Midcoast Design & Drafting

ABN (if applicable): 34145976034

Description of project

Project address

| | |
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Project type

| | |
|-----------------|-------------------------|
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| No. of bedrooms | 4 |

Site details

| | |
|------------------------------------|-------|
| Site area (m ²) | 843 |
| Roof area (m ²) | 195 |
| Conditioned floor area (m2) | 194.0 |
| Unconditioned floor area (m2) | 14.1 |
| Total area of garden and lawn (m2) | 145 |

Assessor details and thermal loads

| | |
|---|-----|
| Assessor number | n/a |
| Certificate number | n/a |
| Climate zone | n/a |
| Area adjusted cooling load (MJ/m ² .year) | n/a |
| Area adjusted heating load (MJ/m ² .year) | n/a |
| Ceiling fan in at least one bedroom | n/a |
| Ceiling fan in at least one living room or other conditioned area | n/a |

Project score

| | | |
|-----------------|--------|-------------|
| Water | ✓ 41 | Target 40 |
| Thermal Comfort | ✓ Pass | Target Pass |
| Energy | ✓ 52 | Target 50 |

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 |
|---|------------------|------------------------------|-----------------|
| Fixtures | | | |
| The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development. | | ✓ | ✓ |
| The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development. | | ✓ | ✓ |
| The applicant must install taps with a minimum rating of 3 star in the kitchen in the development. | | ✓ | |
| The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development. | | ✓ | |
| Alternative water | | | |
| Rainwater tank | | | |
| The applicant must install a rainwater tank of at least 2000 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 100 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: <ul style="list-style-type: none"> all toilets in the development the cold water tap that supplies each clothes washer in the development 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.) | | ✓ ✓ ✓ | ✓ ✓ ✓ |

| 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. | ✓ | ✓ | ✓ |
| The conditioned floor area of the dwelling must not exceed 300 square metres. | ✓ | ✓ | ✓ |
| The dwelling must not contain open mezzanine area exceeding 25 square metres. | ✓ | ✓ | ✓ |
| The dwelling must not contain third level habitable attic room. | ✓ | ✓ | ✓ |
| 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. | ✓ | ✓ | ✓ |

| Construction | Additional insulation required (R-Value) | Other specifications |
|--|--|---|
| floor - concrete slab on ground, 37 square metres | nil | |
| floor - above habitable rooms or mezzanine, 78 square metres, concrete | nil | |
| floor - suspended floor above garage, concrete | nil | |
| external wall - framed (weatherboard, fibre cement, metal clad) | 2.00 (or 2.40 including construction) | |
| external wall - concrete panel/plasterboard (concrete: 155 mm) | 2.08 (or 2.40 including construction) | |
| ceiling and roof - flat ceiling / pitched roof | ceiling: 4.5 (up), roof: foil/sarking | unventilated; medium (solar absorptance 0.475-0.70) |

| | |
|------|--|
| 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. |

| Window/glazed door no. | Maximum height (mm) | Maximum width (mm) | Type | Shading Device (Dimension within 10%) | Overshadowing |
|------------------------|---------------------|--------------------|--------------------------|--|-----------------------|
| W111 | 2100 | 3600 | aluminium, single, clear | pergola (adjustable battens) 3000 mm, 200 mm above head of window or glazed door | not overshadowed |
| W112 | 1200 | 1800 | aluminium, single, clear | eave 3000 mm, 750 mm above head of window or glazed door | not overshadowed |
| W113 | 1200 | 1800 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | not overshadowed |
| East facing | | | | | |
| W106 | 600 | 1200 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 2-5 m away |
| W109 | 1200 | 2400 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 2-5 m away |
| W09 | 1000 | 1500 | aluminium, single, clear | none | >4 m high, 2-5 m away |
| W107 | 600 | 1200 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 2-5 m away |
| W108 | 1000 | 1500 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 2-5 m away |
| South facing | | | | | |
| W07 | 2100 | 1800 | aluminium, single, clear | solid overhang 800 mm, 500 mm above head of window or glazed door | not overshadowed |
| W104 | 2100 | 4800 | aluminium, single, clear | eave 4350 mm, 400 mm above head of window or glazed door | not overshadowed |
| W04 | 2000 | 900 | aluminium, single, clear | solid overhang 800 mm, 500 mm above head of window or glazed door | not overshadowed |
| W103 | 2100 | 1800 | aluminium, single, clear | eave 1400 mm, 400 mm above head of window or glazed door | not overshadowed |
| W08 | 2000 | 900 | aluminium, single, clear | solid overhang 800 mm, 500 mm above head of window or glazed door | not overshadowed |
| W102 | 2100 | 900 | aluminium, single, clear | eave 1400 mm, 400 mm above head of window or glazed door | not overshadowed |


| Window/glazed door no. | Maximum height (mm) | Maximum width (mm) | Type | Shading Device (Dimension within 10%) | Overshadowing |
|------------------------|---------------------|--------------------|---|---|-----------------------|
| W06 | 600 | 1800 | aluminium, single, clear | solid overhang 800 mm, 500 mm above head of window or glazed door | not overshadowed |
| W05 | 2100 | 1800 | aluminium, single, clear | solid overhang 800 mm, 500 mm above head of window or glazed door | not overshadowed |
| W105 | 1800 | 600 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | not overshadowed |
| West facing | | | | | |
| W114 | 2000 | 600 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 5-8 m away |
| W02 | 1200 | 2100 | aluminium, single, clear | none | >4 m high, 5-8 m away |
| W03 | 600 | 2100 | aluminium, single, clear | none | >4 m high, 5-8 m away |
| W115 | 600 | 1500 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 5-8 m away |
| W101 | 600 | 2100 | aluminium, single, clear | eave 750 mm, 400 mm above head of window or glazed door | >4 m high, 5-8 m away |
| W01 | 900 | 600 | U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint) | none | >4 m high, 5-8 m away |


| 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 5 stars. | ✓ | ✓ | ✓ |
| Cooling system | | | |
| The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: ceiling fans + 1-phase airconditioning; Energy rating: 3 star (average zone) | | ✓ | ✓ |
| The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans; Energy rating: n/a | | ✓ | ✓ |
| Heating system | | | |
| The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 star (average zone) | | ✓ | ✓ |
| The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system. | | ✓ | ✓ |
| Ventilation | | | |
| The applicant must install the following exhaust systems in the development: | | | |
| At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a | | ✓ | ✓ |
| Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a | | ✓ | ✓ |
| Laundry: natural ventilation only, or no laundry; Operation control: n/a | | ✓ | ✓ |
| 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 or light emitting diode (LED) lamps: | | | |
| • at least 4 of the bedrooms / study; dedicated | | ✓ | ✓ |
| • at least 3 of the living / dining rooms; dedicated | | ✓ | ✓ |
| • the kitchen; dedicated | | ✓ | ✓ |


| Energy Commitments | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| <ul style="list-style-type: none"> all hallways; dedicated | | ✓ | ✓ |
| Natural lighting | | | |
| The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting. | ✓ | ✓ | ✓ |
| The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting. | ✓ | ✓ | ✓ |
| Other | | | |
| The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling. | | ✓ | |
| The applicant must install a fixed outdoor clothes drying line as part of the development. | | ✓ | |

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.