

BASIX[®] Data Checklist - Single Dwelling Certificate

30-Jun-17

This checklist is a guide to the information you will need to have at hand, in order to complete a BASIX assessment. **Not every item** on this list may apply to you - it will depend on your house design. For example, if you are not intending to install a stormwater tank, ignore this section. Similarly, if you do not have a private dam on your property, this section is irrelevant to you.

PROJECT DETAILS

Project address		Help notes
Project name	<input type="text"/>	Yes
Plan type	<input type="text"/>	
Plan number	<input type="text"/>	
Lot number	<input type="text"/>	
Section number	<input type="text"/>	
Local Government Area	<input type="text"/>	
Postcode	<input type="text"/>	
Suburb	<input type="text"/>	
Street number	<input type="text"/>	
Street name	<input type="text"/>	
Street type	<input type="text"/>	
Project type		Help notes
Separate dwelling house	<input type="text" value="Yes/No"/>	Yes
Attached dwelling house	<input type="text" value="Yes/No"/>	Yes
Unit	<input type="text" value="Yes/No"/>	Yes
Number of bedrooms	<input type="text"/>	
Site details		Help notes
Site area (m ²)	<input type="text"/>	Yes
Roof area (m ²)	<input type="text"/>	Yes
Conditioned floor area (m ²)	<input type="text"/>	Yes
Unconditioned floor area (m ²)	<input type="text"/>	Yes
Swimming pool	<input type="text" value="Yes/No"/>	
Outdoor spa	<input type="text" value="Yes/No"/>	
WATER		
Landscape		Help notes
Total area of garden & lawn (m ²)	<input type="text"/>	Yes
Area of indigenous species or low water use species (m ²)	<input type="text"/>	Yes
Fixtures		Help notes
Showerhead rating	<input type="text" value="4 star (> 4.5 <= 6 L/min), 4 star (> 6 <= 7.5 L/min), 3 star (> 4.5 <= 6 L/min), 3 star (> 6 <= 7.5 L/min), 3 star (> 7.5 <= 9 L/min)"/>	Yes
Toilet rating	<input type="text" value="Waterless toilet, 6 star, 5 star, 4 star, 3 star, 2 star, 1 star"/>	
Kitchen taps rating	<input type="text" value="Options are: 6 star, 5 star, 4 star or 3 star"/>	
Bathroom basin taps rating	<input type="text" value="Options are: 6 star, 5 star, 4 star or 3 star"/>	

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Alternative water supply + details		Help notes
Rainwater tank		Yes
Area diverted to tank (m ²)		
Size of tank (L)		
Overflow diverted to stormwater tank	Yes/No	
Water collected to be used for		
Stormwater tank		Yes
Roof area diverted to tank (m ²)		
Impervious area diverted to tank (m ²)		
Garden and lawn area diverted to tank (m ²)		
Planter box area diverted to tank (m ²)		
Size of tank (L)		
Water collected to be used for		
Reticulated alternative water supply		Yes
Scheme name		
Water collected to be used for		
Greywater/wastewater recycling system		Yes
Type of system	Options are: Greywater/wastewater treatment system OR grey water diversion system	
Water collected from:		
Laundry	Yes/No	
Bathroom	Yes/No	
All household wastewater	Yes/No	
Water collected to be used for		
Private dam		Yes
Roof area diverted to dam (m ²)		
Impervious area diverted to dam (m ²)		
Garden and lawn area diverted to dam (m ²)		
Surface area of dam (m ²)		
Volume of dam (m ³)		
Water collected to be used for		
Hot water recirculation or diversion system		Yes
Recirculation or diversion system	Yes/No	
Type of system	Options: hot water diversion system, hot water recirculation system (on-demand) or hot water recirculation system (continuous or timed)	
Pool & Outdoor spa		Help notes
Pool location	Options are: no pool, indoors, outdoors	
Pool volume (kL)		
Pool cover	Yes/No	Yes
Pool shaded	Yes/No	Yes
Spa volume (kL)		
Spa cover	Yes/No	Yes
Spa shaded	Yes/No	Yes

