

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

1.1 Applicant details

1.2 Project address

1.3 Project type

1.4 Site details

Is the applicant a business/ company? \*

☐ Yes

☒ No

## Contact details

The details below have been pre-populated with the information within your user profile. If you need to update this information, access the "Update Profile" option by selecting the blue circle in the top right hand corner of the screen. Once the information has been submitted, the details within the form will be updated.

Title

Please Select... ▾

First given name

Scott

Other given name/s

Family name

Beazley

Contact number

--

Email ⓘ

sfbeaz@gmail.com

Street address \* ⓘ

7 Jerrara Ave Kiama 2533

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.


1.1 Applicant details

1.2 Project address

1.3 Project type

1.4 Site details

Enter your project's name and address

Project name \* 

B & L Beazley House

Plan type \* [What is this?](#)

☒ Deposited Plan (DP)


☐ Strata Plan (SP)

Select the property location

Note: Please check address details are correct before progressing. The address cannot be changed once a certificate is generated.


Please use address did not display :

- If your property or site has multiple lots and addresses. You can then add multiple lot/DPs manually.
- If your property is located across more than one local government area.
- If your application relates to a larger site that was previously known by a Lot/DP that is now subdivided.


Enter address \* 

e.g. 66 Harrington Street, Sydney NSW 2000

OR

Enter Lot/Section Number/Plan \* 

e.g. 4/5/DP1044304

Address did not display ?  ☒

Address line1 \*

12 ANTIGUA AVENUE

Address line2

Suburb \*

LAKE CATHIE

Postcode \*

2445

Local Government Area \*

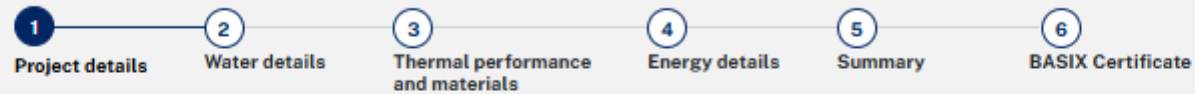
PORT MACQUARIE-HASTINGS

Lot/Section Number/Plan

38/-/1230717

☐

Is the address of the project impacted by the fires during the 2019-20 bushfire season?



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

1.1 Applicant details 1.2 Project address 1.3 Project type 1.4 Site details

Select one of the following to specify your project type. \* ⓘ

- ☒ Dwelling house (detached)  
☐ Dwelling house (attached)  
☐ Dwelling above existing building

Enter the number of bedrooms for your dwelling \*

3

Is your project a secondary dwelling? \*

- ☐ Yes  
☒ No

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

1.1 Applicant details 1.2 Project address 1.3 Project type 1.4 Site details

Enter the site details of your project.

Enter the site area (m<sup>2</sup>) of your development \* [What is this?](#)

607.20

Enter the roof area (m<sup>2</sup>) of your development \* [What is this?](#)

193.00

Enter the number of storeys (include habitable attic rooms, exclude non-habitable levels) \* [What is this?](#)

2

Enter the conditioned floor area (m<sup>2</sup>) of your development \* [What is this?](#)

112.00

Enter the unconditioned floor area (m<sup>2</sup>) of your development (exclude garages) \* [What is this?](#)

69.00

Enter the floor area (m<sup>2</sup>) of garage(s) (exclude carports and out-buildings) \* [What is this?](#)

42.70

Enter the floor area (m<sup>2</sup>) of mezzanines open to and above a habitable floor (exclude stair or stair landings or open passageways, gantries or corridors 1.1m or less wide) \* [What is this?](#)

0.00

Are you installing a swimming pool (indoor or outdoor)? \*

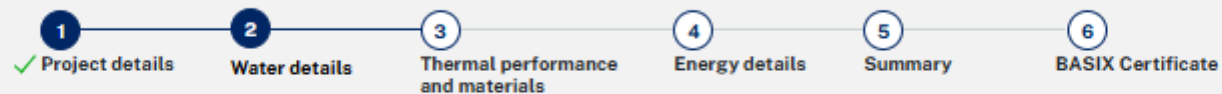
☐ Yes

☒ No

Are you installing an outdoor spa? \*

☐ Yes

☒ No



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

2.1 Landscape

2.2 Fixtures

2.3 Alternative water

2.4 Alternative water details

2.5 Pool & Spa

2.6 Status

Enter the details of your proposed landscape. [What is this?](#)

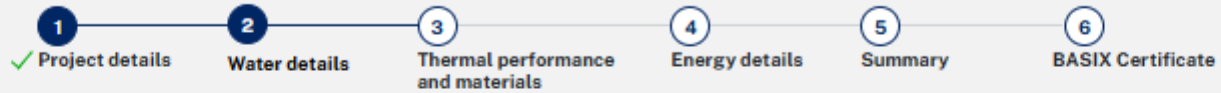
Enter the total area (m<sup>2</sup>) of garden and lawn \* [What is this?](#)

170.00

Enter the area (m<sup>2</sup>) of indigenous or low water use species \* [What is this?](#)

160.00

To get a list of species, use either: The Department's [list of indigenous species \(pdf\)](#) OR [Sydney Water's plant selector tool](#) and select from the list of "One drop" plants



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

2.1 Landscape

2.2 Fixtures

2.3 Alternative water

2.4 Alternative water details

2.5 Pool & Spa

2.6 Status

Select the intended water rating for all the fixtures in your dwelling. [What is this?](#)

Enter the water rating of all showerheads \*

4 star (> 6 but <= 7.5 L/min)

Enter the water rating of all toilets \*

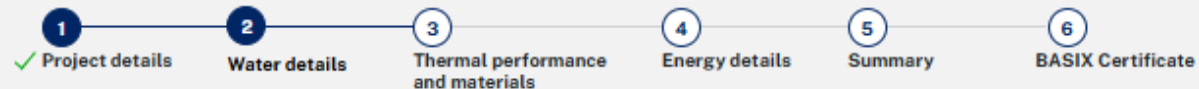
5 star

Enter the water rating of all kitchen taps \*

5 star

Enter the water rating of all bathroom taps \*

5 star



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

2.1 Landscape

2.2 Fixtures

2.3 Alternative water

2.4 Alternative water details

2.5 Pool & Spa

2.6 Status

Are you installing a rainwater tank? [What is this?](#)

