

BASIX[®]Certificate

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

Single Dwelling

Certificate number: 1136419S_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

This certificate is a revision of certificate number 1136419S lodged with the consent authority or certifier on 27 October 2020 with application DA2020/1330.

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, 27 January 2021

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



Planning,
Industry &
Environment

Project summary

Project name	0724 - 24 TREVOR ROAD, NEWPORT_02
Street address	24 TREVOR Road NEWPORT 2106
Local Government Area	Northern Beaches Council
Plan type and plan number	deposited 19380
Lot no.	25
Section no.	-
Project type	separate dwelling house
No. of bedrooms	3

Project score

Water	✓ 40	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 52	Target 50

Certificate Prepared by

Name / Company Name: Action Plans

ABN (if applicable): 17118297587

Description of project

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Site details

Site area (m ²)	556
Roof area (m ²)	307
Conditioned floor area (m2)	226.98
Unconditioned floor area (m2)	23.24
Total area of garden and lawn (m2)	231

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	✓ 40	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
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 150 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.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		✓	
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 189.74 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"> 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 - suspended floor above open subfloor, 130 square metres, framed	1.3 (or 2 including construction) (down)	
floor - above habitable rooms or mezzanine, 102 square metres, framed	nil	
floor - suspended floor above garage, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	3.00 (or 3.40 including construction)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 2.95 (up), roof: foil backed blanket (100 mm)	gable end vents; dark (solar absorptance > 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.

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.	✓	✓	✓
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	✓	✓	✓
<p>The following requirements must also be satisfied in relation to each window and glazed door:</p> <ul style="list-style-type: none"> For the following glass and frame types, the certifier check can be performed by visual inspection. <ul style="list-style-type: none"> 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. Overshadowing buildings/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. 	✓	✓	✓ ✓ ✓
The applicant must install the skylights described in the table below, in accordance with the specifications listed in the table. Total skylight area must not exceed 3 square metres (the 3 square metre limit does not include the optional additional skylight of less than 0.7 square metres that does not have to be listed in the table).	✓	✓	✓

Skylight no.	Maximum area (square metres)	Type	Shading device
S01	1.34	timber, low-E/double/argon fill	no shading
S02	1.09	timber, low-E/double/argon fill	no shading
















Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading Device (Dimension within 10%)	Overshadowing
North facing					

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading Device (Dimension within 10%)	Overshadowing
W05	1500	700	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 3940 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
W06	2400	3000	U-value: 3.1, SHGC: 0.441 - 0.539 (aluminium: thermally broken, double (air), Hi-Tsol Low-e/clear)	eave 1760 mm, 100 mm above head of window or glazed door	>4 m high, 5-8 m away
W12	600	1500	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
W13	1300	900	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
D03	2400	900	U-value: 3.4, SHGC: 0.423 - 0.517 (composite, double (air), Hi-Tsol Low-e/clear)	eave 3940 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
D05	2400	3650	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	solid overhang 4850 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
D07	2400	2700	U-value: 3.4, SHGC: 0.288 - 0.352 (composite, double (air), Lo-Tsol Low-e/clear)	eave 2760 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
D08	2400	2700	U-value: 3.4, SHGC: 0.423 - 0.517 (composite, double (air), Hi-Tsol Low-e/clear)	eave 2760 mm, 150 mm above head of window or glazed door	>4 m high, 5-8 m away
East facing					
W07	800	3000	U-value: 3.4, SHGC: 0.423 - 0.517 (composite, double (air), Hi-Tsol Low-e/clear)	eave 650 mm, 150 mm above head of window or glazed door	not overshadowed
W08	600	3000	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 600 mm, 150 mm above head of window or glazed door	not overshadowed
W14	750	3000	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 700 mm, 150 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
W15	1600	2500	U-value: 3.4, SHGC: 0.297 - 0.363 (composite, double (air), Lo-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	not overshadowed
W16	1300	2500	U-value: 3.4, SHGC: 0.297 - 0.363 (composite, double (air), Lo-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	not overshadowed
D04	2400	2965	U-value: 3.4, SHGC: 0.288 - 0.352 (composite, double (air), Lo-Tsol Low-e/clear)	solid overhang 7350 mm, 150 mm above head of window or glazed door	not overshadowed
South facing					
W09	1020	2500	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 750 mm, 150 mm above head of window or glazed door	not overshadowed
D01	2400	1796	U-value: 3.4, SHGC: 0.423 - 0.517 (composite, double (air), Hi-Tsol Low-e/clear)	eave 2900 mm, 150 mm above head of window or glazed door	not overshadowed
D02	2400	3000	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	eave 2900 mm, 150 mm above head of window or glazed door	not overshadowed
D06	2400	3000	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	eave 2050 mm, 150 mm above head of window or glazed door	not overshadowed
West facing					
W01	2400	1000	U-value: 3.4, SHGC: 0.297 - 0.363 (composite, double (air), Lo-Tsol Low-e/clear)	eave 600 mm, 150 mm above head of window or glazed door	not overshadowed
W02	2400	1000	U-value: 3.4, SHGC: 0.297 - 0.363 (composite, double (air), Lo-Tsol Low-e/clear)	eave 600 mm, 150 mm above head of window or glazed door	not overshadowed
W03	600	2200	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 600 mm, 150 mm above head of window or glazed door	not overshadowed
W04	600	2100	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 600 mm, 1035 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
W10	600	2500	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	not overshadowed
W11	600	2100	U-value: 3.4, SHGC: 0.477 - 0.583 (composite, double (air), Hi-Tsol Low-e/clear)	eave 700 mm, 150 mm above head of window or glazed door	not overshadowed


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: 5 Star (old label)		✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans + 1-phase airconditioning; Energy rating: 5 Star (old label)		✓	✓
The cooling system must provide for day/night zoning between living areas and bedrooms.		✓	✓
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: 5 Star (old label)		✓	✓
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 5 Star (old label)		✓	✓
The heating system must provide for day/night zoning between living areas and bedrooms.		✓	✓
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
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:			
<ul style="list-style-type: none"> at least 4 of the bedrooms / study; dedicated 		✓	✓


Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<ul style="list-style-type: none"> • at least 2 of the living / dining rooms; dedicated • the kitchen; dedicated • all bathrooms/toilets; dedicated • the laundry; dedicated • all hallways; dedicated 		    	    
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 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.			

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.