

SECTION 10 21 16
SHOWER AND DRESSING COMPARTMENTS

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. Prefabricated shower cabinet // and dressing booth partitions //.

1.2 RELATED WORK

SPEC WRITER NOTE: Update and retain
references only when specified elsewhere
in this section.

- A. Section 06 20 00, FINISH CARPENTRY: Wood seats and seat supports.
- B. Section 09 06 00, SCHEDULE FOR FINISHES: Color of baked enamel finish and color of shower cabinet.

1.3 APPLICABLE PUBLICATIONS

- A. Comply with references to extent specified in this section.
- B. ASTM International (ASTM):
 - A653/A653M-20.....Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - D1187/D1187M-97(2018)...Asphalt-Base Emulsions for Use as Protective Coatings for Metal.
 - E84-20.....Surface Burning Characteristics of Building Materials
- C. American Society of Mechanical Engineers (ASME):
 - A112.18.1-2018.....Plumbing Supply Fittings.
- D. Commercial Item Descriptions (CID):
 - A-A-60003(8-22-1997)....Partitions, Toilet, Complete.
- E. Code of Federal Regulations (CFR):
 - 40 CFR 247(2020).....Comprehensive Procurement Guidelines for Products Containing Recovered Materials.

1.4 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.
3. Warranty.
4. Samples: Paint: 300 mm (6 inch) square, each type // and color //.
 - a. Submit quantity required to show full color // and texture // range.

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.
- E. Certificates: Certify // each product complies // products comply // with specifications.
1. Shower cabinets.
 2. Dressing booth partitions.
 3. Zinc-Coating: Certificate, attesting that zinc-coatings conform to specified requirements.
 4. Flame spread rating is Class C for plastic shower units.
- F. Qualifications: Substantiate qualifications comply with specifications.
1. Manufacturer // with project experience list //.
- G. Operation and Maintenance Data:
1. Care instructions for each exposed finish product.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
1. Regularly manufactures specified products.
 2. Manufactured specified products with satisfactory service on five similar installations for minimum five years.
 - a. // Project Experience List: Provide contact names and addresses for completed projects. //
- B. Comply with ADA accessibility requirements.

1.6 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.

1.7 STORAGE AND HANDLING

- A. Store products indoors in dry, weathertight // conditioned // facility.
- B. Protect products from damage during handling and construction operations.

1.8 FIELD CONDITIONS

- A. Environment:
 - 1. Product Temperature: Minimum 21 degrees C (70 degrees F) for minimum 48 hours before installation.
 - 2. Work Area Ambient Conditions: HVAC systems are complete, operational, and maintaining facility design operating conditions continuously, beginning 48 hours before installation until Government occupancy.
 - 3. Install products when building is permanently enclosed and when wet construction is completed, dried, and cured.
- B. Field Measurements: Verify field conditions affecting compartments fabrication and installation. Show field measurements on Submittal Drawings.
 - 1. Coordinate field measurement and fabrication schedule to avoid delay.

1.9 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 MATERIALS

SPEC WRITER NOTE: Include appropriate materials required for the project.

- A. // Steel Sheet: ASTM A653/A653M. //
- B. // Plastic Sheet: Solid, high-density polyethylene (HDPE). //

2.2 PRODUCTS - GENERAL

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide system components from one manufacturer.
- C. Sustainable Construction Requirements:

SPEC WRITER NOTE:
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.

SPEC WRITER NOTE: EPA CPG reports 20 - 100 percent post-consumer recycled content available in plastic partitions.

2. Plastic Shower Compartments: // _____ // percent post-consumer recycled content, minimum.

SPEC WRITER NOTE:

1. Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS includes comprehensive product list setting VOC limits for low-emitting materials.
2. Retain subparagraphs applicable to products specified in this section.

3. Low Pollutant-Emitting Materials: Comply with VOC limits specified in Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS for the following products:

- a. Non-flooring adhesives and sealants.
- b. Aerosol adhesives.
- c. Paints and coatings.

2.3 SHOWER CABINETS

- A. Materials: // Baked enamel steel cabinets. // Single plastic unit complete. //

1. Maximum Surface Burning Characteristics: ASTM E84.

- a. Flame Spread Index: // 25 // 75 // 200 //.
- b. Smoke Developed Index: 450.

2. Size: 940 mm (37 inches) square.

3. Accessories: Chromium plated or corrosion-resisting steel.

- a. Curtain rod.
- b. Soap dish.

4. // Plastic shower units shall have a Class C flame spread rating. //

5. // Die cast zinc alloy handles for valves are not acceptable. //

SPEC WRITER NOTE: Include color and pattern for plastic shower units.

6. // Color and Patterns: As selected by Architect. //

2.4 DRESSING BOOTH PARTITIONS

A. Materials and Construction: CID A-A-60003, Type I, Style C (overhead braced).

1. Accessories:

a. Coat Hooks (2): Double hook, chromium plated, one located 75 mm (3 inches) from top edge at middle of each partition.

b. Curtain Rod and Hooks: Chromium plated or corrosion-resisting steel curtain rod and roller type chromium plated curtain hooks.

c. Curtains will be furnished by Government.

B. Drill partitions for through-bolting of wood seat supports. Reinforce partitions to receive wood seats. Fasten coat hooks to partitions by machine screws.

2.5 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. Finish exposed surfaces after fabrication.

2.6 ACCESSORIES

A. Fasteners: Stainless steel.

B. // Touch-Up Paint: Match shop finish. //

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

A. Install products according to manufacturer's instructions // and approved submittal drawings //.

1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.

B. Install dressing booth partitions and shower cabinets in rigid, substantial manner, straight, plumb and with horizontal lines level. Provide hex-bolts for through-bolt fastening. Conceal evidence of

drilling, cutting, and fitting in finish work. Clean finished surfaces and leave free of imperfections.

- C. Support each panel and pilaster abutting building walls near top and bottom by stirrup supports secured to partitions with sex bolts. Secure stirrup supports to building construction with two anchoring devices for each stirrup. Clamp headrails or set into top of each pilaster and secured to building walls. Secure clamps to pilasters with two through-bolts to each clamp. When set into pilasters, through-bolt headrails to pilasters. Support headrails on wall flange fittings secured to building walls with minimum of two anchor bolts to each flange fitting.
- D. Shower Cabinets: Make connections to water supplies and drains watertight. When mounted in wall recesses, caulk joint between cabinet and adjacent wall construction.

3.2 CLEANING

- A. Clean exposed compartment surfaces. Remove contaminants and stains.

3.3 PROTECTION

- A. Remove protective materials immediately before acceptance.
- B. Repair damage.

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