

SYSTEM DESCRIPTION:

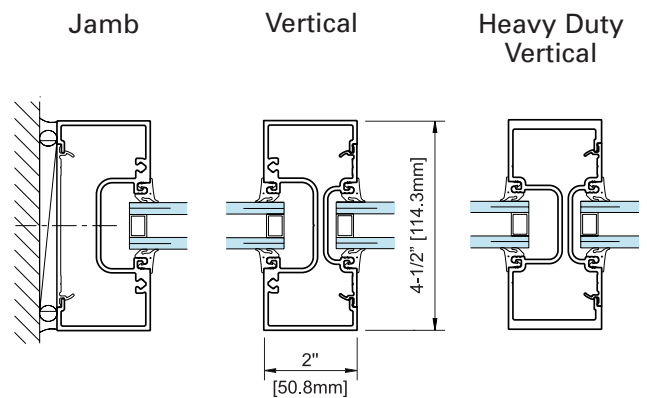
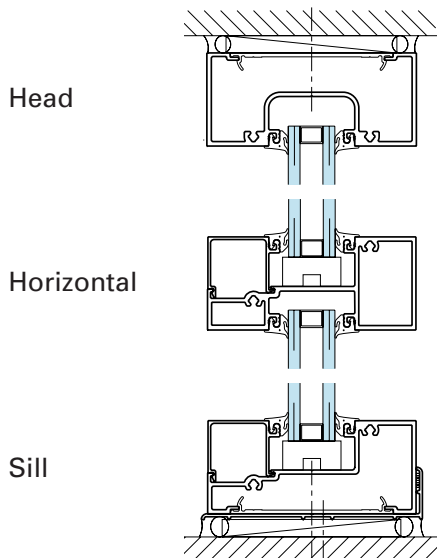
YES 40 FS (1-3/4" x 4") & YES 45 FS (1-3/4" x 4-1/2") are center set, flush glazed framing systems designed primarily for 1/4" glass or infill panels 1/4" to 3/8" thick. YES 40 FI (2" x 4") and YES 45 FI (2" x 4-1/2") are center set, flush glazed framing system developed for 1" insulated glass and other types of infill panels of varying thicknesses. Both systems 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 Glazed
- Screw Spline or Shear Block Assembly
- Gasket With Stretch-Resistant Cord
- Integral Entrance Door Frames
- Enhanced Water Infiltration Resistance



*Monolithic glass option shown, insulated option similar.



*Insulated glass option shown, monolithic option similar.

For additional information on architectural aluminum products offered by YKK AP America Inc. visit our web site at www.ykkap.com.

YES 40 & 45 FS/FI PRODUCT DATA

1.01 SUMMARY

- A. Section Includes: Aluminum Storefront Systems
 1. YKK AP Series YES 40 and 45 FS Storefront System (Monolithic Glazing)
 2. YKK AP Series YES 40 and 45 FI Storefront System (Insulated 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 330-90 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 283-91 at differential static pressure of 6.24 PSF (299 Pa), completed storefront systems shall have maximum allowable infiltration of:
 - a. 0.02 CFM/FT² (0.37 m³/h·m²) for YES 40 FS/FI and YES 45 FS systems.
 - b. 0.01 CFM/FT² (0.19 m³/h·m²) for YES 45 FI systems.
 5. Water Infiltration: No uncontrolled water other than condensation on indoor face of any component when tested in accordance with ASTM E 331-93 at test pressure differential of:
 - a. 10 PSF (479 Pa) for YES 40 FS/FI and YES 45 FS systems.
 - b. 15 PSF (718 Pa) for YES 45 FI systems.

2.01 MANUFACTURERS

- A. Acceptable Manufacturers: YKK AP America Inc.
 1. Storefront System: YKK AP YES 40 and 45 FS Storefront System.
 2. Storefront System: YKK AP YES 40 and 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 612-02.
- B. High Performance Organic Coating Finish: Type Factory applied two-coat 70% Kynar resin by Auto Chem or 70% Hylar resin by Ausimont, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.