☐ Yes

☒ No

Are you installing a stormwater tank? [What is this?](#)

☐ Yes

☒ No

Is a reticulated alternative water supply (provided by a water utility) available? [What is this?](#)

☒ Yes

☐ No

Are you installing a greywater treatment system? [What is this?](#)

☐ Yes

☒ No

Are you installing a greywater diversion system? [What is this?](#)

☐ Yes

☒ No

Will you be using a private dam as an alternative water supply? [What is this?](#)

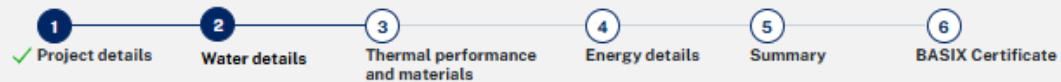
☐ Yes

☒ No

Do you intend to install a hot water recirculation or diversion system? [What is this?](#)

☐ Yes

☒ No



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

2.1 Landscape 2.2 Fixtures 2.3 Alternative water 2.4 Alternative water details 2.5 Pool & Spa 2.6 Status

#### Reticulated alternative recycled water

Please select the reticulated recycled water scheme that the dwelling will be connected to: \*

Rainbow Beach (proposed)

#### Alternative use

For each use, nominate the alternative supply system(s). [What is this?](#)

##### Garden & Lawn

reticulated alternative water supply

##### All toilets

town water supply

##### Laundry

town water supply

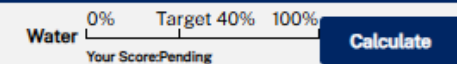
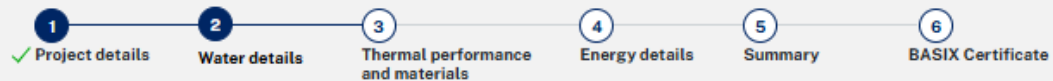
##### All hot water

town water supply

##### Drinking and other household

town water supply





Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

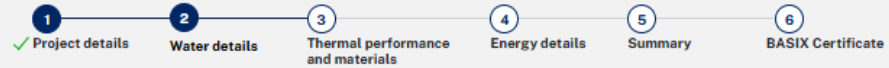
2.1 Landscape 2.2 Fixtures 2.3 Alternative water 2.4 Alternative water details 2.5 Pool & Spa 2.6 Status

You have not nominated a pool or spa on the [Project details page](#). You do not have to complete this page.

[Navigate to Energy - Pool & Spa](#)

Water 0% Target 40% 100%  
Your Score: Pending

Calculate



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

2.1 Landscape

2.2 Fixtures

2.3 Alternative water

2.4 Alternative water details

2.5 Pool &amp; Spa

2.6 Status

Enter details for your swimming pool and/or outdoor spa.

[Add or Remove pool/spa](#)

#### Swimming pool

Will the pool be indoors or outdoors? \*

please select ▾

What is the volume (kL) of the pool? (1kL = 1000L) \*

Will the pool have a cover? \* [What is this?](#)

☐ Yes

☐ No

Will the pool be shaded? \* [What is this?](#)

☐ Yes

☐ No

#### Outdoor spa

What is the volume (kL) of the outdoor spa? (1kL = 1000L) \*

Will the outdoor spa have a cover? \* [What is this?](#)

☐ Yes

☐ No

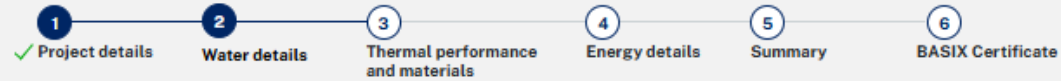
Will the outdoor spa be shaded? \* [What is this?](#)

☐ Yes

☐ No

[Navigate to Energy - Pool & Spa](#)

Water 0% Target 40% 100%  
Your Score: Pending

[Calculate](#)

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

[2.1 Landscape](#)[2.2 Fixtures](#)[2.3 Alternative water](#)[2.4 Alternative water details](#)[2.5 Pool & Spa](#)[2.6 Status](#)

Please select the Calculate button at the bottom of the screen to update the information below. You will need to do this each time you update content within this section.

Water target: 40

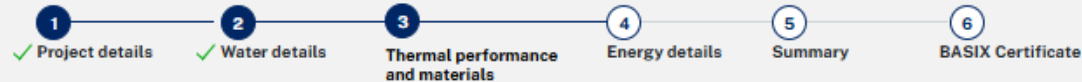
Your score: Pending ×

Has the water target been reached?

☹ No. Select the Calculate button to update your water target score.

Is the water section complete?

☹ No. Select the Calculate button to update your status.



Low High  
Materials: Pending

Thermal performance	
Target	Pass
Your Score	Pending

Pass Fail  
Heating: Pending

Pass Fail  
Cooling: Pending

Pass Fail  
Total: Pending

Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

The Thermal performance Index sets minimum standards for the thermal performance of the building fabric. This performance affects the heating and cooling components of your Energy score.

Target: You need to get a "Pass" for the Thermal performance section.

How to complete the Thermal performance section. [What is this?](#)

Select one of the following methods for completing the Thermal performance section \*

- ☒ Do-it-Yourself (DIY)  
☐ Simulation method  
☐ Passive House standard

The [Do-It-Yourself](#) calculates minimal thermal Comfort requirements for your dwelling. The method is designed for use with common construction methods used in typical single dwelling houses. To use DIY, the following criteria must be met:

- Conditioned floor area must be no more than 300m<sup>2</sup>
- Maximum two storeys (attic rooms count as a storey)
- Open mezzanine areas must be less than 25m<sup>2</sup>

✓ Based on details you have entered in the projects details section, your project complies with these requirements

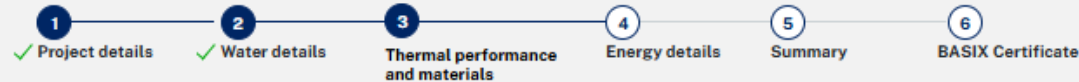
In completing the DIY windows section, you must also meet the following criteria:

- No more than 40 windows can be entered (combining windows of the same orientation is not allowed)
- Total glazing area is between 10 and 40% of the conditioned floor area (for this project between 11.2 and 44.8)
- Total area of skylights and sky windows is no more than 3m<sup>2</sup>

By selecting the DIY method, you acknowledge that the project meets the above criteria.

