



# > YES 45 FI

## Center Set Storefront System

### SYSTEM DESCRIPTION:

YES 45 FI (2" x 4-1/2") is a center set, flush glazed framing system developed for 1" insulating glass and other types of infill panels of varying thicknesses. YES 45 FI will accommodate YKK AP's patented hinged mullion (USP4934115), as well as our flexible mullion; these mullions allow more creative freedom where curves and angles become a functional part of the design.

### OPTIONS & FEATURES:

- Outside or Inside Glazed
- Screw Spline and Shear Block Assembly
- Gasket With Stretch-Resistant Cord
- Integral Entrance Door Frames
- Enhanced Water Infiltration Resistance
- Model 20D/35D/50D Single Doors  
up to 4'-0" x 8'-0"
- Model 20D/35D/50D Pairs  
up to 8'-0" x 8'-0"



\*Monolithic glass option shown, insulating option similar.

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## Center Set Storefront System Specifications

### 1.01 SUMMARY

- A. Section Includes: Aluminum Storefront Systems
  - 1. YKK AP Series YES 45 FI Storefront System (Monolithic Glazing)
- B. Related Sections:
  - 1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
  - 2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.

### 1.02 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
  - 1. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
    - a. Exterior Walls:
      - 1) Positive Pressure:
      - 2) Negative Pressure:
    - b. Interior Walls (Pressure Acting in Either Direction):
  - 2. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures L/175 or 3/4" (19.1mm) maximum.
  - 3. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
  - 4. Air Infiltration: When tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa), completed storefront systems shall have maximum allowable infiltration of: 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h-m<sup>2</sup>)
  - 5. Water Infiltration: No uncontrolled water other than condensation on indoor face of any component when tested in accordance with ASTM E 331 at test pressure differential of: 10 PSF (479 Pa)

### 2.01 MANUFACTURERS

- A. Acceptable Manufacturers: YKK AP America Inc.
  - 1. Storefront System: YKK AP YES 45 FI Storefront System.
- B. Storefront Framing System:
  - 1. Description: Center rabbet, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery.
  - 2. Components: Manufacturer's standard extruded aluminum expansion mullions, 0–15 degree hinged mullions, 90 degree corner posts, flexible corner posts, three way corner post, 93–170 degree flexible corner posts, entrance door framing, and indicated shapes.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
  - 2. Sealant: Non-skinning type, AAMA 803.3
  - 3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

### 2.06 FINISHES

- A. Anodic Coating: Electrolytic color coating followed by an organic seal applied in accordance with the requirements of AAMA 612.
- B. High Performance Organic Coating Finish: Type Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.

For additional information on architectural aluminum products offered by YKK AP America Inc. visit our web site at [www.ykkap.com](http://www.ykkap.com).