

# YHS 50 FS/FI

Impact Resistant and Blast Mitigating Storefront Systems

ProTek



YKK AP Hurricane & Blast Solutions

## Product Description

The YHS 50 FS and FI are high performance storefront systems designed for monolithic glazing (FS) or for insulating glass (FI) 1" to 1-5/16" thick. With varied infill and components, the YHS 50 can meet the demanding requirements of both Impact Resistance and Blast Mitigation. The system integrates with ThermaShade and Luminance sun control products, YKK AP vents and the H and HL Series entrances. The entrances feature a wide variety of tested and approved hinging and locking hardware, including rim panic and concealed vertical rod exit devices.

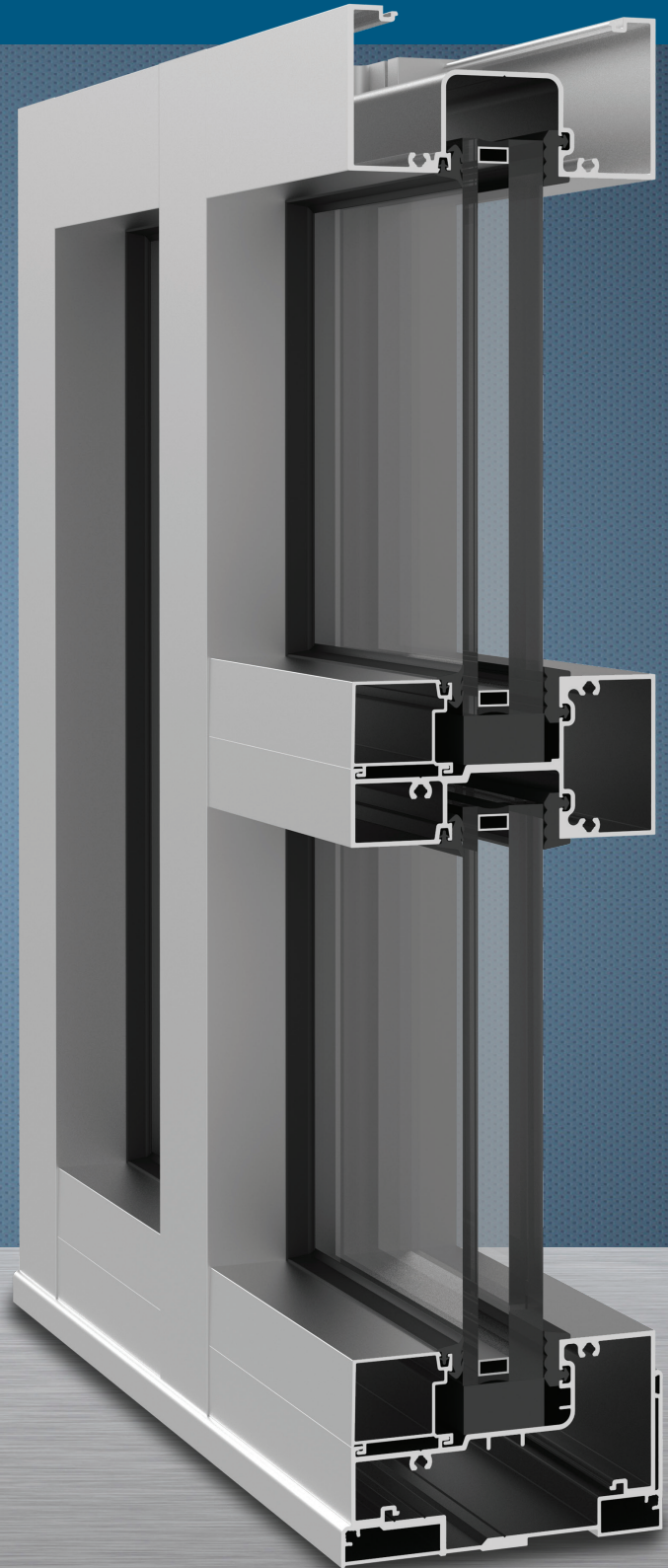
## Product Options & Features

- **Hurricane Impact** - Large and Small Missile
  - ◆ IBC and Florida Product Approval
  - ◆ Wind Zone 3 & Florida High Velocity Hurricane Zone
  - ◆ Approved for Missile Level E - Essential Facilities
- **Blast Mitigation** - Static and Dynamic Analysis capability to meet DoD, GSA and VA standards
- Spans to 144"; accommodates glass sizes to 50SF
- Design Pressures up to 90 psf
- Engineered corners reduce job time
- Inside or outside glazing available



