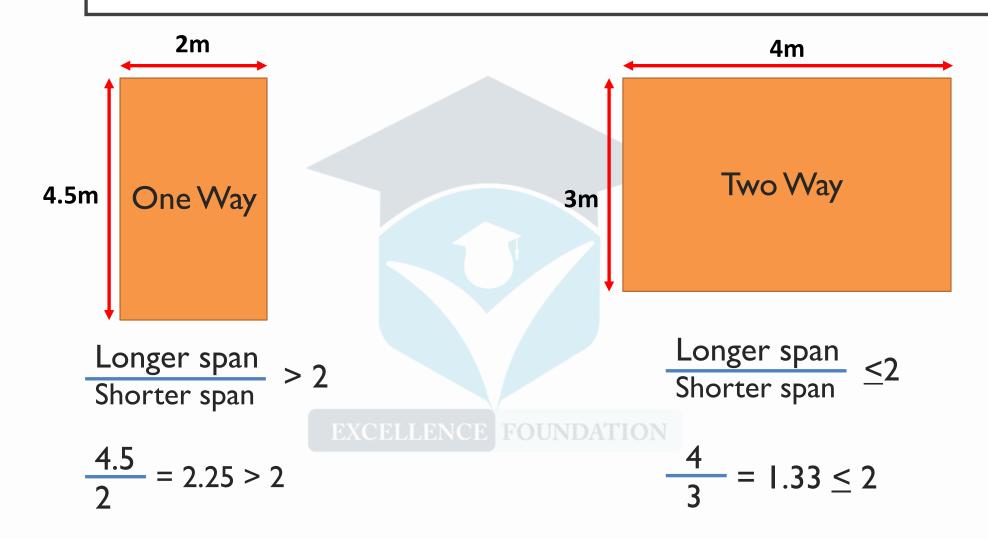


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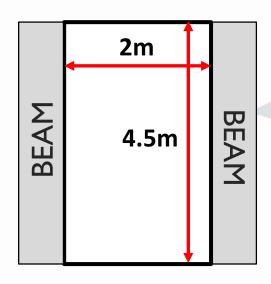
An ISO 9001:2015 Certified Company www.excellence-foundation.com

SLAB

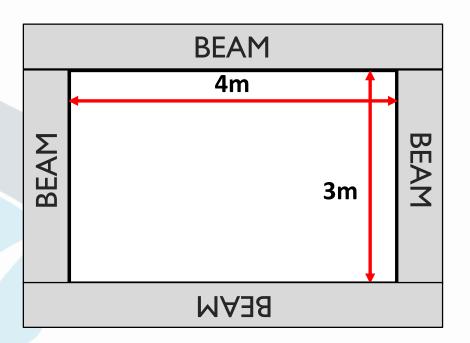
HOW TO FIND OUT ONE WAY & TWO WAY SLAB



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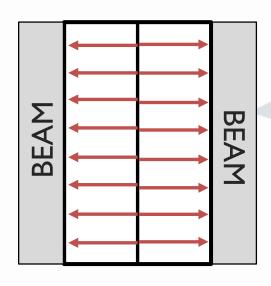


 One Way Slab – Support by beams on two opposite sides, carrying the load along Shorter direction.

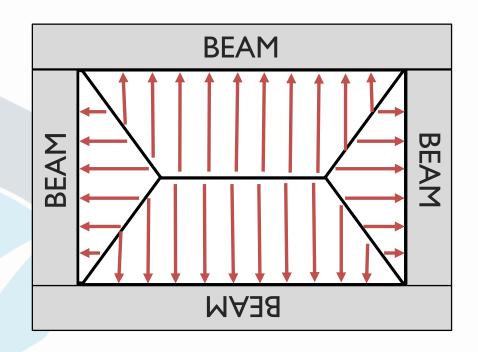


 Two Way Slab – Support by beams on all Four sides, carrying the load along Both direction.

