

SECTION 10160 - METAL TOILET PARTITIONS

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing [floor-mounted, overhead braced] [ceiling hung] toilet partitions and [floor-supported] [wall hung] urinal screens and all appurtenant work.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 10800 Toilet Accessories
 - 2. Section 15440 Plumbing Fixtures

1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:
 - 1. Uniform Building Code
 - 2. Uniform Plumbing Code
 - 3. California Code of Regulations, Title 24

1.4 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:
 - 1. Shop Drawings: CONTRACTOR shall submit complete shop drawings describing fabrication and erection of toilet partition assemblies, including instructions for installation of anchorage devices built into other work, where such information is not fully described by product drawings and templates.
 - 2. Samples: CONTRACTOR shall submit full range of color samples for each type of unit required. Samples shall be 6 inches square, of each color and finish, on the same substrate to be used in the WORK, for color verification after selections have been made.
 - 3. Product Data: CONTRACTOR shall submit manufacturer's detailed technical data for materials, fabrication, and installation, including catalogue cuts of anchors, hardware, fastenings, and accessories.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. **Delivery of Materials:** Products shall be delivered in original, unbroken packages, containers, or bundles bearing the name of the manufacturer.

- B. **Storage:** Products shall be carefully stored in a manner that will prevent damage and in an area that is protected from the elements.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. Toilet partitions shall be [floor-mounted, overhead braced] [ceiling hung] type. Colors shall be as selected by the CONSTRUCTION MANAGER from manufacturer's standard colors. Toilet partitions and urinal screens shall be [baked enameled steel] [stainless steel].
- B. The toilet partitions and urinal screens shall be of the same manufacturer.

2.2 TOILET PARTITIONS FOR PHYSICALLY-HANDICAPPED PERSONS

- A. Partitions for toilets for use by the physically-handicapped shall be similar to those in the paragraph above and shall conform to requirements of the California Code of Regulations, Title 24. Partition construction and anchors shall be adequately reinforced and supported to withstand loads imposed on partition mounted grab bars. Doors shall be swing-out self-closing type and shall provide not less than 2 feet 8 inches clear opening for front entry doors and 2 feet 10 inches clear opening for side entry doors.

2.3 MATERIALS

- A. **General:** Materials shall be provided which have been selected for surface flatness and smoothness. Exposed surfaces which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core materials, or imperfections in the finished units shall not be acceptable.
- B. Toilet compartments and urinal screen materials shall conform to the following requirements:
 - 1. Partitions and doors shall be 1-inch thick, flush construction, composed of two sheets of steel with formed edges and manufacturer's standard sound-deadening honeycomb core of impregnated Kraft paper. Partitions and door corners shall be secured with a formed stainless steel corner clip.
 - 2. Pilasters shall be 1-1/4-inch thick, flush construction, composed of two sheets of steel with formed edges and bonded to manufacturer's standard sound-deadening honeycomb core of impregnated Kraft paper. Pilasters shall be integrally rolled and shall be provided with concealed, full-galvanized, anchoring and leveling devices.
 - 3. Urinal screens shall be 1-inch thick, reinforced edged, flush construction screens fabricated similar to the partitions. Urinal screens shall be not less than [18][24] inches deep by [8][4] feet in height.

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NTS: Choose from the items below for porcelain enamel or stainless steel finished units.

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- [4. Steel sheets for baked enamel finish shall conform to ASTM A 591, Class C, galvanized-bonderized, of the following minimum thicknesses:

Pilasters (overhead-braced): 20 gauge

Pilasters (unbraced): 16 gauge

Panels and Screens: 20 gauge

Doors: 22 gage]

- [4. Stainless steel sheets shall conform to ASTM A 167, Type 302/304, finished on exposed faces with No. 3 minimum directional polish, in the following minimum thicknesses:

Pilasters (overhead-braced): 18 gauge

Pilasters (unbraced): 18 gauge

Doors, Panels and Screens: 20 gauge]