Depending on the location of the project, some construction options such as a conventional concrete slab on ground and a suspended floor above open subfloor are not available for selection in the DIY method. If you wish to use such construction options, you can select the [Simulation method](#).

Please click on Save and continue to proceed with the DIY method.



Low High  
Materials: Pending

Thermal performance	
Target	Pass
Your Score	Pending

Pass Fail  
Heating: Pending

Pass Fail  
Cooling: Pending

Pass Fail  
Total: Pending

Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area. ⓘ

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

3.2.1 Floor types

3.2.2 Wall types

3.2.3 Ceiling and roof types

Floor types ⓘ [What is this?](#)

Concrete slab on ground

☐ Yes

☒ No

Suspended floor above enclosed subfloor

☒ Yes

☐ No

Suspended floor above open subfloor

☐ Yes

☒ No

First floor above habitable rooms or mezzanine

☐ Yes

☒ No

Suspended floor above garage

☒ Yes

☐ No

Low High  
Materials:15% more than  
average

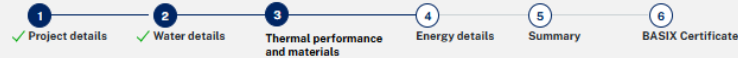
Thermal performance  
Target Pass  
Your Score Pending

Pass Fail  
Heating:Pending

Pass Fail  
Cooling:Pending

Pass Fail  
Total:Pass

Calculate



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance 3.2 Construction type 3.3 Construction details 3.4 Insulation 3.5 Ceiling fans 3.6 Windows, doors and skylights 3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area. [?](#)

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

3.2.1 Floor types 3.2.2 Wall types 3.2.3 Ceiling and roof types

External Walls [What is this?](#)

You must specify at least one external wall type \*

External wall types <a href="#">?</a>	Construction Type <a href="#">?</a>	Area <a href="#">?</a>	Frame <a href="#">?</a>	Low Emissions <a href="#">?</a>	Insulation <a href="#">?</a>	Reflective Foil <a href="#">?</a>	Wall Colour <a href="#">?</a>
External wall type 1	<input type="text" value="please select"/>	<input type="text"/>	<input type="text" value="please select"/>		<input type="text" value="not specifier"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="please select"/>
External wall type 2	<input type="text" value="not applicable"/>	<input type="text"/>	<input type="text" value="please select"/>		<input type="text" value="not specifier"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="please select"/>
External wall type 3	<input type="text" value="not applicable"/>	<input type="text"/>	<input type="text" value="please select"/>		<input type="text" value="not specifier"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="please select"/>
External wall type 4	<input type="text" value="not applicable"/>	<input type="text"/>	<input type="text" value="please select"/>		<input type="text" value="not specifier"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="please select"/>

Do you have internal walls shared with garage?

☒ Yes

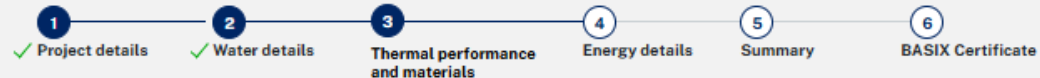
☐ No

	Construction Type <a href="#">?</a>	Area <a href="#">?</a>	Frame <a href="#">?</a>	Insulation <a href="#">?</a>
Internal walls with garage	<input type="text" value="please select"/>	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="not specified"/>

Internal Walls

You must specify at least one internal wall type \*

Internal wall types <a href="#">?</a>	Construction Type <a href="#">?</a>	Area <a href="#">?</a>	Frame <a href="#">?</a>	Insulation <a href="#">?</a>
Internal wall type 1	<input type="text" value="please select"/>	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="not specified"/>
Internal wall type 2	<input type="text" value="not applicable"/>	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="not specified"/>



Low High  
Materials: 15% more than average

Thermal performance	
Target	Pass
Your Score	Pending

Pass Fail  
Heating: Pending

Pass Fail  
Cooling: Pending

Pass Fail  
Total: Pass

Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.



3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

3



Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area.

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

3.2.1 Floor types

3.2.2 Wall types

3.2.3 Ceiling and roof types

Ceiling and roof types [What is this?](#)

Flat ceiling and pitched roof (>10°)

☒ Yes

☐ No

Raked ceiling/Pitched or Skillion roof (>10°)

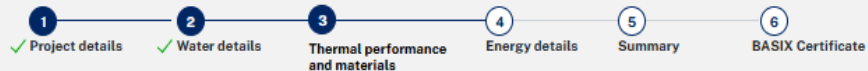
☐ Yes

☒ No

Flat or low-pitch ceiling and roof (≤10°)

☐ Yes

☒ No



Thermal performance	
Target	Pass
Your Score	Pending



Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance 3.2 Construction type 3.3 Construction details 3.4 Insulation 3.5 Ceiling fans 3.6 Windows, doors and skylights 3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area.

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

3.3.1 Floor details 3.3.2 Wall details 3.3.3 Ceiling and roof details

#### Floor details

Enter details for all of the floor types that apply to your dwelling.

Floor types	Floor area (m²) *	Form of Construction * ⓘ	Frame * ⓘ	Subfloor (enclosed) insulation * ⓘ	Reflective foil facing the subfloor? * ⓘ	Subfloor wall insulation * ⓘ	Does this floor have an in-slab or in-screed heating system? * ⓘ	Additional subfloor (enclosed) insulation from minimum requirement * ⓘ
Suspended floor above enclosed subfloor	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="please sel"/>	<input type="text" value="please select"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="please"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	

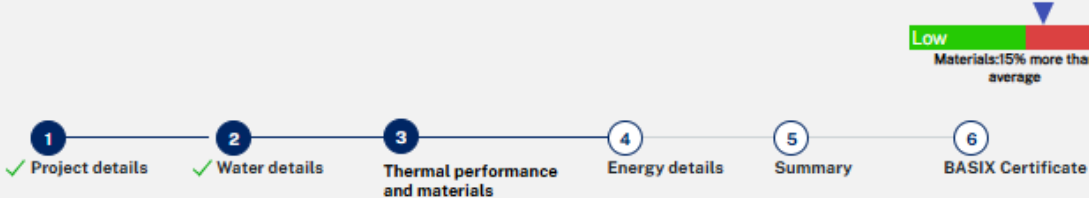
Higher insulation may help improve heating outcome. You need to make sure that the subfloor frame allows for the extra insulation material to be included without compressing it. Compression of insulation material will generally reduce its effectiveness

