45 Degree Light Extrusion

EX-82

- 5/16" Slot Size
- Weight/Ft = 1.02 lbs.
- Est. Area = .85 Sq. In.
- Finish = Clear Anodized
- Material = 6105-T5 Aluminum
- 96", 192.63" Standard Lengths

Section Properties:

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>0.1872</th>
<th>0.1854</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.2035</td>
<td>0.1817</td>
</tr>
</tbody>
</table>

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

\[
y = \frac{PL^3}{3.595 \times 10^8}
\]
45 Degree Light Extrusion

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

$$y = \frac{PL^3}{2.010 \times 10^8}$$

Load at center

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

$$y = \frac{PL^3}{1.989 \times 10^8}$$

Load at end