5. Pilaster shoes shall conform to ASTM A 167, Type 302/304 stainless steel, not less than 3 inches high, 20 gauge, finished to match hardware.
6. Stirrup brackets shall be manufacturer's standard design for attaching panels to walls and pilasters, either chromium-plated, non-ferrous cast alloy or anodized aluminum.
7. Hardware and accessories shall be manufacturer's standard design, heavy-duty operating hardware and accessories of chromium-plated, non-ferrous cast alloy.
8. Exposed anchorages and fasteners shall be manufacturer's standard exposed fasteners of stainless steel, chromium-plated steel, or finished to match hardware with theft-resistant type heads and nuts.
9. Concealed anchors shall be hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel. Concealed anchorage reinforcement shall be minimum 12-gauge galvanized steel sheet. Concealed tapping reinforcement shall be minimum 14-gauge galvanized steel sheet.

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NTS: Delete below if no overhead-braced toilet partitions are required.

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10. Overhead bracing shall be continuous extruded aluminum tubing in anti-grip profile, with clear anodized finish.

- C. Toilet partitions shall be [floor mounted, overhead braced] [ceiling hung] type. Colors shall be as selected by the CONSTRUCTION MANAGER from the manufacturer's standards. Toilet partitions and urinal screens shall be [baked enamel steel] [stainless steel].

2.4 FABRICATION

- A. **General:** CONTRACTOR shall furnish standard doors, panels, screens, and pilasters fabricated for partition system, unless otherwise indicated. Units shall be furnished with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. Seamless face sheets shall be pressure laminated to core materials and edges shall be sealed with a continuous interlocking strip or with lapped and formed edges. Edges and corners shall be welded, with exposed welds ground smooth.

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NTS: Select one each from the following "C" and "D" configurations.

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- [C. **Floor-Supported, Overhead-Braced Partitions:** CONTRACTOR shall furnish galvanized steel supports and leveling bolts at pilasters, as recommended by the manufacturer to suit floor conditions. Provisions shall be made for setting and securing continuous aluminum overhead-bracing tube at top of each pilaster. Shoe shall be furnished at each pilaster to conceal supports and leveling mechanism.]
- [C. **Ceiling-Hung Partitions:** CONTRACTOR shall furnish galvanized steel anchorage devices, complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters, to permit connection to structural support above finished ceiling. Devices shall be furnished which are designed to support pilasters from structure without transmitting load to the ceiling finish. Top trim pieces shall be furnished which are 3-inch high stainless steel, finished to match hardware, at each pilaster.]
- [D. **Wall-Hung Screens:** CONTRACTOR shall furnish panel units in sizes indicated, of the same construction and finish as the partition system panels.]
- [D. **Floor-Supported Screens:** CONTRACTOR shall furnish pilasters not less than 1-inch in thickness, with panels and pilasters of the same construction and finish as toilet partitions. CONTRACTOR shall furnish galvanized steel anchorage devices, complete with threaded rods, lock washers, and leveling adjusting nuts at pilasters, to permit structural connection to the floor. A shoe shall be furnished at each pilaster to conceal supports and leveling mechanism.]

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NTS: Delete following Section 2.5 if baked enamel finish is not employed and stainless steel is used exclusively.

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2.5 BAKED ENAMEL FINISH

- A. Steel shall be galvanized and bonderized with nominal zinc coating on each side.
- B. Steel shall be cleaned after fabrication and before application of enamel coating system, to remove processing compounds, oils, and other contaminants. Steel shall then be given one coat of baked-on, rust-inhibitive primer.
- C. Manufacturer shall then apply two coats of thermosetting enamel finish, applied by electrostatic process, and baked in a controlled, dust-free atmosphere, in accordance with paint manufacturer's instructions.

