

Design Services

Technical Specification Sheet

Full Design Service

This service provides a full heat load calculation and detailed system pipework layout flow rate and mixing valve setting. For this we require all information as per the quote service and can then convert that into a full design or on the quote application designate for a full design to be completed.



System Summary

Floor structure	waffle pods, sand, other
Design temperature	20°C
Manifold output	7.70kW
Total building floor area	161.2m ²
Total amount of pipe required	938m
Total number of circuits	9
Bosch boiler	18kW, 30kW, 37kW Combi, Natural Gas, LP Gas
Auspex Radiant kit	6 circuit, 9 circuit, 12 circuit
Mixing valve temperature	40°C

Free Design With Detailed Estimate

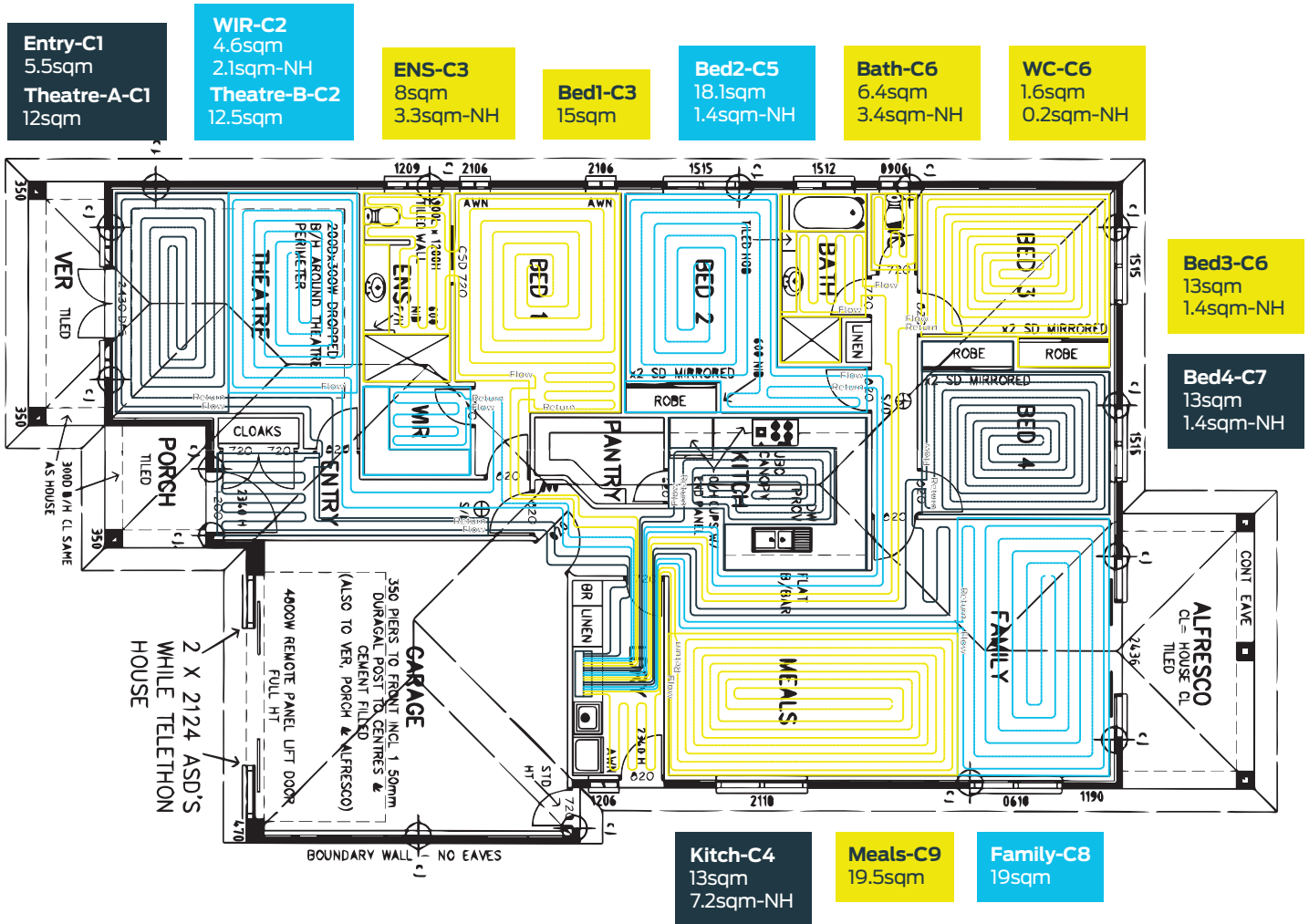
With our vast experience and expertise, you can be assured that we will design the most energy efficient-solution for your project. Boasting one of the fastest turnaround times in the industry, our team will provide you with a detailed estimate and free CAD design package*.

