Single Dwelling

Certificate number: 1296670S

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. www.basix.nsw.gov.au

Secretary
Date of issue: Wednesday, 06 April 2022
To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary					
Project name	ARCUS 20144	ARCUS 20144			
Street address	94 TORONTO Aven	94 TORONTO Avenue CROMER 2099			
Local Government Area	Northern Beaches C	Northern Beaches Council			
Plan type and plan number	deposited 404074	deposited 404074			
Lot no.	A				
Section no.	-	-			
Project type	separate dwelling ho	separate dwelling house			
No. of bedrooms	5	5			
Project score					
Water	✔ 48	Target 40			
Thermal Comfort	✓ Pass	Target Pass			
Energy	50	Target 50			

Certificate Prepared by	
Name / Company Name: Frys Energywise	
ABN (if applicable): 631418543	

Description of project

Project address	
Project name	ARCUS 20144
Street address	94 TORONTO Avenue CROMER 2099
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 404074
Lot no.	A
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	1864
Roof area (m²)	579
Conditioned floor area (m2)	305.0
Unconditioned floor area (m2)	12.0
Total area of garden and lawn (m2)	350

Assessor number	DMN/12/1441			
Certificate number	0007328271			
Climate zone	56			
Area adjusted cooling load (MJ/m².year)	25			
Area adjusted heating load (MJ/m².year)	39			
Ceiling fan in at least one bedroom	No			
Ceiling fan in at least one living room or other conditioned area	No			
Project score				
Water	✓ 48	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 50	Target 50		

Schedule of BASIX commitments
The commitments set out below regulate how the development certificate issued, for the proposed
Water Commitments
Fixtures

e proposed development is to be carried out. It is a condition of any development consent granted, or complying development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	
Fixtures				
The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.	um rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.			
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.	✓			
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~		
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		~		
Alternative water				
Rainwater tank				
The applicant must install a rainwater tank of at least 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 578.53 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:			_	
development (excluding the area of the roof which drains to any stormwater tank or private dam).				
development (excluding the area of the roof which drains to any stormwater tank or private dam). The applicant must connect the rainwater tank to:		· ·	*	

X Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_19_1 Certificate No.: 1296670S	Wednesday, (06 April 2022	
Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certific
Simulation Method			
The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Details") 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 an occupation certificate for the proposed development.			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX sertificate, including the Cooling and Heating loads shown on the front page of this certificate.			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited ssessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Pertificate, and all aspects of the proposed development which were used to calculate those specifications.	~	•	•
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Zertificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	•
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	_	_	

Floor and wall c	onstruction	Area
floor - concrete si	ab on ground	All or part of floor area square metres
floor - suspended	floor above garage	All or part of floor area

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_19_1 page 3/7 BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_19_1 Certificate No.: 1296670S **Energy Commitments** Hot water The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 6 stars. Cooling system The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5 V The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: EER 3.0 - 3.5 The cooling system must provide for day/night zoning between living areas and bedrooms 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: EER 3.0 - 3.5 V 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: EER 3.0 - 3.5 V The heating system must provide for day/night zoning between living areas and bedrooms V The applicant must install the following exhaust systems in the development At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off 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: Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_19_1

In these commitments, "applicant" means the person carrying out the development. Commitments identified with a win 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 win 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.

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 6 of the living / dining rooms;		~	~
the kitchen;		•	•
all bathrooms/toilets;		•	•
• the laundry;		•	~
all hallways;		•	~
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 6 bathroom(s)/toilet(s) in the development for natural lighting.	~	✓	~
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.			

Certificate No.: 1296670S

Wednesday, 06 April 2022

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INSULATION NOTES:

WALLS
- R2.5 EXTERNAL WALL INSULATION
- R1.5 INTERNAL WALL INSULATION TO PDR, BATH & WC
- WALL SARKING TO ALL EXTERNAL WALLS MID FLOOR
- R2.5 BULK INSULATION ABOVE GARAGE TO ROOMS ABOVE

CEILING

- R4.0 CEILING INSULATION (EXCLUDING GARAGE PORCH & ALFRESCO)
ROOF

- R1.5 ANTICON BLANKET TO METAL ROOF WHERE APPLICABLE.

birdy

JOB NO	20144	MODEL	CUSTOM	REV	DATE	DESCRIPTION	DRAWN
CLIENT	ARCUS RESIDENCE	FACADE	CUSTOM	F	06.08.2	1 FACADE CHANGE	MM
		INCLUSIONS	LUXE	G	27.08.2	1 REDUCED FLOOR PLAN	MM ,
ADDRESS	94 TORONTO AVE	LODGEMENT	DA/CC	Н	14.02.22	2 REVISED ALFRESCO & POOL	MM
	CROMER	COUNCIL	NORTHERN BEACHES COUNCIL	1	25.03.2	2 SUBMISSION PLANS	MM
SET	SUBMISSION PLANS	DP No	404074	J	06.04.22	2 BASIX COMMITMENTS	MM