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THERMAL COMFORT		
<p>There are 2 options you can choose from, in order to complete the Thermal Comfort section of BASIX. Select the option that is most convenient for you.</p>		
OPTION 1: Do-It-Yourself (D.I.Y.)		
<p>This option allows you to assess the Thermal Comfort levels of your house. It is a simple process that you can complete yourself. To use this method, your houses must meet the following criteria:</p> <ul style="list-style-type: none"> • The conditioned floor area of your house is 300 m2 or less; • Your house is either 1 or 2 storey high; • Your house contains no open mezzanine area greater than 25 m2; • Your house contains no third level habitable attic room; • Glazing area of your house is within 10 – 40% of the conditioned floor area; • Your house has 40 or less windows; • Total area of skylights and sky windows in your house is 3 m2 or less. 		Yes
Construction type + details		Help notes
Floor		
Concrete slab on ground		
Floor area (m ²)	NOTE: Only required if dwelling has more than one floor type	Yes
Does this floor have an in-slab heating system?	Yes/No	Yes
Suspended floor/open subfloor		
Floor area (m ²)	NOTE: Only required if dwelling has more than one floor type	Yes
Floor construction	Options are: concrete, framed, AAC panel on frame (75mm), AAC structural panel (150-200mm), AAC structural panel (>200mm), other/undecided	
Does this floor have an in-slab heating system?	Yes/No	Yes
Suspended floor/enclosed subfloor		
Floor area (m ²)	NOTE: Only required if dwelling has more than one floor type	Yes
Floor construction	Options are: concrete, framed, AAC panel on frame (75mm), AAC structural panel (150-200mm), AAC structural panel (>200mm), other/undecided	
Does this floor have an in-slab heating system?	Yes/No	Yes
Floor above habitable rooms or mezzanine		
Floor area (m ²)	NOTE: Only required if dwelling has more than one floor type	Yes
Floor construction	Options are: concrete, framed, AAC panel on frame (75mm), AAC structural panel (150-200mm), AAC structural panel (>200mm), other/undecided	
Suspended floor above garage		
Floor construction	Options are: concrete, framed, AAC panel on frame (75mm), AAC structural panel (150-200mm), AAC structural panel (>200mm), other/undecided	
Does this floor have an in-slab heating system?	Yes/No	Yes
Wall		
Brick veneer, cavity brick, framed, concrete block/plasterboard, reverse brick veneer, other/undecided	No further details required.	
Concrete panel/plasterboard		
Thickness of concrete panel (mm)		
Single skin AAC, AAC veneer, AAC external/brick internal		
Thickness of AAC skin (mm)		