To request an Auspex Radiant design, provide your Reece branch with all required information. The design can take up to a week to process and will provide all the information to materials required to proceed with your project.

If you require any further assistance we have Auspex Radiant trained staff nationwide, ready to assist with your project at any stage, so please do not hesitate to contact us.

**Note: Any redesign requirements will be subject to a design fee.*

Full Design Service



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Circuit	System Summary	Pipe Centres (mm)	Pipe Length (m)	Flow Rate (lpm)
1	Entry + Theatre-A	200	109	1.87
2	Theatre-B + WIR	200	106	1.87
3	Bed 1 + Ensuite	200	119	2.10
4	Kitchen	200	41	1.50
5	Bed 2	200	115	1.78
6	Bathroom + WC + Bed 3	200	119	1.71
7	Bed 4	200	92	1.59
8	Family	200	120	2.03
9	Meals	200	119	2.08

Self Quote Service

Self Quote Service

To conduct your own basic quote/estimation of the project the following process is advised:

Step 1

Determine the total heated floor area required. Calculate each room size and deduct any unheated floor area such as cupboards, benches, fixtures, robes etc. Once each room size has been determined, add all together to get a total heated floor area in metres squared.

Step 2

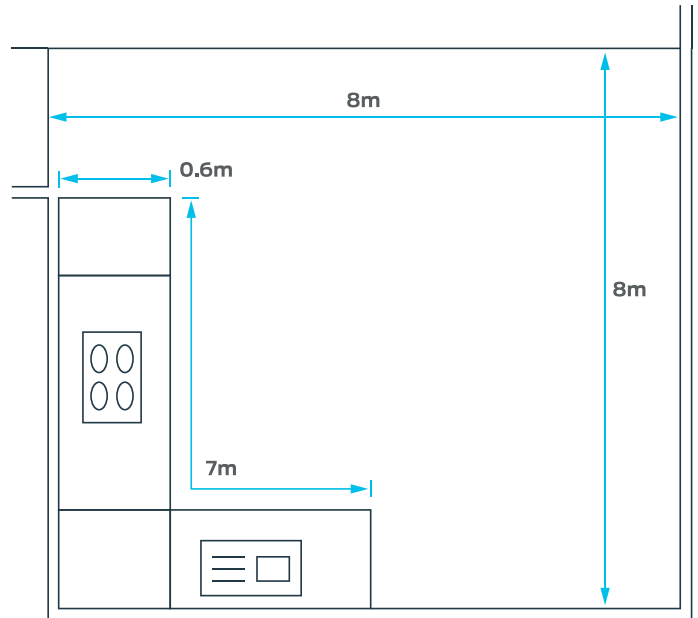
As an estimator's guide for quoting purposes only, please see the following table as an example to establish what kit size is right for your project. This formula works on every 1m² requires 5.5m of pipe, therefore allowing a 10% factor for flow and return etc. (If all couplings in slab are to be avoided each circuit will need to be calculated separately.)

Step 3

Once you have your kit size established please consider the below factors that may be included in your quote:

- Electrical / wiring controls
- Boiler and flue requirements
- Gas requirements
- Zone controls
- Flow and return piping (Auspex Radiant MLP recommended)

If you require further assistance with this, see the Reece trained staff or contact an Auspex Representative.



Calculate Total Floor Area

$$8\text{m} \times 8\text{m} = 40\text{m}^2$$

Calculate Unheated Floor Area

$$0.6 \times 7\text{m} = 4.2\text{m}^2$$

Subtract Unheated Floor Area

$$40 - 4.2 = 35.8\text{m}^2$$

TOTAL HEATED FLOOR AREA IS 35.8m²

Kit Size	Heated Floor Area	Pipe Length	SmartClips / Boxes
4	80m ²	440m	800 clips = 2 boxes
5	100m ²	550m	1000 clips = 2 boxes
6	120m ²	660m	1200 clips = 2 boxes
7	140m ²	770m	1400 clips = 3 boxes
8	160m ²	880m	1600 clips = 3 boxes
9	180m ²	990m	1800 clips = 3 boxes
10	200m ²	1100m	2000 clips = 4 boxes
11	220m ²	1210m	2200 clips = 4 boxes
12	240m ²	1320m	2400 clips = 4 boxes

The above allowances are calculated on each circuit being a maximum 100m / 20m² total. Auspex has the common sized manifolds as in bold above, if your job requires an in between size, manifold caps will be supplied for closing the unused ports.