Floor types	Floor area (m²) * ⓘ	Form of Construction * ⓘ	Frame * ⓘ	Floor Insulation *	Does this floor have an in-slab or in-screed heating system? * ⓘ
Suspended floor above garage	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No

#### Garage floor

Area (m²) *	Form of construction *	Frame *	Low emissions	Slab type	Insulation
<input type="text" value="42.70"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>	<input type="text" value="none"/>	<input type="text" value="conventional slab"/>	<input type="text" value="not specified"/>





Thermal performance	
Target	Pass
Your Score	Pending



Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

- <

3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

>

3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area. ⓘ

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

- 3.3.1 Floor details
- 3.3.2 Wall details
- 3.3.3 Ceiling and roof details

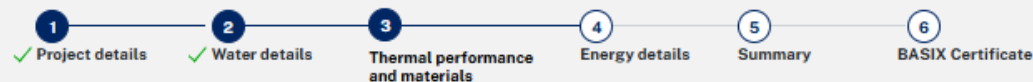
Wall details

Enter details for all of the wall types that apply to your dwelling.

Walls	Wall details	
External wall type 1	framed (fibre cement sheet or boards)	No further details required.
External wall type 2		
External wall type 3		
External wall type 4		

Do you want to add R0.5 to the minimum insulation requirements for all external walls ? [What is this?](#)

- ☐ Yes
- ☐ No



Low High  
Materials: 15% more than average

Thermal performance	
Target	Pass
Your Score	Pending

Pass Fail  
Heating: Pending

Pass Fail  
Cooling: Pending

Pass Fail  
Total: Pass

[Calculate](#)

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance 3.2 Construction type 3.3 Construction details 3.4 Insulation 3.5 Ceiling fans 3.6 Windows, doors and skylights 3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area. [?](#)

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

3.3.1 Floor details 3.3.2 Wall details 3.3.3 Ceiling and roof details

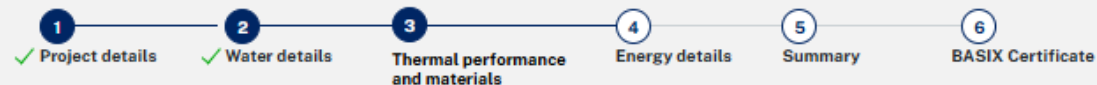
#### Ceiling and roof details

Enter details for all of the ceiling and roof types that apply to your dwelling.

Ceiling and roof types <a href="#">What is this?</a>	Roof Area * <a href="#">?</a>	Construction type * <a href="#">?</a>	Frame * <a href="#">?</a>	Roof space ventilation * <a href="#">?</a>	Roof colour * <a href="#">?</a>
Flat ceiling and pitched roof (>10°)	<input type="text"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>	<input type="text" value="please select"/>

Ceiling and roof types <a href="#">What is this?</a>	Ceiling insulation * <a href="#">?</a>	Roof insulation * <a href="#">?</a>	Insulation location * <a href="#">?</a>	Percentage of ceiling area uninsulated * <a href="#">?</a>
Flat ceiling and pitched roof (>10°)	<input type="text" value="please select"/>			<input type="text" value="please select"/>

Additional insulation from the minimum requirements for the ceiling and roof [?](#) [What is this?](#)



Low High  
Materials: Pending

Thermal performance	
Target	Pass
Your Score	Pending

Pass Fail  
Heating: Pending

Pass Fail  
Cooling: Pending

Pass Fail  
Total: Pending

Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

3

Please press Calculate to display correct details on this page.

These are the insulation requirements for your dwelling. Select "Yes" to confirm that you accept these requirements. \* [What is this?](#)

☒ Yes

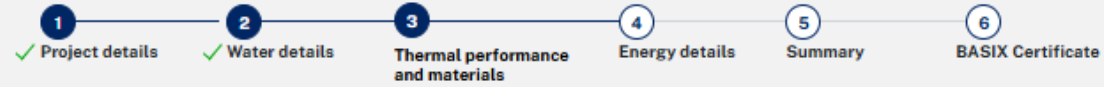
☐ No

Please note that if you change your construction details your insulation requirements will be modified.

#### Additional insulation requirements

Construction	R-Value of construction without insulation <a href="#">What is this?</a>	TOTAL insulation required to be installed (R-value) <a href="#">What is this?</a>	Reflective foil <a href="#">What is this?</a>	Measures to address thermal bridging <a href="#">What is this?</a>
Suspended floor above enclosed subfloor				
Suspended floor above garage				
External wall - cavity brick				
Internal walls with garage-plasterboard				
Flat ceiling and pitched roof (>10°)				

## Submission



Thermal performance	
Target	Pass
Your Score	Pending



Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.



3.1 Thermal performance

3.2 Construction type

3.3 Construction details

3.4 Insulation

3.5 Ceiling fans

3.6 Windows, doors and skylights

3



Do you have ceiling fans in each bedroom? \* [What is this?](#)

☐

Yes

☐

No

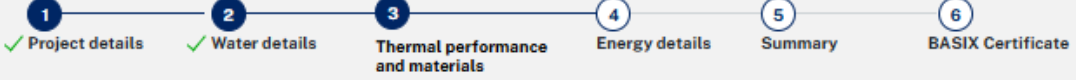
Do you have ceiling fans in all daytime habitable spaces (e.g. living rooms)? \* [What is this?](#)

☐

Yes

☐

No



LowHigh

Materials:Pending

Thermal performance	
Target	Pass
Your Score	Pending

PassFail

Heating:Pending

PassFail

Cooling:Pending

PassFail

Total:Pending

Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

<

1 Thermal performance3.2 Construction type3.3 Construction details3.4 Insulation3.5 Ceiling fans3.6 Windows, doors and skylights3.7 St...

>

[Click here](#) for further instructions on how to complete this section

3.6.1 Window/Door details3.6.2 Factors affecting window/door thermal performance3.6.3 WindowDoorShading3.6.4 Skylights

Enter the details of the proposed windows. Select one or more windows or glazed doors using the checkboxes on the left to enable you to specify the details in each sub-tab. Note that feedback is shared with skylights.

