# **BASIX**<sup>°</sup>Certificate Building Sustainability Index www.basix.nsw.gov.au

## Single Dwelling

NSW Planning, Industry & Environment

Certificate number: 1115526S 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: Friday, 03 July 2020 To be valid, this certificate must be lodged within 3 months of the date of issue.

Local Government Area	Northern Beaches Court	ncil
Plan type and plan number	deposited 10683	
Lot no.	3	
Section no.	-	
Project type	separate dwelling hous	e
No. of bedrooms	5	
Project score		
Water	✓ 40	Target 40
Thermal Comfort	V Pass	Target Pa

86 Quirk Street Dee Why 2099

Project summary
Project name
Clues-Primary\_

Certificate Prepared by
Name / Company Name: Rapid Plans
ABN (if applicable): 43150064592

Friday, 03 July 2020

Show on Show on CC DA plans plans & spe

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#### Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA\_3\_11\_6 Certificate No.: 1115526S\_02 Friday, 03 July 2020 Description of project

Project address		Assessor details and thermal I	oads	
Project name	Clues-Primary_02	Assessor number	10056	
Street address	86 Quirk Street Dee Why 2099	Certificate number	0004978060	
Local Government Area	Northern Beaches Council	Climate zone	56	
Plan type and plan number	Deposited Plan 10683	Area adjusted cooling load (MJ/m <sup>2</sup> .year)	25	
Lot no.	3	Area adjusted heating load (MJ/m <sup>2</sup> .year)	40	
Section no.	-	Project score		
Project type		Water	✓ 40	Ta
Project type	separate dwelling house		• ••	14
No. of bedrooms	5	Thermal Comfort	V Pass	Та
Site details		Energy	✔ 86	Та
Site area (m <sup>2</sup> )	720		•	
Roof area (m <sup>2</sup> )	271			
Conditioned floor area (m2)	327.0			
Unconditioned floor area (m2)	19.0			
Total area of garden and lawn (m2)	430			

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.

ASIX Planning Industry & Environment www.basix.new.cov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 11155265 02
Schedule of BASIX commitments

nous or low water use species of vegetation throughout 430 square metres of the site.

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.

e applicant must install a rainwater tank of at least 3500 litres on the site. This rainwater tank must meet, and be installed in cordance with, the requirements of all applicable regulatory authorities.

The applicant must configure the rainwater tank to collect rain runoff from at least 271.47 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).

onment www.basix.nsw.gov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 1115526S 02

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.)

cant 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.

a tap that is located within 10 metres of the swimming pool in the development

The swimming pool must not have a volume greater than 51 kilolitres.

Alternative water

ater tank

The applicant must connect the rainwater tank to:

nming pool

The applicant must install basin taps with a minimum rating of 6 star in each bathroom in the development.

Thermal Comfort Commitments		DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method				
The applicant must attach the certificate referred to under "Assessor Details" on the front page of Certificate" to the development application and construction certificate application for the propo- applying for a complying development certificate for the proposed development, to that applicati Assessor Certificate to the application for an occupation certificate for the proposed development and the proposed development certificate for the proposed development.	sed development (or, if the applicant is ion). The applicant must also attach the			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with	the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with th certificate, including the Cooling and Heating loads shown on the front page of this certificate.	e details shown in this BASIX			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredite Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used secondariant segnifications especifications.			~	~
The applicant must construct the development in accordance with all thermal performance spec Certificate, and in accordance with those aspects of the development application or application i which were used to calculate those specifications.			~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specific	ations listed in the table below.	~	<b>~</b>	~
Floor and wall construction	Area	-	_	-
	All or part of floor area square metres			
floor - concrete slab on ground				

IX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 1115526S 02	Friday, 03	July 2020	page
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: 1-phase airconditioning; Energy rating: 5 star (average zone)		~	~
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: 5 star (average zone)		~	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: gas fixed flued heater; Energy rating: 3 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: 5 star (average zone)		~	~
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: individual fan, ducted to façade or roof; Operation control: manual switch on/off		•	•
		· ·	<ul> <li></li> <li></li> </ul>
Laundry: natural ventilation only, or no laundry; Operation control: n/a		<b>~</b>	<ul> <li>Image: A second s</li></ul>
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) large:			
at least 5 of the bedrooms / study; dedicated			
- at least 2 of the living / diving rearry dedicated		· ·	· ·
<ul> <li>at least 2 of the living / dining rooms; dedicated</li> </ul>		<ul> <li>✓</li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
the kitchen; dedicated		<b>~</b>	~
IX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_11_6 Certificate No.: 1115526S_02	Friday, 03	July 2020	page

