BASIX Certificate

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

Multi Dwelling

Certificate number: 1737016M 03

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 1737016M submitted to the consent authority or certifier on 08 March 2024 with application DA2024/0190.

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 Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Monday, 02 December 2024

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



Project summary		
Project name	20140_03	
Street address	32 GOLF AVENUE MONA VALE 2103	
Local Government Area	NORTHERN BEACHES	
Plan type and plan number	Strata Plan 57603	
Lot No.	1	
Section no.	-	
No. of residential flat buildings	1	
Residential flat buildings: no. of dwellings	4	
Multi-dwelling housing: no. of dwellings	2	
No. of single dwelling houses	0	
Project score		
Water	🖌 40 Target	40
Thermal Performance	V Pass Target	Pass
Energy	🖌 67 Target	67
Materials	✓ -100 Target	n/a



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Description of project

Project address

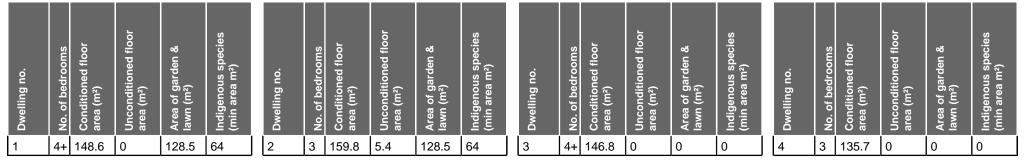
Project name	20140_03			
Street address	32 GOLF AVENUE MONA VALE 2103			
Local Government Area	NORTHERN BEACHES			
Plan type and plan number	Strata Plan 57603			
Lot No.	1			
Section no.	-			
Project type				
No. of residential flat buildings	1			
Residential flat buildings: no. of dwellings	4			
Multi-dwelling housing: no. of dwellings	2			
No. of single dwelling houses	0			
Site details				
Site area (m²)	1394			
Roof area (m²)	560			
Non-residential floor area (m ²)	0			
Residential car spaces	14			
Non-residential car spaces	0			

Common area landscape		
Common area lawn (m²)	0	
Common area garden (m ²)	121.8	
Area of indigenous or low water use species (m ²)	-	
Assessor details and therma	al loads	
Assessor number	DMN/24/2214	
Certificate number	HR-D39E42-01	
Climate zone	56	
Project score		
Water	V 40	Target 40
Thermal Performance	V Pass	Target Pass
Energy	67	Target 67
Materials	-100	Target n/a

Description of project

The tables below describe the dwellings and common areas within the project

Residential flat buildings - Building1, 4 dwellings, 2 storeys above ground



Multi-dwelling houses

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
5	4+	133.3	6.3	108	54	6	4+	133.3	6.3	107.4	54

Description of project

The tables below describe the dwellings and common areas within the project

Common areas of unit building - Building1

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift bank (No. 1)	-	Undercover car park area (B)	699	Wine Cellar (LB)	20
Battery room (LB)	18				

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

3. Commitments for common areas and central systems/facilities for the development (non-building specific)

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carriedout. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			>
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		~	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	>	>	>
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			>

Floor types					
Floor type	Area (m2)	Insulation	Low emissions option		
suspended floor above enclosed subfloor, frame: suspended concrete slab	312.2	-	none		
suspended floor above open subfloor, frame: suspended concrete slab	15.7	-	none		
floors above habitable rooms, frame: suspended concrete slab	268.4	-	none		

External wall types					
External wall type	Construction type	Area (m2)	Low emissions option	Insulation	
External wall type 1	cavity brick,frame:no frame	374	none	fibreglass batts or roll	
External wall type 2	framed (fibre cement sheet or boards),frame:light steel frame	6.9	none	fibreglass batts or roll	

Internal wall types					
Internal wall type	Construction type	Area (m2)	Insulation		
Internal wall type 1	plasterboard, frame:light steel frame	369.3	-		

Reinforcement concrete frames/columns				
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option		
no	-	-		