Add Window/ Glazed Door

Enter Data

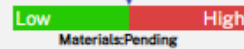
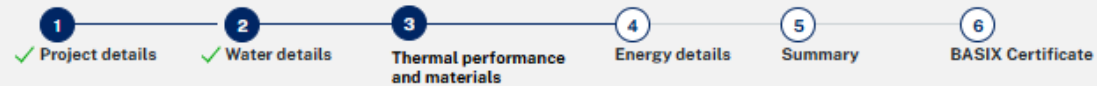
Change Orientation

Remove Window/ Glazed Door

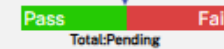
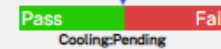
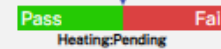
☐ Select All [What is this?](#)

### North-East

<input type="checkbox"/>	Orientation Window/Door Number <a href="#">What is this?</a>	Height including frame (mm) <a href="#">?</a>	Width including frame (mm) <a href="#">?</a>	WindowOrDoor <a href="#">?</a>	Frame and glass <a href="#">?</a>	Operating Type <a href="#">What is this?</a>	U-Value <a href="#">?</a>	SHGC <a href="#">?</a>	Heating load feedback	Cooling load feedback
<input type="checkbox"/>	W07	1350	700			Sliding	6.70	0.70		
<input type="checkbox"/>	W06	1350	700			Sliding	6.70	0.70		
<input type="checkbox"/>	W05	1490	1800			Sliding	6.70	0.70		



Thermal performance	
Target	Pass
Your Score	Pending



Calculate

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

- < 3.1 Thermal performance 3.2 Construction type 3.3 Construction details 3.4 Insulation 3.5 Ceiling fans 3.6 Windows, doors and skylights 3.7 Status >

Please select the Calculate button at the bottom of the screen to update the information below. You will need to do this each time you update content within this section.

Thermal performance target: Pass

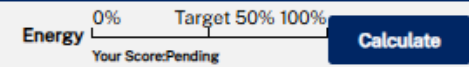
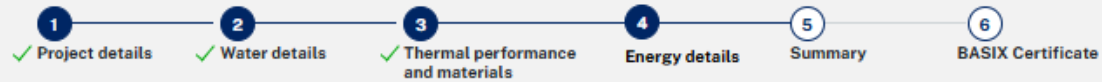
Materials target: n/a

Thermal performance score: Pending ✖

Materials score: -1

Is the Thermal performance and materials section complete?

☹ No. Select the Calculate button to update your status.

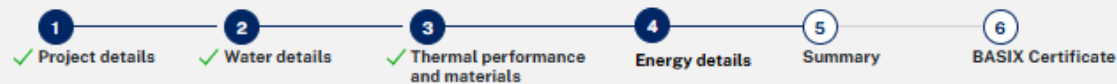


Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

- < 4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat > ✓

What type of hot water system are you installing in your development? \* [What is this?](#)

please select



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat

Select the types of heating and cooling systems that you intend to install in your dwelling and nominate their energy efficiency rating.

#### Cooling system

What type of cooling system(s) are you installing in your living room? \*

please select

What type of cooling system(s) are you installing in your bedrooms? \*

please select

Note: In April 2019, a new climate based Zoned Energy Rating Label (ZERL) for 1 phase air conditioners was introduced. Air conditioners may still carry the old star rating label. For those air conditioners without any star rating, select the "Energy Efficiency Ratio" option.

#### Heating system

What type of heating system(s) are you installing in your living room? \*

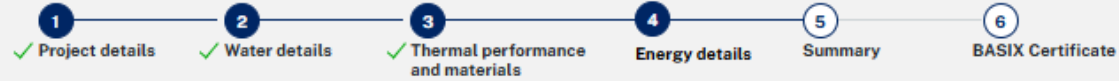
please select

What type of heating system(s) are you installing in your bedrooms? \*

please select

Note: In April 2019, a new climate based Zoned Energy Rating Label (ZERL) for 1 phase air conditioners was introduced. Air conditioners may still carry the old star rating label. For those air conditioners without any star rating, select the "Energy Efficiency Ratio" option.





Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat

Fill in the details for the following ventilation systems. [What is this?](#)

#### Bathroom exhaust

What type of exhaust system are you installing in your bathroom? \*

individual fan, ducted to façade or roof

How will its operations be controlled? \*

manual on / timer off

#### Kitchen exhaust

What type of exhaust system are you installing in your kitchen? \*

individual fan, ducted to façade or roof

How will its operations be controlled? \*

manual on / timer off

#### Laundry exhaust

What type of exhaust system are you installing in your laundry? \*

natural ventilation only, or no laundry



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat

Natural lighting [What is this?](#)

Are you installing windows or skylights in your kitchen? \*

☒ Yes

☐ No

How many separate bathroom/toilet(s) will be naturally lit by either a window or skylight? \*

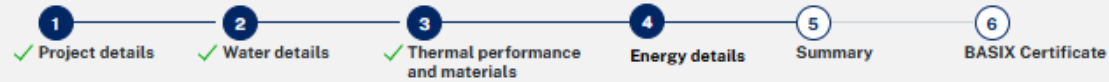
1

Artificial lighting [What is this?](#)

Your development must be primarily lit (minimum 80% of light fittings) by compact fluorescent, fluorescent or LED lamps.

Energy 0% Target 50% 100%  
Your Score: Pending

Calculate



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.



4.1 Hot water

4.2 Heating and Cooling

4.3 Ventilation

4.4 Lighting

4.5 Pool & Spa

4.6 Alternative energy

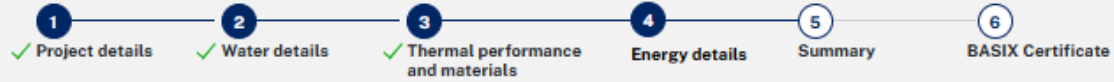
4.7 Other

4.8 Stat



You have not nominated a pool or spa on the [Project details page](#). You do not have to complete this page.

[Navigate to Water - Pool & Spa](#)



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat

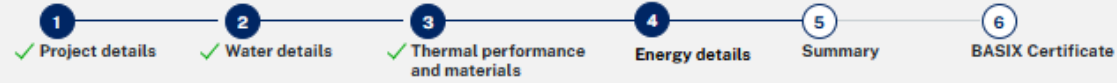
Photovoltaic system [What is this?](#)

Panel Group 1

If you are installing a photovoltaic system, enter the rated electrical output (peak kW).

