

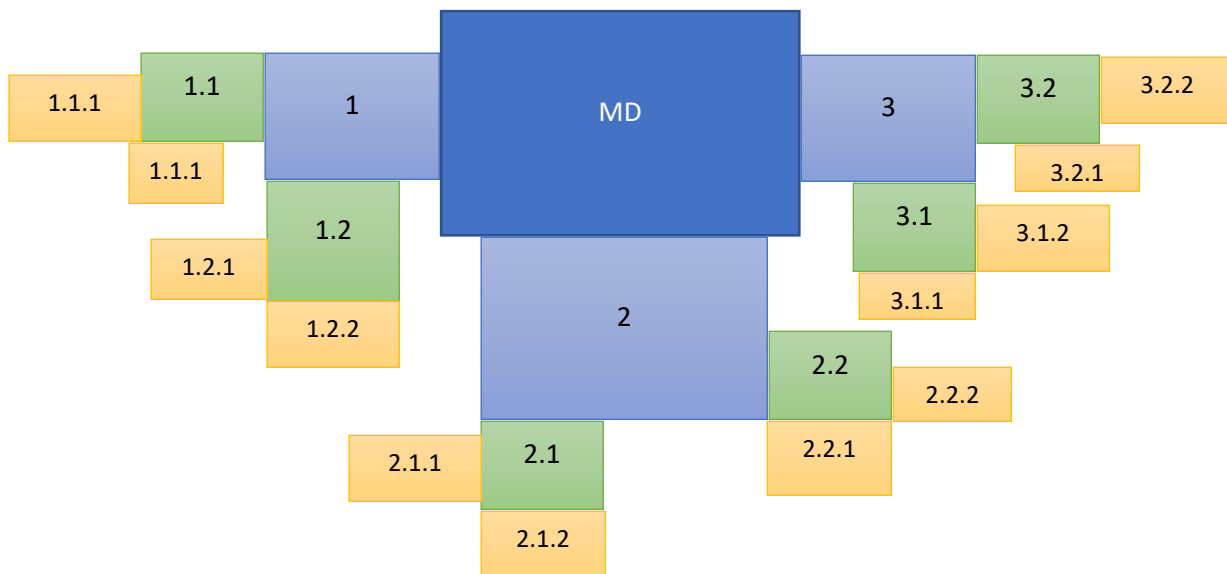
How to use the calculator:

A calculation may be carried out on a main dwelling (MD) that has up to 3 direct extensions (1, 2, 3).

Each direct extension may have up to 2 further sub-extensions (1.1, 1.2 etc)

Each sub-extension may also have up to 2 further sub-sub-extensions (1.1.1, 1.1.2 etc)

Therefore, a dwelling may have up to 3 levels of extension (although this is unlikely) for example:



Note: the layout of the calculator is designed to respond to different screen sizes. Therefore, the action buttons may appear at the top, bottom or left-hand side of the screen, depending on the screen size being used.

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1. Enter Main property details & calculate boiler size:

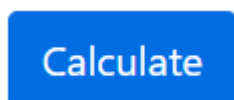
- Fill all fields – use the tab key on the keyboard to move from field to field

Note: some fields will be auto-populated, based on entry in other fields. For example, if mid-terrace is chosen for house type, number of external gable walls will default to 0
If a combi boiler is selected for boiler type, hot water allowance will default to 0

- Click the **Add main property** button (top or bottom of the screen)



- Click the **Calculate** button (top or bottom of the screen)

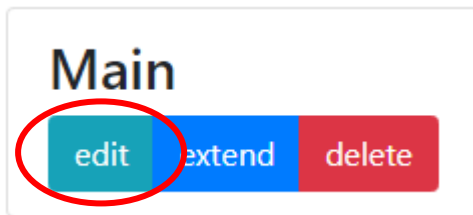


Calculated results are displayed at bottom of screen, for example

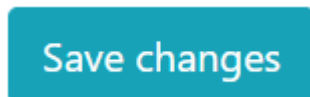
Part	Basic Design Heat Loss	Heat Required	Hot Water Allowance	Total Floor Area	Boiler Size
Main property	8.7	10.59	0	200	10.59
Summary	8.7	11	0	200	10.59

2. Edit Main property details & re-calculate boiler size:

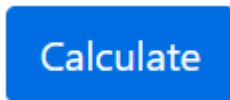
- In the left-hand panel/at top of screen click **edit** under **Main**



- Make the necessary changes in the property fields
- Click the **Save changes** button at the bottom of the screen



