

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

Single Dwelling

Certificate number: 1219810S_04

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 1219810S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 01 November 2022

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



Project summary				
Project name	ect name 1/386 Booker Bay Road_04			
Street address	386 booker bay Road Booker Bay 2257			
Local Government Area	Central Coast Council			
Plan type and plan number	deposited 7736			
Lot no.	368			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	2			
Project score				
Water	✓ 44 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 53 Target 50			

Certificate Prepared by
Name / Company Name: Tom Luedecke
ABN (if applicable): N/A

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 1/10

Description of project

BASIX

Project address			
Project name	1/386 Booker Bay Road_04		
Street address	386 booker bay Road Booker Bay 2257		
Local Government Area	Central Coast Council		
Plan type and plan number	Deposited Plan 7736		
Lot no.	368		
Section no.	-		
Project type			
Project type	separate dwelling house		
No. of bedrooms	2		
Site details			
Site area (m²)	165		
Roof area (m²)	100		
Conditioned floor area (m2) 115.0			
Unconditioned floor area (m2)	0.0		
Total area of garden and lawn (m2) 51			

Assessor details and thermal loads							
Assessor number	n/a						
Certificate number	n/a						
Climate zone	n/a						
Area adjusted cooling load (MJ/m².year)	n/a						
Area adjusted heating load (MJ/m².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	✓ 44 Target 40						
Thermal Comfort	✓ Pass Target Pass						
Energy	✓ 53 Target 50						

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 2/10

Schedule of BASIX commitments

BASIX

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 30 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 5 star in each toilet in the development.		~	V
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.	~	~	V
The applicant must configure the rainwater tank to collect rain runoff from at least 80 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	V
The applicant must connect the rainwater tank to:			
 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.) 		V	~

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 3/10

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.	V	→	-	
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	→	V	
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	V	
The dwelling must not contain third level habitable attic room.	~	✓	V	
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, 61 square metres	nil	
floor - above habitable rooms or mezzanine, 54 square metres, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 4/10

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.	-	→	V	
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	→	V	
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.			V	
- Aluminium single clear				
- Aluminium double (air) clear				
- Timber/uPVC/fibreglass single clear				
- Timber/uPVC/fibreglass double (air) clear				
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	V	
 Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view. 		→	-	
 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. 	~	→	V	
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)	Туре	Shading device
S01	0.50	timber, double clear/air fill	no shading

V	Vindow/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
N	North facing					

BASIX

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 5/10

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W08	2400	2980	aluminium, double (air), clear	verandah 1500 mm, 2200 mm above base of window or glazed door	not overshadowed
W01	2400	1800	aluminium, single, clear	pergola (adjustable battens) 1500 mm, 300 mm above head of window or glazed door	not overshadowed
FG01	520	2400	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
FG02	520	2400	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
East facing					
W05	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W06	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W02	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W03	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W09	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W04	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W10	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W12	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W11	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W13	1460	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	not overshadowed
South facing					
W14	2400	4184	aluminium, single, clear	eave 1800 mm, 600 mm above head of window or glazed door	1-2 m high, <1.5 m away

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 6/10

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
West facing					
W07	1460	850	aluminium, single, clear	solid overhang 1200 mm, 600 mm above head of window or glazed door	>4 m high, <2 m away

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 7/10

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	~	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	V
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	V
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 3 of the bedrooms / study; dedicated			

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 8/10

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		✓	V
the laundry; dedicated		→	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 9/10

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1219810S_04 Tuesday, 01 November 2022 page 10/10



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

Single Dwelling

Certificate number: 1235296S 04

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 1235296S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 01 November 2022

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



Project summary			
Project name	2/386 Booker Bay Road _04		
Street address	386 booker bay Road Booker Bay 2257		
Local Government Area	Central Coast Council		
Plan type and plan number	deposited 7736		
Lot no.	368		
Section no.	-		
Project type	separate dwelling house		
No. of bedrooms	2		
Project score			
Water	✓ 44 Target 40		
Thermal Comfort	✓ Pass Target Pass		
Energy	✓ 53 Target 50		