Panel Group 2

If you are installing a photovoltaic system, enter the rated electrical output (peak kW).



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

4.1 Hot water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Stat

Cooktop/oven [What is this?](#)

Are you installing a cooktop/oven? \*

gas cooktop & electric oven

Outdoor clothes drying line [What is this?](#)

Are you installing an outdoor clothes drying line? \*

☒ Yes

☐ No

The outdoor clothes drying line must be installed before applying for an Occupation Certificate.

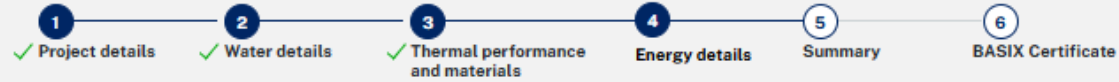
Indoor clothes drying line [What is this?](#)

Are you installing an indoor or sheltered clothes drying line? \*

☐ Yes

☐ No

Energy 0% Target 50% 100%  
Your Score: Pending

[Calculate](#)

Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

< water 4.2 Heating and Cooling 4.3 Ventilation 4.4 Lighting 4.5 Pool & Spa 4.6 Alternative energy 4.7 Other 4.8 Status > ✓

Please select the Calculate button at the bottom of the screen to update the information below. You will need to do this each time you update content within this section.

Energy target: 50

Your score: Pending ✕

Has the Energy target been reached?

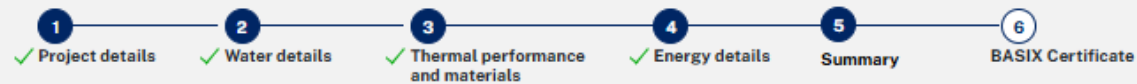


No. Select the Calculate button to update your Energy target score.

Is the Energy section complete?



No. Select the Calculate button to update your status.

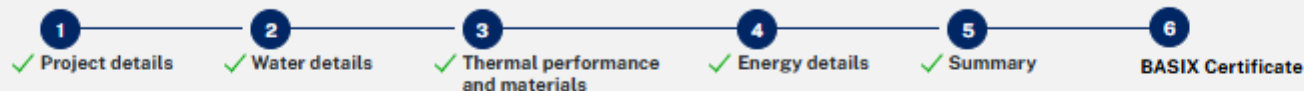


## Summary

Can I get a BASIX Certificate?

☹ No, Please refer the table below

		Your score	Target	Things to address
Project details	😊	n/a	n/a	--
Water	😊	41	40	<a href="#">Score Breakdown</a>
Thermal performance	☹	Pending	Pass	☐ Incomplete Sections <a href="#">Print</a>
Energy	☹	58	70	☐ Incomplete Sections ☐ Tips on passing Energy <a href="#">Print</a>
Material details	☹	-15	n/a	☐ Incomplete Sections <a href="#">Print</a>



### Project Report

Review your commitments before you finalise your Certificate (PDF)

[Generate Report](#)

### BASIX Certificate

You may now complete the project by creating a BASIX Certificate.

Note: a) A fee may be payable.

b) To be valid, this Certificate must be lodged within 3 months of the date of issue.

[Request Certificate](#)

How much is the fee? [Download Fee Calculator](#)

You must pass Water, Thermal performance and Energy, and have successfully completed your assessment before you can get a BASIX Certificate.

### Fee Waiver for Bushfire Affected Homes

You can apply to have the BASIX Certificate fee waived for rebuilding dwellings that have been damaged or destroyed by bushfires during the 2019-20 bushfire season.

[Apply fee waiver](#)

Before proceeding, [please refer to the help notes](#) for the eligibility criteria and the required documentation.

### Alternative Assessments

For development proposals that consist of technologies or solutions for water and energy reduction that can't be described - or scored - by the BASIX assessment tool, you can apply for an alternative assessment.

[Apply](#)

Before proceeding, [please refer to the help notes](#) to determine if this aspect of your project is a valid alternative assessment as additional fees may apply.



# BASIX Materials Index help notes

## Single dwellings and multi-dwelling housing – floors

### Floor types

Select all floor types used in your project from the options provided. Do not include driveways or other outdoor areas.

#### Floor type options:

- Concrete slab on ground
- Suspended floor above enclosed sub-floor
- Suspended floor above open sub-floor
- Floor above habitable rooms or mezzanine
- Suspended floor above garage

### Floor area (m<sup>2</sup>)

The floor area in BASIX is measured from the inside of external walls, ignoring the area occupied by internal walls. Measure the area of each floor type. The diagram below shows an example of the areas to be measured for combination types.

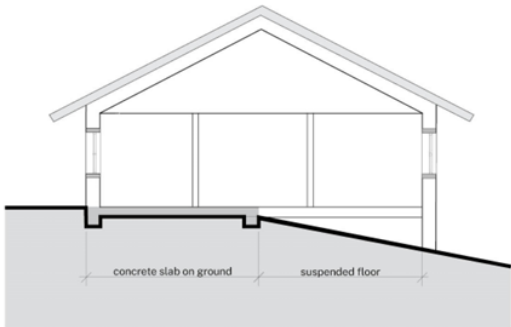


Figure 1. Measuring floor area – houses.

### Floor low emissions

This field only applies for the floor type 'Concrete slab on ground' and for concrete garage floors.

Select appropriate low emissions concrete option from the drop-down menu provided if using low emission concrete or select 'none' if you are not using low emission concrete.

#### Low emission options:

- None
- 30% cement substitute
- 40% cement substitute
- 50% cement substitute
- 60% cement substitute
- 100% geopolymer cement replacement

### Slab type

This field only applies for the floor type 'Concrete slab on ground'.

Select appropriate slab type option from the drop-down menu provided.

#### Slab type options:

- Conventional slab
- Waffle pod slab

### Floor form of construction

This field applies for all floor types except 'Concrete slab on ground' and for garage floor.

Select the floor construction for each floor type from the drop-down menu provided.

