BASIX[°]Certificate

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

Single Dwelling

Certificate number: 1065040S

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Monday, 23 December 2019 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary	
Project name	Palm Beach 2
Street address	26, lot 4 Ralston Street Palm Beach 2108
Local Government Area	Northern Beaches Council
Plan type and plan number	deposited 14048
Lot no.	4
Section no.	10
Project type	separate dwelling house
No. of bedrooms	5
Project score	
Water	V 42 Target 40
Thermal Comfort	V Pass Target Pass
Energy	V 56 Target 50

Certificate F	Prepared by
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Name / Company Name: Integreco Consulting Pty Ltd

ABN (if applicable): 42630013008

Description of project

Project address

Palm Beach 2
26, lot 4 Ralston Street Palm Beach 2108
Northern Beaches Council
Deposited Plan 14048
4
10
separate dwelling house
5
732
184
236.0
8.0

Assessor details and thermal loads BDAV/19/1921 Assessor number Certificate number 0004495610-01 56 Climate zone Area adjusted cooling load (MJ/m².year) 24 Area adjusted heating load (MJ/m².year) 40 Project score Water 42 Target 40 Thermal Comfort V Pass Target Pass Energy 56 Target 50

Schedule of BASIX commitments

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

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The swimming pool must not have a volume greater than 20 kilolitres.	~	~	
The swimming pool must be outdoors.	~	~	

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method			
The applicant must attach the certificate referred to under "Assessor Details" on the front page of 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 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 certificate, 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 Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.	~	~	~
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~
Where there is an in-slab heating or cooling system, the applicant must install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab, and underneath the slab if it is a suspended floor.	~	~	~
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	~	~	~

Floor and wall construction	Area
floor - concrete slab on ground	95.0 square metres
floor - suspended floor/open subfloor	39.0 square metres

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 5 stars.	~	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: 1-phase airconditioning; Energy rating: 2 Star (old label)		~	~
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: 2 Star (old label)		v	~
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: 2 Star (old label)		~	~
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: 2 Star (old label)		 	~
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: manual switch on/off			U U
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		Ĵ.	Ŭ
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	~
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the 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 4 of the bedrooms / study; dedicated 		 Image: A set of the set of the	~
 at least 3 of the living / dining rooms; dedicated 		 	~
the kitchen; dedicated		_	v

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets; dedicated		~	~
the laundry; dedicated			5
all hallways; dedicated		Ĵ.	Ŭ
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.	~	 Image: A set of the set of the	~
Swimming pool			
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): solar only		 Image: A set of the set of the	
The applicant must install a timer for the swimming pool pump in the development.		 Image: A set of the set of the	
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 1 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	~	~
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		v	

Legend

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

Commitments identified with a vi in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a vi 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 vi 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.