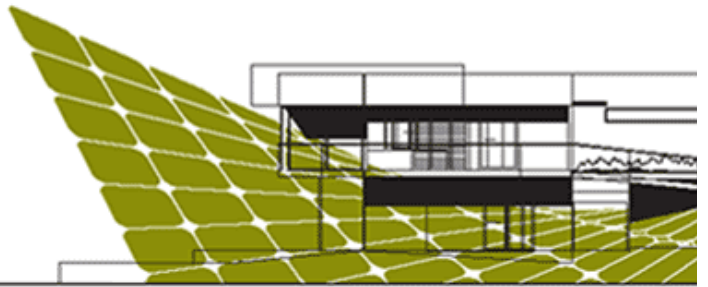


# BASIX Certificate



Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

Certificate number: 19148

## Description of project

### Project address and type

Project name	Presentation Worked Example
Street number	42
Street name	Basix Drive
Suburb	Brookvale
Post code	2100
Local Government Area	Warringah Council
Deposited Plan number	2378
Strata Plan number	
Lot number	4
Section	
Project type	Detached dwelling
Nature of project	

### Project details

Site area	450	m <sup>2</sup>
Gross floor area	265	m <sup>2</sup>
Roof area	236	m <sup>2</sup>
Number of bedrooms	4	
Total area of vegetation (garden and lawn)	130	m <sup>2</sup>
ABSA Certificate Number (if applicable)	1000	
Net conditioned floor area	216	m <sup>2</sup>
Concession claimed	not applicable	
Cooling load	51.7	MJ/m <sup>2</sup> /year
Heating load	63.1	MJ/m <sup>2</sup> /year
Total cooling and heating load	114.8	MJ/m <sup>2</sup> /year

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 25 June 2004, published by DIPNR. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

### Director-General

Date of issue: Wed Mar 16 10:57:50 EST 2005



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## Schedule of BASIX Commitments

These commitments 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.

Commitments	DA plans	CDC/CC plans & specifications	Certifier check
<b>LANDSCAPE</b>			
<b>Landscaping</b>			
The applicant must plant at least 130 square metres of indigenous vegetation on the site. Vegetation is indigenous if it is listed in the BASIX Specification as indigenous to the local government area in which the development is to be constructed.	✓	✓	
<b>STORMWATER</b>			
<b>Collection of rainwater and stormwater</b>			
The applicant must install a rainwater tank on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
<b>Rainwater tank</b>			
The applicant must configure the rainwater tank to collect rain runoff from at least 230 square metres of the roof area of the dwelling.		✓	✓
The applicant must connect the rainwater tank to all the toilets in the development, so that rainwater can be used for toilet flushing.		✓	✓
The applicant must connect the rainwater tank to the cold water tap that supplies each clothes washing machine in the development, so that rainwater can be used for clothes washing.		✓	✓
The applicant must connect the rainwater tank to at least one outdoor tap in the development so that rainwater can be used to irrigate vegetated areas of the site.		✓	✓
The rainwater tank must have a capacity of at least 5000 litres.	✓	✓	✓
<b>WATER</b>			
<b>Showerheads</b>			
The applicant must install showerheads with a minimum rating of 2A in all showers in the development.		✓	✓
<b>Toilets</b>			
The applicant must install a toilet flushing system with a minimum rating of 3A in each toilet in the development.		✓	✓
<b>Tap fittings</b>			
The applicant must install taps with a minimum flow rate of 3A in the kitchen in the development.		✓	
The applicant must install bathroom taps (other than showerheads) with a minimum flow rate of 3A in each bathroom in the development.		✓	
<b>Swimming pool and spa</b>			
The swimming pool must not have a volume greater than 50 kL.	✓	✓	
The swimming pool must have a pool cover.		✓	

