

**SECTION 08 38 00**  
**DOUBLE ACTING IMPACT TRAFFIC DOOR**  
**[ImpacDor® FD-175]**



GENERAL NOTES TO SPECIFIER:  
EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT  
ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT.

2720 E. Avalon Ave.  
Muscle Shoals, AL 35661  
800.633.3120  
aleco.com

**PART 1 GENERAL**

**1.1 SUMMARY**

- A. Section Includes: Double acting, self-closing, fully insulated, 1-3/4 inch thick, impact traffic door.

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INCLUDE APPROPRIATE SECTION(S) BELOW FOR OPENING FRAMING AND DOOR FRAMES. RECOMMENDED FRAME IS A 6 INCH STEEL CHANNEL WITH 3/8 INCH WEB (MC6 X 18.0).

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- B. Related Sections:

**1.2 SUBMITTAL**

- A. Reference Section 01 33 00–Submittal Procedures; submit the following items:
1. Product Data.
  2. Shop Drawings: Show fabrication details and anchorage. Include door elevations, head, jamb and meeting stile details including perimeter air seals.
  3. Samples: Full range of manufacturer's standard color selections for facing material.
  4. Quality Assurance/Control Submittal:
    - a. Manufacturer's Installation Instructions.
  5. Closeout Submittal:
    - a. Cleaning and Maintenance instructions.
    - b. Warranty

**1.3 QUALITY ASSURANCE**

- A. Qualifications:
1. Manufacturer Qualifications: regular manufacturer of impact traffic doors for at least 5 years.

**1.4 DELIVERY STORAGE AND HANDLING**

- A. Reference Section 01 66 00–Product Storage and Handling Requirements.
- B. Verify doors were shipped in upright position.
1. Note specific doors shipped in other than upright position on bill of lading and contact manufacturer.
- C. Store in upright position and follow manufacturer's instructions printed on carton.

## 1.5 PROJECT/SITE CONDITIONS

- A. Existing Conditions: Frames installed under other sections shall be level and plumb.

## 1.6 WARRANTY

- A. Standard one year limited warranty (from date of shipment) against defects in materials and workmanship and is limited to the replacement on any part which prove to be defective.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturer: ALECO, A Division of ES ROBBINS; 2720 E. Avalon Ave.; Muscle Shoals, AL. Telephone: (800) 633-3120, (256) 248-2402. Fax: (800) 750-9616. Website: [www.aleco.com](http://www.aleco.com)
- B. Model: ImpacDor® FD-175

### 2.2 DOOR COMPONENTS

- A. Internal Frame:
  - 1. Perimeter: 1-1/4 x 1-1/2 inch rubber honeycomb extrusions.
  - 2. Stile: Kiln-dried hardwood, full height of mount assembly.
- B. Core: 1-1/2 inch thick flexible bonded polyurethane foam.
- C. Facings: 1/8 inch thick ABS plastic, 5,400 psi tensile strength, color as selected by architect.
- D. Hardware:
  - 1. Cam: "V" cam design; [1-1/2 inch] rise, casted metal
    - a. Swing: [90 x 90] [90 x 180] degree swing.
  - 2. Cam Follower: 1-1/8 inch diameter by 5/8 inch wide stud mounted needle bearing roller mounted to cast iron arm.
  - 3. Bottom Bearing: [Standard plastic, optional aluminum, or combination bottom bearing jamb guard)
  - 4. Hinge Shaft: 1-5/16 inch diameter full height steel tube
- E. Safety Nosing: Full height, rubber extruded nose with a 40 oz. vinyl nose seal.
- F. Seals:
  - 1. Jamb and Header: Polymer impregnated woven nylon fabric in hollow-loop configuration. Jamb Seal: Factory installed; fixed. Header Seal: Field installed; adjustable.
  - 2. Sill: 22 oz. vinyl nose nosing

- G. Vision Panel: 1/8 inch thick polycarbonate, double glazed in [hardwood] [rubber] subframe mechanically attached; panels flush with both door faces.
  - H Cam Shields: Black ABS plastic, field installed.
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FOLLOWING ACCESSORIES ARE OPTIONAL. SELECT AS DESIRED AND DELETE OTHERS.

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## 2.3 ACCESSORIES

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SHOW BUMPER SIZE AND LOCATION ON DRAWINGS.

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- A. Bumpers: 1/4 inch thick molded polyethylene.
    - 1. Width: Sized to door.
    - 2. Height: [12 inch] [18 inch] [24 inch] [36 inch] [42 inch] [48 inch] high.
  - B. Impact Wear Panels: [12 inch] [24 inch] [36 inch] [48 inch] high, [1/8 inch thick ABS, pad type, color as selected by architect] [18 gauge stainless steel].
  - C. Pressure and Wind Load Accessories:
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ADJUSTABLE SPRING COMPENSATOR REQUIRES A 11-1/8 INCH JAMB GUARD.

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- 1. Adjustable Spring Compensator.
  - 2. Fixed Spring Assist Kit [4 inch heavy duty].
- D. Locking Device: Cane Bolt
- E. Jamb Guards: 8-3/4 inch high x 3 inch deep stainless [standard].

## 2.4 SOURCE QUALITY CONTROL

- A. Fabrication Tolerances: Width and height of each leaf: + 0, -1/8 inch.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine opening in which door will be installed.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory conditions.
- C. Commencement of work by installer is acceptance of opening conditions.

### 3.2 INSTALLATION

- A. Follow manufacturer's instructions.
- B. Install door with necessary anchors, hardware and accessories.
  - 1. Drill bottom bearing for hold open pin.

### 3.3 ADJUSTING

- A. Follow manufacturer's instructions as required to:
  - 1. Clean and lightly lubricate operating parts.
  - 2. Adjust to open and close smoothly and freely without binding.
  - 3. Check seals for proper fit.

### 3.4 CLEANING

- A. Clean surfaces soiled by work as recommended by manufacturer.
- B. Remove surplus materials and debris from the site.

END OF SECTION