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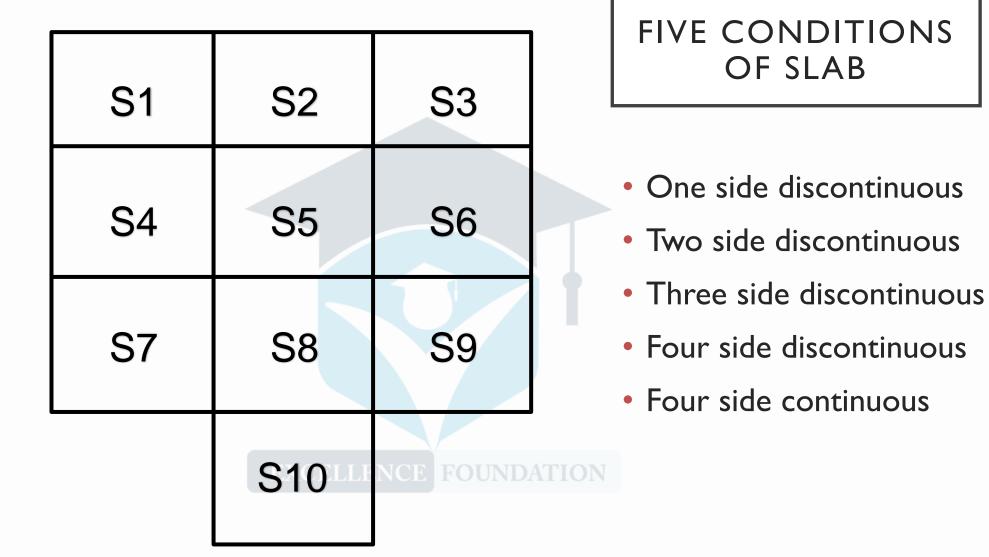


 Load Travel in Shorter Path on Longer beam & Half of total load is transferred on each Beam



 Load travel on all beam in the form of trapezoidal & Triangle.

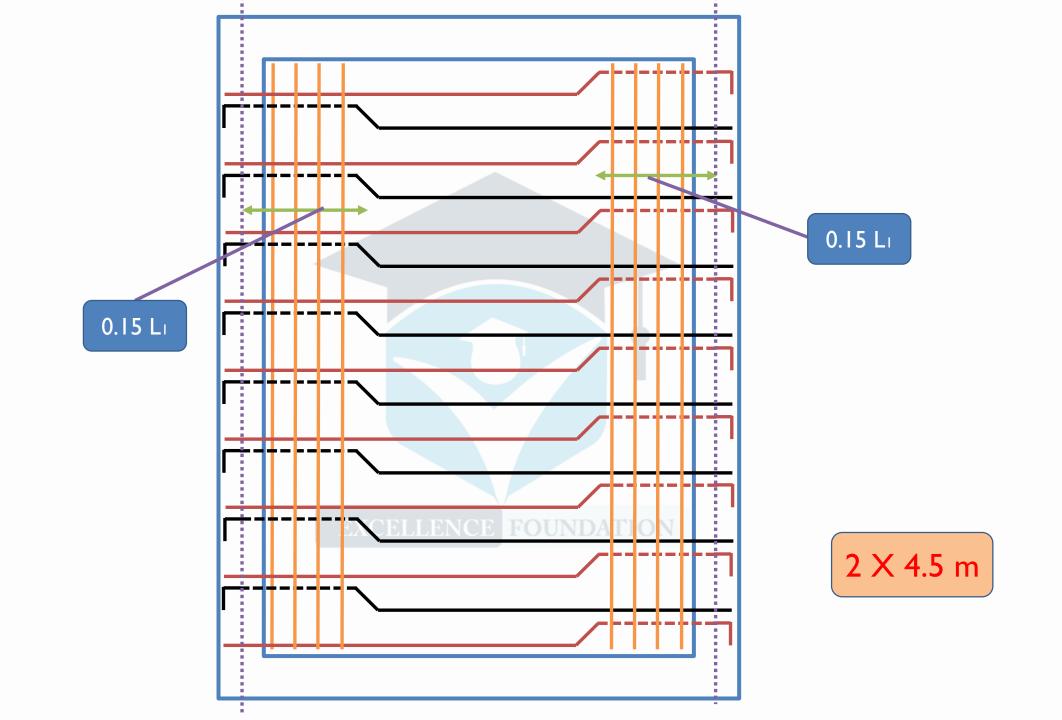
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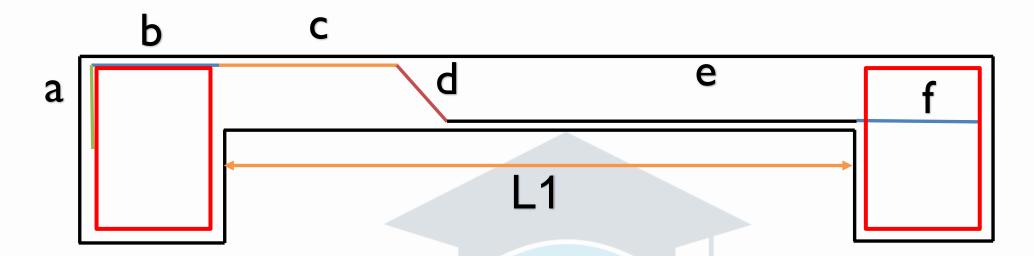