Ceiling and roof types				
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation	
concrete - plasterboard internal, frame: light steel frame	393	-	fibreglass batts or roll	

Glazing types			Frame types				
Single glazing (m ²)	Double glazing (m²)	Triple glazing (m ²)	Aluminium frames (m²)	Timber frames (m ²)	uPVC frames (m²)	Steel frames (m ²)	Composite frames (m²)
-	149.6	-	149.6	-	-	-	-

(b) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			1
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	~	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		>	~
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		v	~
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		~	~
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		~	~
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	>	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	>	v	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	~	~	~

	Fixtures			Appli	ppliances Individual pool			Individual spa						
Dwelling no.	All shower- heads	All toilet flushing systems	kitchen	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	not specified	5 star	-	-	-	-	-	-	-

BASIX Department of Planning, Housing and Infrastructure

			Alternative w	ater source						
Dwelling no.	Alternative water supply systems	Size	Configuration		ndscape nnection	Toilet connec (s)	tion	Laundry	Pool top- up	Spa top-up
1, 2	Individual water tank (No. 1)	Tank size (min) 2000 liters	To collect run-off from at least: 100 square metres of roof area; 0 square metres of impervious area; 0 square metres of garden and lawn area 0 square metres of planter box area.	; and		no		no	no	no
All other dwellings	No alternative water supply	-	-	-		-		-	-	-
(ii) Energy							Shov DA p		 on CC/CDC & specs	Certifier check
(b) The applica supplied by	ant must install each hot wate that system. If the table spe	er system specif	below in carrying out the development of a ied for the dwelling in the table below, so that hot water system for the dwelling, then the a t water is supplied by that central system.	at the dwelling'	's hot wate	er is	•	•	~	~
			nd laundry of the dwelling, the ventilation sys ve the operation control specified for it in the		for that roo	om in			~	~
headings o cooling or h such areas	f the "Cooling" and "Heating' neating system is specified ir	' columns in the table for "L	m/s specified for the dwelling under the "Liv table below, in/for at least 1 living/bedroom iving areas" or "Bedroom areas", then no sy ir conditioning system, then the system mus	area of the dw stems may be	velling. If n installed i	o n any			~	~
(e) This comm the table be lighting" for specified for	itment applies to each room elow (but only to the extent s each such room in the dwel	pecified for that ling is fluoresce hen the light fitt	welling which is referred to in a heading to th room or area). The applicant must ensure th nt lighting or light emitting diode (LED) lighting ings in that room or area must only be capat	at the "primary	ry type of a "dedicated	artificial d" is			~	~
the table be			velling which is referred to in a heading to the room or area). The applicant must ensure the transmission of a second se				•	/	~	~
(g) This comm	itment applies if the applican	t installs a wate	r heating system for the dwelling's pool or sp	a. The application	ant must:					
			ndividual Pool" column of the table below (o cant must install a timer, to control the pool		must not i	nstall			 Image: A second s	
(bb) ins	tall the system specified for t	the spa in the "I	ndividual Spa" column of the table below (or	alternatively m	nust not in	stall		1		

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(h) The applicant must install in the dwelling:			
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		~	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		v	~
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		~	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		~	

	Hot water	Bathroom ven	tilation system	Kitchen venti	ilation system	Laundry vent	ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	electric instantaneous	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Coc	bling	Неа	ting	Natural lighting		
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen	
1	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	0	yes	
2	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1	yes	
All other dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	2	yes	

