YOW 225 TUH

Thermally Broken, Impact and Blast Resistant Operable Window

ProTek

YKK AP Hurricane & Blast Solutions

Optimal Performance and Protection

The performance boosting YOW 225 TUH windows now feature expanded installation options to help increase school security over the standard safety glazing methods. Product specifications for YOW 225 TUH include openings to 7'-9" tall singles and doubles, or continuous window runs with stacking mullions. For larger openings, the operating windows can be installed in YKK AP impact rated store front and curtain wall systems. the most cost effective and weather resistant configuration is a double casement in a master frame featuring a reduced sight line and no secondary penetrations of mullions or sill starter.

Product Options & Features

- Configs: Casement Out, Project Out and Fixed
- Meets IBC requirements for all wind zones
- Florida Product Approvals 16312, 16313, 16314 HVHZ and Wind Zone 3 (WZ 3)
- Factory glazing and Screens
- Heavy Duty Hardware Standard
- Multi-Point Hardware Standard on Casements
- Large Missle: .090" PVB Small Missile: .060" PVB

U-Factor **Values as low as 0.32***

CRF **Minimum 48**frame **& 59**glass

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

YKK AP Quality inspires®

YOW 225 TUH

SYSTEM SPECIFICATIONS

Base Depth	Glazing & Config	Glass	Air Infiltration	Water Infiltration	Acoustical Performance
2-1/4"	Laminated & Casement Out, Project Out or Fixed	1-1/16" Lam. IGU with Low-E (C.O.G. U-factor: 0.29)	0.04 CFM/FT² (0.07 m³/h·m²)	**Static Operable:** 12 PSF (575 Pa) **Static Fixed:** 15 PSF (718 Pa)	**Operable STC:** 34 **Operable OITC:** 27
					Fixed STC: 32 **Fixed OITC:** 27
Testing Standards			TAS 202 & ASTM E 283	ASTM E 331 & AAMA 501	ASTM E 90 & 1332
Product Testing			Large & Small Missle, IBC WZ 3 & 4, HVHZ, AW-65 Operable, AW-100 Fixed, ASTM 1886/1996, TAS 201 & 203		
Available Finishes			Factory Anodized (AAMA 612) and Organic Paints (AAMA 2605)		

Thermal Performance						
1" IGU						**BTU/hr•ft2•°F**
C.O.G U-Factor	0.30	0.28	0.26	0.24	0.22	0.20
Fixed	0.40	0.38	0.37	0.35	0.34	0.32
Project Out	0.53	0.52	0.51	0.50	0.49	0.48
Casement Out	0.52	0.51	0.50	0.49	0.48	0.47
Testing Standards	AAMA 507					

CRF	
Frame	**Glass**
57	63
52	59
48	59
AAMA 1503	

The YOW 225 TUH is thermally broken with Thermabond Plus® technology developed by YKK AP. Optional Frame Multi-Point Locking System offers greater ease of operation and egress, eliminating difficult-to-reach cam handles on larger units. Receptor and sill starter system speeds installation from the exterior or interior while improving reliability of water and seismic performance. Other approved anchoring options include Through Frame, Trim & Clip, Edge Clip & Strap Anchor.

	Casement Hardware Options	Max. Vent Size	Max. Design Pressure	Wind Zone
Lock Options	Cam Handles	36" x 60"	+/- 65 psf	4 - HVHZ
	Multi-Point Lock	36" x 60"	+/- 65 psf	4 - HVHZ
	Frame Multi-Point Lock	42" x 72"	+/- 80 psf	4 - HVHZ
	Frame Multi-Point Lock	48" x 72"	+/- 65 psf	2 and 3
Hinge Options	Butt Hinge	42" x 72"	+/- 80 psf	4 - HVHZ
	16" 4-Bar Hinge	36" x 60"	+/- 65 psf	4 - HVHZ
	12" 4-Bar Hinge	36" x 72"	+/- 80 psf	4 - HVHZ

WINDOW HARDWARE

Cam Handle (Standard)

Multi Point Handle

Roto Operator Crank Handle - Project

Roto Operator Crank Handle - Casement

Roto Operator - Project

Roto Operator - Casement

Lee High School - Jacksonville, FL

Additional information including CAD details, CSI specifications, Test Reports and Installation instructions are available online at:
www.ykkap.com/commercial/product/architectural-windows/yow-225-tuh/

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