BASIX Certificate

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

Alterations and Additions

Certificate number: A366307 05

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

This certificate is a revision of certificate number A366307 lodged with the consent authority or certifier on 09 Dec 2020 with application DA2020/1571.

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 Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Monday, 19, September 2022

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



Description of project

| Project address | |
|---------------------------------|---|
| Project name | 54 Francis _05 |
| Street address | 54 Francis Street Manly 2095 |
| Local Government Area | Manly Council |
| Plan type and number | Deposited Plan 4449 |
| Lot number | 14 |
| Section number | E |
| Project type | |
| Dwelling type | Separate dwelling house |
| Type of alteration and addition | My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa). |

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

Name / Company Name: novam design studio

ABN (if applicable): 86204212060

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| Pool and Spa | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|---|---------------------|---------------------------------------|--------------------|
| Rainwater tank | | | |
| The applicant must install a rainwater tank of at least 1771 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 rainwater runoff from at least 135 square metres of roof area. | | ✓ | ✓ |
| The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa. | | ✓ | ✓ |
| Outdoor swimming pool | - | 1 | + |
| The swimming pool must be outdoors. | ✓ | ✓ | ✓ |
| The swimming pool must not have a capacity greater than 29 kilolitres. | ✓ | ✓ | ✓ |
| The swimming pool must have a pool cover. | | ✓ | ✓ |
| The applicant must install a pool pump timer for the swimming pool. | | ✓ | ✓ |
| The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump. | | ✓ | ✓ |
| Outdoor spa | 1 | 1 | |
| The spa must not have a capacity greater than 3.6 kilolitres. | ✓ | ✓ | ✓ |
| The spa must have a spa cover. | | ✓ | ✓ |
| The applicant must install a spa pump timer. | | ✓ | ✓ |
| The applicant must install the following heating system for the outdoor spa that is part of this development: gas. | | ✓ | ~ |

| 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: gas instantaneous. | ✓ | ✓ | ✓ |
| 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 | | | ' | | |
| | ition is not required where the area of new cons | s) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified | √ | ✓ | ✓ |
| Construction | Additional insulation required (R-value) | Other specifications | | | |
| concrete slab on ground floor. | nil | | | | |
| floor above existing dwelling or building. | nil | | | | |
| external wall: framed (weatherboard, fibro, metal clad) | R1.30 (or R1.70 including construction) | | | | |
| external wall: concrete block/plasterboard | R1.18 (or R1.70 including construction) | | | | |
| raked ceiling, pitched/skillion roof: framed | ceiling: R2.50 (up), roof: foil/sarking | medium (solar absorptance 0.475 - 0.70) | | | |

| Glazing req | uirements | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|------------------------------|--------------------------------|---|------------------------|---------------------------------|---|---|---------------------|---------------------------------------|--------------------|
| Windows an | d glazed d | oors | | | | | | | |
| The applicant Relevant over | | ~ | ✓ | ~ | | | | | |
| The following | requirements | | ✓ | ✓ | | | | | |
| have a U-valu | e and a Sola | r Heat Gai | n Coefficie | ent (SHGC) r | | ed glass may either match the description, or, le below. Total system U-values and SHGCs s. | | ✓ | ~ |
| have a U-valu | e and a Sola lated in acco | ear glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information | | ✓ | ~ | | | | |
| | | | | | f each eave, pergola, verandah, bal than 2400 mm above the sill. | lcony or awning must be no more than 500 mm | ✓ | ✓ | ✓ |
| Pergolas with | polycarbonat | te roof or s | imilar trar | slucent mate | erial must have a shading coefficien | nt of less than 0.35. | | ✓ | ✓ |
| External louvr | es and blinds | s must fully | shade th | e window or | glazed door beside which they are | situated when fully drawn or closed. | | ✓ | ✓ |
| Pergolas with shades a perp | fixed battens endicular wir | must have | e battens spacing b | parallel to the etween batte | e window or glazed door above whi ens must not be more than 50 mm. | ch they are situated, unless the pergola also | | ✓ | ✓ |
| Overshadowir specified in th | | | | | nt and distance from the centre and | the base of the window and glazed door, as | ✓ | ✓ | ~ |
| Windows a | | | | equireme | nts | | | | |
| Window / doc | r Orientation | Area of glass | | | Shading device | Frame and glass type | | | |
| no. | | inc. frame (m2) | Height (m) | Distance (m) | | | | | |
| W02 | N | 2.3 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W05 | W | 1.82 | 0 | 0 | eave/verandah/pergola/balcony | standard aluminium, single pyrolytic low-e, | | | |

