

Key terms

Term	Definition
Centre line	The centre line is a term used to define the centre part of a structure.
External girth	The external girth of a structure is the external perimeter of the structure.
Internal girth	The internal girth of a structure is the internal perimeter of the structure.

Centre line calculations

The term centre line is usually used when referring to:

- the substructure (foundations)
- the external walls.

The diagram opposite shows the plan for the foundations of a rectangular building. The foundations are 600mm wide strip foundations.

To calculate the centre line measurement, we need to consider the corner detail which will extend the interior girth to the centre line twice at each corner as shown in diagram.

Therefore, the centre line will be:

- 2 × the length
- 2 × the width
- 8 × half the width of the trench.

In this case, the centre line measurement will be:

$(2 \times 10,000) + (2 \times 2,000) + (8 \times (600/2))$

