

YKK aP

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ProTek
YKK AP Hurricane & Blast Solutions



North Charleston Public Works Building - Charleston, SC

YHS 50 TU

Thermally Broken, Impact Resistant and Blast Mitigating Storefront

The **YHS 50 TU** is a high performance storefront system designed for insulating glass 1" to 1-5/16" thick. With varied infill and components, YHS 50 TU can meet the requirements for Impact Resistance and/or Blast Mitigation. This system is thermally broken by ThermaBond Plus® technology and easily integrates with H and HL Series entrances with medium/wide stiles.

- **Hurricane Impact** - Large & Small Missile
- Wind Zone 3 & FPA/Florida HVHZ
- Approved for Missile Level E
- **Blast Mitigation** - Static and Dynamic Analysis capability to meet DoD, GSA and VA standards
- A Pre-Glazed option along with Field
- Design Pressures up to 70 psf
- Engineered corners reduce job time
- Sill Flashing with 3pt attachment, no blind seals and taller back leg for better water resistance

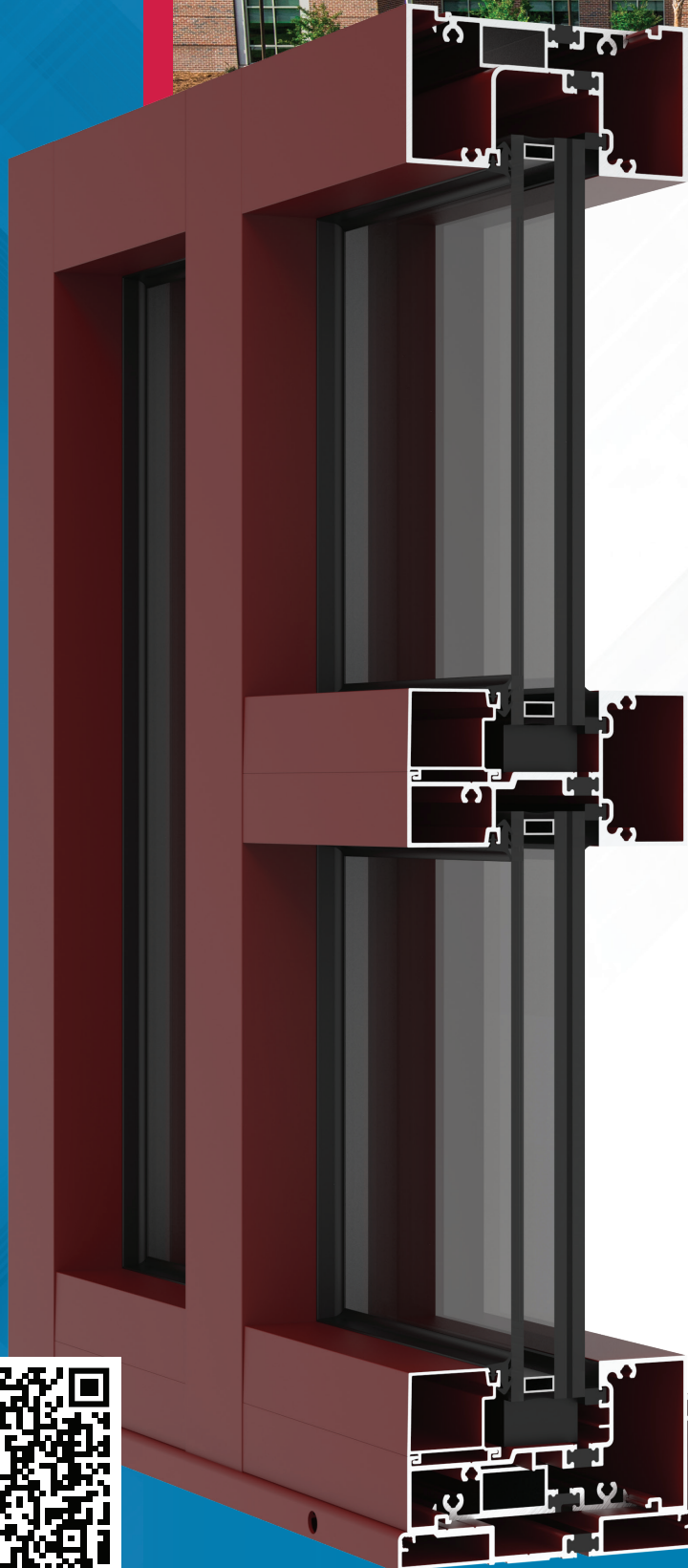
Configuration:

Glazing	Glass Setting	Installation
Outside & Inside	Center Set	Screw Spline

Thermal Values:

U-Factor:	Values as low as 0.34*
CRF:	Minimum 57 frame and 65 glass

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



YHS 50 TU SPECS			
Base Depth	5"		
Sightline	2-1/2" (Field), 2-3/4" (Pre-Glazed)		
Config	Inside (Dry), Outside (Wet/Dry) / Center Set		
Tested Glass	1-5/16" Laminating 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	(Field) Static: 12 PSF (575 Pa)	(Pre-Glazed) Static: 15 PSF (718 Pa)	ASTM E 331
	(Field) Lam STC: 39 Lam OITC: 33	(Pre-Glazed) Lam STC: 40 Lam OITC: 33	
Acoustical (1-1/4" IGU)	ASTM E 90 ASTM E 1425		

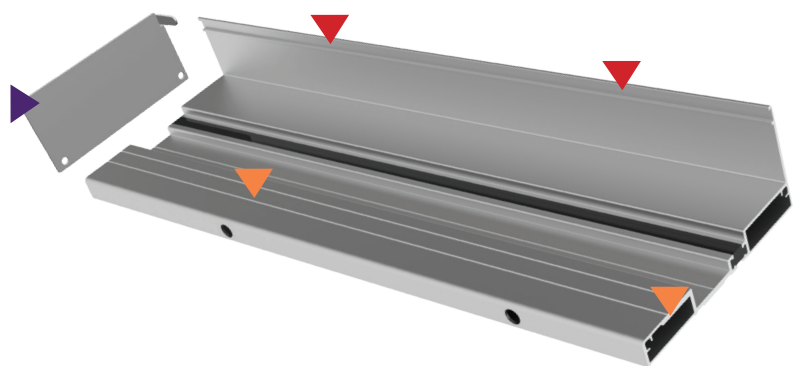
Thermal Performance									
Mullion Depth	U-Factor - BTU/hr·ft ² ·°F						CRF		
1-5/16" Laminated IGU - Field Glazed									
2-1/2" x 5" Large Missile	0.46	0.44	0.43	0.41	0.40	0.38	59	78	
2-1/2" x 5" Small Missile	0.46	0.44	0.42	0.41	0.39	0.38	57	78	
1-5/16" Laminated IGU - Pre-Glazed									
2-1/2" x 5"	0.42	0.41	0.39	0.37	0.36	0.34	61	65	
Center of Glass	0.30	0.28	0.26	0.24	0.22	0.20	Frame	Glass	
AAMA 507							AAMA 1503		

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

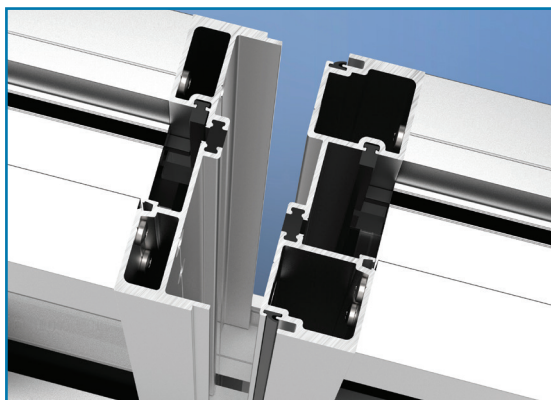
Product Approvals	
Missile Level A, D, E	Wind Zone 3
Hurricane HVHZ	International ICC
Florida FBC	Texas TDI

Sill Flashing Design

- Taller back leg on sill flashing – enhanced water resistance in the field and in water testing
- Three point attachment of end dam, with a foldable tab and two screws into flashing splines
- No blind seals eliminates secondary penetration of sill and flashing when properly sealed



Pre-Glazed Option



- Inside Glazed (Dry) and Outside Glazed (Wet/Dry) configurations
- Saves time on the job site and less materials in the field
- 4'w x 10'h panel spans to 70 PSF with no mullion reinforcement
- Florida Product Approval for Missile Level A, D and E
- New Intermediate Mullions eliminates need for panel interlocking
- Double laminate glass option for higher acoustical performance (STC: 43 OITC: 35)

Storefront Impact Comparison

System	.060 SentryGlass 50 PSF	Design Pressure			144" Span	108" to 120" Spans	Impact Testing	
		50 PSF	65-70 PSF	90 PSF			Missile A & D	Risk Category IV Essential Facilities
YHS 50 FS								
YHS 50 FI								
YHS 50 TU								

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