		Individual pool		Individua	l spa		Appliances	es other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line		
ll Iwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	-	no	no		
(iii) Therma	al Performance							Show on DA plans	Show on CC/Cl plans & specs	DC Certifier check		
"Assess the app	sor Certificate") to th blicant is applying for	ne certificate referred e development applica a complying developr sor Certificate to the a	ation and cons	truction certificate a for the proposed de	pplication for evelopment, t	the proposed develor to that application).	opment (or, if The applicant					
(b) The As	sessor Certificate mu	ust have been issued	by an Accredit	ed Assessor in acco	ordance with t	he Thermal Comfort	Protocol.					
		development on the A ails shown in the "The			stent with the	details shown in this	s BASIX					
the The	ermal Comfort Protoc	the plans accompany ol requires to be show tify that this is the cas	vn on those pla					~				
certifica	ate, if applicable), all	the plans accompany thermal performance and to calculate those	specifications						~			
Certifica	ate, and in accordan	t the development in a ce with those aspects to calculate those spe	of the develop						~	~		
(g) Where	there is an in-slab he	eating or cooling syste	m, the applica	nt must:				~	~	~		
(aa)) Install insulation wit	h an R-value of not le	ss than 1.0 ard	ound the vertical edg	ges of the per	imeter of the slab; o	r					
(bb)	On a suspended flo edges of the perim	or, install insulation w leter of the slab.	ith an R-value	of not less than 1.0	underneath t	he slab and around	the vertical					
(h) The app	plicant must construc	ct the floors and walls	of the develop	ment in accordance	with the spe	cifications listed in th	ne table below.	~	~	~		
	licant must show on fans set out in The A	The plans accompany	ying The devel	opment application	for The propo	osed development, T	he locations of					

(iii) Thermal Performance	Show on	Show on CC/CDC	Certifier
	DA plans	plans & specs	check
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		`	

	Thermal loads						
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)				
1	12.7	7.0	19.700				
2	12.4	12.1	24.500				
3	15.1	10.1	25.200				
All other dwellings	6.8	6.3	13.100				

(c) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		~	>
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	~	~	~
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	~	~	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		~	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		~	~
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		~	•

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common	no common facility	no common facility	6 star	no common laundry facility
areas				

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		~	>
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		~	>
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	>	~	>

	Common area v	entilation system		Common area lighting			
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS		
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	-		
Undercover car park area (B)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	-		
Wine Cellar (LB)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	motion sensors	-		
Battery room (LB)	ventilation exhaust only	thermostatically controlled	light-emitting diode	motion sensors	-		

Central energy systems	Туре	Specification
	motor	Number of levels (including basement): 2 number of levels from the bottom of the lift shaft to the top of the lift shaft: 4 number of lifts: 1 lift load capacity: >= 1001 kg but <= 1500kg

2. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	<	>	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		<	>
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		>	>
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		~	~
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		~	~
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	~	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		>	
(g) The pool or spa must be located as specified in the table.	~	~	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	~	~	~

			Fixture	es		Appli	ances		Indiv	dual pool			ndividual spa	1
Dwelling no.	All shower- heads	All toilet flushing systems	taps	bathroom	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	-	-	-	-	-	-	-	-	-

Department of Planning, Housing and BASIX Infrastructure

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top- up	Spa top-up
All dwellings	Individual water tank (No. 1)	Tank size (min) 2000 liters	To collect run-off from at least: 100 square metres of roof area; 0 square metres of impervious area; 0 square metres of garden and lawn area; and 0 square metres of planter box area.	yes	no	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	>	~	>
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		>	>
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		~	>
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	•
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	>	~	~
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		✓	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(h) The applicant must install in the dwelling:			
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		~	~
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		~	
(j) The applicant must install the photovoltaic system specified for the dwelling under the "Photovoltaic system" heading of the "Alternative energy" column of the table below, and connect the system to that dwelling's electrical system.	~	~	~

	Hot water	Bathroom ven	tilation system	Kitchen ventilation system		Laundry vent	ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	electric instantaneous	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Coc	bling	Hea	ting	Natural lig	Inting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	2	yes

	Individual pool			Individual sp	Da		Appliances other efficiency measures			
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	-	-	no	no

		Alternative energy	
Dwelling no.	Photovoltaic system (min rated electrical output in peak kW)	Photovoltaic collector installation	Orientation inputs
All dwellings	between >0° to <=10° degree to the horizontal	5	Ν