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SLAB CALCULATION

Shorter Span Number of bars – No. of bars = (Opposite length/spacing) +1 Main Bar Span EXCELLENCE Distribution bar





a = Thickness of slab - Slab Cover - Slab Cover

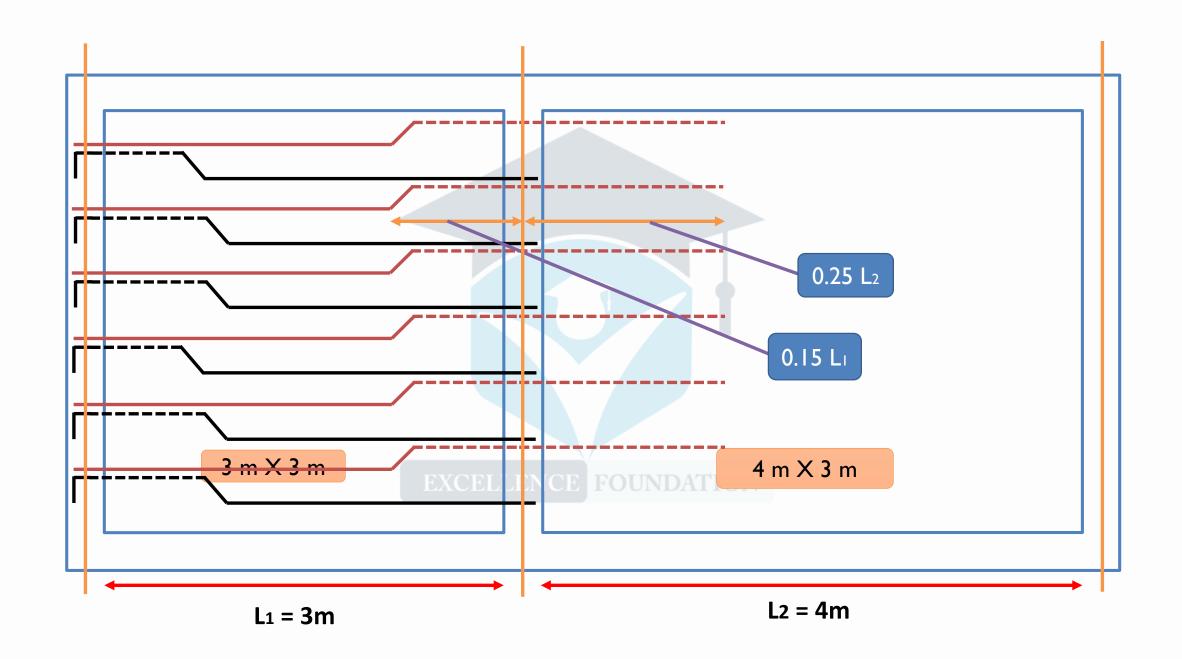
b = Left Support of Width of beam – Beam Cover