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<p>Mudbrick/Rammed earth Thickness of wall (mm) <input type="text"/></p> <p>Insulated concrete form Thickness of concrete (mm) <input type="text"/> Total thickness of insulating form (mm) <input type="text"/></p> <p>External insulated façade system Thickness of façade panel (mm) <input type="text"/></p> <p>Internal wall shared with garage Construction of wall <input type="text" value="Options are: plasterboard, single skin masonry, cavity brick wall, 200 mm AAC block, other/undecided"/></p>	<p>Yes</p> <p>Yes</p>
<p>Ceiling and roof</p> <p>Flat ceiling and pitched roof How is roof space ventilated? <input type="text" value="Options are: unventilated, gable end vents, wind-driven ventilator(s) + eave vents"/> What is the colour/solar absorptance of the roof? <input type="text" value="Options are: light (solar absorptance < 0.475), medium (solar absorptance 0.475-0.70), dark (solar absorptance > 0.70)"/> Roof insulation <input type="text" value="Options are: foil/sarking, thermocellular reflective, foil backed blanket (55mm), foil backed blanket (75mm), foil backed blanket (100mm)"/></p> <p>Raked ceiling/Pitched or Skillion roof Roof construction <input type="text" value="Options are: framed, concrete/plasterboard internal, concrete/bare internal"/> What is the colour/solar absorptance of the roof? <input type="text" value="Options are: light (solar absorptance < 0.475), medium (solar absorptance 0.475-0.70), dark (solar absorptance > 0.70)"/> Roof insulation <input type="text" value="Options are: foil/sarking, thermocellular reflective, foil backed blanket (55mm), foil backed blanket (75mm), foil backed blanket (100mm)"/></p> <p>Flat ceiling/Flat roof Roof construction <input type="text" value="Options are: framed, concrete/plasterboard internal, concrete/bare internal"/> What is the colour/solar absorptance of the roof? <input type="text" value="Options are: light (solar absorptance < 0.475), medium (solar absorptance 0.475-0.70), dark (solar absorptance > 0.70)"/> Roof insulation <input type="text" value="Options are: foil/sarking, thermocellular reflective, foil backed blanket (55mm), foil backed blanket (75mm), foil backed blanket (100mm)"/></p>	<p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>Insulation Insulation requirements will be calculated by BASIX based on the construction details. You must accept the requirements to pass Thermal Comfort.</p>	<p>Help notes Yes</p>
<p>Windows (See tables in Appendix A) For each window/glazed door, enter the following information:</p> <p>Window/Door Number <input type="text" value="NOTE: Grouped to each orientation (North, North-East, East, South-East, South, South-West, West, North-West)"/></p> <p>Glass size (inc. frame) Height (mm) <input type="text"/> Width (mm) <input type="text"/></p> <p>Window type <input type="text" value="Options are: Non-openable – Fixed, Openable – Hinged or Projected, Openable - Sliding"/></p>	<p>Help notes Yes</p>

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<p>Frame and glass</p> <p>Shading device</p> <p>Device type</p> <p>Device details</p> <p>Projection from face of wall (mm)</p> <p>Height above the glazing head (mm)</p> <p>Vertical distance from the base of window (mm)</p> <p>Operation</p> <p>Overshadowing from adjacent building/vegetation</p>	<p>Options are: Frame type – aluminium, aluminium: thermally broken, timber/uPVC/fibreglass, composite Glazing type – single glazed, double glazed air, double glazed argon Glazing surface – clear, tint, hi-Tsol low-e (hi-Tsol low-e/clear), lo-Tsol low-e (lo-Tsol low-e/clear)</p> <p>Options are: no shading device, eave, solid overhang, verandah, awning, pergola (fixed battens), pergola (adjustable battens), external louvre/vertical blind</p> <p>NOTE: Required details vary with device type</p> <p>Options are: fixed, adjustable</p> <p>Options are: not overshadowed; 1-2 m high, <1.5 m away; 2-4m high, 2 m away; 2-4m high, 2-5 m away; 2-4m high, 5-8 m away; 2-4m high, 8-12 m away; >4m high, <2 m away; >4m high, 2-5 m away; >4m high, 5-8 m away; >4m high, 8-12 m away</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>Skylights (See table in Appendix B)</p>		<p>Help notes</p>
<p>For each skylight, gather the following information:</p> <p>Area of glazing (including frame) (m²)</p> <p>Frame and glass</p> <p>Shading device</p>	<p>Options are: aluminium, moulded plastic single clear; timber, double clear/air fill or timber, low-E/double/argon fill</p> <p>Options are: no shading; fixed awning or blind; fixed louvre; adjustable awning or blind; adjustable louvre</p>	<p>Yes</p> <p>Yes</p>
<p>OPTION 2: Simulation method</p>		
<p>For this option you will need to engage an Accredited Assessor who will use specific software to simulate your dwelling and provide you with heating and cooling loads to enter into BASIX.</p>		<p>Yes</p>
<p>Assessor details</p>		<p>Help notes</p>
<p>Accredited assessor number</p> <p>Certificate number</p> <p>zone on Assessor Certificate</p> <p>Do you have in-slab heating?</p>	<p></p> <p></p> <p></p> <p>Yes/No</p>	<p>Yes</p>
<p>Construction</p>		<p>Help notes</p>
<p>Wall types</p> <p>Do you have primarily mud brick or rammed earth walls (more than 50%)?</p>	<p>Yes/No</p>	<p>Yes</p>
<p>Floor types</p> <p>Concrete slab on ground</p> <p>Floor area (m²)</p>	<p>NOTE: Only required if dwelling has more than one floor type</p>	<p>Yes</p>