Certificate Prepared by
Name / Company Name: Tom Luedecke
ABN (if applicable): N/A

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 1/9

Description of project

BASIX

Project address	
Project name	2/386 Booker Bay Road _04
Street address	386 booker bay Road Booker Bay 2257
Local Government Area	Central Coast Council
Plan type and plan number	Deposited Plan 7736
Lot no.	368
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	173
Roof area (m²)	108
Conditioned floor area (m2)	116.0
Unconditioned floor area (m2)	0.0
Total area of garden and lawn (m2)	54

Assessor details and thermal lo	ads
Assessor number	n/a
Certificate number	n/a
Climate zone	n/a
Area adjusted cooling load (MJ/m².year)	n/a
Area adjusted heating load (MJ/m².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	✓ 44 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	√ 53 Target 50

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 2/9

Schedule of BASIX commitments

BASIX

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 30 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 5 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 108 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:			
 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.) 		V	~

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 3/9

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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	V	V
The dwelling must not contain third level habitable attic room.	•	~	V
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.	~	→	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 69 square metres	nil	
floor - above habitable rooms or mezzanine, 47 square metres, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 4/9

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	
Vindows, 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.	-	→	V	
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	•	V	
The following requirements must also be satisfied in relation to each window and glazed door:	~	•	V	
• For the following glass and frame types, the certifier check can be performed by visual inspection.			V	
- Aluminium single clear				
- Aluminium double (air) clear				
- Timber/uPVC/fibreglass single clear				
- Timber/uPVC/fibreglass double (air) clear				
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		•	V	
 Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view. 		•	V	
 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. 	-	•	V	

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W19	2100	2984	aluminium, single, clear	eave 1500 mm, 600 mm above head of window or glazed door	not overshadowed
W15	2400	3580	aluminium, single, clear	pergola (adjustable battens) 1500 mm, 300 mm above head of window or glazed door	not overshadowed
FG03	520	2083	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 5/9

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
FG04	520	2083	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
South facing					
W18	527	1570	aluminium, single, clear	eave 900 mm, 600 mm above head of window or glazed door	2-4 m high, 2-5 m away
W23	1460	2650	aluminium, single, clear	eave 900 mm, 600 mm above head of window or glazed door	not overshadowed
West facing					
w16	1416	1570	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	2-4 m high, 2-5 m away
W17	527	1570	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	>4 m high, <2 m away
W21	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W20	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W22	1416	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 6/9

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	~	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	V
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	V
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 3 of the bedrooms / study; dedicated			

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 7/9

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		✓	V
the laundry; dedicated		→	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 8/9

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235296S_04 Tuesday, 01 November 2022 page 9/9



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

Single Dwelling

Certificate number: 1235295S 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 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 1235295S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 08 November 2022

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



Project summary				
Project name	3/386 Booker Bay R	3/386 Booker Bay Road _05		
Street address	386 booker bay Roa	ad Booker Bay 2257		
Local Government Area	Central Coast Coun	cil		
Plan type and plan number	deposited 7736			
Lot no.	368			
Section no.	-			
Project type	separate dwelling he	separate dwelling house		
No. of bedrooms	2	2		
Project score				
Water	4 4	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 53	Target 50		

Certificate Prepared by
Name / Company Name: Tom Luedecke
ABN (if applicable): N/A

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 1/9

Description of project

BASIX

Project address	
Project name	3/386 Booker Bay Road _05
Street address	386 booker bay Road Booker Bay 2257
Local Government Area	Central Coast Council
Plan type and plan number	Deposited Plan 7736
Lot no.	368
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	146
Roof area (m²)	126
Conditioned floor area (m2)	108.0
Unconditioned floor area (m2)	0.0
Total area of garden and lawn (m2)	40

Assessor details and thermal I	oads	
Assessor number	n/a	
Certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m².year)	n/a	
Area adjusted heating load (MJ/m².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	✓ 44	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 53	Target 50