## the laundry; dedicated · all hallways; dedicated Natural lighting The applicant must install a window and/or skylight in the kitchen of the dwelling t The applicant must install a window and/or skylight in 4 bathroom(s)/toilet(s) in the Swimming pool development must not incorporate any heating system for the swimming po 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 le development. The applicant must connect this system to the development's electri 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 The applicant must install a fixed outdoor clothes drying line as part of the develop

Energy Commitments

all bathroom

Show on Show on CC/CDC Certifier DA plans plans & specs check

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AS	IX Planning Industry & Environment www.basix.nsw.gov.au Version: 3.0
	Legend
1	In these commitments, "applicant" means the person carrying out the develop
	Commitments identified with a v in the "Show on DA plans" column must be development application is to be lodged for the proposed development).
	Commitments identified with a v in the "Show on CC/CDC plans and specs" certificate / complying development certificate for the proposed development.
	Commitments identified with a v in the "Certifier check" column must be cert final) for the development may be issued.

Generated on 03 J	Jul 2020 using BE	RS Pro v4.4.0.1 (3.21)
Property		
Address	Linit Main 96 C	uirk Street , Dee Why ,
Address	NSW , 2099	unk Sueer, Dee why,
Lot/DP	3/10683	
NCC Class*	1A	
Туре	New Dwelling	
INIT		
Plans		
Main Plan	Rev A Issued o	n 30/06/2020
Prepared by	Rapid Plans Bu	ilding Design
Constructio	n and envir	onment 4978
Assessed floor an		Exposure Type
Conditioned*	327.0	Suburban
Unconditioned*	141.0	NatHERS climate zone
Total	468.0	56
Garage	114.0	4078060
Angeneral Ang	lited assess	
Name		Bonnefin 2099
Business name		d Energy
Email	0.101	ertifiedenergy.com.au
Phone	1300 4	13 674
Accreditation No.	10056	
Assessor Accredit	ting Organisation	
Declaration of inte	None None	
National Construc	ction Code (NCC)	requirements



www.rapidplans.com.au PO Box 6193 Frenchs Forest DC NSW 2086 Fax : (02) 9905-8865 obile: 0414-945-024 © Copyright

Rapid Plans 2020

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Builder to Check and Confirm all Measurements Prior to Commencement of any works. Immediately Report any Discrepancies to Rapid Plans

roject North	Checked Plot Date: Project NO. Project Status	GBJ 30/07 RP05 DA
	Client Site:	Mick 86 C
	Sheet Size: A3	;

JS	30/07/2020 RP0520CLU DA
	Mick & Patrice Clues 86 Quirk Street Dee Why
: A3	



	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
		<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
		<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>
		<ul> <li>Image: A second s</li></ul>	~
or natural lighting.	~	<ul> <li>Image: A set of the set of the</li></ul>	~
e development for natural lighting.	~	<ul> <li>Image: A set of the set of the</li></ul>	~
		<ul> <li>Image: A set of the set of the</li></ul>	
1		<ul> <li></li> </ul>	
east 5 peak kilowatts of electricity as part of the ical system.	~	<ul> <li></li> </ul>	~
		<ul> <li></li> </ul>	
is "well ventilated", as defined in the BASIX		<ul> <li>Image: A set of the set of the</li></ul>	
oment.		<b>_</b>	

anying the development application for the prop column must be shown in the plans and specifications accompanying the application for a constructio

tified by a certifying authority as having been fulfilled, before a final occupation certificate(either interim or

# **BASIX**<sup>°</sup>Certificate

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

# Single Dwelling

Certificate number: 1115628S

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, 03 July 2020
To be valid, this certificate must be lodged within 3 months of the date of issue



