



Factors

Concrete: $\gamma_c = 1.50$
Steel: $\gamma_s = 1.15$

Reinforcement

Unsymmetric:

$A_{s1} = 31.42 \text{ cm}^2$ $A_{s2} = 31.42 \text{ cm}^2$

Solve data

II order moments: No

Section properties

Reinforcement :

$A_{s,tot} = 62.84 \text{ cm}^2$

Concrete section:

$A_c = 13000.00 \text{ cm}^2$

$I_{c,x} = 18308333.33 \text{ cm}^4$

R/C section:

$A_{red} = 13349.61 \text{ cm}^2$

$I_{red,x} = 19566929.15 \text{ cm}^4$

$r_x = 38.28 \text{ cm}$