

BASIX Certificate

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

Certificate number: 126S

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 30/09/05, published by Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Wednesday, 29 June 2005



Score

- ✓ Water: 64 (Target 40)
- ✓ Thermal comfort: pass (Target pass)
- ✓ Energy: 33 (Target 25)

Description of project

Project address	
Project name	Hastings House
Street address	Lot 26, St. Vincents Way
Suburb	Bonny Hills
Postcode	2445
Local Government Area	Hastings Council
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m)	714
Roof area (m)	298
Conditioned floor area (m2)	182
Unconditioned floor area (m2)	18
Total are of garden and lawn (m2)	197
Assessor details and thermal loads	
Assessor number	20374
Certificate number	88889999
Cooling load (MJ/m .year)	40
Heating load (MJ/m .year)	71
Other	
Groundwater Licence/Water Supply Works Approval number	n/a

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 50 square metres of the site.	✓	✓	
Fixtures			
The applicant must install showerheads with a minimum rating of 3A in all showers in the development.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 3A in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 3A in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 3A in each bathroom in the development.		✓	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank with a capacity of at least 9000 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 290 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"> all toilets in the development the cold water tap that supplies each clothes washer in the development at least one outdoor tap in the development (Note: NSWHealth does not recommend that rainwater be used for human consumption in areas with potable water supply.) all hot water systems in the development 		✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
Stormwater tank			

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a stormwater tank with a capacity of at least 200 litres on the site. This stormwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
The applicant must configure the stormwater tank to collect runoff from: <ul style="list-style-type: none"> • at least 20 square metres of roof area of the development (excluding the area of the roof which drains to any rainwater tank or private dam) 		✓	✓
The applicant must connect the stormwater tank to: <ul style="list-style-type: none"> • a sub-surface or non-aerosol irrigation system, or if the stormwater has been appropriately treated in accordance with applicable regulatory requirements, to at least one outdoor tap in the development (Note: NSWHealth does not recommend that stormwater be used to irrigate edible plants which are consumed raw.) 		✓	✓

Thermal Comfort commitments (Simulation Method)	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 a final 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.		✓	✓

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: electric heat pump	✓	✓	✓
Cooling system			
The applicant must install the following cooling system/s in the development, or system/s with a higher energy rating: Living areas: no active cooling system ; Energy rating: n/a , Bedrooms: no active cooling system ;Energy rating: n/a		✓	✓
The development must not incorporate any other cooling system or any ducting which is designed to accommodate any other cooling system.		✓	✓
Heating system			
The applicant must install the following heating system/s in the development, or system/s with a higher energy rating: Living areas: no active heating system ; Energy rating: n/a , Bedrooms: no active heating system ;Energy rating: n/a		✓	✓
The development must not incorporate any other heating system or any ducting which is designed to accommodate any other heating system.		✓	✓
Ventilation			
The applicant must install the following exhaust systems in the development: Bathroom: individual fan, ducted to façade or roof; Operation control: manual on / timer off Kitchen: individual fan, ducted to façade or roof; Operation control: manual on / timer off Laundry: individual fan, ducted to façade or roof; Operation control: manual on / timer off		✓ ✓ ✓	✓ ✓ ✓
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent 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 lamps: <ul style="list-style-type: none"> • at least 4 of the bedrooms / study; dedicated • at least 3 of the living / dining rooms; dedicated • the kitchen; dedicated 		✓ ✓ ✓	✓ ✓ ✓

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<ul style="list-style-type: none"> • all bathrooms/toilets; dedicated • the laundry; dedicated • all hallways; dedicated 		✓ ✓ ✓	✓ ✓ ✓
Natural lighting			
The applicant must install a window and/or skylight in 3 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 install a fixed outdoor 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 for the development may be issued.