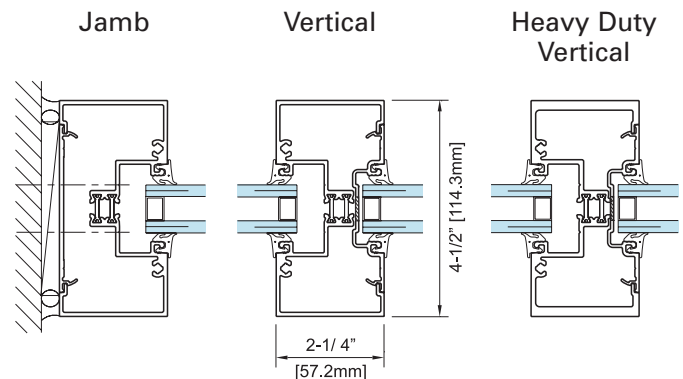
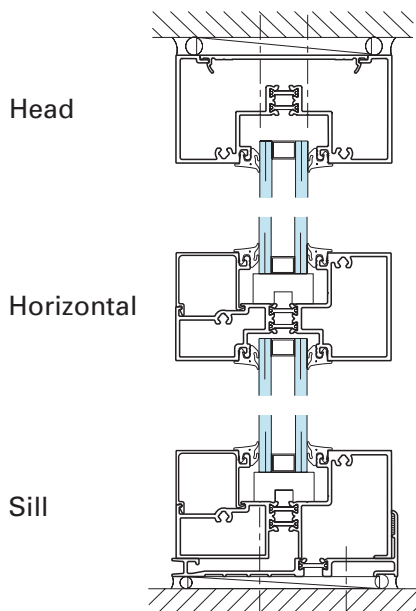


SYSTEM DESCRIPTION:

YES 45 FT is a thermally broken, center set, flush glazed storefront system for insulated glass. The system is thermally broken by YKK AP MegaTherm® technology, which provides a continuous thermal barrier while conserving energy and reducing condensation. MegaTherm® technology incorporates 6/6 nylon polyamide glass-fiber reinforced pressure extruded bars that will not crack, shrink, or degrade.

OPTIONS & FEATURES:

- 2-1/4" Face by 4-1/2" Overall Depth
- Outside Glazed
- Glazing of 1/4" up to 1" Infills
- Screw Spline or Shear Block Assembly
- Gasket With Stretch-Resistant Cord
- YKK AP MegaTherm® Thermal Break
- Separate Interior/Exterior Finish Options



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

YES 45 FT PRODUCT DATA

1.01 SUMMARY

- A. Section Includes: Aluminum Storefront Systems
 1. YKK AP Series YES 45 FT MegaTherm® Storefront System.
- 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 AAMA 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: Completed storefront systems shall have 0.01 CFM/FT² (0.018 m³/h·m²) maximum allowable infiltration when tested in accordance with ASTM E 283-91 at differential static pressure of 6.24 PSF (299 Pa).
 5. Water Infiltration: No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331-93 at a static pressure of 15 PSF (718 Pa).
 6. Thermal Performance: When tested in accordance with AAMA 1503.1-88 and ASTM C 236-89:
 - a. Condensation Resistance Factor (CRF): A minimum of 60.
 - b. Thermal Transmittance U Value: 0.46 BTU/HR/FT²/°F or less.

Note: The CRF for the glazed system as a whole will be affected by the characteristics of the glass specified.

2.01 MANUFACTURERS

- A. Acceptable Manufacturers: YKK AP America Inc.
 1. Storefront System: YKK AP YES 45 FT MegaTherm® Storefront System.
- B. Storefront Framing System:
 1. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery.
 2. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
 3. Thermal Barrier: Provide continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non structural thermal barriers are not acceptable.

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.