

Auto-Seal Roller Curtain Door (WK Model# WT-R) Specifications

Part 1 – General

- 1.01 Description:** Provide roller curtain door(s) factory assembled with frame(s), tracks, wire rope, winch, and all operating components in accordance with contract specifications and approved drawings.
- 1.02 Acceptable Manufacturers:** Roller curtain door shall be as supplied by Walz & Krenzer, Inc (203-267-5712; sales@wkdoors.com).
- 1.03 Standards:** Comply with the provisions of the following (as applicable):
- A. AISC “Specifications for Design, Fabrication, and Erection of Structural Steel for Buildings”.
 - B. The Aluminum Assoc. “Aluminum Design Manual”.
 - C. FEMA Bulletin 3-93, #102 & #114.
- 1.04 Submittals:**
- A. Manufacturers Data: Submit installation and maintenance manuals for roller curtain door.
 - B. Shop Drawings: Submit shop drawings approved by licensed Professional Engineer for roller curtain door including dimensional plans, elevations, sections, details for all mountings/connections, and parts list.
 - C. Calculations (optional for critical applications): Submit calculations approved by licensed Professional Engineer verifying the roller curtain door’s ability to withstand the design pressure loading.
 - D. QA Submittals: Submit test reports showing compliance with specified performance characteristics.
- 1.05 Qualifications:** Manufacturer shall present evidence attesting to at least five years successful experience in the design and manufacture of similar closures.

Part 2 – Products

- 2.01 Product Description:** Auto-Seal Roller Curtain Door shall be Model WT-R as supplied by Walz & Krenzer, Inc.
- 2.02 Materials:**
- A. Panel: custom extruded aluminum shape.
 - B. Frame: stainless steel.
 - C. Support Chassis: ASTM A-36 steel.
 - D. Gasket: EPDM foam gasket.
 - E. Finish: extruded aluminum mill finish.

2.03 Design:

- A. Design Pressure: # (in feet of water). Specify seating (pushing gate closed) or unseating direction (pushing gate open).
- B. Roller curtain door can be used as an everyday roller curtain door.
- C. Mounting configurations: on outside face of building, inside the jambs and on the inside face of building.
- D. Bottom frame is stiffened sheet metal shape designed to be recessed into floor surface to achieve a flush bottom sill.
- E. Roller curtain door is fully motorized and actuates by pressing a button on a wired control station. Remote control actuation is also available.
- F. Gate will automatically close if a float switch detects water (can be disabled if desired).
- G. Infrared sensor provided to detect movement through door opening during lowering of door. If triggered, door will fully open and automatically close after a pre-determined period.
- H. UPS is provided for operation during power loss.
- I. Power requirements: 120 VAC, 30 A circuit.
- J. Frame(s) shall have mounting holes for expansion.

2.04 Quality Assurance:

- A. Perform shop operational test to open/close barrier.
- B. Perform shop hose leakage test.

Part 3 – Execution

3.01 Fabrication:

- A. The finished product shall be rigid, neat in appearance, and free from all defects, warps, and buckles. All exposed joints and corners shall be well rounded.
- B. The panel and frame shall be flat within 1/8" in any 6' length.
- C. All butt welds in frame to be full penetration welds.

3.02 Installation:

- A. Install roller curtain door in accordance with manufacturer's instructions and approved shop drawings.
- B. After installation, perform field operational test per manufacturer's instructions to verify seal.
- C. Finish paint (if applicable) after installation.

3.03 Warranty: Roller curtain door shall operate satisfactorily and be free of defects in material and workmanship for a period of not less than one year from the date of delivery.