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 2/9

Schedule of BASIX commitments

BASIX

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 30 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.		~	V
The applicant must install a toilet flushing system with a minimum rating of 5 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 2500 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 126 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:			
 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.) 		~	~

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 3/9

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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	V	V
The dwelling must not contain third level habitable attic room.	~	V	V
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, 29 square metres	nil	
floor - above habitable rooms or mezzanine, 79 square metres, framed	nil	
floor - suspended floor above garage, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
internal wall shared with garage - single skin masonry	nil	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 4/9

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.	~	→	V
The following requirements must also be satisfied in relation to each window and glazed door:	~	~	V
• For the following glass and frame types, the certifier check can be performed by visual inspection.			V
- Aluminium single clear			
- Aluminium double (air) clear			
- Timber/uPVC/fibreglass single clear			
- Timber/uPVC/fibreglass double (air) clear			
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	V
 Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view. 		✓	V
• 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.	•	→	V

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
FG05	520	1950	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
FG06	520	1950	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
W27	2100	3580	aluminium, single, clear	pergola (adjustable battens) 2000 mm, 300 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 5/9

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W23	2100	1800	aluminium, single, clear	eave 1500 mm, 600 mm above head of window or glazed door	not overshadowed
East facing					
W31	520	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W32	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W25	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W29	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W26	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W27	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W33	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W34	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W30	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W32a	1460	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
South facing					
W34	2100	4184	aluminium, double (air), clear	verandah 2400 mm, 2200 mm above base of window or glazed door	1-2 m high, <1.5 m away

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 6/9

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	~	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	V
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	V
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 3 of the bedrooms / study; dedicated			

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 7/9

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		✓	V
the laundry; dedicated		•	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 8/9

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235295S_05 Tuesday, 08 November 2022 page 9/9



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

Single Dwelling

Certificate number: 1235463S 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 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 1235463S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 08 November 2022

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



Project summary			
Project name	4/386 Booker Bay Road_05		
Street address	386 booker bay Road Booker Bay 2257		
Local Government Area	Central Coast Council		
Plan type and plan number	deposited 7736		
Lot no.	368		
Section no.	-		
Project type	separate dwelling house		
No. of bedrooms	2		
Project score			
Water	✓ 43 Target 40		
Thermal Comfort	✓ Pass Target Pass		
Energy	✓ 53 Target 50		

Certificate Prepared by
Name / Company Name: Tom Luedecke
ABN (if applicable): N/A

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 1/9

Description of project

BASIX

Project address	
Project name	4/386 Booker Bay Road_05
Street address	386 booker bay Road Booker Bay 2257
Local Government Area	Central Coast Council
Plan type and plan number	Deposited Plan 7736
Lot no.	368
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	173
Roof area (m²)	155
Conditioned floor area (m2)	112.0
Unconditioned floor area (m2)	0.0
Total area of garden and lawn (m2)	64

Assessor details and thermal I	oads	
Assessor number	n/a	
Certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m².year)	n/a	
Area adjusted heating load (MJ/m².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	✓ 43	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	√ 53	Target 50

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463\$_05 Tuesday, 08 November 2022 page 2/9

Schedule of BASIX commitments

BASIX

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 30 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 5 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.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	V	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 155 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:			
 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.) 		V	~

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 3/9

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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.		V	V
The dwelling must not contain third level habitable attic room.		V	V
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.	V	-	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 32 square metres	nil	
floor - above habitable rooms or mezzanine, 79 square metres, framed	nil	
floor - suspended floor above garage, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
internal wall shared with garage - single skin masonry	nil	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 4/9

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
	~	→	-
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	V	V
The following requirements must also be satisfied in relation to each window and glazed door:	~	V	V
• 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 Device (Dimension within 10%)	Overshadowing
North facing					
W40	1416	640	aluminium, single, clear	none	not overshadowed
FG08	520	1750	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
FG07	520	1750	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
W36	2400	2400	aluminium, single, clear	solid overhang 2400 mm, 600 mm above head of window or glazed door	2-4 m high, 2 m away
W43	520	850	aluminium, single, clear	eave 600 mm, 600 mm above head of window or glazed door	not overshadowed
W41	2400	2984	aluminium, single, clear	verandah 1500 mm, 2200 mm above base of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 5/9

