

BASIX[®]Certificate

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

Single Dwelling

Certificate number: 935280S

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: Friday, 08 June 2018

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



Project summary		
Project name	42 ROGERS STREET	
Street address	42 ROGERS Street ROSELANDS 2196	
Local Government Area	Canterbury-Bankstown Council	
Plan type and plan number	deposited 104237	
Lot no.	J	
Section no.	-	
Project type	separate dwelling house	
No. of bedrooms	4	
Project score		
Water	 41	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 51	Target 50

Certificate Prepared by
Name / Company Name: MAK KHAN
ABN (if applicable): N/A

Description of project

Project address

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Site details

Site area (m ²)	674
Roof area (m ²)	295
Conditioned floor area (m2)	282.05
Unconditioned floor area (m2)	18.98
Total area of garden and lawn (m2)	276

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

Project score

Water	✓ 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 51	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 20 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 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 5000 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 290 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: - all toilets 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.)		✓ ✓	✓ ✓
Swimming pool			
The swimming pool must not have a volume greater than 36 kilolitres.	✓	✓	

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The swimming pool must have a pool cover.		✓	
The swimming pool must be shaded.	✓	✓	
The swimming pool must be outdoors.	✓	✓	

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must be a Class 1 dwelling according to the Building Code of Australia, and 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	nil	
floor - suspended floor above garage, concrete	nil	
external wall - concrete block/plasterboard	1.88 (or 2.40 including construction)	
external wall - concrete block/plasterboard	1.88 (or 2.40 including construction)	
external wall - cavity brick	0.50 (or 1.17 including construction)	
external wall - cavity brick	0.50 (or 1.17 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil/sarking	framed; 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.

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.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door: - 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)	Type	Shading (Dimension within 10%)	Overshadowing
North facing					
W09	1200	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W16	1200	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W17	1200	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
East facing					
W04	3000	450	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading (Dimension within 10%)	Overshadowing
W05	3000	450	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W06	4000	450	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W07	4000	450	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W08A	450	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	solid overhang 6667 mm, 700 mm above head of window or glazed door	not overshadowed
W08B	450	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	solid overhang 6667 mm, 700 mm above head of window or glazed door	not overshadowed
South facing					
W1	600	2400	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W2	900	900	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W2A	3200	1800	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W3	900	900	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W12	900	900	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W13	900	900	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
W14	900	900	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	none	not overshadowed
West facing					
W10	800	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	solid overhang 1500 mm, 300 mm above head of window or glazed door	not overshadowed

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Type	Shading (Dimension within 10%)	Overshadowing
W11	800	3000	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	solid overhang 1500 mm, 300 mm above head of window or glazed door	not overshadowed
SD1	2400	9600	U-value: 4.5, SHGC: 0.549 - 0.671 (aluminium, double (argon), clear)	verandah 2800 mm, 2900 mm above base 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 6 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: 1-phase airconditioning; Energy rating: 6 Star		✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 6 Star		✓	✓
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: 6 Star		✓	✓
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: 6 Star		✓	✓
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: no mechanical ventilation (ie. natural); Operation control: n/a Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a Laundry: individual fan, ducted to façade or roof; Operation control: interlocked to light		✓ ✓ ✓	✓ ✓ ✓
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		✓	✓

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
- at least 1 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 the kitchen of the dwelling for natural lighting.			
The applicant must install a window and/or skylight in 4 bathroom(s)/toilet(s) in the development for natural lighting.			
Swimming pool			
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): solar only			
The applicant must install a timer for the swimming pool pump in the development.			
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 0.3 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.			
Other			
The applicant must install a gas cooktop & gas 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.			

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.