Advanced Thermal Curtain Wall System with Polyamide Pressure Plates

Energy Saving Curtain Wall with Extra Thermal Performance

The YCW 750 XTP not only provides the best-in-class performance with YKK AP’s MegaTherm® structural polyamide struts, but adds another thermal barrier which increases this curtain wall’s thermal performance. The PVC perimeter filler better maintains the thermal performance over traditional aluminum fillers. With the addition of a low conductivity pressure plate made from an industry proven material, Polyamide 6/6, this system exceeds not only current codes, but also the most stringent green building codes and standards that are currently in the market.

Product Options & Features

- Three MegaTherm® strut widths allow glazing infills of 1” and up to 2-1/4”
- Integrates with the YCW 750 XT and our ThermaShade® and Luminance® sun control
- Optional integral thermally broken sill flashing
- Dual Thermal Barriers minimizes Heat Transfer to the interior space

**U-Factor** Values as low as 0.19*
**CRF** Minimum 81 frame & 68 glass

*Based on AAMA 507. Lower values may be achieved through further simulation.
### SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>System Sightline</th>
<th>Base Depth</th>
<th>Glazing &amp; Config</th>
<th>Glass</th>
<th>Air Infiltration</th>
<th>Water Infiltration</th>
<th>Acoustical Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1/2&quot;</td>
<td>7-1/2&quot;</td>
<td>Outside &amp; Front Set</td>
<td>1&quot; IGU with Low-E (C.O.G. U-factor: 0.29)</td>
<td>0.06 CFM/FT² (1.10 m³/h·m²) @ 6.24 PSF (299 Pa)</td>
<td>Static: 15 PSF (718 Pa) Dynamic: 15 PSF (718 Pa)</td>
<td>Std STC: 32 Std OITC: 27 Lam STC: 35 Lam OITC: 30</td>
</tr>
</tbody>
</table>

**Testing Standards**
- ASTM E 283
- ASTM E 331 & AAMA 501
- ASTM E 90 & 1425

**Optional Depths for Glazing**
- 1" Glass - 6" to 9" 1-1/2" Glass - 6-1/2" to 9-1/2" 1-3/4" Glass - 6-3/4" to 9-3/4" 2" Glass - 7" to 10"

**Available Finishes**
- Factory Anodized (AAMA 612) and Organic Paints (AAMA 2604 & AAMA 2605)

#### Thermal Performance

<table>
<thead>
<tr>
<th>1&quot; IGU with LowE</th>
<th>BTU/hr·ft²·°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.O.G. U-factor</td>
<td>0.32 0.30 0.28 0.26 0.24 0.22</td>
</tr>
<tr>
<td>2-1/2&quot; x 7-1/2&quot;</td>
<td>0.39 0.38 0.36 0.34 0.32 0.30</td>
</tr>
<tr>
<td>C.O.G. U-factor</td>
<td>0.20 0.18 0.16 0.14 0.12 0.10</td>
</tr>
<tr>
<td>2-1/2&quot; x 7-1/2&quot;</td>
<td>0.30 0.26 0.25 0.23 0.21 0.19</td>
</tr>
</tbody>
</table>

**Testing Standards**
- NFRC 100
- AAMA 1503

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**Zoom Mullion View**

- **DUAL THERMAL BARRIER AND PLATE** - Polyamide struts (6/6 with glass fibers on all three axes) and thermal isolator
- **WARMER INTERIOR SURFACES** - Greater occupant comfort and increased resistance to condensation, with CRF, values up to 82
- **INTEGRATED STRUCTURAL SUPPORT** - Carry dead load of the insulating glass, diverting load away from polyamide struts

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To help keep inside temperatures constant, YKK AP designed a low conductivity pressure plate to reduce heat transfer. These Polyamide 6/6 pressure plates are a superior option compared to handling alternative fiberglass products. Adding these pressure plates results in at least 20% better thermal performance versus the standard YCW 750.

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**YCW 750 OG**

Frame temperature comparison values based on 0° exterior, and 70° interior air temperatures.

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Additional information including CAD details, CSI specifications, Test Reports, Fenestration Product Rating Certificates and Installation instructions are available online at: [www.ykkap.com/commercial/product/curtain-walls/ycw-750-xtp/](http://www.ykkap.com/commercial/product/curtain-walls/ycw-750-xtp/)