#### Form of construction options – for all floor types except garage floor:

- Concrete – suspended
- Hard wood
- Treated softwood
- Plywood
- Particle board
- Fibre cement
- AAC panel (75 mm)
- AAC structural panel (150-200 mm)
- AAC structural panel (> 200 mm)
- Structural composite panel organic materials (150-200 mm)
- Structural composite panel organic materials (> 200 mm)

#### Form of construction options – for garage floor:

- Concrete slab on ground
- Concrete – suspended

- AAC structural panel (150-200 mm)
- AAC structural panel (> 200 mm)

### Floor frame

This field is an option applies for all floor types except 'Concrete slab on ground'. If the floor construction type doesn't require a frame, select 'no frame'.

Select frame type for each floor type from the drop-down menus provided.

#### Frame options:

- No frame
- Timber - untreated softwood
- Timber - H2 treated softwood
- Laminated veneer lumber (LVL)
- Timber - hardwood predominant including glue laminated beams
- Light steel frame
- Heavy steel post and beam frame

### Floor insulation

Select the type of insulation used for each floor type from the drop-down menus provided or select 'none' if no insulation is used.

#### Insulation options:

- Not specified
- None
- Fibreglass batts or roll
- Rockwool batts, roll or pump-in
- Expanding foam
- Polystyrene
- Polyurethane
- Hemp-lime insulation
- Polyester
- Polyester minimum 85% post-consumer recycled content
- Blow in cellulose with fire retardant
- Foil-foam composite board

### Reflective foil facing sub-floor

This field only applies for the floor types 'Suspended floor above enclosed subfloor' and 'Suspended floor above enclosed subfloor'.

Select from yes or no options.

# Single dwellings and multi-dwelling housing - walls

## External walls and external garage walls

### External wall construction type

Select all construction types used in your project from the drop-down options provided. Use a different row for each construction type. External walls and external garage walls should be entered separately in the two tables provided.

Do not include internal wall areas. These are counted separately.

#### Construction type options - external walls:

- Brick veneer
- Cavity brick
- Framed (solid or reconstituted timber weatherboard) framed (fibre cement sheet or boards)
- Framed (metal clad)
- Concrete block/plasterboard
- Concrete panel/plasterboard
- AAC veneer
- AAC external, brick internal
- Reverse brick veneer
- Mudbrick or rammed earth
- Cement stabilized rammed earth (5%-10% cement) insulated concrete form (ICF)
- External insulated façade system (EIFS) hempcrete in situ on timber frame hempcrete blocks
- Insulated block with low cement content and reconstituted sawdust
- Block with low cement content and reconstituted sawdust/ plasterboard
- Cavity construction using blocks with low cement content and reconstituted sawdust

#### Construction type options - external garage walls:

- Brick veneer
- Cavity brick
- Framed (solid or reconstituted timber weatherboard)
- Framed (fibre cement sheet or boards)
- Framed (metal clad)
- Concrete block/plasterboard
- Off form concrete
- Single skin autoclaved aerated concrete (AAC)
- AAC veneer
- AAC external, brick internal
- Reverse brick veneer
- Mudbrick or rammed earth
- Cement stabilized rammed earth (5%-10% cement)
- Insulated concrete form (ICF)
- External insulated façade system (EIFS)
- Hempcrete in situ on timber frame
- Block with low cement content and reconstituted sawdust
- Insulated block with low cement and reconstituted sawdust
- Block with low cement content and reconstituted sawdust/ plasterboard
- Cavity construction using blocks with low cement content and reconstituted sawdust
- Hempcrete blocks
- Single skin masonry
- Concrete panel/plasterboard

### External wall area (m<sup>2</sup>)

The external wall area is measured by adding the areas of all external walls of the same type, excluding openings such as windows and doors. Measure to the outer perimeter of each wall type as shown below. Exclude external gable walls.

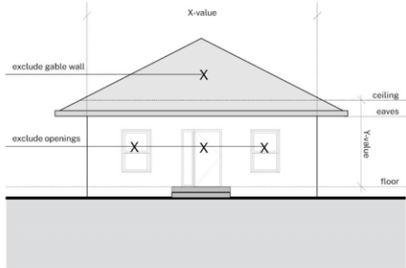


Figure 2. Measuring external wall area - houses.

For party walls between houses, include 50% of the party wall area per dwelling, as an external wall.

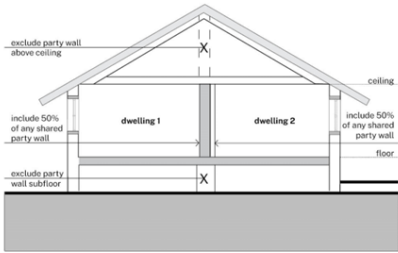


Figure 3. Measuring party wall area - houses.

### External wall frame

Select the applicable wall frame type from the dropdown menu provided.

#### Frame options:

- No frame
- Timber - untreated softwood
- Timber - H2 treated softwood
- Laminated veneer lumber (LVL)
- Timber - hardwood predominant incl. glue laminated beams
- Light steel frame
- Heavy steel post and beam frame

### External wall low emissions

This field only applies for insulated concrete form (ICF) and off form concrete walls.

Select appropriate low emissions concrete option from the drop-down menu provided if using low emission concrete or select 'none' if you are not using low emission concrete.

#### Low emission options:

- None
- 30% cement substitute
- 40% cement substitute
- 50% cement substitute
- 60% cement substitute
- 100% geopolymers cement replacement

### External wall insulation

Select the appropriate external wall insulation type used in your project from the drop-down options provided.

#### Insulation options

- None
- Fibreglass batts or roll
- Rockwool batts, roll or pump-in
- Expanding foam
- Polystyrene
- Polyurethane
- Hemp-lime insulation
- Polyester
- Polyester minimum 85% post-consumer recycled content
- Blow in cellulose with fire retardant
- Foil-foam composite board

### External wall reflective foil

Select from yes or no options.

### Internal walls

#### Do you have internal walls shared with garage?

Select from yes or no options. If you select yes, you will be asked to enter details of the internal walls shared with the garage.

### Internal wall construction type

Select all internal wall construction types used in your project from the drop-down options provided. Use a different row for each construction type.

#### Construction type options

- Plasterboard
- Single skin masonry
- Cavity brick wall
- 75 mm AAC panel

- 200 mm AAC block
- Hempcrete
- Mud brick or rammed earth
- Block with low cement content and reconstituted sawdust

### Internal wall area (m<sup>2</sup>)

The internal wall area is measured by adding the areas of all internal walls of the same type, excluding openings such as windows and doors. Measurements should be taken to the outer edges of the wall types ignoring skirting boards and cornices, as shown below.

