



4050 South 500 West, Salt Lake City, UT 84123 • (801) 261-8980 • FAX (801) 261-1612

ARCHITECTURAL SPECIFICATION

Circleslide Curved Automatic Sliding Door

DIVISION 8 – DOORS AND WINDOWS

SECTION 08464 – AUTOMATIC SLIDING CIRCULAR ENTRANCE DOORS

PART I – GENERAL

1.01 SECTION INCLUDES

- A. This section covers the furnishing and installation of a complete Automatic Sliding Circular Entrance Door System. Provide complete system that has been fabricated and tested for proper operation at the factory. It includes curved side walls, canopy, ceiling, door wings, locks, glass, drive systems, sensor systems and emergency collapsing mechanisms as required for installation.

1.02 RELATED SECTIONS

- A. Section 07915 - Sealant, Caulking and Seals
- B. Section 08400 - Entrances and Storefronts
- C. Section 08710 - Door Hardware
- D. Section 08810 - Glass and Glazing
- E. Section 09600 - Flooring
- F. Section 16123 - Electrical Supply and Termination

1.03 QUALITY ASSURANCE

- A. Manufacturer shall be a company specializing in the supply of automatic sliding circular entrance doors with a minimum of 10 years experience.
- B. Installer shall supply a factory-trained supervisor during installation of the door.

1.04 SUBMITTALS

- A. Submit project specific shop drawings and finish samples.
- B. Indicate pertinent dimensions, general construction, component connections and locations, anchorage methods and locations.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to job site in manufacturer's packaging undamaged, complete with installation instructions.
- B. Store off ground, under cover, protected from weather and construction activities.

1.06 PROJECT/SITE CONDITIONS

- A. Revolving doors install in finished floor only. Floor must be dead level at any point within the footprint of the revolving door.

1.07 WARRANTY

Boon Edam warrants its products against defects in material and workmanship for a period of one (1) year from the date of substantial completion or one and one half (1 ½) years from date of shipment. This warranty excludes glass breakage, normal wear on finishes or damage that occurs due to abuse, misuse or acts of God.

PART II – PRODUCTS

2.01 MANUFACTURER

Circleslide Automatic Sliding Circular Entrance Doors as manufactured by:
Boon Edam, Inc., 4050 South 500 West, Salt Lake City, Utah 84123.
(801) 261-8980 Fax: (801) 261-1612 Homepage: www.boonedam.com

2.02 DOOR CONSTRUCTION

- A. Curved Side Walls and Canopy: Shall have a standard inside diameter of 6'-6 3/4", 7'-2 5/8", 8'-6 3/8", 9'-2 1/4" or 9'-10 1/8" and be manufactured from six (6) extruded aluminum posts, four (4) 12" high one-piece extruded aluminum canopies and two (2) extruded aluminum bottom rails.
- B. Door Wings: Four non-collapsing doors manufactured of 1 3/4" wide aluminum extrusions. Door wings must utilize removable weather stripping on two sides.
- C. Ceiling: Shall be fabricated of formed aluminum sheet in a pie-shaped configuration. Each section must be secured in position and removable only by authorized personnel.

2.03 EQUIPMENT

- A. Drive System: Overhead electromechanical drive system with two DC motors attached to the internal structural framing. The motor shall be powered by a 208-230 VAC, 1-phase service.
- B. Braking Assembly: Positive braking and stopping shall be performed by electromagnetic brake assembly incorporated within the drive unit. The brake unit to provide the following characteristics:
 - 1. Remain unlocked at all times until locked by electric locking system.
- C. Controls: Microprocessor-based electronics with the following characteristics:
 - 1. Self-diagnostics for quick detection of problem source
 - 2. Visual display of problem source
- D. Electric Locking: A electromagnetic lock mechanism that can be controlled from the control panel a signal from building/fire alarm or it can be released by a manual unlocking mechanism located inside the door.
- E. Mechanical Locking (optional): A mechanical hook bolt lock mounted into the outside door set. The hook lock is suitable for a profile cylinder.
- F. Lights: Provide (4) 5" diameter lights to be recessed into ceiling.
- G. Battery Back-Up: A battery pack provides back-up power in the event of a power failure. Depending on its use, the door will continue to function for 15 to 30 minutes after a power failure. When the power supply is low the doors will open one last time.

2.04 SENSOR SYSTEM

- A. PIR Motion Detectors: Four (4) passive infrared motion detectors mounted in the canopy on each side of the door that will start the rotation of the door upon actuation. Detection pattern can be adjustable directly.
- B. Active Infrared Threshold Sensor: Three (3) active infrared presence sensors mounted in the canopy on each side of the door are active when the doors are closing.

2.05 HARDWARE/MATERIALS

- A. Tempered Glass: All flat glass in door wings shall be 1/4" clear tempered safety glass, all curved glass shall be 1/4" clear bent tempered safety glass. All glass shall meet ANSI standard Z 97.1.
- B. Laminated Glass (Optional): 3/8" clear curved laminated safety glass is available as an option. All glass shall meet ANSI standard Z 97.1.
- C. Aluminum Extrusions: All commercial grade extrusions shall be of aluminum alloy 6063-T6 per ASTM B-221.
- D. Aluminum Sheets: Shall meet ASTM B-209 and be of .063 minimum thickness.
- E. Weather Stripping: On all required edges of door wings to provide a seal between door wings and drum that meets ASTM E-283.

2.04 FINISH

The following finishes are available for the enclosure walls, rotating door wings and ceiling.

- A. Anodized Coatings
 - 1. AAMA 611 Architectural Class 1 Clear anodized Type AA-M10C22 A41
 - 2. AAMA 611 Architectural Class 1 anodized Type AA-M10C22 A42: Light, Medium and Dark Bronze, Black and Champagne.
- B. Painted Coatings
 - 1. AAMA 2605 Superior Performing Organic Coatings (e.g.: Duranar, Fluoropon; 70% Kynar Fluropolymers).
 - 2. AAMA 2604 High Performance Organic Coatings (e.g.: Powder Coating).
- C. Stainless Steel Clad Type 304
 - 1. #4 Brushed Satin
 - 2. #8 Highly Polished (mirror finish)

PART III – EXECUTION

3.01 INSTALLATION

- A. Inspection: Installer must examine the location and advise the Contractor of any site conditions unacceptable for proper installation of product. These conditions include but are not limited to the following:
 - 1. Door must be installed on finished floor.
 - 2. Finished floor must be dead level at any point within the footprint of the door.
 - 3. Power supply must be installed.Installation shall not begin until these unacceptable conditions are rectified.
- B. Erection: Install revolving doors in accordance with manufacturer's printed instructions. Set units level, plumb, and with uniform hairline joints. Anchor securely into place. Use only factory trained installers.
- C. Adjustment: Installer shall adjust door, hardware and sensors for smooth operation and proper performance.
- D. Instruction: A factory-trained installer shall demonstrate to the owner's maintenance crew the proper operation of the door and the necessary service requirements such as lubrication, cleaning, and inspection of components upon completion of installation.
- E. Cleaning: Clean metal and glass surfaces carefully after installation to remove excess caulk, dirt and labels.

Boon Edam, Inc. reserves the right to change this specification at any time without notice.