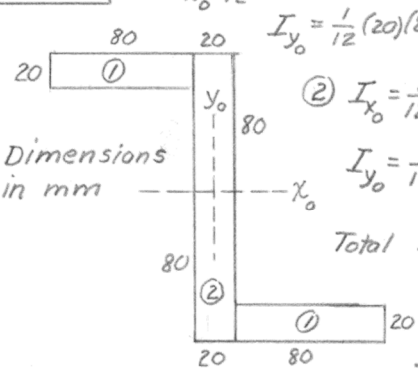


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Dimensions in mm

①  $I_{x_0} = \frac{1}{12}(80)(20)^3 + (80)(20)(70)^2 = 7.89(10^6) \text{ mm}^4$

$I_{y_0} = \frac{1}{12}(20)(80)^3 + (20)(80)(50)^2 = 4.85(10^6) \text{ mm}^4$

②  $I_{x_0} = \frac{1}{12}(20)(160)^3 = 6.83(10^6) \text{ mm}^4$

$I_{y_0} = \frac{1}{12}(160)(20)^3 = 0.1067(10^6) \text{ mm}^4$

Total  $\bar{I}_x = [2(7.89) + 6.83](10^6)$

$= 22.6(10^6) \text{ mm}^4$

$\bar{I}_y = [2(4.85) + 0.1067](10^6)$

$= 9.81(10^6) \text{ mm}^4$

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