

DIVISION 8 - DOORS & WINDOWS

SECTION 08 30 00 - HIGH SPEED DOORS

PART 1 GENERAL

1.1 REQUIREMENTS

- A. Furnish all labor, materials, equipment, tools, supplies, services, all other necessary incidentals, and adequate supervision necessary to complete this Work in accordance with the referenced drawings, specifications and Bid Documents.

PART 2 PRODUCTS

2.1 MANUFACTURER AND TYPE

- A. Manufacturer: to establish a standard of quality, design and function desired.

Proprietary equipment: no proprietary equipment shall be used in the installation. All equipment included in the specialty door installation shall have repair or replacement parts readily accessible to the general specialty door trade. Without limitation, this shall include diagnostic tools and controller components required for the complete maintenance of the installed doors.

Any costs incurred for changes in the work from that show on the drawings, including work of this and other sections, due to the requirements of the particular specialty doors furnished there under are the sole responsibility of the specialty door manufacturer.

2.2 HIGH-SPEED FABRIC ROLL UP DOORS (STANDARD – RYTEC PREDADOOR NXT)

- A. Provide standard style rapid roll up doors as indicated on drawings.

Door panel: USDA / FDA compliant 2-ply rylon fabric. Fabric is smooth for easy cleaning and wash down; color to be selected by architect/owner. Full width, vision panel constructed of USDA compliant material.

Side frames: fully bolt-together anodized aluminum construction with full height weather seal to seal against panel material.

Bottom bar: break-away extruded aluminum bottom bar; to release in either direction without damage to the door. Dual cut-off switches to shut electric motor of when bottom bar is impacted. Standard pneumatic auto-reversing edge on bottom bar. No exposed junction box on bottom bar. Vinyl loop hugs contour of floor for tight seal. Bottom bar pre-assembled on door at factory.

Motor: 3 PH, variable speed AC drive to provide soft acceleration and deceleration. Independent opening and closing speeds.

Doors shall be activated by the following: (all aspects of these activators are to be furnished and installed by the door installation contractor.)

- a. Doors to be opened and closed via manual push buttons, and overhead pull chords mounted on both sides of the door. A timer sequence is to be installed to close the door at a set time.

Travel speed: open and closes at a minimum of 50 inches per second.

Electrical controls: self-diagnostic, microprocessor-based digital gateway door controller housed in NEMA rated electrical enclosure (refer to drawings for NEMA classification). Controller includes non-adjustable cycle counter with led readout. Programmable limits settings. Provide programmable proximity sensors both sides of wall. Provide push button controls both sides of walls. Control panel to be fully assembled, wired and tested at factory and installed by specialty door supplier hired electrician.

PART 3 EXECUTION

3.1 ELECTRICAL REQUIREMENTS

- A. Furnish and install a control panel at 48" AFF on center for each door. Control panel, boxes, conduit, wire, etc. shall be in accordance with the "Area Use and Electrical Classification Drawing" for all materials used. Control panel shall be UL-approved as a complete assembly and contain solid-state PLC controls. Controls shall be clearly labeled.
- B. Door limits shall be adjustable at floor level from the control panel, without the use of tools. Mechanical limit switches are not acceptable.
- C. Control panel shall include an integral rotary circuit breaker disconnect and be sole-source of power distribution and control for all door components. Control panel door accessories shall be designed to be fed with 480V/3Ph/60Hz power only.
- D. Building Electrician will provide/terminate 480V/3Ph power (single-feed) at door control panel. This subcontractor is responsible for all power and control wiring downstream of the control panel (this includes furnishing and installing step-down transformers as required).
- E. Electrical circuit data for Doors (without blowers) will be set up for 6.0FLA, 480V, 3Ph per door and wired two doors per circuit to a 20Amp breaker. Doors with blowers will be set up for 8.0FLA, 480V, 3Ph per door and wired with a dedicated circuit and 20Amp breaker. If doors require larger circuit size, wire and breaker would be the Manufacturers responsibility to cover all additional charges provide by the Building Electrical Contractor.
- F. All doors shall have manual override in case of power failure.

3.2 SPECIAL REQUIREMENTS

- A. If exterior mounted door; furnish and install wind ribs (as required to withstand wind pressures at the place of installation) and full motor/hood cover.
- B. Doors shall be designed for travel and environmental conditions (i.e. cooler doors shall be condensation free and freezer doors frost free). At manufacturer's discretion, doors shall be outfitted with heat lamps, unheated blowers, and/or heated blowers to maintain these conditions. If any of these features needed to be added after installation to maintain condensation/frost free conditions, they shall be added at no additional cost.
- C. Provide automatic close feature with adjustable time delay and manual override switch to disable. Provide photo eye hold open safety sensors.
- D. Provide two (2) wall-mounted touchless activation openers at each door. One on each side of opening.
- E. Control panels shall be wash-down rated when mounted in wet-locations. If drawings do not define wet-locations; assume all rooms with floor drains are wet-locations.

3.3 GENERAL REQUIREMENT

- A. Provide shop drawings for all doors within two (2) weeks of receiving a written notice-to-proceed or letter of intent.

- B. Shop drawings shall be specific to the doors being provided; standard manufacturer detail sheets requiring completion by the Design-Builder are not acceptable.

3.4 EXCLUSIONS

- A. Steel bollards/goalposts providing doorway protection are by others.

3.5 WARRANTY

- A. One (1) year parts and labor.
- B. Five (5) year limited warranty on fabric.
- C. Lifetime warranty on door counterweights and tension springs.

END OF SECTION