



# > YCW 750 XT

High Performance Curtain Wall  
Featuring Dual Thermal Barriers



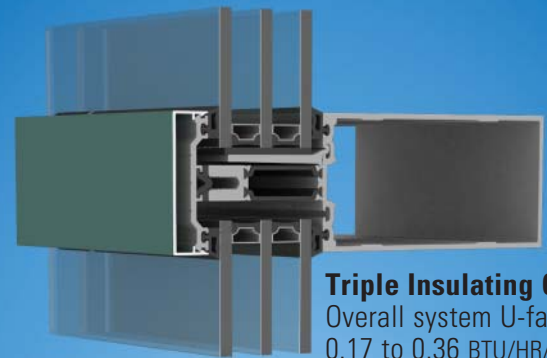
## Energy Saving Curtain Wall with Multiple Glazing Options

YCW 750 XT yields best-in-class thermal performance and exceeds not only current codes, but also exceeds the most stringent green building codes and standards in the market today. This 2-1/2" sightline outside glazed curtain wall system utilizes MegaTherm® technology with structural polyamide struts (in 3 widths) that accommodate standard 1" glazing units as well as advanced glazing options such as triple glazing and suspended film technology.

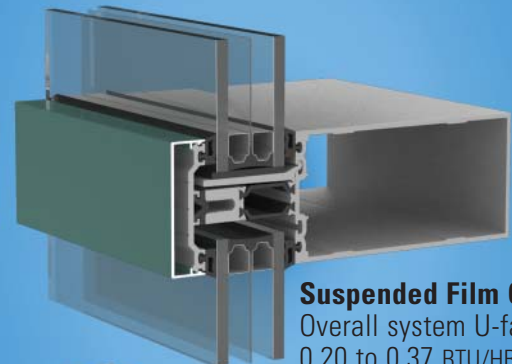
To ensure long-term structural integrity, the dead load of the insulating glass rests on integrated structural supports, diverting this load away from the thermal barriers.

## Product Benefits/Performance

- Outstanding Thermal Performance – three MegaTherm strut widths allow Glazing infills of 1", 1-1/2", and 2" and overall U-factors as low as 0.17
- Warmer interior surfaces – Increased resistance to condensation, with a CRF, up to 82
- Optional integral sill flashing
- Ability to integrate with building's air-vapor barrier
- Water (ASTM E 331): 15 PSF
- STC (ASTM E 90): 1" IG; 32, 1" Laminated; 35
- OITC (ASTM E 1425): 1" IG; 27, 1" Laminated; 30
- Integrates with sun control products ThermaShade® and Luminance®



**Triple Insulating Glass**  
Overall system U-factor:  
0.17 to 0.36 BTU/HR/FT<sup>2</sup>/°F



**Suspended Film Glazing**  
Overall system U-factor:  
0.20 to 0.37 BTU/HR/FT<sup>2</sup>/°F



**Standard 1" Glazing**  
Overall system U-factor:  
0.30 to 0.53 BTU/HR/FT<sup>2</sup>/°F

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## Specifications

**Deflection:** Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.

- a. For spans less than 13'-6" (4.1m): L/175 or 3/4" (19.1mm) maximum.
- b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).

**Thermal Movement:** Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance.

**Air Infiltration:** Completed curtain wall systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).

**Water Infiltration:** No uncontrolled water on indoor face of any component when tested in accordance with:

- a. ASTM E 331 at a static pressure of 15 PSF (718 Pa).
- b. AAMA 501.1 at a dynamic pressure of 15 PSF (718 Pa).

**Thermal Performance:** When tested in accordance with AAMA 1503.1 and NFRC 102 based on 1" clear high performance insulating glass, 1/4" Clear (E=0.040 #2), 1/2" Air Space, 1/4" Clear, having a center of glass U-factor of 0.29 BTU/HR/FT<sup>2</sup>/°F.

Note to Specifier: The U-factor and CRF for the glazed system as a whole will be affected by the characteristics of the glass specified.

- a. Thermal Transmittance U-factor: 0.37 BTU/HR/FT<sup>2</sup>/°F or less.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 78.

Complete CSI Specifications available at [www.ykkap.com/productmaster](http://www.ykkap.com/productmaster)

## Thermal Imaging

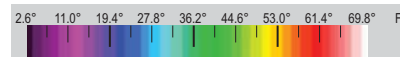
Frame temperature comparison values based on 0° exterior, and 70° interior air temperatures.



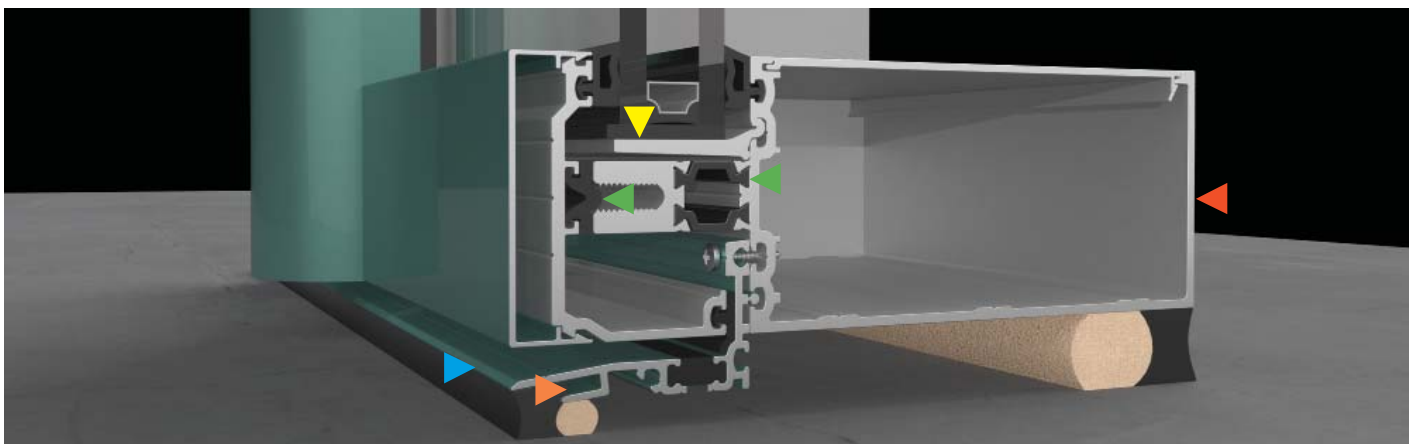
YCW 750 OG

YCW 750 XT

Temperature Scale



- ▼ **DUAL THERMAL BARRIER** - 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<sub>f</sub> values up to 82
- ▼ **INTEGRATED STRUCTURAL SUPPORT** - Carry dead load of the insulating glass, diverting load away from polyamide struts
- ▼ **OPTIONAL INTEGRAL SILL FLASHING** - Diverts internally drained water away from adjacent building components at sill
- ▼ **OPTIONAL BREAK METAL INTERFACE** - Allows flashing to extend further from the building at the sill



Additional product information including CAD details, CSI formatted specifications, and installation instructions are available online at [ykkap.com](http://ykkap.com) under the Products category. Please contact your local branch office if you do not have internet access.