- Click the **Calculate** button (top or bottom of the screen)

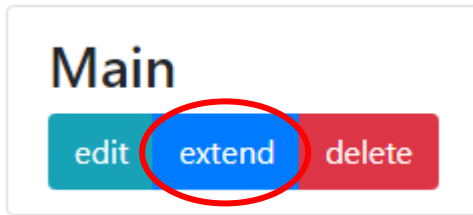


Re-calculated results are displayed at bottom of screen, for example

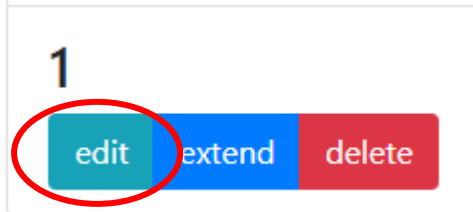
Part	Basic Design Heat Loss	Heat Required	Hot Water Allowance	Total Floor Area	Boiler Size
Main property	8.8	10.73	0	200	10.73
Summary	8.8	11	0	200	10.73

3. Add Extensions to main property details & re-calculate boiler size:

- In the left-hand panel/at top of screen click **extend** under **Main**



- In the resulting extensions options, click **Edit**



- Fill all extension fields – use the tab key on the keyboard to move from field to field

Edit extension #1

External details

Walls	Length(m)	Walls	Width(m)
<input type="text" value="2"/>	<input type="text" value="10"/>	<input type="text" value="1"/>	<input type="text" value="10"/>
Number of external walls to front/rear	Front/Rear	Number of external walls to gable end/side	Gable end/Side

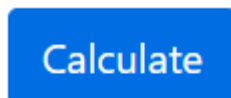
Internal details

Height(m)	Floors	Walls	Walls
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- Click the **Save changes** button at the bottom of the screen



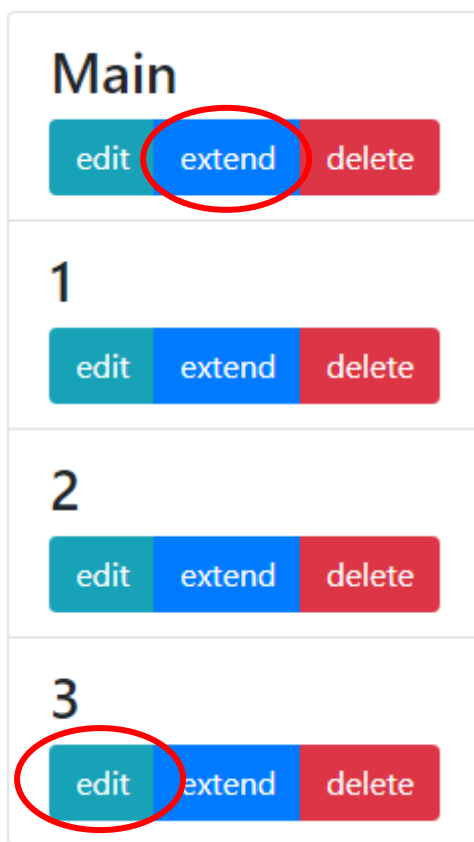
- Click the **Calculate** button (top or bottom of the screen)



Re-calculated results are displayed at bottom of screen, for example

Part	Basic Design Heat Loss	Heat Required	Hot Water Allowance	Total Floor Area	Boiler Size
Main property	8.8	10.73	0	200	10.73
#1	2.8	3.22	0	25	3.22
Summary	11.6	14	0	225	13.950000000000001

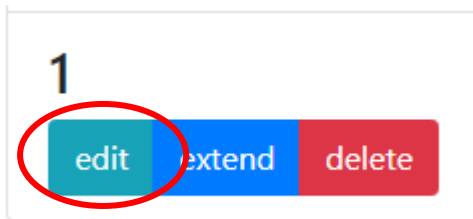
- To add further extensions to the main property, in the left-hand panel/at top of screen click **extend** under **Main**
- In the resulting extensions options, click **Edit** and repeat the steps above



Note: you may have up to 3 extensions on a main dwelling

4. Edit Extensions to main property details & re-calculate boiler size:

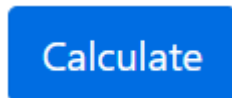
- In the left-hand panel/at top of screen click **edit** under **the number** of the extension to be edited



- Make the necessary changes in the property fields
- Click the **Save changes** button at the bottom of the screen

