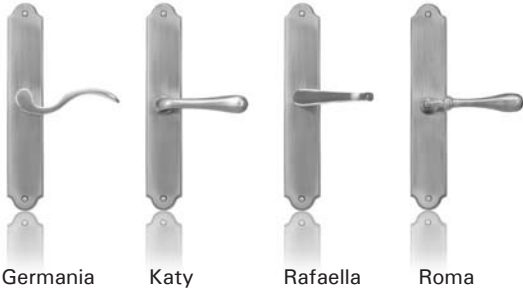


Door Handle Styles



Germania

Katy

Rafaella

Roma

> YTD 350 T

Thermally Broken Architectural Terrace Door

OPTIONS & FEATURES:

- 3-1/2" or 4-1/2" Deep High Performance Terrace Door
 - ◆ Outswing and Inswing Configurations
- Doors Shipped Completely Fabricated and Mounted in Frame to Expedite Installation
 - ◆ Single Doors up to 4'-0" x 8'-0" – Frame Size
 - ◆ Pairs up to 8'-0" x 8'-0" – Frame Size
- Thermally Broken with YKK AP's MegaTherm® Technology for Improved Energy Efficiency and Occupant Comfort
- MegaTherm Allows Specification of a Dual Exterior and Interior Finish for the System, Allowing Complete Design Flexibility to Integrate it with Adjacent Building Materials
- Tested in Accordance with AAMA/WDMA/CSA/101/I.S.2/A440-05
 - ◆ Outswing
 - AW-80 for Single Doors
 - AW-65 for Pair Doors
 - Allowable Air Infiltration: 0.10 cfm/ft²
 - Water Performance: 15 psf
 - ◆ Inswing
 - AW-40 for Single and Pair Doors
 - Allowable Air Infiltration: 0.10 cfm/ft²
 - Water Performance: 8 psf
- Can Be Provided Factory Glazed by YKK AP, or Unglazed
- Variety of Lever Handles and Finishes
- Fully Adjustable Hinges Standard for Proper Alignment and Weathertight Seal
 - ◆ Vertical Adjustment to Raise or Lower Door
 - ◆ Lateral Adjustment to Move Door Left or Right in Frame
- Multi-Point Locking System Engages Top and Bottom Rails in Addition to the Locking Stile for Added Security
- AAMA 612 Anodized Finish
- AAMA 2605 Painted Finish



> YTD 350 T

Thermally Broken Architectural Terrace Door Specifications

1.01 SUMMARY

- A. Section includes: Aluminum Doors and Frames, including:
 - 1. YKK AP Series YTD 350 T Architectural Terrace Doors.
 - 2. 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/WDMA/CSA/101 I.S.2/A440-05.
- B. Performance Requirements: Architectural terrace doors shall conform to all AAMA/WDMA/CSA/101 I.S.2/A440-05 requirements for the door type and comply with the following specific performance requirements indicated.
 - 1. Operating Force: Architectural Terrace Doors shall conform to AAMA 101 (5.3.1.2) for both Latch and Deadbolt "Force to Latch" requirements.
 - 2. Air Infiltration: Architectural terrace doors shall have 0.10 CFM/FT² maximum allowable infiltration when tested in accordance with ASTM E 283 and AAMA 101 (5.3.2) at a differential static pressure of 6.24 psf (300 Pa).
 - 3. Water Infiltration: There shall be no uncontrolled water leakage when tested in accordance with ASTM E 331, ASTM E 547 and AAMA 101 (5.3.3) at a static pressure of 15 psf (720 Pa) for out-swing, 8 psf (383 Pa) for in-swing.
 - 4. Uniform Load Deflection: There shall be no deflection of any framing member in excess of L/175 of the span when tested in accordance with ASTM E 330 and AAMA 101 (5.3.4.2) at a differential static pressure of 80.0 psf (3830 Pa) for outswing single door, 65.0 psf (3112 Pa) for outswing pair doors, 80.0 psf (3830 Pa) for inswing single door, 40.0 psf (1915 Pa) for inswing pair doors, positive and negative.
 - 5. Uniform Load Structural: When tested in accordance with ASTM E 330 and AAMA 101(5.3.4.3) there shall be no permanent deformation of any mainframe, sash, sash member, leaf, or sill in excess of 0.2% of its span at a differential static pressure of 120 psf (5745 Pa) for out-swing single door, 97.5 psf (4668 Pa) for out-swing pair doors, 120 psf (5745 Pa) for inswing single door, 60.0 psf (2872 Pa) for inswing pair doors, positive and negative. In addition, there shall be no permanent damage to fasteners, hardware parts, accessories, or any other damage, which causes the specimen to be inoperable.
 - 6. Forced Entry Resistance: Architectural terrace doors shall be tested in accordance with AAMA 1304.
 - 7a. Thermal Transmittance (U-factor) using NFRC 100: When tested in accordance with NFRC 100, the conductive thermal transmittance (U-factor) of the overall system shall be not more than 0.42 BTU/hr/SF/°F.
 - 7b. Thermal Transmittance (U-factor) using AAMA 1503: When tested in accordance with AAMA 1503, the conductive thermal transmittance (U-factor) of the overall system shall be not more than 0.45 BTU/hr/SF/°F.
 - 8a. Condensation Resistance Factor (CRF): When tested in accordance with AAMA 1503, the CRF shall not be less than 53 for the frame.
 - 8b. Condensation Resistance rating (CR): When calculated in accordance with NFRC 500, the CR shall not be less than 44.
 - 9. Solar Heat Gain Coefficient (SHGC) using NFRC 200: When tested in accordance with NFRC 200, the SHGC of the overall system shall not be more than 0.34.
 - 10. AAMA 507 Certificate of Compliance shall be submitted to show compliance with NFRC thermal transmittance performance and the solar heat gain coefficient for this product in accordance with Section 1.03.F.1 Submittals.
 - 11. 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.

2.01 MANUFACTURERS

- A. Acceptable Manufacturers: YKK AP America Inc.
- B. Aluminum Architectural Terrace Doors and Frames
 - 1. AAMA Designation:
 - Outswing - ATD AW-80 for single doors, and ATD AW-65 for pair doors.
 - Inswing - ATD AW-40 for single and pair doors.
 - 2. Description: YKK AP Series YTD 350T Thermally Broken Architectural Terrace Doors shall be extruded aluminum with an overall frame depth of 3-1/2" (88.9mm); Door Frame members shall be square cut, and notched, factory sealed and assembled, Door Panel members to be mitered cut, factory sealed, and assembled.
 - 3. Configuration: The YTD 350 T to be outswing single or pair, or inswing single or pair.
 - 4. 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 accepted.

2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5, 6063-T6 Aluminum Alloy.

2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
 - 1. Standard Entrance Hardware: Provide heavy-duty hardware units indicated in sizes, number and type recommended by manufacturer for doors indicated. Finish exposed parts to match door finish, unless otherwise indicated.
 - 2. Hinges: Provide manufacturer's standard fully adjustable hinges as specified in approved shop drawings.
 - 2. Fasteners: All fasteners to be AISI 300 series (except for self-drilling which are to be AISI 400 series) stainless steel.
 - 3. Sealant: Non-skinning type, AAMA 803.3.

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