

Stress (avg) = $\frac{1}{A} \int \sigma dA = \frac{1}{A} \int_0^L kx dx = \frac{1}{A} kx^2 = \frac{1}{A} kLx = \frac{1}{A} PL$

$E = 200 \text{ GPa}$

$P = 100 \text{ N}$

$A = 100 \text{ mm}^2$

$L = 100 \text{ mm}$

$\delta L = \frac{PL}{EA} = \frac{100 \times 100}{200 \times 10^9 \times 100 \times 10^{-6}} = 5 \times 10^{-6} \text{ m}$

$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

$\delta L = \frac{PL}{EA}$

$\delta L = \frac{PL}{EA}$

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$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

Member	F (kN)	L (m)	A (m ²)	E (GPa)	$\frac{\delta L}{L}$
AD	50	0.4	100 × 10 ⁻⁶	200	0.000125
AB	50	0.4	100 × 10 ⁻⁶	200	0.000125
BC	50	0.4	100 × 10 ⁻⁶	200	0.000125
BD	0	0.4	100 × 10 ⁻⁶	200	0
DC	50	0.4	100 × 10 ⁻⁶	200	0.000125

$\delta L = 20 \text{ mm}$

$\delta L = 20 \text{ mm}$

$\delta L = 20 \text{ mm}$

$\delta L = 20 \text{ mm}$

$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

$\sigma = \frac{P}{A}$

$\tau = \frac{V}{A}$

Factor of safety = $FS = \frac{\text{ultimate load}}{\text{allowable load}}$

$FS = \frac{\text{ultimate stress}}{\text{allowable stress}}$

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