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<p>Suspended floor/open subfloor Floor area (m²) <input type="text"/> NOTE: Only required if dwelling has more than one floor type</p> <p>Suspended floor/enclosed subfloor Floor area (m²) <input type="text"/> NOTE: Only required if dwelling has more than one floor type</p> <p>Suspended floor above garage, new floor above another dwelling or building <input type="text"/> No further details required.</p>	<p>Yes</p> <p>Yes</p>
<p>Thermal loads</p> <p>Area adjusted heating load (mJ/m².year) <input type="text"/></p> <p>Area adjusted cooling load (mJ/m².year) <input type="text"/></p>	<p>Help notes</p> <p>Yes</p>
<p>ENERGY</p>	
<p>Hot water</p> <p>Hot water system <input type="text"/> Options are: Solar(gas boosted, flat plate), Solar(gas boosted, evacuated tube), Solar (electric boosted), Electric heat pump, Gas instantaneous, Gas storage, Wood combustion, Electric instantaneous, Electric storage, Ground source heat pump (closed loop) only, Ground source heat pump (direct exchange) only</p> <p>Hot water system performance for solar or heat pump systems <input type="text"/> Options are: more than 45 STCs, 41 to 45 STCs, 36 to 40 STCs, 31 to 35 STCs, 26 to 30 STCs, 21 to 25 STCs, 15 to 20 STCs, fewer than 15 STCs or not specified</p> <p>Hot water system performance for gas instantaneous systems <input type="text"/> Options are: 6 star, 5.5 star, 5 star, 4.5 star, 4 star, 3.5 star or 3 star</p> <p>Hot water system performance for gas systems <input type="text"/> Options are: 5 star, 4.5 star, 4 star, 3.5 star, 3 star, 2.5 star, 2 star, 1.5 star or 1 star</p>	<p>Help notes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<p>Heating and Cooling</p> <p>Living room cooling system + energy efficiency rating <input type="text"/> Options are: No cooling system, ceiling fan, evaporative cooling, ceiling fan + 1-phase air conditioning, ceiling fan + 3 phase airconditioning, 1-phase air conditioning, 3-phase air conditioning, Air condition ducting only, Ground source heat pump (closed loop), Ground source heat pump (direct exchange)</p> <p>Bedroom cooling system + energy efficiency rating <input type="text"/> Options are: No cooling system, ceiling fan, evaporative cooling, ceiling fan + 1-phase air conditioning, ceiling fan + 3 phase airconditioning, 1-phase air conditioning, 3-phase air conditioning, Air condition ducting only, Ground source heat pump (closed loop), Ground source heat pump (direct exchange)</p> <p>Living room heating system + energy efficiency rating <input type="text"/> Options are: No heating system, Gas fixed flued heater, Gas hydronic system, 1-phase air conditioning, 3-phase air conditioning, Air conditioning ducting only, Electric floor heating, Wood heater, Ground source heat pump (closed loop), Ground source heat pump (direct exchange)</p>	<p>Help notes</p> <p>Yes</p>

