

Two-Way Slabs

- ❖ Design of Two-Way Slab
- ❖ Moment Coefficient Method
- ❖ Load Transfer from Two-Way Slab
- ❖ Bar Detailing
- ❖ Design Example

Figure 1 show the different between two way slab and one way slab and depending on the ratio between length and width of slab.

$L/S \leq 2.0$ Two Way Slab (TWS)

$L/S \geq 2.0$ One Way Slab (OWS)

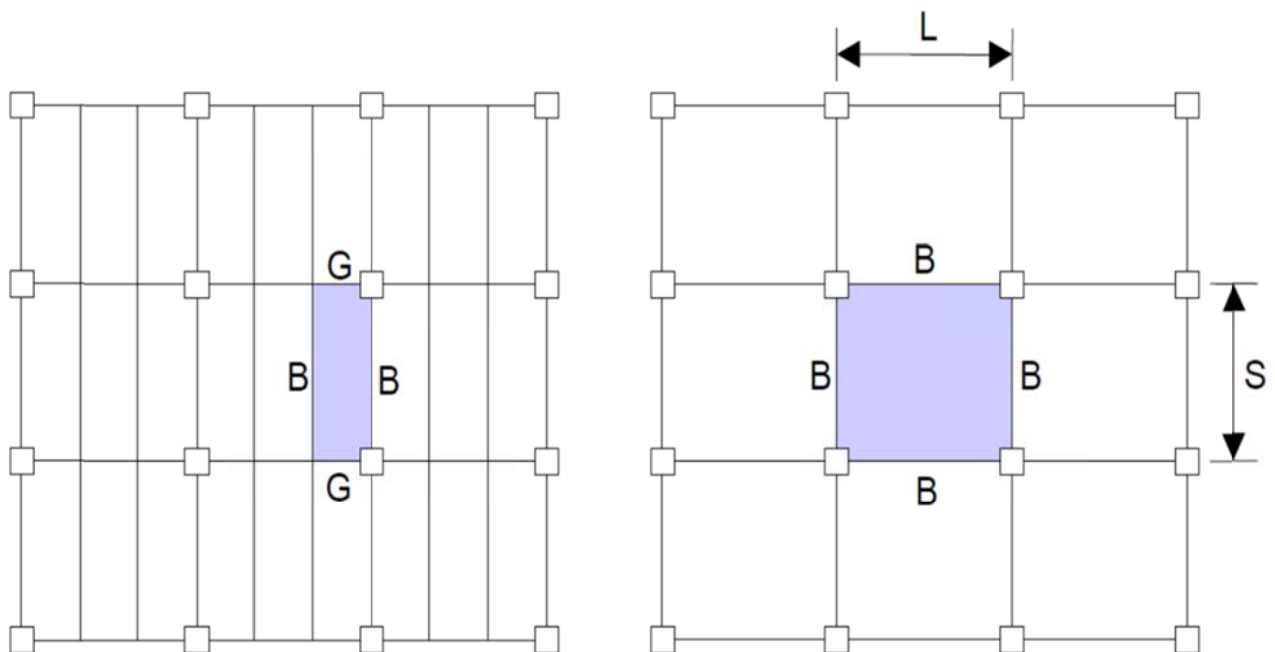
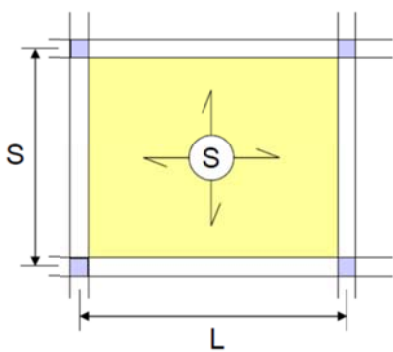
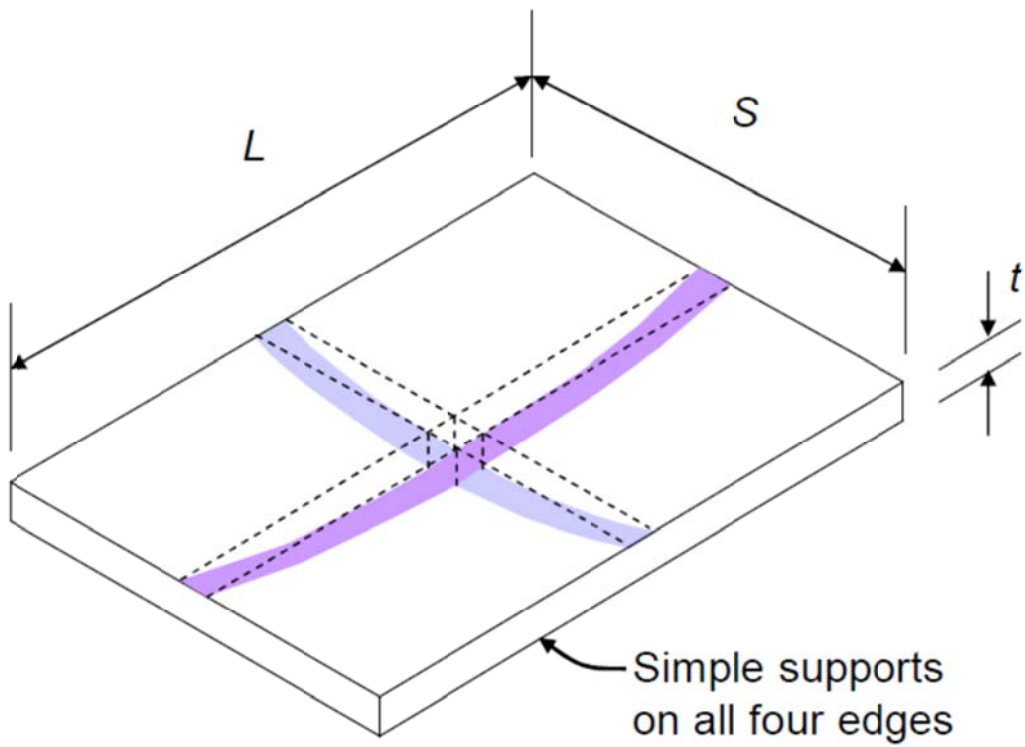