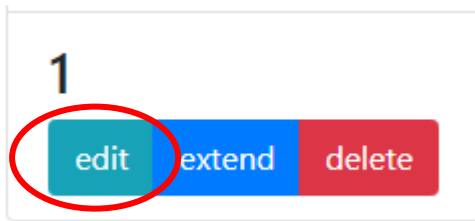


- Click the **Calculate** button (top or bottom of the screen)

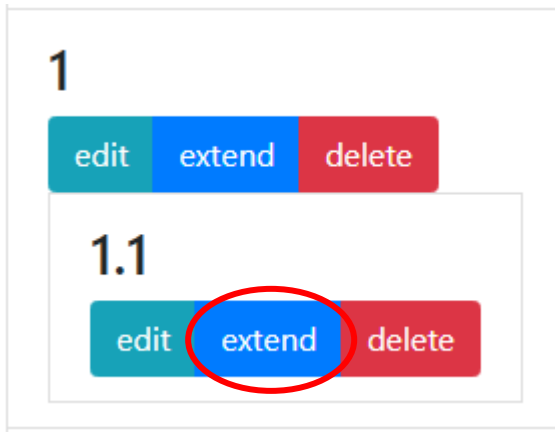


Re-calculated results are displayed at bottom of screen

5. Add a sub-extension to an extension & re-calculate boiler size
 - In the left-hand panel/at top of screen click **extend** under **the number** of the extension to be extended



- In the resulting sub-extension options, click **Edit**



- Fill all sub-extension fields – use the tab key on the keyboard to move from field to field

Edit extension #1.1

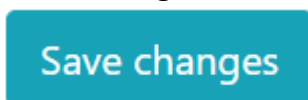
External details

Walls	Length(m)	Walls	Width(m)
<input type="text" value="2"/>	<input type="text" value="5"/>	<input type="text" value="2"/>	<input type="text" value="5"/>
Number of external walls to front/rear	Front/Rear	Number of external walls to gable end/side	Gable end/Side

Internal details

Height(m)	Floors	Walls	Walls	Chimneys
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- Click the **Save changes** button at the bottom of the screen



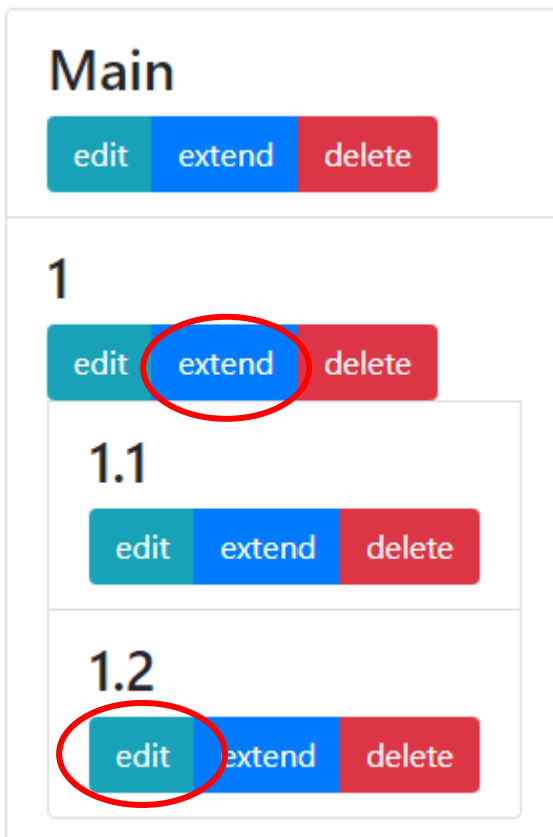
- Click the **Calculate** button (top or bottom of the screen)

Calculate

Re-calculated results are displayed at bottom of screen, for example

Part	Basic Design Heat Loss	Heat Required	Hot Water Allowance	Total Floor Area	Boiler Size
Main property	8.8	10.73	0	200	10.73
#1	2.8	3.22	0	25	3.22
#1.1	2	2.26	0	16	2.26
Summary	13.6	16	0	241	16.21

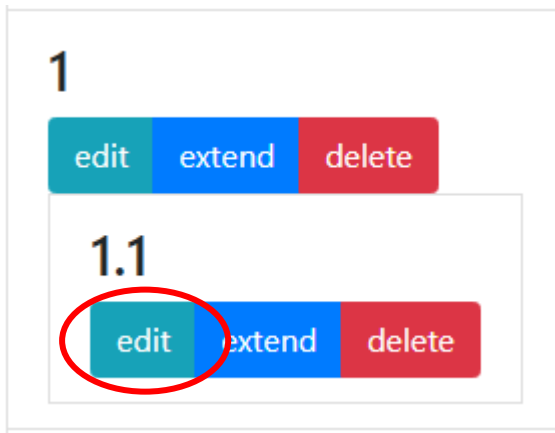
- To add further sub-extensions to an extension, in the left-hand panel/at top of screen click **extend** under **the number** of the extension to be extended
- In the resulting sub-extensions options, click **Edit** and repeat the steps above