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<p>Bedroom heating system + energy efficiency rating</p> <p>Ground source heat pump</p> <p>Is your ground source heat pump connected to a hydronic system?</p> <p>Is your ground source heat pump connected to a desuperheater for hot water pre-heating?</p> <p>Is airconditioning day/night zoned between bedroom and living areas?</p>	<p>Options are: No heating system, Gas fixed flued heater, Gas hydronic system, 1-phase air conditioning, 3-phase air conditioning, Air conditioning ducting only, Electric floor heating, Wood heater, Ground source heat pump (closed loop), Ground source heat pump (direct exchange)</p> <p>Yes/No</p> <p>Yes/No</p> <p>Yes/No</p>	<p>Yes</p>
<p>Ventilation</p> <p>Bathroom exhaust system Operation control</p> <p>Kitchen exhaust system + operation control Operation control</p> <p>Laundry exhaust system + operation control Operation control</p>		<p>Help notes</p> <p>Yes</p>
<p>Natural lighting</p> <p>Window or skylight in kitchen</p> <p>Number of separate bathrooms/toilets naturally lit by either window or skylight.</p>		<p>Help notes</p> <p>Yes</p>
<p>Artificial lighting (OPTIONAL)</p> <p>Rooms primarily lit by standard fluorescent or compact fluorescent lamps:</p> <p>Number of bedrooms/study</p> <p>Number of living/dining rooms</p> <p>Kitchen</p> <p>Bathroom/toilets</p> <p>Laundry</p> <p>Hallways</p> <p>For each room specify if the light fitting accept only fluorescent lamps (dedicated fluorescent fitting)</p>		<p>Help notes</p> <p>Yes</p>

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Pool and spa		Help notes
Pool heating system	Options are: No heating, Solar only, Solar (gas boosted), Electric heat pump, Solar (electric boosted), Gas, Electric resistance.	Yes
Pool pump controlled by timer?	Yes/No	Yes
Spa heating system	Options are: No heating, Solar (gas boosted), Electric heat pump, Solar (electric boosted), Gas, Electric resistance.	
Spa pump controlled by timer?	Yes/No	
Alternative energy		Help notes
Rated electrical output of photovoltaic system (peak kW)		Yes
Other		Help notes
Cooktop/oven type	Options are: Gas cooktop & gas oven, Gas cooktop & electric oven, Electric cooktop & electric oven, Wood combustion cooktop and oven, Induction cooktop and electric oven	Yes
Well ventilated fridge space	Yes/No	Yes
Private outdoor or unsheltered clothes drying line	Yes/No	Yes
Indoor clothes drying line (eg: screened line on balcony, line over bath, etc)	Yes/No	Yes

Appendix A: Windows and glazed doors (maximum 40)

Window/Door Number (grouped by orientation)	Glass size (including frame)		Window type	Frame and glass	Shading device	Overshadowing from adjacent building or vegetation
	Height (mm)	Width (mm)				
North-facing						
North-East facing						
East facing						
South-East facing						
South facing						
South-West facing						
West facing						
North-West facing						

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Window type options are:

Category A: awning window, bi-fold window or door, casement window, french door, glazed door, tilt and turn window, combination with 50% of more of the above

Category B: double hung window, fixed window, louvre window, sliding window/door, stacker door, combination with less than 50% of category A

Frame and glass options are:

Frame type – aluminium, aluminium: thermally broken, timber/uPVC/fibreglass, composite

Glazing type – single glazed, double glazed air, double glazed argon

Glazing surface – clear, tint, hi-Tsol low-e (tinted or clear), lo-Tsol low-e (tinted or clear)

Shading device options are:

no shading device

eaves

solid overhang, verandah, pergola (fixed battens), pergola (adjustable battens),

awning, external louvre/vertical blind

Overshadowing options are:

not overshadowed;

overshadowed;

1-2 m high & <1.5 m away; 2-4m high & 2 m away; 2-4m high & 2-5 m away;

2-4m high & 5-8 m away; 2-4m high & 8-12 m away; >4m high & <2 m away

>4m high & 2-5 m away; >4m high & 5-8 m away; >4m high & 8-12 m away

Appendix B: Skylights (3 sqm maximum)

Skylights

No.	Area of glass (including frame) (m ²)	Frame and glass	Shading device
S1			
S2			

Frame and glass options are:

aluminium, moulded plastic single clear; timber,

double clear/air fill or timber, low-E/double/argon fill

Shading device options are:

no shading; fixed awning or blind; fixed louvre;

adjustable awning or blind; adjustable louvre