BASIX[°]Certificate

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

Single Dwelling

Certificate number: 957158S_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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary Date of issue: Thursday, 30 August 2018 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary	
Project name	3 Valleyview Cres, Werrington Downs_02
Street address	3 Valleyview Crescent Werrington Downs 2747
Local Government Area	Penrith City Council
Plan type and plan number	deposited 260932
Lot no.	7051
Section no.	-
Project type	separate dwelling house
No. of bedrooms	3
Project score	
Water	V 40 Target 40
Thermal Comfort	V Pass Target Pass
Energy	✓ 50 Target 50

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

Name / Company Name: Nemco Design

ABN (if applicable): 46166160505

BASIX Planning & Environment

www.basix.nsw.gov.au

Version: 3.0 / DARWINIA 3 6 5

Certificate No.: 957158S 02

Description of project

Project address

Project name3 Valleyview Cres, Werrington Downs_02Street address3 Valleyview Crescent Werrington Downs 2747Local Government AreaPenrith City CouncilPlan type and plan numberDeposited Plan 260932Lot no.7051Section noProject typeseparate dwelling houseNo. of bedrooms3Site area (m²)273Site area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)100		
2747Local Government AreaPenrith City CouncilPlan type and plan numberDeposited Plan 260932Lot no.7051Section noProject typeProject typeseparate dwelling houseNo. of bedrooms3Site detailsSite area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Project name	3 Valleyview Cres, Werrington Downs_02
Plan type and plan numberDeposited Plan 260932Lot no.7051Section noProject typeseparate dwelling houseNo. of bedrooms3Site details273Site area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Street address	
Lot no.7051Section noProject typeseparate dwelling houseProject type3No. of bedrooms3Site details273Site area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Local Government Area	Penrith City Council
Section noProject typeseparate dwelling houseProject typeseparate dwelling houseNo. of bedrooms3Site details273Site area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Plan type and plan number	Deposited Plan 260932
Project typeseparate dwelling houseProject typeseparate dwelling houseNo. of bedrooms3Site details273Site area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Lot no.	7051
Project typeseparate dwelling houseNo. of bedrooms3Site detailsSite area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Section no.	-
No. of bedrooms3Site detailsSite area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Project type	
Site detailsSite area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Project type	separate dwelling house
Site area (m²)273Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	No. of bedrooms	3
Roof area (m²)116Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Site details	
Conditioned floor area (m2)100.5Unconditioned floor area (m2)15.9	Site area (m²)	273
Unconditioned floor area (m2) 15.9	Roof area (m²)	116
	Conditioned floor area (m2)	100.5
Total area of garden and lawn (m2) 100	Unconditioned floor area (m2)	15.9
	Total area of garden and lawn (m2)	100

Assessor details and thermal lo	ads	
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	V 40	Target 40
Thermal Comfort	V Pass	Target Pass
Energy	V 50	Target 50

BASIX Planning & Environment

nt www.basix.nsw.gov.au

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 4 star (> 4.5 but <= 6 L/min plus spray force and/or coverage tests) in all showers in the development.		~	~
The applicant must install a toilet flushing system with a minimum rating of 6 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 6 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 6 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 1200 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 116.4 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:			
The applicant must connect the rainwater tank to: all toilets in the development 		 Image: A set of the set of the	~

BASIX Planning & Environment

nt www.basix.nsw.gov.au

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, 51.5 square metres	nil	
floor - above habitable rooms or mezzanine, 63.6 square metres, framed	nil	
floor - suspended floor above garage, framed	0.3 (or 1 including construction) (down)	
external wall - other/undecided	2.60 (including construction)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 4 (up), roof: foil/sarking	unventilated; 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.

BASIX Planning & Environment

ent www.basix.nsw.gov.au

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			
 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. 	~	~	~

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading (Dimension within 10%)	Overshadowing
North facing					
W2.12	1200	1570	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
FD2.1	2100	2410	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
East facing					
W2.2	944	1210	aluminium, single, clear	none	>4 m high, 8-12 m away
SD2.1	2100	1570	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
W2.10	1540	1810	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away

BASIX Planning & Environment

www.basix.nsw.gov.au

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading (Dimension within 10%)	Overshadowing
W2.11	1540	1570	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
W2.1	1800	610	aluminium, single, clear	none	>4 m high, 8-12 m away
South facing					
W2.16	600	1570	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
W2.6	600	2410	aluminium, single, clear	none	>4 m high, 8-12 m away
W2.15	600	610	aluminium, single, clear	none	>4 m high, 8-12 m away
West facing					
W2.14	600	970	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
W2.4	600	1450	aluminium, single, clear	none	>4 m high, 8-12 m away
W2.15	600	1570	aluminium, single, clear	eave 600 mm, 340 mm above head of window or glazed door	>4 m high, 8-12 m away
W2.5	600	850	aluminium, single, clear	none	>4 m high, 8-12 m away
W2.3	600	1450	aluminium, single, clear	none	>4 m high, 8-12 m away

BASIX Planning & Environment

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
lot 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: 1-phase airconditioning; Energy rating: 3.5 Star		~	~
he applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase irconditioning; Energy rating: 3.5 Star		~	~
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: 3.5 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: 3.5 Star		~	~
/entilation			
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		 Image: A set of the set of the	~
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 ollowing rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent ight emitting diode (LED) lamps:			
 at least 3 of the bedrooms / study; dedicated 		~	~
 at least 1 of the living / dining rooms; dedicated 			
the kitchen; dedicated			

Certificate No.: 957158S_02

Thursday, 30 August 2018

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
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 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.		~	

Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a vi 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 v 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 v 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.