

**SUGGESTED ARCHITECTURAL SPECIFICATION**

**Division 8**

**Part 1 - General**

**1.01 Section Includes**

- A. R-Plus Standard Lift Vertical Doors (power or manual) and accessories for complete installation.

**1.02 Related Sections**

- A. Division 16 - Electrical.

**1.03 Submittals**

- A. Product Data: Completely describing components.
- B. Shop Drawings: Showing fabrication, installation and accommodation to connecting work.
- C. Installation Instructions: For door, operator and accessories.

**1.04 Quality Assurance**

- A. Doors shall be installed in accordance with the architect's plans and specifications and door manufacturer's written instructions, drawings and recommendations.

**Part 2 - Product**

**2.01 Manufacturers**

- A. R-Plus Standard Lift Vertical Door (power or manual) operation as manufactured by Imperial Manufacturing, Inc., Portland, Oregon.
- B. Substitutions:

No substitution will be considered unless written request for approval has been submitted by the bidder and has been received by the architect at least 14 days prior to the date for receipt of bids. Each request shall include the name of materials to be substituted and a detailed description of the proposed substitute including: a list of drawings, cut sheets, mock-ups, performance & test data, projects of similar scope and photographs of existing installations, and any other information necessary for evaluation.

**2.02 Standard Lift Vertical Doors**

- A. R-Plus Standard Lift Vertical Door (power or manual).
  - 1. Door size to fit door opening as shown on architectural drawings and to conform to NSF regulations.
  - 2. Doors shall be electrically or manually operated, standard lift vertical doors. Door speed up to 18" per second (power).
  - 3. Doors to be standard lift vertical cooler or freezer doors. Door panels shall consist of four sided metal reinforced:
    - a) Galvanized or white enamel steel (stucco, 26ga. or smooth, 24ga.)  
or
    - b) Stainless steel, 22ga.  
or
    - c) Sandstone, 26ga.  
or
    - d) Aluminum, .040
  - 4. Panels from 3.5" to 5" thick to be filled with Class 1 CFC free, high density urethane foam insulation having a K factor of .12 at 75° F and R-values from 25 to 36.
  - 5. Frame and header to be exterior grade plywood as standard with 26 gauge steel covering to a finished thickness of 1 5/8".
  - 6. Gasket on sides and head of frame to be adjustable, easily replaceable and grease-resistant with neoprene bulb-type seals.
  - 7. Power drive system to be electrically operated and chain driven for smooth high speed door operation. Manual drive chain disconnect to be provided internally on door panel. Electric motor to be 3/4 hp, UL-listed, 208/230, 460 volt single or three phase
    - a) 60 cycle (standard)  
or
    - b) 50 cycle (optional).

## **2.02 Standard Lift Vertical Doors (con't)**

Electrical controls to be enclosed in:

- a) NEMA 4 rated enclosures (standard)  
or
  - b) NEMA 4X for power wash down applications (optional).
8. Door actuation to be provided by:
- a) Two single control ceiling mounted, low voltage pull cord switches.  
Or options:
  - b) Radio control actuator  
or
  - c) Motion detector system  
or
  - d) Loop detector.
9. Freezer doors to be equipped with UL approved "Anti-sweat" gasket heaters. Heater cables to have self regulating thermostat. Heat cable to be single loop, aluminum braided around all four sides of each panel.
10. Door panel to be equipped with air-activated instant reversing edge, effective entire length of bottom door panel.
11. Complete rail, track and operator assembly to be mounted and tested at factory. Complete system to be assembled and ready for connection (by others).

## **Part 3 - Execution**

### **3.01 Examination**

- A. Verify installation conditions as satisfactory to receive work of this section. Do not install until unsatisfactory conditions are corrected. Beginning work constitutes your acceptance of conditions as satisfactory.
1. Verify opening size, dimensions and tolerances.

### **3.02 Preparation**

- A. Protect surrounding areas and surfaces to prevent damage during work of this section.

### **3.03 Installation**

- A. Install the work in full accordance with manufacturer instructions. When mounting the door and track framing, the mounting surfaces shall be set true and level without distortion, shall be shimmed and caulked to assure tightness and true fitting and shall be securely lagged. Once installed, doors shall be checked for mechanical and electrical operation and tight uniform gasket sealing. Installation of pull switches, connections to power operated doors and gasket heaters are the responsibility of the electrical contractor.

### **3.04 Quality Assurance**

- A. Doors shall be guaranteed against defective materials and workmanship 5 years on panel and 2 years on parts. (FOB Imperial).

### **3.05 Product Delivery, Storage and Handling**

- A. Each cold storage door shall be securely crated to protect the door from damage during shipment and handling. Door identification numbers shall be clearly marked on the outside of each crate.

### **3.06 Cleaning and Adjustments**

- A. Clean all doors of excess sealant, grease, stains and fingerprints and construction dust prior to final inspection to the satisfaction of the architect/owner. Adjust all doors to smooth, proper operating condition including proper sealing prior to facility turnover to owner.