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
South facing					
W44	527	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	not overshadowed
W47	2400	4184	aluminium, single, clear	verandah 2400 mm, 2200 mm above base of window or glazed door	1-2 m high, <1.5 m away
West facing					
W38	527	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W45	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W37	527	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W42	527	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W44	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W46	1460	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W39	527	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W45a	1416	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 6/9

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	V	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	~
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	-
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 3 of the bedrooms / study; dedicated		_	

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 7/9

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		✓	V
the laundry; dedicated		•	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 8/9

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235463S_05 Tuesday, 08 November 2022 page 9/9



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

Single Dwelling

Certificate number: 1235488S 04

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 1235488S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 01 November 2022

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



Project summary					
Project name	5/386 Booker Bay R	load_04			
Street address	386 booker bay Roa	nd Booker Bay 2257			
Local Government Area	Central Coast Coun	cil			
Plan type and plan number	deposited 7736				
Lot no.	368				
Section no.	-				
Project type	separate dwelling he	separate dwelling house			
No. of bedrooms	2	2			
Project score					
Water	✓ 42	Target 40			
Thermal Comfort	✓ Pass	Target Pass			
Energy	✓ 52	Target 50			

Certificate	Prepared by

Name / Company Name: Tom Luedecke

ABN (if applicable): N/A

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 1/9

Description of project

BASIX

Project address	
Project name	5/386 Booker Bay Road_04
Street address	386 booker bay Road Booker Bay 2257
Local Government Area	Central Coast Council
Plan type and plan number	Deposited Plan 7736
Lot no.	368
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	202
Roof area (m²)	128
Conditioned floor area (m2)	139.0
Unconditioned floor area (m2)	0.0
Total area of garden and lawn (m2)	67

Assessor details and thermal loads							
Assessor number	n/a						
Certificate number	n/a						
Climate zone	n/a						
Area adjusted cooling load (MJ/m².year)	n/a						
Area adjusted heating load (MJ/m².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	✓ 42	Target 40					
Thermal Comfort	✓ Pass	Target Pass					
Energy	✓ 52	Target 50					

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 2/9

Schedule of BASIX commitments

BASIX

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 30 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 5 star in each toilet in the development.		V	~
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		V	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2500 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 128 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:			
 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.) 		•	~

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 3/9

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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	V	V
The dwelling must not contain third level habitable attic room.	•	~	V
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.	~	→	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 83 square metres	nil	
floor - above habitable rooms or mezzanine, 55 square metres, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 4/9

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.	~	V	V		
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	V	~	V		
The following requirements must also be satisfied in relation to each window and glazed door:	V	~	V		
• For the following glass and frame types, the certifier check can be performed by visual inspection.			V		
- Aluminium single clear					
- Aluminium double (air) clear					
- Timber/uPVC/fibreglass single clear					
- Timber/uPVC/fibreglass double (air) clear					
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	V		
 Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view. 		V	V		

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W53	2400	2984	aluminium, single, clear	verandah 1500 mm, 2200 mm above base of window or glazed door	not overshadowed
FG09	520	2100	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
FG10	520	2100	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
East facing					
W54	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 5/9

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W51	1416	1570	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W48	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W50	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W49	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W55	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W56	1416	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	not overshadowed
South facing	<u>'</u>				
W57	2400	2890	aluminium, single, clear	verandah 1800 mm, 2200 mm above base of window or glazed door	not overshadowed
W52	2700	4184	aluminium, single, clear	pergola (adjustable battens) 2400 mm, 300 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 6/9

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	~	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	V
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	V
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 3 of the bedrooms / study; dedicated			

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 7/9

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		✓	V
the laundry; dedicated		•	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 8/9

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235488S_04 Tuesday, 01 November 2022 page 9/9



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

Single Dwelling

Certificate number: 1235600S_04

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 1235600S_03 lodged with the consent authority or certifier on 10 December 2021 with application DA/63169/2021.

