

**SECTION 08 38 16
FLEXIBLE TRAFFIC DOORS**

SPEC WRITER NOTE: Delete text between
// _____ // not applicable to project.
Edit remaining text to suit project.

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Double acting, flexible traffic doors including vision panels, hardware and related components // at hospital loading dock // at delivery entrance //.

1.2 RELATED REQUIREMENTS

- A. Finish Color: Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 SUBMITTALS

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Submittal Drawings:

1. Show size, configuration, and fabrication and installation details.

C. Manufacturer's Literature and Data:

1. Description of each product.
2. Installation instructions.

D. Sustainable Construction Submittals:

SPEC WRITER NOTE: Retain sustainable
construction submittals appropriate to
product.

1. Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.

1.4 DELIVERY

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, color, production run number, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

1.5 STORAGE AND HANDLING

- A. Store products indoors in dry, weathertight facility.

- B. Protect products from damage during handling and construction operations.

1.6 WARRANTY

SPEC WRITER NOTE: Always retain construction warranty. FAR includes Contractor's one year labor and material warranty.

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

PART 2 - PRODUCTS

2.1 PRODUCTS - GENERAL

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide each product from one manufacturer and from one production run.
- C. Sustainable Construction Requirements:

SPEC WRITER NOTES:

- 1. Specify products containing greatest recycled content practicable to maximize material recovery. See EPA Comprehensive Procurement Guidelines (CPG) for guidance about individual products and available recycled content. Section 01 81 13 sets overall project recycled content requirements.
- 2. Steel recycled content depends upon furnace type. AISC reports industry wide 32 percent for basic oxygen furnace and 93 percent for electric arc furnace.

- 1. Steel Recycled Content: 30 percent total recycled content, minimum.
- 2. Insulation Recycled Content:
 - a. Rigid Foam: 100 percent total recycled content, minimum.

2.2 FLEXIBLE TRAFFIC DOORS

- A. Doors: Double acting, shock absorbing type, including glazed vision panel, hardware and necessary related components and accessories.
 - 1. Nominal 46 mm (1-13/16 inch) overall thickness, height and width dimensions shown on drawings.
 - 2. Internal Frame:
 - a. Perimeter: 32 by 38 mm (1-1/4 by 1-1/2 inch) rubber honeycomb extrusions.

- b. Reinforcing: 38 by 38 mm (1-1/2 by 1-1/2 inch) rubber I-beam extrusions.
- c. Stile: Kiln-dried hardwood, full height of mount assembly.
- 3. Core: 38 mm (1-1/2 inch) thick flexible re-bonded polyurethane foam.
- 4. Door face sheets: 3 mm (1/8 inch) thick, high strength vinyl reinforced with woven nylon backing.
- 5. Use manufacturers' standard construction for spacing.
- 6. Fill compartments between face sheets with neoprene-coated padding.
- B. Hardware:
 - 1. Steel tube post with gravity "V-cam" upper and lower bearings and needle bearing cam follower.
 - 2. Adjustable closing device consisting of wire compression springs with lock collar and washer.
- C. Air Seals:
 - 1. Polymer impregnated woven nylon fabric in hollow-loop configuration.
 - 2. Seals at jambs of door for complete seal at door edges when closed.
- D. Vision Panel: 3 mm (1/8 inch) thick polycarbonate, double glazed in rubber subframe mechanically attached with panels flush with both door faces.

2.3 FINISHES

- A. Steel Paint Finish:
 - 1. Powder-Coat Finish: Manufacturer's standard two-coat finish system consisting of the following:
 - a. One coat primer.
 - b. One coat thermosetting topcoat.
 - c. Dry-film Thickness: 0.05 mm (2 mils) minimum.
 - d. Color: Refer to Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Unfinished Seals: black.
- C. Doors: Factory applied finish.

2.4 ACCESSORIES

- A. Touch-Up Paint: Match shop finish.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
 - 1. Verify door opening is correctly sized.
- B. Protect existing construction and completed work from damage.

3.2 INSTALLATION - GENERAL

- A. Install products according to manufacturer's instructions // and approved submittal drawings //.
 - 1. When instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.
- B. Install anchoring devices and fasteners as shown and required to secure door, hardware, seals and other components in opening.
- C. Set work accurately; plumb, level, free of rack and twist.
- D. Adjust doors for proper operation, centered in opening and sealed when closed.
- E. Touch up damaged factory finishes.

3.3 PROTECTION

- A. Protect flexible traffic doors from construction operations.
- B. Repair damage.

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