

### **1.1 RELATED DOCUMENTS**

- A. Drawing and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Door frames not included in this section, unless indicated otherwise.

### **1.2 SUMMARY**

- A. This section includes medium duty insulated impact traffic doors.

### **1.3 SUBMITTALS**

- A. Product Data: For each type of door indicated, provide Manufacturer's data sheet, including:
  - 1. Opening preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
  - 4. Operation and maintenance data.
- B. Shop Drawings: Show installation details for assemblies provided, including door elevations, frame head and jamb details as applicable.

### **1.4 DELIVERY, HANDLING, STORAGE AND WARRANTY**

- A. Inspect product upon arrival to ensure undamaged and complete.
- B. Store door and/or frame assemblies under cover, protected from elements elevated from floor in manufacturer's original packaging. Store product on side, upright or as indicated by directional arrows on packaging.
- C. Maintain environmental conditions (temperature, humidity, ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturers absolute limits.
- D. Manufacturer's standard two-year warrants that products are free of defects of material and workmanship. Parts proven defective are warranted for replacement (exclusive of freight and labor) within two years from date of shipment to purchaser.

## **PART 2 – PRODUCTIONS:**

### **MEDIUM DUTY IMPACT TRAFFIC DOORS**

#### **2.1 ACCEPTABLE MANUFACTURERS/PRODUCTS**

- A. Traffic Door Manufacturer: Subject to compliance with requirements, no substitutions.

Phoenix Door Systems  
7390 Union Centre Blvd  
West Chester, OH 45014  
888-263-4082

[sales@phoenixdoorsystems.com](mailto:sales@phoenixdoorsystems.com)  
[www.phoenixdoorsystems.com](http://www.phoenixdoorsystems.com)

- B. Model: Phoenix 1500

#### **2.2 DOOR COMPONENTS**

- A. Door panels shall be constructed with composite internal framework including patented full height internal composite back spine chemically bonded to textured thermoplastic skins front and back. Panel core shall be foamed-in-place, Non-CFC Urethane Foam. Total panel thickness is 1-1/2".
- B. Standard Hinge System consists of the following components:
1. Door panel to have upper and lower hinge pins constructed of solid aluminum bar stock. Upper pin is machined to lock into keyed internal spine.
  2. Upper Hinge: Corrosive resistant composite V-Cam used with sealed roller bearing assembly (stainless steel roller bearing assembly optional) provides self-closing function. The upper hinge cover is a flexible vinyl wrap which is fastened to the V-Cam assembly. Door panel to have full perimeter Santoprene gasketing including a 2" header mounted seal.
  3. Lower Hinge: Assembly shall be 12" tall black composite lower hinge guard/assembly and shall have mounting holes with stainless-steel reinforcement sleeves and UHMW bushing.
  4. Window shall be 16" x 16" (Other sizes: 10" x 16", 20" x 22", 10" x 30" ADA, or 20" x 30" ADA) with internal Santoprene perimeter gasket and two-piece PVC frame fastened into door panel.

5. Optional door protection available:
  - a. Impact Plates: Stainless Steel, Thermoplastic or HDPE material  
(Height options: 12", 18", 24", 36", 42", 48")
  - b. Teardrop shaped spring bumpers  
(Height options: 12", 18", 24", 36", 42")

## **2.3 FABRICATION**

- A. General: Provide traffic door assemblies manufactured as integral units ready for installation.
- B. Panel Construction: Fabricate door panel to match exact opening size with standard perimeter gasketing. Panel components shall be permanently bonded eliminating all cracks, gaps or crevices creating a cleanable door panel.

## **PART 3 - EXECUTION**

- A. Install special doors complete with necessary hardware and accessories in accordance with final shop drawings, manufacturer's instructions and as specified herein.
- B. All assemblies must be installed plumb, level and properly aligned.
- C. Upon completion of installation, test and adjust doors to operate easily, free from warp, twist or distortion.
- D. Coordinate installation of bollards and/or wall stops with architectural drawings, if required.

END OF SECTION 083800