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

BASIX

Date of issue: Tuesday, 01 November 2022

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



Project summary				
Project name	ect name 6/386 Booker Bay Road_04			
Street address	386 booker bay Roa	ad Booker Bay 2257		
Local Government Area	Central Coast Coun	cil		
Plan type and plan number	deposited 7736			
Lot no.	368	368		
Section no.	-	-		
Project type	separate dwelling he	separate dwelling house		
No. of bedrooms	2	2		
Project score				
Water	✓ 44	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 52	Target 50		

Certificate Prepared by			
Name / Company Name: Tom Luedecke			
ABN (if applicable): N/A			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 1/9

Description of project

BASIX

Project address	
Project name	6/386 Booker Bay Road_04
Street address	386 booker bay Road Booker Bay 2257
Local Government Area	Central Coast Council
Plan type and plan number	Deposited Plan 7736
Lot no.	368
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	2
Site details	
Site area (m²)	190
Roof area (m²)	122
Conditioned floor area (m2)	129.0
Unconditioned floor area (m2)	0.0
Total area of garden and lawn (m2)	49

Assessor details and thermal loads						
Assessor number	n/a					
Certificate number	n/a					
Climate zone	n/a					
Area adjusted cooling load (MJ/m².year)	n/a					
Area adjusted heating load (MJ/m².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	✓ 44 Target 40					
Thermal Comfort	✓ Pass Target Pass					
Energy	✓ 52 Target 50					

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 2/9

Schedule of BASIX commitments

BASIX

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 30 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 5 star in each toilet in the development.		~	V
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		V	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	V
The applicant must configure the rainwater tank to collect rain runoff from at least 122 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		V	V
The applicant must connect the rainwater tank to:			
 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.) 		•	•

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 3/9

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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	V	V
The dwelling must not contain third level habitable attic room.	V	~	-
Floor, walls and ceiling/roof	1		<u>'</u>
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	~	<u> </u>	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 78 square metres	nil	
floor - above habitable rooms or mezzanine, 51 square metres, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

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, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 4/9

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.	~	→	V	
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	~	V	
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				
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	V	
 Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view. 		→	-	
 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. 	~	→	V	
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)	Туре	Shading device
S01	0.50	timber, double clear/air fill	no shading

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

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 5/9

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W63	2400	2890	aluminium, single, clear	verandah 1500 mm, 2200 mm above base of window or glazed door	not overshadowed
FG11	520	2100	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
FG12	520	2100	aluminium, single, clear	eave 1200 mm, 300 mm above head of window or glazed door	not overshadowed
South facing					
W67	2700	4184	aluminium, single, clear	verandah 1500 mm, 2200 mm above base of window or glazed door	not overshadowed
W62	2400	2984	aluminium, single, clear	pergola (adjustable battens) 2400 mm, 300 mm above head of window or glazed door	not overshadowed
West facing					
W58	1416	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	>4 m high, 2-5 m away
W61	1416	1570	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	>4 m high, 2-5 m away
W64	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W59	1416	850	aluminium, single, clear	eave 450 mm, 600 mm above head of window or glazed door	>4 m high, 2-5 m away
W60	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W65	1416	850	aluminium, single, clear	eave 300 mm, 600 mm above head of window or glazed door	not overshadowed
W66	1416	850	aluminium, single, clear	eave 1500 mm, 600 mm above head of window or glazed door	not overshadowed

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 6/9

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: solar (electric boosted) with a performance of 36 to 40 STCs or better.	V	✓	-
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: 7 star (average zone)		~	~
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: 7 star (average zone)		~	~
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: 7 star (average zone)		•	
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: 7 star (average zone)		~	V
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: interlocked to light		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	-
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 3 of the bedrooms / study; dedicated		_	

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 7/9

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		✓	V
the laundry; dedicated		•	-
all hallways; dedicated		V	V
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 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
The applicant must install an induction 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.			

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 8/9

Legend

BASIX

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.

Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_20_0 Certificate No.: 1235600S_04 Tuesday, 01 November 2022 page 9/9