

**Architectural Specifications**  
**- Rite-Hite Doors' Insul-Rite™ Insulated Sectional Door (Model 5255)-**

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**PART 1 - GENERAL**

- 1.1 CONDITIONS SPECIFIED ELSEWHERE: Section 010000 - General Requirements.
- 1.2 SUBMIT SHOP DRAWINGS showing overall dimensions (width, height).
- 1.3 SUBMIT 3 copies of manufacturer's owner's manual, maintenance manual and master service manual to the A/E.
- 1.4 WARRANTY: Proposals submitted without the following written warranties will be considered non-responsive.
  - 1.4.1 Door manufacturer shall provide with his bid a written, minimum 1-year limited warranty on parts and labor and a minimum 10-year warranty on the sections against cracking, splitting or deterioration due to rust-through. Manufacturer also warrants for 7-years against separation of polyurethane from the steel skin of the panel and 10-years on insulation value.
  - 1.4.2 Door parts not covered under the warranty shall include: NONE.
  - 1.4.3 In addition to all other warranties, the manufacturer shall warrant that the equipment will perform in a manner satisfactory to the Owner for a period of 12 months after the date of installation. If the Owner is not satisfied with the performance of the equipment, the Owner may notify the manufacturer in writing and the manufacturer shall remove the equipment and refund the equipment purchase price to the Owner. This warranty shall be provided by the manufacturer in writing at time of bid.

**PART 2 - PRODUCTS**

- 2.1 Sectional doors shall be Rite-Hite Doors Insul-Rite 5255 Sectional Door or an approved substitute. Doors shall be sized by manufacturer to meet specific applications requirements.
- 2.2 Sectional doors shall be made for up to 26'-0" wide x 20'-0" high openings.
- 2.3 Door sections shall be 2" thick with steel/polyurethane/steel sandwich type construction and a thermal break. Calculated R-value is 14.80. Tongue and groove design will provide weather tight meeting rails.
  - 2.3.1 Door's exterior skin shall be hot-dipped galvanized steel, 26 gauge with embossed stucco finish minimum embossing, factory-finished with baked-on polyester primer and white polyester finish coats with non-repeating random stucco texture and ¼" wide pinstriping.(Standard color shall be white).

**PART 2 - PRODUCTS (continued)**

- 2.3.2 Door's interior skin shall be hot-dipped, galvanized steel, factory-finished with a polyester primer and white finish coat.
- 2.3.3 Section ends shall be sealed with 18 or 16 gauge hot-dipped galvanized steel full-height end caps.
- 2.3.4 Sections shall be filled with foamed-in-place CFC-free polyurethane core separated by a factory extruded thermal break.
- 2.3.5 Insulated sections shall be tested by an I.C.B.O. certified laboratory in accordance with ASTM E-84-91A and shall achieve a Flamespread Index of 10 or less.
- 2.3.6 Insulation material shall be tested by an I.C.B.O. certified laboratory in accordance with ASTM D-1929 and shall achieve a minimum Flash Ignition temperature of 734° F, and a minimum Self Ignition temperature of 950° F.
- 2.3.7 Insulated sections shall be tested and meet all requirements of the UBC 17-5 corner burn.
- 2.3.8 Optional 1/8", 1/4" or 1/2" glazing available in 24" x 6" porthole windows or aluminum sash sections.
- 2.4 Track vertical mounting angles shall be hot-dipped galvanized steel in 2" or 3" depths.
  - 2.4.1 Vertical track shall be graduated to provide wedge type weathertight closing with continuous angle mounting, and shall be fully adjustable to seal door at jambs.
  - 2.4.2 Horizontal track shall be reinforced with continuous angle of adequate length and gauge to minimize deflection.
- 2.5 Hinges and brackets shall be made from hot-dipped, galvanized steel.
  - 2.5.1 Track rollers shall be case-hardened inner steel races with 10-ball 2" or 3" rollers.
- 2.6 Door shall utilize a low-stress, helical wound, oil-tempered torsion spring counterbalance system to provide a minimum of 10,000 cycles of use.
  - 2.6.1 Torsion spring fittings and drums shall be made of die-cast high strength aluminum and shall utilize pre-formed galvanized steel aircraft cables with a minimum of 5:1 cable safety factor.
- 2.7 Standard interior slidelock shall be provided with a hole to receive a padlock.
  - 2.7.1 Optional rim cylinder short lock bar available for use with a keyed lock.

**PART 2 - PRODUCTS (continued)**

- 2.8 Doors shall be equipped with factory-installed top seal to seal against header, co-polymer joint seals between sections, jamb-mounted aluminum extrusion with vinyl flap weatherstripping, and a vinyl bulb-shaped astragal provided on the bottom section.
- 2.9 Door shall meet or exceed 15.2 psf windload per ANSI/NAGDEM 102-1988 in accordance with ASTM E-330-70.

**PART 3 - EXECUTION**

- 3.1 INSTALLER shall examine the substrate and conditions under which door is to be installed and notify the A/E and Contractor in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
- 3.2 DOOR MANUFACTURER'S REPRESENTATIVE shall install door in accordance with approved shop drawings and manufacturer's recommendations. Location of door and hardware shall be indicated on drawings.
- 3.3 ADJUST UNITS to operate smoothly.
- 3.4 AFTER INSTALLATION is completed, a representative of the manufacturer shall examine the installation and require that all connections and adjustments necessary to assure proper operation of door has been made. Before acceptance, a demonstration shall be conducted in the presence of the Owner's representative that all doors operate properly in every aspect. In addition, a detailed user/operator training session shall be conducted at time and place agreed upon by Owner's representative.