

YKK AP

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Oakmont Bakery - Oakmont, PA

YES 45 TU

Thermally Broken and Center Set Storefront System

The **YES 45 TU** is a thermally broken, center set storefront system for insulating glass. The system is thermally broken by means of a poured and de-bridged pocket that employs an internal process, ThermoBond Plus®, to greatly improve adhesion and resolves the problem of adhesion and resulting dry shrinkage associated with typical poured and de-bridged systems.

- Outside and Inside Glazing options
- XT filler options to achieve even 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 or Inside	Center Set	Screw Spline or Shear Block

Thermal Values:

U-Factor:	Values as low as 0.32*
CRF:	Minimum 57 frame and 62 glass

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



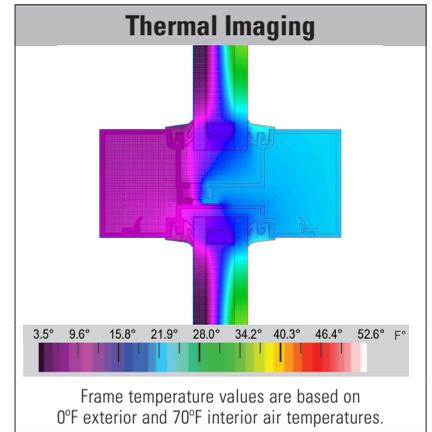
YES 45 TU SPECS		
Base Depth	4-1/2"	
Sightline	2"	
Config	Outside & Inside Glazed / Center Set	
Tested Glass	1" IGU with Low-E (C.O.G. U-Factor: 0.29)	
Test	Results	Standards
Air Infiltration	0.06 CFM/FT ² (1.10 m ³ /h·m ²) @ 6.24 PSF (299 Pa)	ASTM E 283
Water Infiltration	Static: 12 PSF (575 Pa)	ASTM E 331 AAMA 501
Acoustical (1" IGU)	Standard STC: 32 Standard OITC: 26	ASTM E 90 ASTM E 1425
	Laminated STC: 36 Laminated OITC: 30	

Thermal Performance								
Mullion Depth (1" IGU)	U-Factor - BTU/hr·ft ² ·°F						CRF	
2" x 4-1/2"	0.43	0.42	0.40	0.39	0.37	0.35	57	62
2" x 4-1/2" (XT Filler)	0.40	0.38	0.36	0.35	0.33	0.32	Not Tested	
Center of Glass	0.30	0.28	0.26	0.24	0.22	0.20	Frame	Glass
AAMA 507 & NFRC 100							AAMA 1503	

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

Various System Options

10" High Sill Covers, XT Fillers, Extended Face Covers, Expansion Mullions, 90° Inside and Outside Corners, 135° Outside Corner



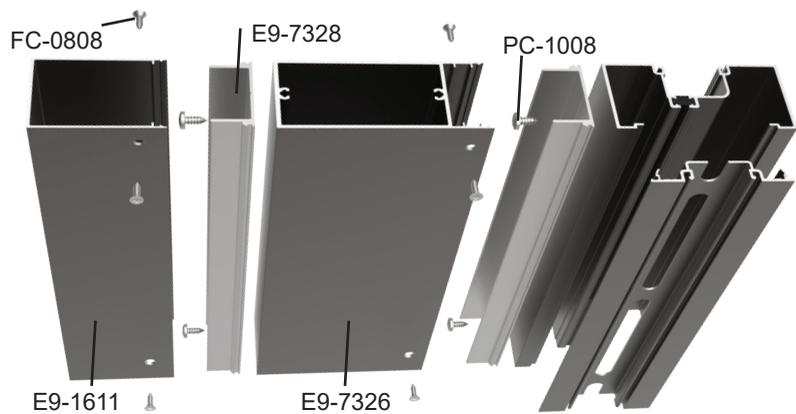
Sill Flashing Design

- ▶ 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



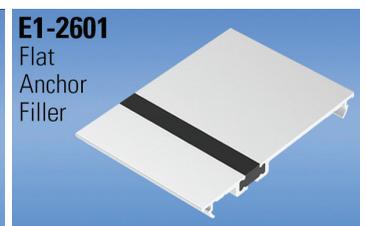
Extended Face Covers

Depending on your project specs, an option to add extended face covers may be available. E9-1611 is a 3" extended cover and E9-7326 is a 5" cover. You can also compound them while using two cover bases to get a combined 8" total cover. Contact your local rep or engineering center for more information.



XT Filler Options

Need a push in thermal performance, but no budget for an entire thermal system upgrade to the YES 45 XT? Upgrade the fillers on the verticals, jambs and heads to XT fillers, which have a pour and de-bridged setup can help you reach energy goals.



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