Commitments	DA plans	CDC/CC plans & specifications	Certifier check
<b>THERMAL COMFORT - Simulation Method</b>			
<b>General</b>			
The applicant must attach certificate no. 1000 (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, then to that application).			
The Assessor certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol. The details on the Assessor certificate must be consistent with the details shown in this BASIX certificate. The applicant must attach the Assessor certificate to this BASIX certificate.			
The applicant must construct the development in accordance with the requirements 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 the values shown in the Assessor certificate.		✓	✓
(For the purposes of complying with this commitment, terms used in the Assessor certificate have the meanings given to those terms in the BASIX Specification.)			
<b>Energy</b>			
<b>Active cooling</b>			
The applicant must install a single phase a/c system - 5 Star, or one with a higher Star rating, for living areas of the dwelling.		✓	✓
The applicant must install a ceiling fan in each bedroom of the dwelling. The bedrooms (as constructed) must not incorporate any other active cooling system or any ducting which is designed to accommodate any other active cooling system.		✓	✓
<b>Active heating</b>			
The development (as constructed) must not incorporate an active heating system or any ducting which is designed to accommodate an active heating system.		✓	✓
<b>Hot water</b>			
The applicant must install the following hot water system in the development: solar (gas boosted).	✓	✓	✓
<b>Lighting</b>			
The applicant must install standard or compact fluorescent lighting as the primary type of artificial light in each of the following rooms:			
·at least 3 of the bedrooms / study		✓	✓
·the kitchen		✓	✓
·all bathrooms / toilets		✓	✓
·the garage		✓	✓
·the laundry		✓	✓
The applicant must install a window in the kitchen of the dwelling for natural lighting.	✓	✓	✓
The applicant must install a window in each bathroom and toilet in the development for natural lighting.	✓	✓	✓
<b>Cooking</b>			
The applicant must install a gas cooktop & gas oven in the kitchen of the dwelling.		✓	
<b>Swimming pool and spa</b>			
The applicant must install a timer for each swimming pool and spa pump in the development.		✓	
The applicant must install the following heating system for the swimming pool in the development: solar		✓	
<b>Design enhancements</b>			
The applicant must construct each refrigerator space in the development so that it is well ventilated, as defined in the BASIX Specification.		✓	
The applicant must install a fixed outdoor clothes drying line as part of the development.		✓	
<b>Alternative energy supply</b>			
The applicant must install a photovoltaic system as part of the development. The system must have the capacity to generate at least 1 peak kW of electricity. The applicant must connect this system to the development's electrical system.	✓	✓	✓
<b>END BASIX COMMITMENTS</b>			

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

2. Commitments identified with a ✓ in the "DA plans" column must be shown on the plans accompanying the

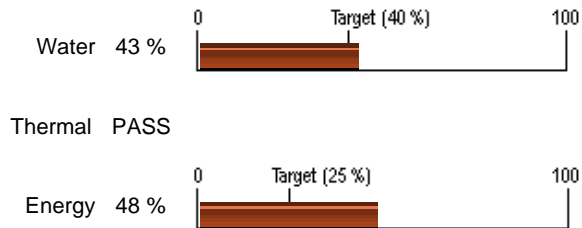
development application for the proposed development.

3. Commitments identified with a ✓ in the "CC/CDC plans and specifications" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
4. Commitments identified with a ✓ in the "OC" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

Certificate number: 19148

## BASIX Report

The following scores have been achieved for this development:



Thermal PASS

	Score	Appliance score	Total
Water	43	12.2	55
Energy	48	5.6	54

These scores are based on the following commitments relating to appliances:

Appliance Selections	
<b>Clothes washer</b>	
	The applicant must install a clothes washer with a minimum water efficiency rating of 5A in the dwelling.
<b>Refrigerator</b>	
	The applicant must install a refrigerator with a minimum energy Star rating of 5 in the dwelling.
<b>Clothes dryer</b>	
	The applicant must install a clothes dryer with a minimum energy Star rating of 1 in the dwelling.
<b>END APPLIANCE SELECTIONS</b>	