YKK  
ap

Quality  
inspires®



# YHS 50 FS/FI

## SYSTEM SPECIFICATIONS

YHS 50 FI Tests

System Sightline	Base Depth	Glazing & Config	Glass	Air Infiltration	Water Infiltration	Thermal Performance	Acoustical Performance
2-1/2"	5"	Inside or Outside & Center Set	1-5/16" Laminated Insulating	0.06 CFM/FT <sup>2</sup> (1.10 m <sup>3</sup> /h-m <sup>2</sup> ) @ 6.24 PSF (299 Pa)	Static: 12 PSF (575 Pa) Dynamic: 12 PSF (575 Pa)	U-factor: 0.49 BTU/HR•FT <sup>2</sup> •°F* CRF: Minimum of 35 on frame**	Lam STC: 39 Lam OITC: 34
Testing Standards				ASTM E 283	ASTM E 331 & AAMA 501	* NFRC 100 & ** AAMA 1503	ASTM E 90 & 1425

## Available Finishes

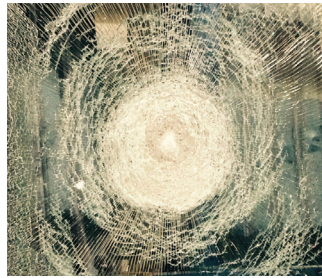
Factory Anodized (AAMA 612) and Organic Paints (AAMA 2605)

## MISSILE TESTING

### MISSILE D



### MISSILE E

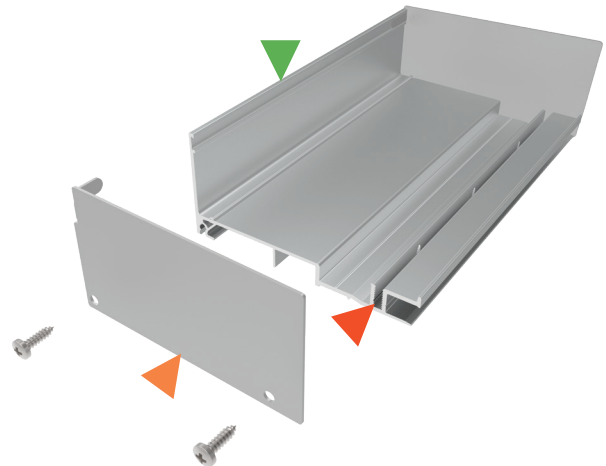


Building codes now call for Missile E protection for essential facilities (Risk Category 4) when the wind speed is 150 mph or greater. Missile E systems must withstand more than twice the impact energy compared to Missile D

- **Low pressure options** – fewer parts and anchors for lower installed cost
- **Taller spans & higher design pressures** – less cost compared to curtain wall
- **Inside Glazing** – lower cost in above grade applications; solves rough terrain and difficult street access issues
- **Large Missile E** – greater protection for essential facilities such as hospitals, police stations and shelters

## INDUSTRY-LEADING SILL FLASHING

- ▶ **Taller back leg** - Enhanced water resistance (12 psf) in the field and in testing
- ▶ **Patented 3 Point End Dam Attachment** - Greater protection against handling damage and building settling
- ▶ **No blind seals** - Eliminates secondary penetration of the sill flashing



YHS SYSTEM	.060 SentryGlass 50 PSF	DESIGN PRESSURE			144" SPAN	108" to 120" SPAN	OUTSIDE GLAZE	IMPACT	INSIDE GLAZE	IMPACT
		50	65-70	90				MISSILES A & D		ESSENTIAL FACILITIES
YHS 50 FS										
YHS 50 FI										
YHS 50 TU										

Additional information including CAD details, CSI specifications, Test Reports and Installation instructions are available online at:

[www.ykkap.com/commercial/product/storefronts/yhs-50-fs/](http://www.ykkap.com/commercial/product/storefronts/yhs-50-fs/) [www.ykkap.com/commercial/product/storefronts/yhs-50-fi/](http://www.ykkap.com/commercial/product/storefronts/yhs-50-fi/)