SteelBuilt Curtainwall Infinity™ System

The SteelBuilt Curtainwall Infinity™ System can use as a back mullion almost any type of custom steel member. This allows architects and designers to use larger areas of glass, smaller frame profiles and greater free spans than are possible with traditional aluminum curtain wall assemblies. The design flexibility allows curtain walls to be incorporated into a nearly limitless range of building types, designs, and performance requirements.

FEATURES

• Almost any type of custom steel member can be used for a back mullion - such as stainless steel, box, I-beams and T-shapes

• Offers all the advantage of steel: larger free spans, narrower sight lines and improved thermal performance

• Narrow sight line of 1-3/4” (45 mm) for interior use only, or 2-3/8” (60 mm)

• Variety of system depths

• Infill options up to 2”

• Painted finishes in standard and custom choices

• Silicone compatible glazing materials for long-lasting seals

• Shear block fabrication method

• Compatible with SteelBuilt Window & Door® Systems

OPTIONAL FEATURES

• Structural silicone is available in 2 or 4 sided applications for a smooth monolithic appearance (see SteelBuilt Curtainwall Infinity™ SSG System data sheet)

• Stainless steel cover caps

• Custom extruded aluminum cover caps

TESTING

Frame tests performed in accordance with:

- AAMA 501.1 Dynamic Water Penetration
- ASTM E283 Air Performance
- ASTM E330 Structural Performance
- ASTM E331 Static Water Penetration

BIM 3D Model Available

tgpamerica.com 800.426.0279
# STEELBUILT CURTAINWALL® VS. TYPICAL ALUMINUM CURTAIN WALL

<table>
<thead>
<tr>
<th></th>
<th>ALUMINUM CURTAIN WALL</th>
<th>STEELBUILT CURTAINWALL® SYSTEMS</th>
<th>STEELBUILT CURTAINWALL INFINITY™ SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPAN</strong></td>
<td>12'-6&quot;</td>
<td>14'-0&quot;</td>
<td>21'-5&quot;</td>
</tr>
<tr>
<td><strong>FACE WIDTH</strong></td>
<td>2-1/2&quot;</td>
<td>2-3/8&quot;</td>
<td>2-3/8&quot;</td>
</tr>
<tr>
<td><strong>MULLION DEPTH</strong></td>
<td>5&quot;</td>
<td>5-3/8&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td><strong>OVERALL SYSTEM DEPTH</strong></td>
<td>7-1/2&quot;</td>
<td>7-3/8&quot;</td>
<td>7-1/2&quot;</td>
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<tr>
<td><strong>DURABILITY</strong></td>
<td>Prone to denting, scratching and deterioration</td>
<td>Long term resistance to denting, scratching and deterioration</td>
<td>Long term resistance to denting, scratching and deterioration</td>
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<tr>
<td><strong>MODULUS OF ELASTICITY</strong></td>
<td>1/3 that of steel. Does not support large lites</td>
<td>3x greater than aluminum to support larger glass lites</td>
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<tr>
<td><strong>ADVANTAGES/ DISADVANTAGES</strong></td>
<td>- Cannot support large glass lites without reinforcing</td>
<td>+ Greater modulus of elasticity to support larger glass lites</td>
<td>+ Greater modulus of elasticity to support larger glass lites</td>
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<tr>
<td></td>
<td>- Not as durable as steel</td>
<td>+ Less reinforcement required (if any)</td>
<td>+ Less reinforcement required (if any)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+ Durability</td>
<td>+ Durability</td>
</tr>
</tbody>
</table>
PERIMETER FRAMING SYSTEM

STEELBUILT CURTAINWALL INFINITY™ SYSTEM

I-BEAM OPTION

STEELBUILT CURTAINWALL INFINITY™ SYSTEM

TUBE PROFILE OPTION

STEELBUILT CURTAINWALL INFINITY™ SYSTEM

T-PROFILE OPTION

STEELBUILT CURTAINWALL INFINITY™ SYSTEM

TR-PROFILE OPTION

VARIES
2-3/8" - 15-3/4"
(60 - 400mm)

VARIES
1/8" - 2-3/8"
(3 - 60mm)

VARIES
2" - 39-3/8"
(50 - 100mm)

VARIES
1/8" - 1-1/8"
(3 - 30mm)

VARIES
2" - 39-3/8"
(50 - 100mm)

VARIES
1/8" - 1-1/8"
(3 - 30mm)

VARIES
2-3/8" - 7-7/8"
(60 - 200mm)

VARIES
1/8" - 1-1/8"
(3 - 30mm)

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