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[www.aleco.com](http://www.aleco.com)

**SECTION 08 38 00**  
**DOUBLE ACTING IMPACT TRAFFIC DOOR**  
**[ImpacDor® HD-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.

**PART 1 GENERAL**

1.1 SUMMARY

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

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

- B. Related Sections:

1.2 SUBMITTALS

- 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 Submittals:
    - a. Manufacturer's Installation Instructions.
  5. Closeout Submittals:
    - 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 five 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. One year against defects in materials and workmanship.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

A. Manufacturer: Aleco, a Division E.S. Robbins Corp.; 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<sup>®</sup> HD-175

### 2.2 DOOR COMPONENTS

AVAILABLE WITH WASH DOWN PACKAGE. CONTACT ALECO FOR DETAILS AND MODIFY SECTION TITLE(S) AND SUMMARY ARTICLE(S) ACCORDINGLY.
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A. Panel Construction: Rotationally molded one-piece shell with an overall thickness of 1-3/4 inch and reinforced to 2-1/4 inch thickness at the spine edge.

B. Core: High density non-CFC urethane foam with full height internal steel shaft foamed in-place and secured to top and bottom mounting brackets for additional reinforcement.

C. Facings: Minimum 3/16 inch thick cross-linked polyethylene, color as selected by architect.

#### D. Hardware

1. Cam: Patented "helix" helical cam design; 1-1/4 inch standard rise, fabricated from low-friction delrin polymer.

- a. Swing: 125 x 125 degree swing.

2. Cam Follower: Roller bearing-less helical cam follower with set screw to adjust door height and position, 6061 T6 Aluminum, black anodized with Teflon impregnation per AMS-A-8625A.

3. Bottom Bearing: Floor/jamb mounted food grade 304 stainless steel jamb guard with integral, low friction, igus bearing.

4. Top and Bottom Hinge Shaft: 1-5/16 inch diameter, food grade stainless steel, #4 grain finish.

E. Seals: Less than 5 cfm air infiltration per linear foot of seal per ASHRAE Bulletin 90-75

1. Jamb and Nose Edge: Replaceable polymer impregnated woven nylon fabric in hollow-loop configuration.
2. Header: Field installed, adjustable, polymer impregnated woven nylon fabric in hollow-loop configuration.
3. Hardware Cutouts: 1/16 inch thick neoprene rubber, factory installed; fixed.

14 x 22 INCH WINDOWS ARE STANDARD ON PANELS LESS THAN 36" AND 18 x 22 INCH WINDOWS ARE STANDARD ON PANELS 36" AND GREATER.

F. Window: 1/8 inch thick polycarbonate, double glazed and recessed 3/16 inch, mechanically fastened.

G. Cam Shields: [1/16 inch black rubber flap.] [ABS plastic, color to match door facing.]

FOLLOWING ACCESSORIES ARE OPTIONAL. SELECT AS DESIRED AND DELETE OTHERS.

## 2.3 ACCESSORIES

SHOW BUMPER SIZE AND LOCATION ON DRAWINGS.

- A. Spring Bumpers: 1/4 inch thick molded polyethylene.
  1. Width: [24 inch] [42 inch]
  2. Height: [12 inch] [18 inch] [24 inch] [36 inch] [48 inch] high.
- B. Impact Wear Panels: [12 inch] [24 inch] [36 inch] [48 inch] high, 1/4 inch [ABS, color as selected by architect] [stainless steel]
- C. Rub Rails: 1 inch x 1 inch x panel width, replaceable vinyl strips mounted to a slotted aluminum track, black.

FOLLOWING LOCKING DEVICE IS STANDARD FOR PADLOCK (NOT SUPPLIED); CONTACT ALECO FOR OTHER OPTIONS.

D. Locking Device: 1 inch i.d. cast aluminum bushing (2 per leaf) with two 3/16 inch by 30 inch long galvanized proof coil chains.

E. Transom Flap: 2 ply vinyl, color as selected by Architect.

TRACK PORTS AND MEAT RAIL CUTOUTS, IF REQUIRED, SHOULD BE SHOWN ON DRAWINGS.

## 2.4 SOURCE QUALITY CONTROL

- A. Shop Assembly: Secure top and bottom mounting brackets to rotationally molded door panel using three 3 inch stainless steel bolts each. Position brackets at top and bottom mortises on panel and align center bolt to secure through the internal tubular steel shaft. Secure windows and all optional features to door panel using stainless steel and zinc coated fasteners.

## 2.5 SOURCE QUALITY CONTROL

- A. Fabrication Tolerances: Width and height of each leaf: + 0, -3/16 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.

### 3.3 ADJUSTING

- A. Follow manufacturer's instructions as required to:
  - 1. Clean and 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