Structural Aluminum Extrusions

EX-26

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.02 Sq. In.
- Weight/ft = 3.552 lbs.
- 96", 192.63" Lengths standard.

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)

Load at center
Span

Section Properties:
Moment of Intertia in\(^4\) = 5.6781, 0.6911
Section modulus in\(^3\) = 2.5236, 0.9215

\[
y = \frac{PL^3}{1.09 \times 10^{10}}
\]

\[
y = \frac{PL^3}{1.33 \times 10^9}
\]
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

Load at center

\[ y = \frac{PL^3}{6.09 \times 10^9} \]

Load at end

\[ y = \frac{PL^3}{7.42 \times 10^8} \]

Load condition:
Fixed at one end, load at unsupported end
Deflection = Y (inches)

\[ y = \frac{PL^3}{1.71 \times 10^8} \]

\[ y = \frac{PL^3}{2.08 \times 10^7} \]