

SUGGESTED ARCHTECTURAL SPECIFICATION

ISO-Clean Glider (ISOCL) SINGLE SLIDING LAMINATED FIBERGLASS DOOR SYSTEM

DIVISION 8

SECTION 08300

SPECIALTY DOOR SYSTEMS

PART 1- GENERAL

1.01 SECTION INCLUDES

- A. Single Sliding Laminated Fiberglass Door System

1.02 RELATED SECTIONS

- A. Division 16 – Electrical

1.03 SUBMITTALS

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

- A. Model ISO-Clean Glider (ISOCL) Single Sliding Laminated Fiberglass Door System manufactured by Rite-Hite Doors, Inc., Milwaukee, WI.
- B. Substitutions

No substitution will be considered unless a written request for approval has been submitted by the bidder and has been received by the architect at least ten (10) days prior to 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 or similar scope and photographs of existing installations, and any other information necessary for evaluation.

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2.02 SINGLE PIECE HORIZONTAL SLIDING CLEANROOM DOORS

- A. Model ISO-Clean Glider (ISOCL) Single Sliding Laminated Fiberglass Door System
1. Door size to fit door opening as shown on architectural drawings.
 2. Doors shall be electric power operated, Single Sliding Fiberglass Door System. Door Speed: 29"/sec. open; 11.5"/sec. close.
 3. Door panel will be 1-3/4" thick and shall consist of two rigid white fiberglass reinforced polyester resin sheets surfaced with clear polyester gel-coat and bonded to an expanded polystyrene core having a "K" factor of 0.26 at 75° F. Also, a 20 gauge, 304, #4 stainless steel edge capping will be attached on all four sides of panel for added strength and protection.
 4. Door actuation to be provided by:
 - a. Open, Close and Stop buttons integrated into standard Graphical User InterfaceOr optional:
 - b. Touchless wall mount wave sensor(s), push button station(s), motion detector(s), etc.
 5. Rail and Header assembly to be aluminum construction. Optional heavy-duty stainless steel construction available. Trolley assembly to be heavy-duty stainless steel construction. Trolley assemblies to incorporate adjustments in both the vertical and horizontal planes for optimal sealing. Entire header, rail, and operator assembly to be enclosed by an 18 gauge, 304, #4 stainless steel shroud, with a sloped top.
 6. Provide a panel guide on the trailing edge base of the opening and the leading-edge base of the opening, attached to an 11-gauge stainless steel plate mounted to the side frame. (Hardware attached to the floor will not be accepted.) This will allow the panel to hold the optimal panel seal under both positive and negative pressures.
 7. Gasket at sides, head, and sill to be gray vinyl, non-marking, blade type, capable of holding a seal under positive/negative pressures.
 8. Side frames to be two-piece stainless-steel construction, 18 gauge. When attached to the wall, bolt heads, nuts, or fastener covers will not be visible. (Frames requiring these items will not be accepted.)
 9. Hardware to include stainless steel recessed handles and stainless-steel floor hardware. Truck wheels to be nylon with factory sealed ball bearings. Complete trolley and hardware to be stainless steel.

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10. OVERALL DRIVE/CONTROL SYSTEM
 - a. CONTROL UNIT: The microprocessor-based door controller (ICOMM) and Door Commander will allow the user to set limits. The control unit uses an absolute encoder which allows limits to be saved during times of power loss. The motor, encoder, and control back panel are mounted internal to the header. The nominal supply voltage is 120VAC. The controls are operated on a class II 24VDC power supply which also provides power to activation and other devices.
 - b. DOOR COMMANDER: The Door Commander is a 10" color LCD touchscreen which is mounted near the door at user height. The Door Commander provides the ability to adjust speeds, input and output settings, limit positions, timer values etc. The Door Commander also provides remote troubleshooting, real time input and output status, cycle count, and detailed door usage insights.
 - c. REVERSING PHOTOEYE: Two photoeye sets are provided standard on all ISO-Clean Glider doors. The door controller provides a self-checking photoeye test, for both photoeyes during opening.
 - d. ELECTRONIC REVERSING: During door operation the torque output of the motor is monitored to detect an obstruction. If the door encounters an obstruction during closing, it reverses to the open position, and once the auto close timer countdown is complete the door will close. If an obstruction is detected 3 times while closing, the door will fault and display "Door Faulted – Obstruction" on the Door Commander. If the door encounters an obstruction during opening, the door stops quickly.
 - e. FAULT DIAGNOSIS: The door controller continuously monitors door operation and will display operating faults via the status messages displayed on the Door Commander. After the fault is displayed, the Door Commander offers troubleshooting assistance to help the user identify the problem and choose the best course of action.
 - f. DRIVE SYSTEM: Microprocessor controlled servo provides quiet, smooth, precise regulated motion in an integrated package. Torque is continuously monitored and analyzed to verify perimeter seal wear (Smart Seal).
 - g. SAFE ALERT SYSTEM – Displays the status of the door. The adjustable countdown timer displays numbers in white and the adjustable pre-announce timer displays the final numbers in amber. Red arrows display when the door is opening or closing.
11. In case of power loss, the door can be moved manually.
12. Window kit option will include two sheets of 3/16" thick tempered glass bonded to an internal framework and installed in the door panel to create a flush window condition on both sides of the door panel.

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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 accordance with the manufacturer instructions.

3.04 WARRANTIES

- A. Standard Warranty -
 - Two (2) Year(s) on all mechanical and electrical parts (non-prorated).
 - One (1) Year(s) labor, based on Rite-Hite approved travel and labor repair times.
 - One (1) Year(s) for motor, brake and gearbox material failure only (does not include attached connectors, wiring or mechanical items).
- B. Optional Extended Warranty
 - Three (3) Year(s) on all mechanical and electrical parts (non-prorated).
 - Two (2) Year(s) labor, based on Rite-Hite approved travel and labor repair times.
 - Two (2) Year(s) for motor, brake and gearbox material failure only (does not include attached connectors, wiring or mechanical items).

3.05 CLEANING

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

END OF SECTION