Project name	Clues-Secondary	
Street address	86 Quirk Street De	e Why 2099
Local Government Area	Northern Beaches	Council
Plan type and plan number	deposited 10683	
Lot no.	3	
Section no.	-	
Project type	separate dwelling	house
No. of bedrooms	2	
Project score		
Water	✓ 40	Target 40
Thermal Comfort	V Pass	Target Pas
Energy	✓ 53	Target 50

hermal Comfort Commitments		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method				
The applicant must attach the certificate referred to under "Assessor Details" on the front page of Certificate" to the development application and construction certificate application for the propose applying for a complying development certificate for the proposed development, to that application Assessor Certificate to the application for an occupation certificate for the proposed development.	d development (or, if the applicant is ). The applicant must also attach the			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with th	e Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the or certificate, including the Cooling and Heating loads shown on the front page of this certificate.	details shown in this BASIX			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate), if applicate), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to acculate those specifications.			~	~
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.			~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.		~	~	~
			-	
Floor and wall construction Ar	ea			
floor - concrete slab on ground All	or part of floor area square metres			

BASIX

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Friday, 03 July 2020

Certificate Prep	ared by	
Name / Company Nan	e: Rapid Plans	
ABN (if applicable): 43	150064592	

Certificate No.: 1115628S Friday, 03 July 2020

# Version: 3.0 / DARWINIA 3 11 6

# **Description of project**

Project address	
roject name	Clues-Secondary
treet address	86 Quirk Street Dee Why 2099
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 10683
ot no.	3
ection no.	-
roject type	
oject type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	193
Roof area (m <sup>2</sup> )	43
Conditioned floor area (m2)	45.7
Unconditioned floor area (m2)	5.7
Total area of garden and lawn (m2)	55

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.	~	<ul> <li></li> </ul>	~
Cooling system			
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		<ul> <li></li> </ul>	~
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		<ul> <li></li> </ul>	~
Heating system			
The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		<ul> <li></li> </ul>	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		<ul> <li></li> </ul>	~
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		<ul> <li>✓</li> </ul>	<b>~</b>
Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a		<ul> <li>✓</li> </ul>	<b>~</b>
Laundry: natural ventilation only, or no laundry; Operation control: n/a		<ul> <li></li> </ul>	<b>~</b>
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) larges:			
at least 2 of the bedrooms / study; dedicated		<b>~</b>	-
at least 1 of the living / dining rooms; dedicated		<ul> <li>Image: A second s</li></ul>	<b>~</b>
the kitchen; dedicated		<ul> <li>✓</li> </ul>	<b>~</b>

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 1115628S

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Cert
all bathrooms/toilets; dedicated		<ul> <li>Image: A set of the set of the</li></ul>	
the laundry; dedicated		<ul> <li>✓</li> </ul>	
all hallways; dedicated		<ul> <li>Image: A second s</li></ul>	
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	<ul> <li></li> </ul>	
The applicant must install a window and/or skylight in 1 bathroom(s)toilet(s) in the development for natural lighting.	~	<ul> <li>Image: A set of the set of the</li></ul>	
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		<ul> <li></li> </ul>	
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		<ul> <li>Image: A set of the set of the</li></ul>	
The applicant must install a fixed outdoor clothes drying line as part of the development.		<b>~</b>	

nent www.basix.nsw.gov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 1115628S Friday, 03 July 2020

### 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 55 square metres of the site.	~	~	
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 4 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 1000 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 45 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> <li>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.)</li> </ul>		<b>_</b>	<b>_</b>

Certificate No.: 1115628S

Friday, 03 July 2020

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA\_3\_11\_6

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA 3 11 6 Certificate No.: 1115628S Friday, 03 July 2020



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gend				
hese commitments, "applicant" means the person carrying	out the development.			
mmitments identified with a v in the "Show on DA plans" velopment application is to be lodged for the proposed deve		companying the development app	ication for the proposed development	ıt (if a
mmitments identified with a v in the "Show on CC/CDC p tificate / complying development certificate for the propose		n in the plans and specifications ac	companying the application for a cor	struction
mmitments identified with a v in the "Certifier check" colu al) for the development may be issued.	mn must be certified by a certifying aut	hority as having been fulfilled, before	re a final occupation certificate(eithe	r interim or
Planning. Industry & Environment www.basix.nsw.gov.au	Version: 3.0 / DARWINIA 3 11 6	Certificate No.: 1115628S	Fridav. 03 July 2020	page



SHADOW PLANS **Basix Secondary Dwelling**  REVISION NO.

-DATE 16-7-2020 DRAWING NO. DA5004