ARCH 324 - Structures 2, Winter 2009

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\[ M_{\text{max}} = 20' \times 30^k - 5' \times 30^k = 450 \text{ k-ft} = 5400 \text{ k-in} \]

\[ f_b = 30 \times 31 \geq \frac{5400 \text{ k-in}}{S} \]

\[ S \geq \frac{5400}{30} = 180 \text{ in}^2 \]

From D-35, choose W 24 x 84 : \[ S = 196 \text{ in}^2 \]