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Find allowable for F.S. = 3:

\[
\text{Area} = (4\times12) - (3\times11) = 15
\]

\[
I_x = \frac{4(12)^3}{12} - \frac{3(11)^3}{12} = 243.25
\]

\[
I_y = \frac{12(4)^3}{12} - \frac{11(3)^3}{12} = 39.25
\]

\[
K\frac{E}{r_y} = \sqrt{\frac{243.25}{15}} = 4.027
\]

\[
r_y = \sqrt{\frac{39.25}{15}} = 1.618
\]

\[
K\frac{E}{r_x} = \frac{1((24\times12))}{4.027} = 71.52 \text{ controls}
\]

\[
K\frac{E}{r_y} = \frac{1((8\times12))}{1.618} = 59.33
\]

X-X axis controls:

\[
P_{cr_x} = \frac{\pi^2 EA}{(K\frac{E}{r})^2} = \frac{\pi^2 (29000)(15)}{71.52^2} = 889.4 \text{ k}
\]

\[
P_y = f_y A = 36 (15) = 540 < 889.4 \text{ k, yielding controls}
\]

\[
P_{allow} = 540 / 3 = 180 \text{ k}
\]