2.6 HARDWARE

- A. All applied hardware and exposed fittings and fasteners shall be stainless steel or high polished chromium plated rust-proof alloy. Wall and pilaster brackets and stirrup brackets may be heavy extruded aluminum, heat treated, etched and anodized finish. All doors shall have loafer rails and horizontal braces. Hardware shall be provided and shall consist of not less than the following:
 - 1. Hinges: Hinges shall be of cutout inset type, adjustable to hold door open at any angle up to 90 degrees. Operation shall be gravity type, spring-action cam type, or concealed torsion rod type, to suit manufacturer's standards.
 - 2. Latch and Keeper: CONTRACTOR shall provide manufacturer's standard surface-mounted latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.
 - 3. Coat Hook: Manufacturer's standard unit, combination hook and rubber-tipped bumper. Out-swinging doors shall be equipped with hook/bumper on inside and outside faces.
 - 4. Door Pull: Manufacturer's standard unit.

2.7 MANUFACTURERS

- A. Toilet partitions and urinal screens shall be products of the same manufacturer.
- B. Products shall be manufactured by one of the following (or equal):
 - 1. Accurate Partitions Incorporated
 - 2. All American Metal Corp.
 - 3. American Sanitary Partition Corp.
 - 4. Ampco Products, Inc.
 - 5. Knickerbocker Partition Corp.
 - 6. Sanymetal Products Co.
 - 7. Global Steel Products Corp.

PART 3 -- EXECUTION

3.1 TOILET COMPARTMENTS AND URINAL SCREENS

- A. **General:** Job dimensions and conditions shall be verified prior to submittal of shop drawings to make sure of installation and sizing requirements.
- B. CONTRACTOR shall comply with manufacturer's recommended procedures and installation sequences.
- C. Partitions shall be erected to line, plumb, and level. Each component or screen shall be rigidly secured to floor, walls, or ceiling supports and backings and to each adjoining member, by use of toggle bolts, screws, and expansion shields to ensure permanent anchoring. No wood plugs shall be allowed. Full finished cap nuts shall be used in all exposed positions. Expansion bolts installed into floor surfaces shall be stainless steel.
- D. Each partition shall be secured to walls and pilasters with not less than 2 stirrup brackets. Only minimum clearance between partition panel and pilaster shall be accepted.
- E. Doors shall have uniform clearance not to exceed 3/16-inch at vertical edges from top to bottom.

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NTS: Select one of the following "F" configurations.

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- [F. **Overhead-Braced Partitions:** Installer shall secure pilasters to floor and level, plumb, and tighten the installation with devices furnished. Overhead-braces shall be secured to each pilaster with not less than two fasteners. Doors shall be hung and adjusted so that tops of doors are parallel with overhead-braces when doors are in the closed position.]
- [F. **Ceiling-Hung Partitions:** Installer shall secure pilasters to the supporting structure and level, plumb, and tighten the installations with devices furnished. Doors shall be hung and adjusted so that the bottoms of doors are level with bottoms of pilasters when doors are in the closed position.]
- G. **Screens:** Screens shall be attached with concealed anchoring devices, as recommended by the manufacturer to suit the supporting structure. Units shall be set to provide support and to resist lateral impact.
- H. **Hardware:** Hardware and accessories shall be mounted to partition units in accordance with manufacturer's instructions. All items shall be neatly installed with necessary fastenings with matching finish. Hinges shall be properly set for swings indicated.

3.2 ADJUST AND CLEAN

- A. Exposed surfaces of partition system shall be thoroughly cleaned using materials and methods recommended by the manufacturer. Protection shall be provided as may be required to prevent damage during the remainder of the construction period.

- B. Field touch-up of scratches or defaced finish will not be permitted. Damaged, scratched or marred or otherwise defective materials will be rejected, and shall be replaced with new materials.

- C. **Hardware Adjustment:** Hardware shall be adjusted and lubricated for proper operation. Hinges shall be set on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Hinges on out-swinging doors and entrance swing doors shall be set to return to fully closed position.

** END OF SECTION **