| Glazing requ | uirements | | | | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|----------------------|-------------|-------------------------------|--------------------------|-----------------|---|--|---------------------|---------------------------------------|--------------------|
| Window / door no. | Orientation | Area of glass inc. frame (m2) | Oversha Height (m) | Distance (m) | Shading device | Frame and glass type | | | |
| | | | | | >=900 mm | (U-value: 5.7, SHGC: 0.47) | | | |
| W06 | N | 5.72 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W07 | N | 2.36 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W08 | N | 1.9 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W09 | N | 4.06 | 3.77 | 2.6 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W10 | E | 1.44 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W11 | E | 3.19 | 0 | 0 | eave/verandah/pergola/balcony >=600 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W12 | S | 1.89 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W13 | S | 2.52 | 0 | 0 | none | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W20 | W | 2.25 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| W21 | N | 2.75 | 0 | 0 | eave/verandah/pergola/balcony >=600 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W22 | N | 2.75 | 0 | 0 | eave/verandah/pergola/balcony >=600 mm | standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47) | | | |
| W23 | E | 1.08 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W24 | E | 0.854 | 0 | 0 | eave/verandah/pergola/balcony | standard aluminium, single toned, (or | | | |

| Glazing requirements | | | | | | | | Show on CC/CDC Plans & specs | Certifier Check |
|----------------------|-------------|-------------------------------|--------------------------|-----------------|---|--|--|---------------------------------------|--------------------|
| Window / door no. | Orientation | Area of glass inc. frame (m2) | Oversha Height (m) | Distance (m) | Shading device | Frame and glass type | | | |
| | | | | | >=900 mm | U-value: 7.57, SHGC: 0.57) | | | |
| W25 | Е | 0.952 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57) | | | |
| W26 | S | 1.2 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W27 | S | 1.2 | 0 | 0 | eave/verandah/pergola/balcony >=450 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| D2 | W | 7.728 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| D5 | W | 12.72 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| D6 | E | 4.32 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| D7 | E | 2.16 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| D15 | W | 3.78 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| W28 | N | 5.92 | 0 | 0 | external louvre/blind (fixed) | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| D09 | N | 3.84 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67) | | | |
| D01 | W | 2.94 | 0 | 0 | eave/verandah/pergola/balcony >=900 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |
| W01 | W | 0.805 | 0 | 0 | eave/verandah/pergola/balcony >=750 mm | standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75) | | | |

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| Glazing require | ements | | | Show on DA Plans | Show on CC/CDC Plans & specs | Certifier Check |
|------------------------------------|---|------------------------------------|--|---------------------|---------------------------------------|--------------------|
| Skylights | | | | | | |
| The applicant mus | st install the skyligh | its in accordance with the spec | ifications listed in the table below. | ✓ | ✓ | ✓ |
| The following requ | uirements must also | o be satisfied in relation to each | h skylight: | | ✓ | ✓ |
| Each skylight may the table below. | 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 requireme | nts | | | | |
| Skylight number | Area of glazing inc. frame (m2) | Shading device | Frame and glass type | | | |
| S1 | 1.092 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |
| S2 | 1.092 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |
| S3 | 1.092 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |
| S4 | 1.092 | no shading | timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456) | | | |
| S5 | 1.092 | 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.