

# YKK ap

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Three Taverns Imaginarium - Atlanta, GA

## YES 45 TU Front

Thermally Broken and Front Set  
Storefront System

The **YES 45 TU Front** was designed for excellent thermal performance with standard Low-E insulating glass. Hinged mullions coupled with 90° or 135° inside/outside corners allow creative freedom when curves and angles are part of the design. The glass is set to the front to maximize energy performance and blend with the aesthetics of a curtain wall.

- Outside, Inside and SSG Glazing options
- ThermaBond Plus® pour and de-bridged break for better thermal performance
- High Performance Sill Flashing
  - ◆ No blind seals
  - ◆ Tall back leg for enhanced water resistance
  - ◆ Patented 3-point attachment of end dam
- Stick built assembly with concealed fasteners by Screw Spline or Shear Block
- Integrates with our YKK AP Entrances and Sun Control Systems

### Configuration:

Glazing	Glass Setting	Installation
Outside, Inside and SSG	Front Set	Screw Spline or Shear Block

### Thermal Values:

<b>U-Factor:</b>	Values as low as <b>0.32*</b>
<b>CRF:</b>	Minimum <b>68</b> <sub>frame</sub> and <b>64</b> <sub>glass</sub>

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



## YES 45 TU FRONT SPECS

<b>Base Depth</b>	4-1/2"	
<b>Sightline</b>	2"	
<b>Config</b>	Outside, Inside & SSG Glazed / Front Set	
<b>Tested Glass</b>	1" IGU with Low-E (C.O.G. U-Factor: 0.29)	
<b>Test</b>	<b>Results</b>	<b>Standards</b>
<b>Air Infiltration</b>	0.06 CFM/FT <sup>2</sup> (1.10 m <sup>3</sup> /h·m <sup>2</sup> ) @ 6.24 PSF (299 Pa)	ASTM E 283
<b>Water Infiltration</b>	<b>Static:</b> 12 PSF (575 Pa)	ASTM E 331 AAMA 501
<b>Acoustical</b> (1" IGU)	<b>Standard STC:</b> 32 <b>Standard OITC:</b> 27	ASTM E 90 ASTM E 1425
	<b>Laminated STC:</b> 36 <b>Laminated OITC:</b> 30	

## Thermal Performance

Mullion Depth (1" IGU)	U-Factor - BTU/hr·ft <sup>2</sup> ·°F						CRF	
2" x 4-1/2"	0.40	0.38	0.37	0.35	0.33	0.32	68	64
<b>Center of Glass</b>	<b>0.30</b>	<b>0.28</b>	<b>0.26</b>	<b>0.24</b>	<b>0.22</b>	<b>0.20</b>	<b>Frame</b>	<b>Glass</b>
AAMA 507 & NFRC 100							AAMA 1503	

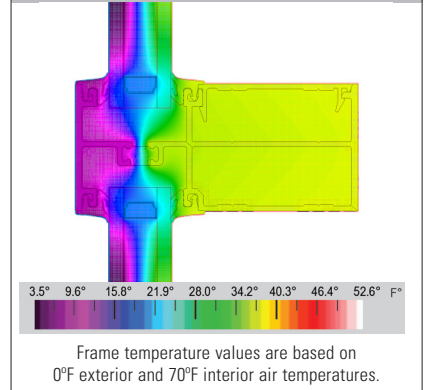
## Finish Options

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

## Various System Options

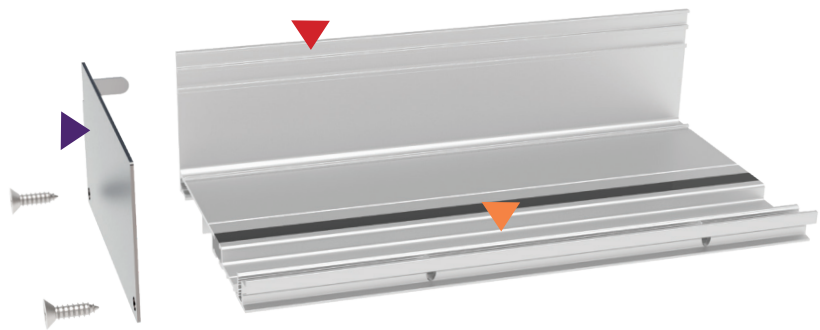
Expansion Mullions, 90° Inside and Outside Corners, 135° Inside and Outside Corners

## Thermal Imaging

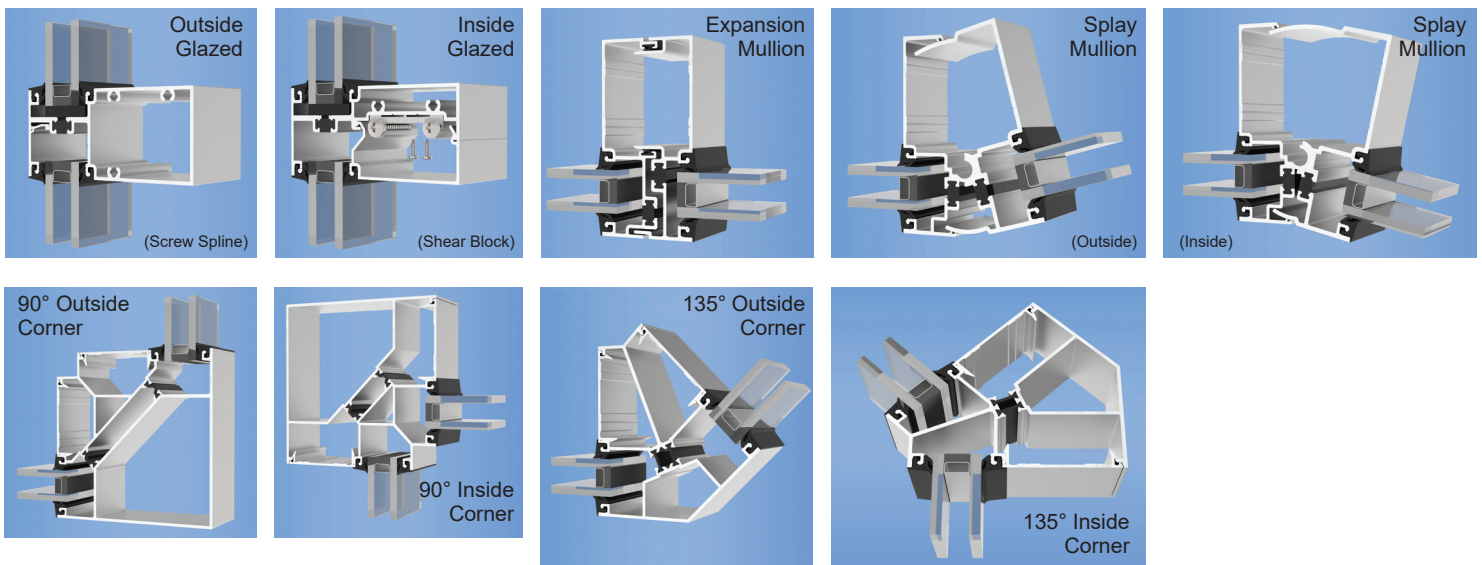


## Sill Flashing Design

- ▶ 2" 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 sill anchoring required if end reaction is less than 500 lbs
- No secondary penetration of sill and flashing when properly sealed



## Configuration Examples



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](http://www.ykkap.com/commercial/productguide)