



2720 E. Avalon Ave.
Muscle Shoals, AL 35661
1-800-633-3120
www.aleco.com

SECTION 08 38 00
DOUBLE ACTING IMPACT TRAFFIC DOOR
[ImpacDor® Steel-Lite]

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. Standard one year limited warranty (from date of shipment) against defects in material and workmanship and is limited to the replacement of any part or parts which prove to be defective. Limited lifetime warranty on v-cam hinge.

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

B. Model: ImpacDor[®] Steel-Lite

2.2 DOOR COMPONENTS

AVAILABLE WITH WASH DOWN PACKAGE. CONTACT ALECO FOR DETAILS AND MODIFY SECTION TITLE(S) AND SUMMARY ARTICLE(S) ACCORDINGLY.

A. Internal Frame:

1. Perimeter: 1-1/4 x 1-1/2 inch galvanized steel extrusions.
2. Reinforcing: 1-1/2 x 1-1/2 inch galvanized steel extrusions.
3. Stile: Kiln-dried hardwood, full height of mount assembly.

B. Core: 1-1/2 inch thick re-bonded polyurethane foam.

C. Facings: [16 Gauge galvanized steel] [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 standard rise cast Meehanite, minimum 60,000 psi compressive strength, ASTM B 633 zinc plated.
 - a. Swing: [90 x 90]

SINGLE ACTING (90 X 0 DEGREE SWING) DOORS ARE AVAILABLE FOR USE IN CONJUNCTION WITH AUTOMATIC OPERATORS. CONTACT ALECO FOR DETAILS AND MODIFY SECTION TITLE AND SUMMARY ARTICLE ACCORDINGLY.

2. Cam Follower: 1-1/8 inch diameter by 5/8 inch wide stud mounted needle bearing roller mounted to cast iron arm; 2,100 lbf bearing dynamic capacity.
3. Bottom Bearing: Combination bottom bearing and jamb guard, cast Meehanite, minimum 45,000 psi compressive strength, ASTM B 633 zinc plated.]
4. Hinge Shaft: 1-5/16 inch diameter full height steel tube, 62,000 psi tensile strength.

- 5. Mount Plate: 4-1/2 inch wide by full height of door panel, 1/8" anodized aluminum.
- E. Safety Nosing: Full height, 2-ply, reinforced roto-cured rubber, 2,200 psi tensile strength with 1/16 inch vinyl loop seal (loop seal on one leaf at pairs of doors).
- F. Seals: Less than 5 cfm air infiltration per linear foot of seal per ASTM E 283.
 - 1. Jamb and Header: Polymer impregnated woven nylon fabric in hollow-loop configuration. Factory installed; fixed.
 - 2. Sill: 1/16 inch thick neoprene rubber, factory installed; fixed.

G. Vision Panel:

20" X 22" VISION PANELS ARE STANDARD ON ALL DOOR LEAFS GREATER THAN 36" WIDE. DOOR PANELS LESS THAN 36" WIDE ARE EQUIPPED WITH 17" X 22" VISION PANELS.

- 1. 1/8 inch thick polycarbonate, double glazed in steel subframe mechanically attached; panels flush with both door faces.
- H. Teardrop Bumpers: 38 inch high x 1/4 inch thick premolded linear polyethylene with a projection of 4 inches from door surface.
- I. Hold Open Pin: 1/4 inch diameter steel pin with wire ring and 8 inch chain for attachment to jamb.
- J. Cam Shields: [16 gauge galvanized steel] [ABS plastic, color to match door facing]

2.3 SECURITY FEATURES

- A. Steel Cane Bolts to secure door to header and sill.
 - 1. Upper cane bolts to be 18 inch long with a minimum diameter of 5/8 inch.
 - 2. Lower cane bolts to be 42 inch long with a minimum diameter of 5/8 inch.
- B. 2 inch diameter reinforced lock bushing with flap seal (one per leaf).
- C. 5/8 inch diameter security bars in windows spaced at 6 inches. Bars to be fabricated from heat treated steel.

2.4 FABRICATION

- A. Shop Assembly: Fabricate door components into 1-3/4 inch thick unitized assembly with steel facing mechanically secured to steel sub-frame. Rigidly connect mount plate, stile and hinge shaft and secure hardware assembly to door with through-rivets at tubing and aluminum or stainless steel screws to stile. Align cam hardware and pre-pin.

2.5 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 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