

Estimation & Costing (DI04006021)

Lecture 19: Centre Line Method

Introduction to Centre Line Method

- The total length of the centre line of all walls, long and short, is calculated.
- This total length is multiplied by the breadth and depth of the respective item to get the total quantity at once.
- **Advantage:** Very quick method for estimating.

Total Quantity

$$Q = \text{Total Centre Line Length} \times \text{Width} \times \text{Depth}$$

Handling Junctions

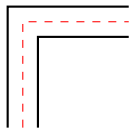
When walls intersect, there is an overlap in the centre line measurement which must be deducted.

- **L-Junction (Corner):** No deduction required.
- **T-Junction (Partition wall):** Deduct $\frac{1}{2} \times$ width of the item for each T-junction.
- **Cross-Junction (+ intersection):** Deduct $1 \times$ width of the item for each cross-junction.

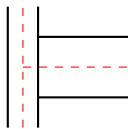
Modified Length

Net Centre Line Length = Total C.L. - (No. of T-junctions $\times \frac{w}{2}$) - (No. of Cross-junctions $\times w$)

Diagram of Junctions



L-Junction (0)



T-Junction ($\frac{w}{2}$)