

Single Swing Manual Cold Storage Door

Division 13

Section 13010

Cold Storage Doors

Section 08 38 00

Part 1 - General

1.0.1 Scope

Work required under this section shall include the furnishing of all labor, materials, tools and equipment necessary to complete all work as detailed on the drawings and/or as specified herein.

1.0.2 Product

Supply, where indicated on the plans, a Frank Door Model EFD-SSB/SHS (single swing manual cold storage door). Door panel shall be constructed of an extruded polymer profile with a choice of metal skins. Door panel shall contain at least 4" of foamed-in-place polyurethane insulation (R32). Insulated wall casings and header shall be aircraft grade aluminum extrusions. Gasketing shall be panel mounted compression gasket and bottom sweep. All hardware and mechanisms shall be corrosion resistant materials. No organics such as wood or wood composites shall be used in the door panel, casings or header. Doors shall be UL listed and built to NSF standards.

1.0.3 Substitutions

This specification is written with Frank Door Company Model EFD-SSB/SHS as the basis of acceptable materials, construction and performance. No substitutions will be considered unless written request for approval is received in the architect's office at least 14 days prior to the release of the bids.

1.0.4 Submittals

In compliance with the specification requirements, submit detailed shop drawings for each door showing in clear detail all mounting requirements and accessories.

1.0.5 Quality Assurance

Doors shall be installed in accordance with the architect's plans and specifications along with the door manufacturer's written installation instructions, drawings and recommendations. Doors shall carry a 5 year limited warranty for the door panel, door frame, trim, vertical casings and header and a 2 year limited warranty on all other Frank Door Company manufactured components with the exception of typical wear components. Frank Door Company also warrants all products or component parts not manufactured by Frank Door Company to the same extent that they were warranted by the original manufacturer to the Frank Door Company.

Part 2 - Product

2.0.1 Material

Casings/Header

Extruded aluminum profiles with insulated polystyrene inserts. (Matching back up headers and casings are optional. Return jams are optional. Jamb caps are optional.) No organics such as wood or wood composites shall be accepted. All sweep bottom freezer doors shall be equipped with a heater cable in the three sided casing frames. All high sill freezer doors shall be equipped with a full perimeter heater cable in the casing frames.

Door Panel

The door panel shall be constructed of an extruded polymer profile with mitered corners and clad with two USDA approved 24 gauge steel or .040 aluminum face sheets (smooth white and stainless steel face steel face sheets are optional) to fully enclose the frame. Backup blocking is used at all hinge, latch, handle, closer and lock attachment points. The panel is foamed-in-place with at least 4" of polyurethane insulation (R32). Gasketing shall be panel mounted compression gasket and a bottom sweep. The metal panel skins are isolated by the polymer frame creating a full perimeter front to back thermal break. (Optional triple pane view window shall be sealed, heated and constructed with heat reflective tempered safety glass and metal frame. Aluminum diamond plate and stainless steel kick plates are optional). No organics such as wood or wood composites shall be used for the door panel structure or blocking. All sweep bottom freezer doors shall be equipped with a door mounted threshold heat radiating pan.

Hinges and Door Hardware

Hinges shall be cam-lift. (Bullet style, tamper resistant cam lift hinges are optional. Strap hinges are optional. Door closer is optional. Rotary compression latch is optional. Keyed lock is optional. Stainless steel hardware is optional). Latches shall be a single point latch with inside safety release and padlocking provision. All doors shall have integrated emergency release hardware on opposite side. All hardware and mechanisms shall be corrosion resistant.

Part 3 - Execution

3.0.1 Installation

Doors shall be mounted in full accord with the door manufacturer's installation instructions and contract documents. When mounting the door casings, the mounting surfaces shall be set true and level, be shimmed and caulked to assure tightness and fit, securely lagged or through bolted to the wall structure. After the doors are hung, they shall be checked for mechanical operation and adjusted to ensure a tight and uniform perimeter gasket seal. Connection of any panel or window heating is the responsibility of the electrical contractor.

3.0.2 Product Delivery, Storage and Handling

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

3.0.3 Cleaning and Adjustment

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