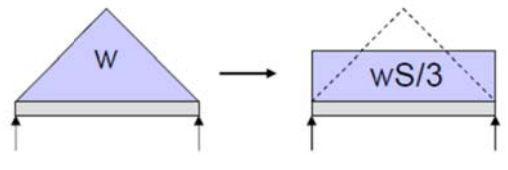
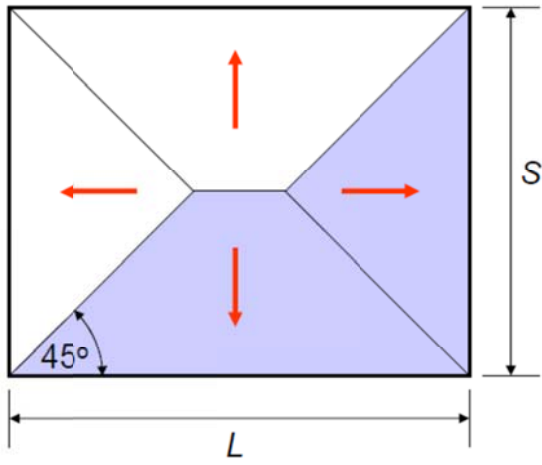


Fig. 1 Different between TWS (Right side) & OWS (Left side)



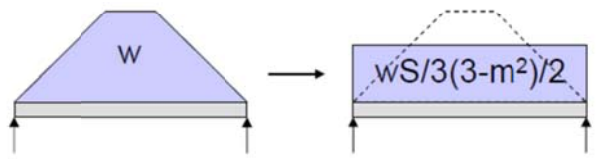
$$\frac{\text{Perimeter}}{180} = \frac{2(L+S)}{180} \geq 10 \text{ cm Or } 12.5 \text{ cm depending on the stiffness of perimeter beam}$$





Load on span $S = \frac{wS}{3}$

Load on span $L = \frac{wS}{3} \left(\frac{3-m^2}{2} \right)$



W S