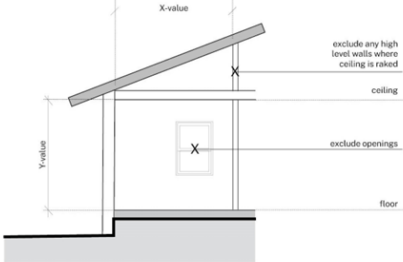


Figure 4. Measuring internal wall area - houses.

### Internal wall frame

Select the applicable frame type for each internal wall type from the drop-down menus provided.

#### Frame options:

- No frame
- Timber - untreated softwood
- Timber - H2 treated softwood
- Laminated veneer lumber (LVL)
- Timber - hardwood predominant incl. glue laminated beams
- Light steel frame
- Heavy steel post and beam frame

### Internal wall insulation

Select the applicable insulation type for each internal wall type from the drop-down menus provided.

#### Insulation options:

- Not specified
- None
- Fibreglass batts or roll
- Rockwool batts, roll or pump-in
- Expanding foam
- Polystyrene
- Polyurethane
- Hemp-lime insulation
- Polyester
- Polyester minimum 85% post-consumer recycled content
- Blow in cellulose with fire retardant
- Foil-foam composite board

## Single dwelling and multi-dwelling housing – ceiling/roof

### Ceiling and roof type

Select all ceiling and roof types used in your project from the options provided.

#### Ceiling and roof type options

- Flat ceiling / pitched roof
- Raked ceiling / pitched or skillion roof
- Flat ceiling / flat roof

### Ceiling and roof construction type

Select the construction type for each ceiling and roof type from the drop-down menus provided.

#### Construction type options:

- Framed - metal roof
- Framed - terracotta tiles
- Framed - concrete tiles
- Concrete - plasterboard internal
- Concrete - bare internal
- Structural insulated panel (SIP)

### Ceiling and roof area (m<sup>2</sup>)

Roof area is measured to the outside of the gutters, excluding parapets and trafficable roof terraces, and measured in the horizontal plane. Do not take allowances for pitched or skillion roof slopes.

### Ceiling and roof frame

Select the frame for each ceiling and roof type from the drop-down menus provided.

#### Frame options:

- No frame
- Timber - untreated softwood
- Timber - H2 treated softwood
- Laminated veneer lumber (LVL)
- Timber - hardwood predominant incl. glue laminated beams
- Light steel frame
- Heavy steel post and beam frame

### Roof insulation

Select the appropriate roof insulation type used in your project from the drop-down menus provided.

#### Roof insulation options

- Not specified
- None
- Foil/sarking
- Foil backed blanket

### Ceiling insulation

Select the appropriate ceiling insulation type used in your project from the drop-down options provided.

#### Ceiling insulation options:

- Not specified
- None
- Fibreglass batts or roll
- Rockwool batts, roll or pump-in
- Expanding foam
- Polystyrene
- Polyurethane
- Hemp-lime insulation
- Polyester
- Polyester minimum 85% post-consumer recycled content
- Blow in cellulose with fire retardant
- Foil-foam composite board
- Foil backed blanket

---

## Single dwellings and multi- dwelling housing – glazing

Measure the area of the glazing from the outside edges of the frame (include the frame and glass).  
The total area by glazing type should match the total area by frame type.

### Glazing area by glazing type

Provide the area of glazing used in your project by glazing types listed. Measure the area of the glazing from the outside edges of the frame (include the frame and glass). The total area by glazing type should match the total area by frame type.

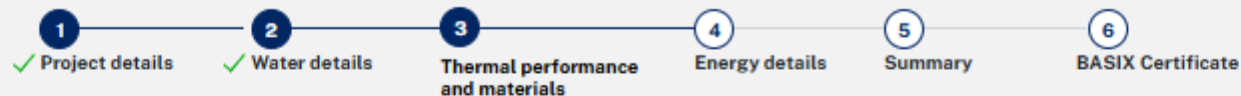
#### Glazing types:

- Single glazed
- Double glazed
- Triple glazed

### Glazing area by frame type

Provide the area of glazing used in your project by frame types listed.

- Aluminium
- Timber
- UPVC
- Steel
- Composite



Select each category below to input information about your project. You do not need to complete this section before continuing to the next section.

- <
- 3.1 Thermal performance
- 3.2 Construction type
- 3.3 Construction details
- 3.4 Insulation
- 3.5 Ceiling fans
- 3.6 Windows, doors and skylights
- >
3.

Select the construction type for all parts of the dwelling that are included in the conditioned and unconditioned floor area. ⓘ

Ignore parts of the dwelling that are external, such as decks or external walls of garages. Select all that apply.

- 3.2.1 Floor types
- 3.2.2 Wall types
- 3.2.3 Ceiling and roof types

External Walls [What is this?](#)

You must specify at least one external wall type \*

External wall types ⓘ	Construction Type * ⓘ	Area * ⓘ	Frame * ⓘ	Low Emissions * ⓘ	Insulation * ⓘ	Reflective Foil ⓘ *	Wall Colour * ⓘ
External wall type 1	<div>framed (fibre cemen ▾)</div>	<div></div>	<div>timber -untr ▾</div>		<div>fibreglass b: ▾</div>	<div><input checked="" type="radio"/> Yes</div> <div><input type="radio"/> No</div>	<div>please select ▾</div>
External wall type 2	<div>not applicable ▾</div>	<div></div>	<div>please selec ▾</div>		<div>not specifier ▾</div>	<div><input type="radio"/> Yes</div> <div><input type="radio"/> No</div>	<div>please select</div> <div>Light (solar absorptance &lt; 0.48)</div> <div>Medium (solar absorptance 0.48-0.7)</div> <div>Dark (solar absorptance 0.71-0.85)</div> <div>Dark (solar absorptance &gt;0.85)</div>
External wall type 3	<div>not applicable ▾</div>	<div></div>	<div>please selec ▾</div>		<div>not specifier ▾</div>	<div><input type="radio"/> Yes</div> <div><input type="radio"/> No</div>	
External wall type 4	<div>not applicable ▾</div>	<div></div>	<div>please selec ▾</div>		<div>not specifier ▾</div>	<div><input type="radio"/> Yes</div> <div><input type="radio"/> No</div>	<div>please select ▾</div>