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Waterbury State Office Complex - Waterbury, VT

YOW 350 XT

High Performance, Thermally Broken Operable Window for Insulating Glass

The **YOW 350 XT** windows maximize energy performance while using standard 1", low E insulating glass. This factory glazed window system has an overall depth of 3-1/2" and is thermally broken by a combination of innovative MegaTherm® Thermal breaks and gaskets designed with multiple air chambers for exceptional thermal insulation. This innovative design improves occupant comfort and condensation resistance by warming interior framing temperatures significantly over traditional windows used in cold climates.

- Up to 30% greater energy efficiency than traditional thermally broken windows
- Fixed, Casement Out and Project Out options
- Standard Heavy Duty Hardware options
- MegaTherm® - Thermally Broken Technology with Polyamide 6/6 Isobars
- Full assortment of receptors, sill flashing, stacking mullions, panning, & accessories
- AW Performance Grade 80 for Operable and AW Performance Grade 100 for Fixed

Thermal Values:

	Fixed	Operable
U-Factor:	Values as low as 0.27* and 0.31*	
CRF:	Minimum 75 _{frame} and 64 _{glass}	

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



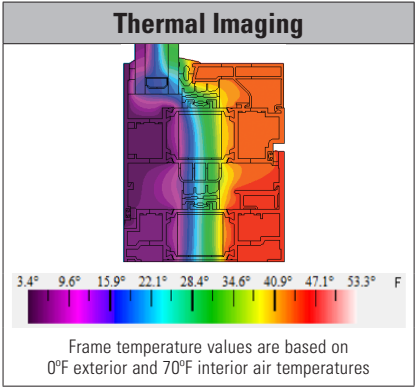
YOW 350 XT SPECS		
Base Depth	3-1/2"	
Sightline	2-3/16" Fixed & 3-1/2" Operable	
Config	Fixed, Casement Out & Project Out	
Tested Glass	1" IGU with Low-E (C.O.G. U-Factor: 0.29)	
Test	Results	Standards
Air Infiltration	0.10 CFM/FT ² (1.83 m ³ /h·m ²) @ 6.24 PSF (299 Pa)	ASTM E 283
Water Infiltration	Static Operable: 15 PSF (718 Pa) Static Fixed: 15 PSF (718 Pa)	ASTM E 331 ASTM E 547
Acoustical (1" IGU)	Operable STC: 32 Operable OITC: 26	ASTM E 90 ASTM E 1425
	Fixed STC: 32 Fixed OITC: 26	

Thermal Performance								
Window Config	U-Factor - BTU/hr·ft ² ·°F						CRF	
Fixed	0.34	0.33	0.31	0.30	0.28	0.27	77	68
Project Outswing	0.36	0.35	0.34	0.33	0.32	0.31	76	64
Casement Outswing	0.36	0.35	0.34	0.33	0.32	0.31	75	64
Center of Glass	0.30	0.28	0.26	0.24	0.22	0.20	Frame	Glass
AAMA 507							AAMA 1503	

Please inquire about 1-3/4" glazing options for enhanced thermal performance.

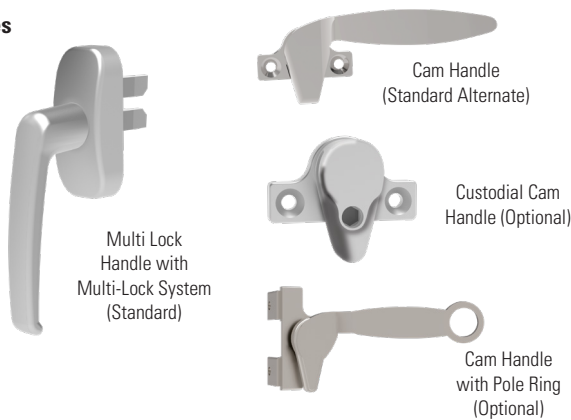
Finish Options	
Type	Standard
Factory Anodized	AAMA 612
Organic Paints	AAMA 2604 AAMA 2605

Structural Performance
AAMA/WDMA/CSA 101/I.S. 2/A 440-11
Operable: AW Performance Grade 80
Fixed: AW Performance Grade 100



Hardware

Handles



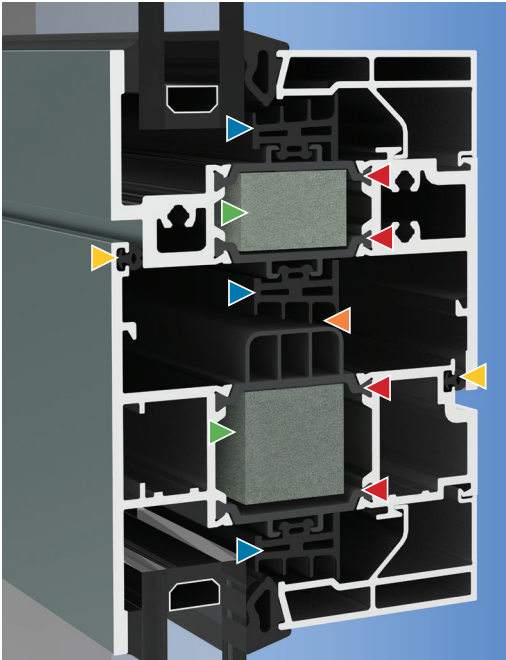
Hinges



More hardware options may be available. Please ask your local branch or rep for more information.

Zoom Mullion View

- Constructed of Polyamide 6/6 with 25% glass fibers, YKK AP's MegaTherm® technology delivers high-end thermal and structural durability performance. Its composition delivers a highly effective thermal barrier more than 500 times less conductive than aluminum. Crimped between two aluminum extrusions after the finishing, Megatherm® allows for different interior colors than exterior.
- Foam polymer inserts improve U-factor, Condensation Resistance and sound deadening.
- Cavity gasket reduces air infiltration and improves U-factor and condensation resistance.
- Triple hollow strut incorporates air baffles to break the convection of energy between the operable and fixed sash, yielding a warmer interior metal surface temperature. Which improves performance.
- Air tight gasket Insulates the cavities between framing and in the glazing pockets to minimize heat flow when in the closed position and improves U-factor condensation resistance and comfort.



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