> YWW 45 FS

High Performance/Flush Glazed Window Wall System

DESCRIPTION:

The YWW 45 FS system is designed specifically to meet the performance requirements of window walls for multi-story buildings. Glass is set to the front of the system, and may be glazed from either the interior of the building for labor savings or from the exterior at column line applications. The system may be installed with head and sill members running continuously or with the head and sill members cut in between the vertical members. Sill flashing is only required when the head and sill members are cut in between the verticals; in addition, sill members are anchored without penetrating the sill flashing.

OPTIONS & FEATURES:

- 1-3/4" Face by 4-1/2"Overall Depth
- Screw Spline or Shear Block Construction
- Optional Structural Silicone Glazed Intermediate Vertical
- Optional Strap & Roll-over Anchors Available for Precast Conditions

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High Performance/Flush Glazed Window Wall System Specifications

1.01 SUMMARY

A. Section includes: Aluminum Window Wall Systems
   1. YKK AP Series YWW 45 FS Aluminum Window Wall 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 PERFORMANCE DESCRIPTION

A. Performance Requirements: Provide aluminum window systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
   1. Wind Loads: Completed window 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.
      a. For spans less than 13'-6" (4.1m): L/175 or 3/4" (19.1mm) maximum. .
      b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).
   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 window systems shall have 0.06 CFM/FT2 (1.10 m3/h·m2) maximum allowable infiltration when tested in accordance with ASTM E 283 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 at a static pressure of 12.0 PSF (575 Pa).

2.01 MANUFACTURERS

A. Acceptable Manufacturers: YKK AP America Inc.
   1. Window Framing System: YKK AP YWW 45 FS Aluminum Window Wall System.
B. Window Framing System:
   1. Description: Offset flush glazed; jambs and vertical mullions run through, head and sill members attached by screw spline method; or continuous head and sill members with intermediate horizontals attached by shear blocks.
   2. Components: Manufacturer's standard extruded aluminum mullions, hinged mullions, 90 degree corner posts, 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: Factory applied two-coat 70% Kynar resin by Auto Chem or 70% Hylar resin by Solvay 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.