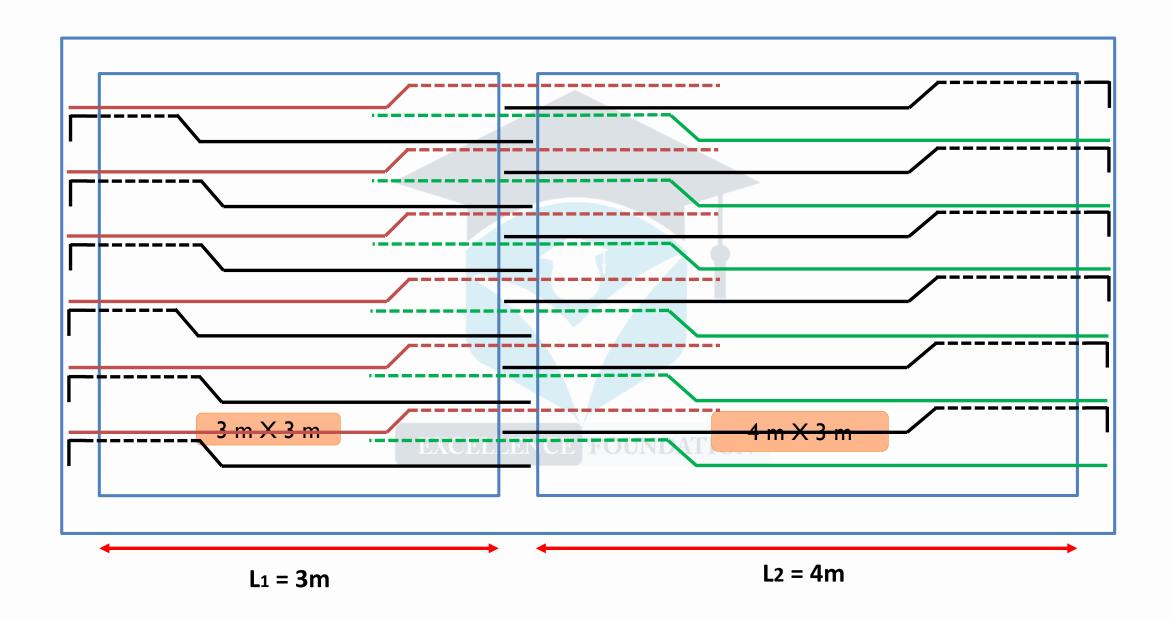
 $c = 0.15*L_1 - (Left Support of width of beam/2)$

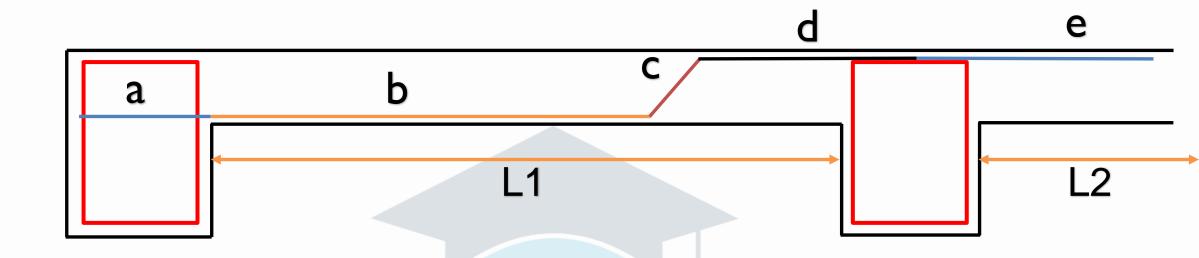
d = 0.42D(D= THk of slab - Slab Cover - Slab Cover - Dia Of bar)

 $e = L_1 - c$

f = Right Support of width of beam – beam cover







a = Left Support of Width of beam – Beam Cover

 $b = L_1 - (d-(Right Support/2))$

c = 0.42D(D= THk of slab - Slab Cover - Slab Cover - Dia Of bar)

 $d = 0.15* L_1$

 $e = 0.25* L_2$