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ARCH 324 - Structures 2, Winter 2009

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DEFLECTION

\[
\begin{align*}
\frac{19507.3}{E} & \quad \frac{26864}{E} & \quad \frac{23670}{E} \\
\end{align*}
\]

To find out what the deflection would equal in inches, the section (I) and the material (E) must be given — Ec.

For a W16 x 67

\[
\begin{align*}
I &= 954 \text{ in}^4 \\
E &= 29000 \text{ ksi} \\
\Delta_{\text{max}} &= \frac{26864 (1728)}{954 (29000)} = 1.7^\prime \\
\end{align*}
\]

Which is \( \frac{L}{257} \times \frac{f}{360} \), within limits for span.