**DIVISION 8 SECTION 08300 COLD STORAGE DOOR SYSTEMS**

**PART 1- GENERAL**

**1.01 SECTION INCLUDES**

A. ISO-FLEX Bi-Parting Horizontal Sliding doors and accessories for complete installation.

**1.02 RELATED SECTIONS**

A. Division 16 – Electrical.

# 1.03 SUBMITTALS

1. Product Data: Completely describing components.

1. Shop Drawings: Showing details of fabrication, installation and accommodation to connecting work.

1. Installation Instructions: For door, operator and accessories.

1. Operating and Maintenance Data: For door, operator and accessories.

**1.04 QUALITY ASSURANCE**

A. Installer Qualification: Door manufacturer, or trained, approved and licensed door installer.

**PART 2 - PRODUCT**

# 2.01 MANUFACTURERS

1. Model XP 2200 ISO-FLEX Bi-Parting Horizontal Sliding Door as manufactured by ASI Doors, Inc., Milwaukee, WI.

1. 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 ten (10) days prior to the date for receipt of bids.

 Each such request shall include the name of the materials for which it is to be substituted and a complete description of the proposed substitute, including drawings, cuts, mockups, performance and test data, a list of projects of similar scope and photographs of existing installations, and any other information necessary for evaluation.

# 2.02 THERMOPLASTIC BI-PARTING HORIZONTAL SLIDING DOORS

A. Model XP 2200 ISO-FLEX Bi-Parting Horizontal Sliding Door.

* 1. Door size to fit door opening as shown on architectural drawings and to conform to APHISU.S.D.A. (M.I.D.) sanitation regulations.

* 1. Door Operation:

 2.1 Doors shall be manual operated, Thermoplastic Bi-Parting Horizontal Sliding doors.

2.2 Doors shall be high dual speed electric operated, Thermoplastic Bi-parting Horizontal Sliding doors.

1. Electro-Mechanical High Dual Speed Operator - Door speeds up to 96” / second to open; 48” / second to close.
2. DC motor with clutch-less, brakeless operation.
3. Encoded, self-calibrating limit position.
4. Remote digital display with self-diagnostics and fault indicators.
5. Electrical controls enclosed in a NEMA-4 fiberglass control box.
6. Standard motor/encoder IP65 rated. (Note: Door motors and encoders not rated to IP65 will not be accepted).
7. Torque sensing stop/reverse full height of door panels.
8. High torque synchronous drive belt.
	1. Door panels shall consist of a thermoplastic outer shell with a polyurethane perimeter panel edge, filled with a cross-linked polyethylene insulation and bonded into fully unitized panels.

* 1. Standard door construction including panels, frames and header to be free of any wood construction. (Note: Door utilizing any wood construction will not be accepted).

* 1. 4” panels to be unitized and fully insulated. Panels to meet an insulation rating of R-17. (Note: Doors must meet minimum R-Value. Panels utilizing moisture absorbent foam will not be accepted.)

* 1. Standard header to be one-piece aluminum extrusion. (Note: Metal wrapped wood will not be accepted.)

* 1. Standard rail to be self-cleaning, one-piece aluminum extrusion.

* 1. Standard track system to provide for “down” panel movement when closing.

* 1. Standard face frames to be one-piece aluminum extrusion (with built-in races for heater wire on freezer doors). Face frames to be fitted with adjustable high-density polypropylene covers. (Note: Steel wrapped wood face frames will not be accepted.)

* 1. Gasket on full perimeter of door to be grease resistant, moisture-proof, Hypalon.

* 1. Single piece roller trucks, trolleys and hardware to be heavy duty. Complete rail and truck hardware to be factory mounted on header.

* 1. Trolley wheels to be nylon with dual lubed for life ball bearing systems, allowing for smooth, quiet high-speed door operation. (Note: Doors utilizing steel roller wheels will not be accepted.)

* 1. Power drive system to be electric operated belt driven, providing smooth high-speed operation. Includes automatic limit positioning through motor shaft mounted encoder. Manual operation in the event of a power failure. Electric operation to be 115/230 volt single phase, or 460V 3 phase. (Note: Doors utilizing chain drives, separate limit switch devices will not be accepted).

* 1. Electrical controls to be enclosed in a NEMA-4 fiberglass control box. Electric motor and encoder to be IP65 rated. (Note: Door motors and encoders not rated to IP65 will not be accepted).

* 1. Instant panel reversing capability through monitoring of amp draw of motor. (Note: Doors utilizing electric or pneumatic reversing edges will not be allowed.)

* 1. Door actuation to be provided by:

 a) Two single control push buttons, or ceiling mounted, low voltage pull cord switches.

 or options:

* + 1. Radio control actuator.

* + 1. Motion or presence detector systems.

* + 1. Loop detector.

* + 1. Pre-Announce to Close Kit (Light / Alarm / Combo).

 [Note: Standard time delay close operation included.].

* 1. Freezer doors to be equipped with an integrated fully protected heat system utilizing U.L. listed components.
	2. Center door panel gaskets to be full door height and compressible to provide a tight effective seal.

* 1. Complete rail, truck and operator assembly to be mounted and tested at factory.

* 1. Complete system to be assembled and ready for installation (by others).

* 1. Operating Temperatures: Door mounted in applications below 32°F or with a Delta-T greater than 55°F, consult factory.

**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

1. Mechanically install the work in accordance with manufacturer instructions.

1. All electrical high power and low voltage wiring to be supplied, installed and connections to doors are to be by electrical contractor.

1. Wall construction (by others) to be sufficient to support the door assembly and to support the operation of the door panel.

# 3.04 WARRANTIES

A. Two year limited warranty on all components.

3.05 CLEANING

A. Leave the premises clean and free of residue of work of this section.

# END OF SECTION