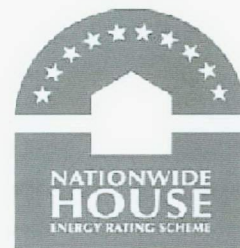




NatHERS Certificate

New Dwelling

5.9 Stars

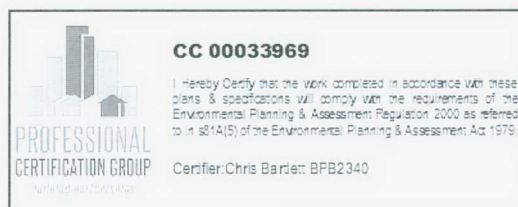


Simulation Software

Software Name BERS Pro 4.2
Software Version Release 110811/A
Engine Version CHENATH V2.13

Simulation Details

Project Name Anning_1
Date 02/2016
Location Ocean Shores 2483
Climate file climat10.TXT
Adjusted Star Rating 5.9 Stars
Conditioned Area 157.2 m²
Unconditioned Area 19.6 m²
Adjusted Cooling 25.8 MJ/m²
Adjusted Heating 19.1 MJ/m²
Adjusted Total 44.4 MJ/m²



Dwelling Address

DP Number 120617
Unit Number
Lot Number 149
House Number
Street Name Player Parade
Development Name
Suburb Ocean Shores 2483

Client Details

Name Anning
Phone 02 6674 4716 Fax
Email melissa@seabreezehomes.com
Postal Address c/- Sea-Breeze Homes P.O. Box 916 Coolangatta 4225
Street Details

Assessor Details

Name Roy Parker
Phone 0407624610 Fax
Email drafting@coastdesign.net.au
Postal Address P.O. Box 178 Bogangar 2488
Street Details 2 Watgum Place Bogangar

Signed by the Assessor.....

26.02.2016
Date...../...../.....

*Tilted roof windows with blinds cannot be modelled using this version of BERSPro.
All windows are modelled with Holland Blinds for regulatory purposes.*

BASI[®] Certificate

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

Single Dwelling

Certificate number: 674908S_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 18/09/2014 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Monday, 29 February 2016

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



Project summary

Project name	Anning_02
Street address	Player Parade Ocean Shores 2483
Local Government Area	Byron Shire Council
Plan type and plan number	deposited 1206177
Lot no.	149
Section no.	-
Project type	separate dwelling house
No. of bedrooms	4

Project score

Water	✓ 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 51	Target 40

Certificate Prepared by

Name / Company Name: Tweed Coast Design Drafting

ABN (if applicable): 90072388930

**CC 00033969**

I Hereby Certify that the work completed in accordance with these plans & specifications will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as referred to in s81A(5) of the Environmental Planning & Assessment Act 1979.

Certifier: Chris Bartlett BPB2340

Description of project

Project address

Project name	Anning_02
Street address	n/a Player Parade Ocean Shores 2483
Local Government Area	Byron Shire Council
Plan type and plan number	Deposited Plan 1206177
Lot no.	149
Section no.	-

Project type

Project type	separate dwelling house
No. of bedrooms	4

Site details

Site area (m ²)	752
Roof area (m ²)	317
Conditioned floor area (m2)	157.2
Unconditioned floor area (m2)	19.6
Total area of garden and lawn (m2)	410

Assessor details and thermal loads

Assessor number	3543
Certificate number	16290022
Climate zone	10
Area adjusted cooling load (MJ/m ² .year)	27
Area adjusted heating load (MJ/m ² .year)	22

Other

none	n/a
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Project score

Water	✓ 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 51	Target 40

Schedule of BASIX commitments

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

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 410 square metres of the site.	✓	✓	
Fixtures			
The applicant must install showerheads with a minimum rating of 3 star (> 6 but ≤ 7.5 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 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 5000 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 317 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		✓	✓
The applicant must connect the rainwater tank to: <ul style="list-style-type: none"> 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.) a tap that is located within 10 metres of the swimming pool in the development 		✓ ✓	✓ ✓
Swimming pool			
The swimming pool must not have a volume greater than 15 kilolitres.	✓	✓	

Water Commitments

The swimming pool must be outdoors.

Show on
DA plans



Show on CC/CDC
plans & specs




Certifier
check



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.		✓	✓
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	✓	✓	✓

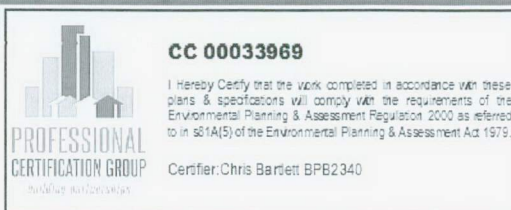
Floor and wall construction	Area
floor - concrete slab on ground	All or part of floor area square metres



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 4 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: ceiling fans; Energy rating: n/a		✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans; Energy rating: n/a		✓	✓
Heating system			
The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		✓	✓
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		✓	✓
Ventilation			
The applicant must install the following exhaust systems in the development: At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a Laundry: natural ventilation only, or no laundry; Operation control: n/a	<div><p>CC 00033969</p><p>I Hereby Certify that the work completed in accordance with these plans & specifications will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as referred to in s61A(5) of the Environmental Planning & Assessment Act 1979.</p><p>Certifier:Chris Bardett BPB2340</p></div>	✓	✓
		✓	✓
		✓	✓
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 • at least 1 of the living / dining rooms; dedicated • the kitchen; dedicated		✓	✓

Energy Commitments

- all bathrooms/toilets; dedicated
- the laundry; dedicated
- all hallways; dedicated



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

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 2 bathroom(s)/toilet(s) in the development for natural lighting.



Swimming pool

The development must not incorporate any heating system for the swimming pool.



The applicant must install a timer for the swimming pool pump in the development.



Other

The applicant must install a gas cooktop & gas oven in the kitchen of the dwelling.



The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.



The applicant must install a fixed outdoor clothes drying line as part of the development.



The applicant must install a fixed indoor or sheltered clothes drying line as part of the development.



Legend

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.

