



# > YSD 400

## Heavy Duty Sliding Door

### SYSTEM DESCRIPTION:

YSD 400 is a heavy duty sliding door system designed to comply with higher structural loads while maintaining a pleasing appearance. The sliding doors are completely manufactured by YKK AP and shipped knocked-down for field assembly to reduce shipping cost. Operable and side-lite panels are factory glazed for easy installation. Standard heavy duty hardware and stainless steel tandem rollers are supplied to provide years of worry-free operation.

### OPTIONS & FEATURES:

- AAMA/WDMA 101/I.S. 2-97
- Available configurations: OX, XO, XX, OXO, & OXXO
- AAMA/WDMA HC-60 Rated
- 4-1/16" frame depth
- Accepts 1" insulating glass
- Factory glazing & screens
- High sills & head/jamb receptors
- Standard heavy-duty hardware, including stainless steel tandem rollers & track cover for years of worry-free operation



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## Heavy Duty Sliding Door Specifications

### 1.01 SUMMARY

- A. Section includes: Aluminum Sliding Doors, including:
  - 1. YKK AP Series YSD 400 Sliding Doors.
- B. Related Sections:
  - 1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.

### 1.02 TEST AND PERFORMANCE REQUIREMENTS

- A. All test unit sizes and configurations shall conform to the minimum sizes in accordance with AAMA 101/I.S./NAFS-02, with a performance class of AW, performance grade 60. Sliding doors shall also comply with the following specific performance requirements indicated.
  - 1. Air Infiltration: Completed sliding doors shall have 0.30 CFM/FT<sup>2</sup> maximum allowable infiltration when tested in accordance with ASTM E 283 at a differential static pressure of 6.24 psf (299 Pa).
  - 2. Water Infiltration: There shall be no uncontrolled water leakage when tested in accordance with ASTM E 331 at a static pressure of 9 psf (431 Pa) for standard sill frames and 15 psf (718 Pa) for high sill frames.
  - 3. Uniform Load Structural: There shall be no damage to fasteners, hardware, accessories, or any other damage that would render the sliding door inoperable when tested in accordance with ASTM E 330 at a differential static pressure of 90.0 psf positive and negative.
  - 4. Forced Entry Resistance: Sliding doors shall meet all test requirements of AAMA 1303.5.
  - 5. Deglazing: Sliding doors shall meet all test requirements of ASTM E 987 and NAFS (5.3.6.2).
  - 6. Thermal Performance: When tested in accordance with NFRC 102:
    - a. Thermal Transmittance U Value: 0.59 BTU/HR/FT<sup>2</sup>/°F or less.
  - 8. Acoustical Performance: When tested in accordance with ASTM E 90 and ASTM E 1332, the Sound Transmission Class (STC), and Outdoor-Indoor Transmission Class (OITC) shall not be less than 33 STC and 30 OITC.
  - 9. Life Cycle Testing: When tested in accordance with AAMA 910, there shall be no damage to fasteners, hardware parts, or any other damage that would cause the specimen to be inoperable. Resistance to air leakage and water penetration resistance test results shall not exceed the gateway performance.

Note: Performance based on lab testing and will vary by configuration and glass type; contact YKK AP engineering for job specific analysis at higher performance levels.

### 2.01 MANUFACTURERS (Acceptable Manufacturers/Products)

- A. Acceptable Manufacturers: YKK AP America Inc.  
7680 The Bluffs, Suite 100  
Austell, GA 30168  
Telephone: (678) 838-6000; Fax: (678) 838-6001
  - 1. AAMA Designation: AW-60.
  - 2. Description: YKK YSD 400 Series Heavy Duty Sliding Doors shall be extruded aluminum with overall frame depth 4-1/16" (103mm) not including receptors or heavy interlock stiles; Double screw butt type frame and panel construction; Factory assembled.
  - 3. Configuration: The sliding doors shall be OX, XX, XO, OXO, or OXXO.
  - 4. Glazing: Each panel shall be channel glazed using a marine type wrap around EPDM gasket; 1" insulating units; Factory or bench glazed.

### 2.02 MATERIALS

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

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Hardware: Standard adjustable stainless steel ball bearing rollers, all steel mortise lock with laminated steel hookbolt, red oak interior pull handle on aluminum alloy and high impact thermal plastic base, and ZAMAC alloy die cast exterior pull handle.
  - 2. Fasteners: All fasteners shall be AISI 300 series (except for self-drilling, which are to be series 400) stainless steel.
  - 3. Sealant: Non-skinning type, AAMA 803.3
  - 4. Glazing: Marine type wrap around gaskets. EPDM in accordance with ASTM C864. Color Black.

### 2.05 FINISHES

- 1. Anodic Coating: Electrolytic color coating followed by an organic seal applied in accordance with the requirements of AAMA 612-02.
- 2. High Performance Organic Coating Finish: Factory applied two-coat 70% Kynar resin by Arkema 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](http://www.ykkap.com).