

YKK AP

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 enerGfacade®
YKK AP Energy Saving Solutions



North Dakota State Wallman Wellness Center - Fargo, ND

YCW 750 XTP

Advanced Thermal Performing,
Outside Glazed Curtain Wall System
with Polyamide Pressure Plates

The **YCW 750 XTP** not only provides the best-in-class performance with our MegaTherm® structural polyamide struts, but adds a PVC perimeter filler for more performance, over any 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.

- Three different MegaTherm® strut widths allow glazing infills of 1" up to 2-1/4"
- Dual thermal barriers with a polyamide pressure plate minimizes heat transfer
- Integrates with other curtain walls, particularly the YCW 750 XT and also our ThermaShade® and Luminance® sun control
- Optional intergral thermally broken sill flashing available with brake metal

Configuration:

Glazing	Glass Setting	Installation
Outside	Front Set	Shear Block

Thermal Values:

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

*Based on NFRC 100. Lower values may be achieved through further simulation.

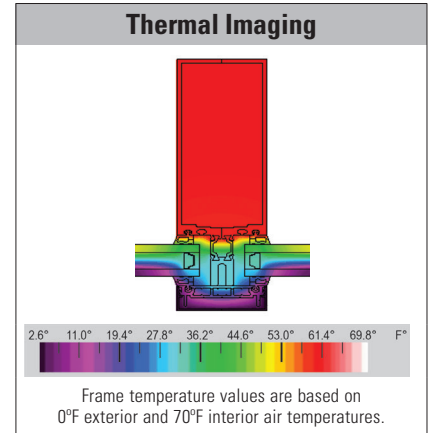


YCW 750 XTP SPECS		
Base Depth	7-1/2"	
Sightline	2-1/2"	
Config	Outside Glazed / Front Set	
Tested Glass	1" IGU with Low-E (C.O.G. U-Factor: 0.29)	
Test	Results	Standards
Air Infiltration	0.06 CFM/FT ² (1.10 m ³ /h·m ²) @ 6.24 PSF (299 Pa)	ASTM E 283
Water Infiltration	Static: 15 PSF (718 Pa) Dynamic: 15 PSF (718 Pa)	ASTM E 331 AAMA 501
Acoustical (1" IGU)	Standard STC: 32 Standard OITC: 27	ASTM E 90 ASTM E 1425
	Laminated STC: 35 Laminated OITC: 30	

Thermal Performance								
Mullion Depth	U-Factor - BTU/hr·ft ² ·°F						CRF	
2-1/2" x 7-1/2" (1" IGU)	0.39	0.38	0.36	0.34	0.33	0.31	81	68
Center of Glass	0.32	0.30	0.28	0.26	0.24	0.22		
2-1/2" x 7-1/2" (Cont'd)	0.30	0.26	0.25	0.23	0.21	0.19	Frame	Glass
Center of Glass	0.20	0.18	0.16	0.14	0.12	0.10		
NFRC 100							AAMA 1503	

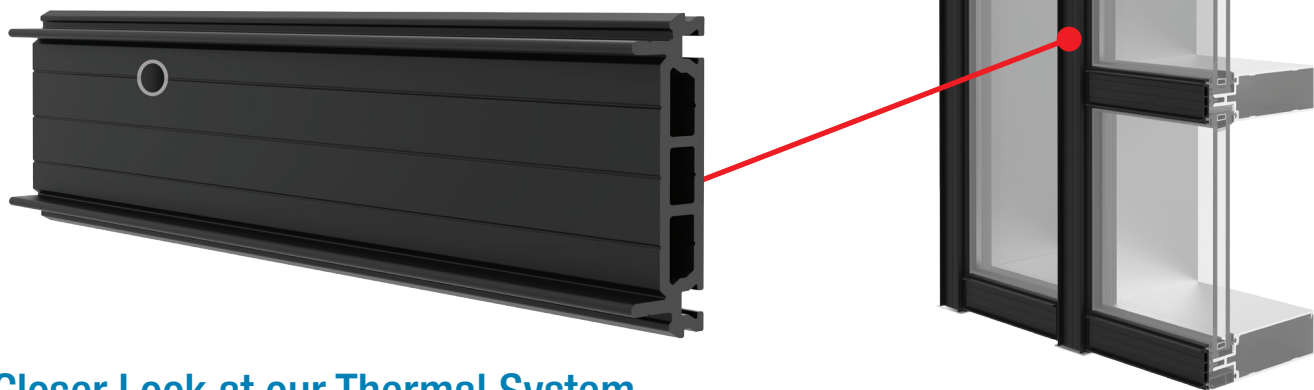
Finish Options	
Type	Standard
Factory Anodized	AAMA 612
Organic Paints	AAMA 2604 AAMA 2605

Mullion Depth Options	
with 1" Glass	with 1-1/2" Glass
6", 7-1/2", 9"	6-1/2", 8", 9-1/2"
with 1-3/4" Glass	with 2" Glass
6-3/4", 8-1/4", 9-3/4"	7", 8-1/2", 10"

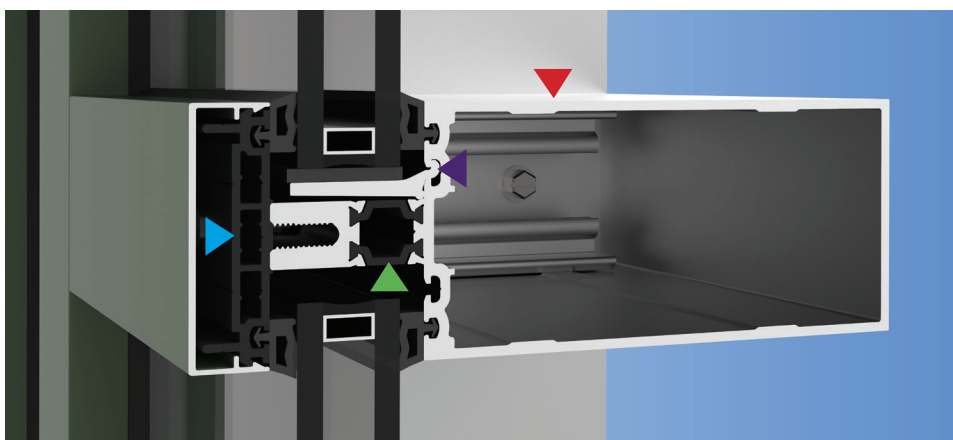


Polyamide Pressure Plates

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 alternative fiberglass products. Adding these pressure plates results in at least 20% better thermal performance versus the standard plate.



A Closer Look at our Thermal System



- ▼ **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
- ▼ **INTEGRATED STRUCTURAL SUPPORT**
 Carry dead load of the insulating glass, diverting load away from struts
- ▼ **PRESSURE PLATE**
 Polyamide plate replaces the standard aluminum plate for better performance

Additional information including CAD details, CSI specs, test reports and installation instructions are found on the Product Guide by clicking this link or visiting www.ykkap.com/commercial/productguide