## SECTION 13063 - COLD STORAGE DOORS

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. Door types included in this section:

1. Infitting hinged metal clad doors.

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 13 - Section 13060 - “Manufactured Insulated Metal Panels.”

### 1.3 DEFINITIONS

A. Metal Thickness: Sheet metal thicknesses given in gauge dimensions are nominal thicknesses and subject to tolerances as defined in the ASTM standards listed for the following materials:

1. Galvanized Steel Sheet: ASTM A 525.
2. Stainless-Steel Sheet: ASTM A 480.

### 1.4 SUBMITTALS

A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

B. Product Data including manufacturer's specifications for fabrication and installation. Provide data substantiating that products comply with requirements.

C. Shop Drawings showing fabrication and installation of custom steel doors and frames work. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, location and installation requirements of frame anchorage, door and frame hardware and reinforcements, and details of joints and connections. Show anchorage and accessory items.

1. Provide a schedule of doors and frames using same reference numbers for details and openings as those on Contract Drawings.

### 1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver doors and frames palleted, wrapped, or crated to provide protection during transit and job storage.

B. Inspect doors and frames on delivery for damage. Minor damages may be repaired provided refinished items match new work and are acceptable to Owner; otherwise, remove and replace damaged items as directed.

C. Store doors and frames at building site under cover. Place units on minimum 4-inch-high wood blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber. If wrappers on doors become wet, remove cartons immediately. Provide minimum 1/4-inch spaces between stacked doors to promote air circulation.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide doors and frames by one of the following or approved equal:

1. Infitting Hinged Metal Clad:

a) Jamison Door Company or approved equal

### 2.2 MATERIALS

A. Hot-Rolled Steel Sheets and Strips: Commercial-quality carbon steel, pickled and oiled, complying with ASTM A 569, free of scale, pitting, or surface defects.

B. Cold-Rolled Steel Sheets: Commercial-quality, level, carbon steel, complying with ASTM A 366.

C. Galvanized Steel Sheets: Zinc-coated carbon-steel sheets of commercial quality, complying with ASTM A 526 and ASTM A 525 with A 60 or G 60 coating designation, mill phosphatized.

D. Stainless-Steel Sheets: Commercial-quality stainless steel, Type 302 or 304, complying with ASTM A 167.

E. Supports and Anchors: Fabricated from not less than 0.06-inch-thick steel sheet. After fabricating, galvanize units to be built into exterior walls, complying with ASTM A 153, Class B.

F. Inserts, Bolts, and Fasteners: Manufacturer's standard units. Where items are to be built into exterior walls, hot-dip galvanize complying with ASTM A 153, Class C or D as applicable.

### 2.3 INFITTING HINGED METAL CLAD DOORS

A. Doors shall be custom manufactured to the thicknesses, opening sizes, and direction of swing as called for on the drawings.

B. Door panel

1. Door panel to be clad with stucco embossed 26 gauge G-90 galvanized steel with plain finish, or factory painted, as noted on the drawings.
2. Fill with NON-CFC foam-in-place polyurethane insulation.
3. Provide steel tapping plates as reinforcement for hardware attachment.
4. Seams and fastenings to be sealed vapor tight.

C. Door Frame

1. Frames to be 5-1/4" wide, made of treated kiln dried Douglas Fir.

2. Frames to be clad similar to door panels.

D. Hardware

1. Latch to be spring activated latch or panic bar as noted in the door schedule.
2. Hinges to be self-lubricating, heavy duty hinges. See door schedule for locations where rising cam hinges are required.
3. Door closers to be provided where called for in the door schedule.
4. Hardware to be galvanized steel or stainless steel. Chrome plated hardware will not be accepted.
5. Provide safety release on doors with locking provisions.
6. Provide tamper-proof hinges on all exterior doors.

E. Gaskets

1. Provide oil resistant closed seal neoprene gaskets around perimeter of door, suitable for the service and temperatures noted on the drawings. Freezer doors require heat in perimeter gaskets.

F. Sill

1. Sill of door to be overlapping high-sill type or flush sill as indicated on the drawings.
2. Flush sill doors require sweep type sill gasket of nylon reinforced double neoprene rubber. Freezer doors require heat in bottom of door panel.

G. Defrost

1. All doors serving rooms designed to operate at $+32^{o}$ F or below shall have automatically controlled 120 volt perimeter heat cables to keep gaskets free of any frost or condensation.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

A. Frames: Install frames for doors of size and profile as indicated.

1. Install frames and accessories according to manufacturer's approved installation instructions and as specified.
2. Placing Frames: Set frames accurately in position, plumb, align, and shim as required to assure tightness, true fit and smooth operation of the door.

B. Doors: Fit doors accurately to their respective frames.

### 3.2 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items just prior to final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including doors or frames that are warped, bowed, or otherwise unacceptable.

1. Adjust doors to properly compress seals on all sides. Daylight showing through when door is closed is evidence of improper adjustment or improper installation.

B. Prime Coat Touchup: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.

C. Factory Finish Touchup: Immediately after erection, sand to feather-edge minor scratched, chipped, or damaged areas and apply touchup of compatible air-drying paint. Minor finish imperfections may be repaired provided finish matches new work finish and is acceptable to Engineer; otherwise remove and replace.

D. Stainless-Steel Touchup: Immediately after erection, smooth any abraded areas of stainless steel and polish to match undamaged finish.

END OF SECTION 13063