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol 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.	>		
(e) 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 to calculate those specifications.		~	
(f) 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.		~	~
(g) Where there is an in-slab heating or cooling system, the applicant must:	~	~	~
(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.			
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	~	~	~
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	~		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		×	

		Thermal loads	
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
5	3.0	11.6	14.600
All other dwellings	13.1	7.8	20.900

		Construction of floors and walls				
Dwelling no.	Concrete slab on ground Suspended floor with open subfloor (m ²)				Primarily rammed earth or mudbrick walls	
5	-	3.6	73.0	-	no	
All other dwellings	0.6	3.6	72.4	-	no	

	Floor types									
	Concrete slab on ground			Suspended flo	or above encl	osed subfloor	Suspended floor above open subfloor			
Dwelling no.	Area (m²)	Insulation	Low emissions option	Dematerialisation	Construction type	Area (m²)	Insulation	Construction type	Area (m²)	Insulation
5	-	-	-	conventional slab	concrete - suspended	73.0	-	concrete - suspended	3.6	-
All other dwellings	0.6	-	-	conventional slab	concrete - suspended	72.4	-	concrete - suspended	3.6	-

	0													
	Floor types													
	First floor above habitable Suspended rooms or mezzanine		ed floo	r above g	arage	Garage floor								
Dwelling no.	Construction type	Area (m²)	Insulation	Construction type	Area	(m²) li	nsulation	Const type	ruction	Area (m²)	Insulati	ion	Low emissions option	Dematerialisatio
All dwellings	concrete - suspended	63.0	-	-	-	-		-		0	-		none	conventional slab
	External walls													
			Externa	l wall type 1							External w	wall ty	pe 2	
Dwelling no.	Wall type	e A	urea (m²)	Insulation		Low emi option	ssions	Wall typ	e	Area (n	1 ²)	Insu	lation	Low emissions option
All dwellings	cavity bric	k 11	2.3	-		-		-		-		<u> </u> -		-
	External	walls												
			Externa	l wall type 3	wall type 3				External wall type 4					
Dwelling no.	Wall type	e A	urea (m²)	Insulation		Low emi option	ssions	Wall typ	e	Area (n	1 ²)	Insu	lation	Low emissions option
All dwellings	-	-		-		-		-		-		-		-
	Interna	walls												
		Internal wal	Is shared with g	garage			Internal w	all type 1				In	ternal wall typ	be 2
Dwelling no.	Wall typ	be Ar	ea (m²)	Insulation	Wall	type	Area (m	1 ²)	Insulati	on	Wall type		Area (m²)	Insulation
All dwellings	-	-	-		plaste frame steel f		66		-	-		•	-	-

	Ceiling and roo	f							
	Flat ceiling / pitched roof		roof	Raked ceiling / pitched or skillion roof			Flat ceiling / flat roof		
Dwelling no.	Construction type	Area (m²)	Insulation	Construction type	Area (m²)	Insulation	Construction type	Area (m²)	Insulation
All dwellings	-	-	Ceiling:,Roof:	-	-	Ceiling:,Roof:	concrete - plasterboard internal, frame: light steel frame	83.5	Ceiling:,Roof: none

		Glazing type			Glazing type Frame types					
Dwelling no.	Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)		
All dwellings	-	40.3	-	40.3	-	-	-	-		

3. Commitments for common areas and central systems/facilities for the development (non-building specific)

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		~	>
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	>	~	•
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	>	~	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		~	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		~	~
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		~	>

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	6 star	no common laundry facility

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		~	>
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		~	>
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	~	~	~

Central energy systems	Туре	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 2 peak kW
Other	-	-

Notes

- 1. In these commitments, "applicant" means the person carrying out the development.
- 2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
- 3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
- 4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
- 5. If a star or other rating is specified in a commitment, this is a minimum rating.
- 6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

Legend

- 1. Commitments identified with a "V" 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).
- 2. Commitments identified with a "V" in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
- 3. Commitments identified with a "" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfillment it is required to monitor in relation to the building or part, has been fulfilled).