Note: you may have up to 2 sub-extensions on an extension

6. Edit Sub-extensions to an extension & re-calculate boiler size:

- In the left-hand panel/at top of screen click **edit** under **the number** of the sub-extension to be edited



- Make the necessary changes in the property fields
- Click the **Save changes** button at the bottom of the screen

Save changes

- Click the **Calculate** button (top or bottom of the screen)

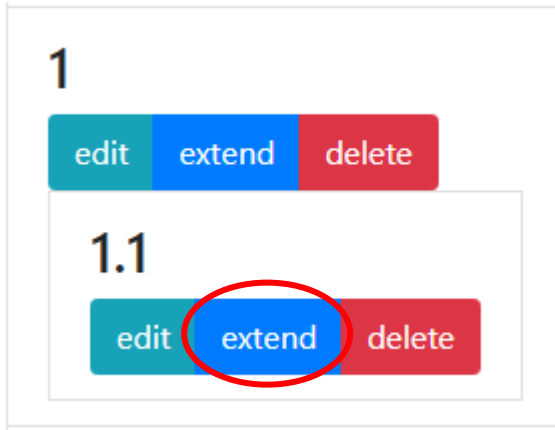
Calculate

Re-calculated results are displayed at bottom of screen

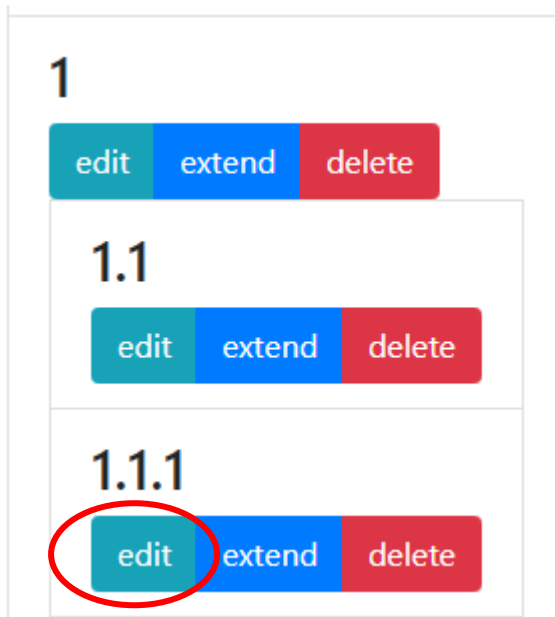
7. Adding further sub-extensions

A sub-extension may have up to 2 further extensions added.

- In the left-hand panel/at top of screen click **extend** under **the number** of the sub-extension to be extended



- In the resulting sub-sub-extension options, click **Edit**



- Fill all sub-sub-extension fields – use the tab key on the keyboard to move from field to field

Edit extension #1.1.1

External details

Walls	Length(m)	Walls	Width(m)
<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="2"/>	<input type="text" value="3"/>
Number of external walls to front/rear	Front/Rear	Number of external walls to gable end/side	Gable end/Side

Internal details

Height(m)	Floors	Walls	Walls	Chimneys
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- Click the **Save changes** button at the bottom of the screen

Save changes

- Click the **Calculate** button (top or bottom of the screen)

Calculate

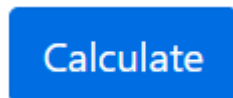
Re-calculated results are displayed at bottom of screen, for example

Part	Basic Design Heat Loss	Heat Required	Hot Water Allowance	Total Floor Area	Boiler Size
Main property	8.8	10.73	0	200	10.73
#1	2.8	3.22	0	25	3.22
#1.1	2	2.26	0	16	2.26
#1.1.1	1	1.21	0	4	1.21

8. Removing an extension/sub-extension & re-calculate boiler size
- In the left-hand panel/at top of screen click **delete** under **the number** of the extension/sub-extension to be edited



- Click the **Calculate** button (top or bottom of the screen)



Re-calculated results are displayed at bottom of screen

Note: deleting an extension will delete all associated sub and sub-sub extensions