Structural
Aluminum Extrusions

EX-2 Clear Anodized
BLX-2 Black Anodized

- Material = 6105-T5 Aluminum
- Est. Area = 2.051 Sq. In.
- Weight/ft = 2.471 lbs.
- 96", 144.25" (clear), 192.63"
  Lengths standard.

Section Properties:
Moment of Inertia in^4 1.76 .481
Section modulus in^3 1.173 .641

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

\[
y = \frac{PL^3}{3.38 \times 10^9} \quad \text{or} \quad y = \frac{PL^3}{9.24 \times 10^8}
\]
Structural Aluminum Extrusions

**Clear Anodized**

**Black Anodized**

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

\[ y = \frac{PL^3}{1.89 \times 10^8} \]

\[ y = \frac{PL^3}{5.17 \times 10^8} \]

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

\[ y = \frac{PL^3}{5.28 \times 10^7} \]

\[ y = \frac{PL^3}{1.44 \times 10^7} \]