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UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are NOT in agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags

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DIVISION 10 - SPECIALTIES

SECTION 10 21 13.00 40

TOILET COMPARTMENTS

04/06

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Locations and dimensions of the partitions, doors, pilasters, screens, and door swings

Heights of the bottoms of enclosures and screens above the floor

Method of support to be employed, using details where needed for clarity

Provisions for attaching hardware to partitions

A schedule to identify the finish and color to be used

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

PART 1 GENERAL

NOTE: Army buildings not excluded by TI 800-01 Design Criteria will be accessible in accordance with 36 CFR 1191, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

Drawings will indicate location, dimensions, schedules, elevations, details, and such other information as required to indicate the extent of the work.

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the

reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ALUMINUM ASSOCIATION (AA)

AA DAF-45 (2003) Designation System for Aluminum Finishes

ASTM INTERNATIONAL (ASTM)

ASTM A 123/A 123M (2002) Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A 167 (2004) Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip

ASTM A 336/A 336M (2005) Standard Specification for Alloy Steel Forgings, for Pressure and High-Temperature Parts

ASTM A 385 (2005) Standard Practice for Providing High-Quality Zinc Coatings (Hot-Dip)

ASTM A 653/A 653M (2004a) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM B 221 (2005) Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM B 221M (2005) Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes [Metric]

ASTM B 36/B 36M (2001) Standard Specification for Brass Plate, Sheet, Strip, and Rolled Bar

ASTM B 456 (2003) Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

ASTM B 86 (2004e2) Standard Specification for Zinc

and Zinc-Aluminum Alloy Foundry and Die Castings

ASTM D 2092

(2001) Standard Guide for Preparation of Zinc-Coated (Galvanized) Steel Surfaces for Painting

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

CID A-A-60003

(Basic) Partitions, Toilet, Complete

SAE-AMS-QQ-C-320

(2000) Chromium Plating (Electrodeposited)

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

36 CFR 1191

Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities

1.2 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.][for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for

the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Submit [Fabrication Drawings](#) in accordance with paragraph entitled, "General Information," of this section.

Submit [Installation Drawings](#) [; G] [; G, [____]] for metal toilet partitions and urinal screens in accordance with the paragraph entitled, "Installation," of this section.

SD-03 Product Data

Submit Manufacturer's catalog and technical data for the following items:

[Toilet Partition System](#) [; G] [; G, [____]]
[Cleaning and Maintenance Instructions](#)
[Colors And Finishes](#)
[Galvanized Steel Sheet](#)
[Sound Deadening Cores](#)
[Partition Panels and Doors](#)
[Anchoring Devices and Fasteners](#)
[Hardware and Fittings](#)
[Brackets](#)
[Door Hardware](#)
[Ceiling-Hung Partitions](#)
[Floor-Anchored Partitions](#)
[Overhead-Braced Partitions](#)

SD-04 Samples

Submit [Colors and Finishes](#) [; G] [; G, [____]]

Submit Manufacturer's [standard color charts](#) and color samples

Submit three samples of fabrication of [Partition Panels](#) showing a finished edge on two adjacent sides and core construction, each not less than [304.8 millimeter](#) 12-inch square

Submit three of each item of [Hardware and Fittings](#) and [Anchoring Devices and Fasteners](#)

Approved hardware samples may be installed in the work if properly identified.

SD-07 Certificates

Provide [Certification](#) of product quality by the Contractor in accordance with paragraph entitled, "Quality Assurance," of this section.

1.3 DELIVERY, HANDLING, AND STORAGE

Protect materials from weather, soil, and damage during delivery, storage, and construction.

Deliver materials in the original, unopened packages or containers bearing

the brand name and the name of the material.

1.4 FIELD MEASUREMENTS

Take Field measurements prior to the preparation of drawing and fabrication to ensure proper fits.

1.5 GENERAL INFORMATION AND SYSTEM DESCRIPTION

Toilet partition system, including toilet enclosures, room entrance screens, and urinal screens, shall be a complete and usable system of panels, hardware, and support components. The Contractor shall comply with EPA requirements for recycled, recovered, Affirmative Procurement guidelines. Provide the partition system from a single manufacturer, with a standard product as shown in the most recent catalog data.

Submit Fabrication Drawings for metal toilet partitions and urinal screens consisting of fabrication and assembly details to be performed in the factory. Submit manufacturer's Cleaning and Maintenance Instructions with Fabrication Drawings for review.

1.6 QUALITY ASSURANCE

Provide Certification or warranties that metal toilet partitions will be free of defects in materials, fabrication, finish, and installation and will remain so for a period of not less than [_____] years after completion.

PART 2 PRODUCTS

NOTE: Painted metal (Finish 1) toilet enclosures, urinal screens, and room entrance screens are suitable for use in installations where the partitions are subjected to normal usage and exposure conditions. Laminated plastic (Finish 3) toilet partitions will not be used where severe water conditions will be encountered, such as where cleaning is to be performed by spraying water.

Where toilet partitions are indicated for hard usage or severe exposure areas, finishes other than painted metal (Finish 1) or laminated plastic (Finish 3) should be specified when their high initial cost can be justified through life cycle cost. The least expensive painted metal finish is generally the least durable of the finishes listed in CID A-A-60003. Laminated plastic (Finish 3) costs more than the painted metal and less than stainless steel (Finish 2), solid phenolic (Finish 4), or solid polyethylene (Finish 5). Laminated plastic (Finish 3) finishes are hard and smooth; resistant to wear, scratches, periodic moisture, impact, acids and alkalines, and cigarette burns.

Next to stainless steel (Finish 2), the solid plastics (phenolic and polyethylene) are the most durable finishes available. When finishes other than painted metal (Finish 1) are being considered, laminated plastic (Finish 3) should be the next

logical choice, followed by solid plastics and stainless steel (Finish 2), and solid phenolic (Finish 4). Polyethylene (Finish 5), stainless steel (Finish 2), and solid phenolic (Finish 4) are highly resistant to humidity, steam, detergents, cleaning chemicals and corrosion. Interior fire and smoke finish classification must be addressed when materials other than metal partitions are being considered. Edit the following paragraphs for styles and finishes.

Generally, floor-supported enclosures, Style A, will be used; and overhead braced enclosures, Style C, and overhead braced-alcove, Style F, will be used when pilasters cannot be anchored into minimum 76 mm 3 inch thick structural concrete. Ceiling hung enclosures, Style B, will be used only when the additional cost is justified for reasons of sanitation or appearance. Ceiling hung enclosures, Style B, are not recommended by manufacturers when ceiling height is greater than 2590.8 mm 8 feet 6 inch. Urinal screens, when deemed necessary, may be any of the 6 styles available, but the floor to ceiling hung screen, Style D, is the most justifiable for reasons of cost and sanitation. Type II, Style D, room entrance screens are generally the most durable style due to the floor to ceiling post support design. Edit as needed to meet project requirements.

If ceiling hung enclosures are to be used, details showing the structural steel channel support system should be shown on the drawings. This section should be coordinated with Section 10 28 00.00 40 TOILET ACCESSORIES and the drawings regarding toilet enclosures which will have partition-mounted accessories attached to the panels.

2.1 GALVANIZED STEEL SHEET

Galvanized steel sheet must be cold-rolled, stretcher-level, commercial quality material conforming to, [ASTM A 653/A 653M](#). Surface preparation of material for painting shall conform to [ASTM D 2092](#), Method A.

2.2 SOUND-DEADENING CORES

Sound deadening must consist of treated kraft paper honeycomb cores with a cell size of not more than [25.4 millimeter 1 inch](#). Resin-material content must weigh not less than 11 percent of the finished core weight. Expanded cores must be faced on both sides with kraft paper.

2.3 PARTITION PANELS AND DOORS

[Partition Panels](#) and doors must be not less than [25.4 millimeter 1 inch](#) thick with face sheets not less than [1.006 millimeter 0.0396 inch](#) thick.

Conform Toilet enclosures to CID A-A-60003, Type I, Style [A, floor anchored] [B, ceiling hung braced] [C, overhead braced] [F, overhead

braced-alcove]. Width, length, and height of toilet enclosures shall be as shown. Finish surface of panels must be [painted metal, Finish 1] [laminated plastic, Finish 3] [_____]. Panels indicated to receive toilet paper holders or grab bars must be reinforced for mounting of the items required. Grab bars must withstand a bending stress, shear stress, shear force, and a tensile force induced by 1112 N 250 lbf. Grab bars must not rotate within their fittings.

NOTE: Length and height of room entrance screens
will be shown on the drawings, using standard size
panels and pilasters to the maximum extent
practicable.

Conform Room Entrance Screens to CID A-A-60003, Type II, Style [A, floor anchored] [B, ceiling hung braced] [C, overhead braced] [D, wall hung] [_____]. Finish surface of screens must be [painted metal, Finish 1] [laminated plastic, Finish 3] [_____]. Length and height of screens shall be as shown.

2.4 METAL PARTITION FABRICATION

Fabricate metal [Partition Panels](#), doors, screens, and pilasters required for the project from galvanized-steel face sheets with formed edges. Face sheets must be pressure-laminated to the sound-deadening core with edges sealed with a continuous locking strip and corners mitered and welded. Ground all Welds smooth. Provide concealed reinforcement for installation of hardware, fittings, and accessories. Surface of face sheets must be smooth and free from wave, warp, or buckle.

Before application of an enamel coating system, solvent-clean galvanized-steel surfaces to remove processing compounds, oils, and other contaminants harmful to coating-system adhesion. After cleaning, coat the surfaces with a metal-pretreatment phosphate coating. After pretreatment, finish exposed galvanized-steel surfaces with a baked-enamel coating system as specified.

Provide an Enamel coating system consisting of a factory-applied baked acrylic enamel coating system. Coating system must be a durable, washable, stain-resistant, mar-resistant finish.

2.5 [COLORS AND FINISHES](#)

2.5.1 Colors

NOTE: In areas where a high degree of damage, corrosion, and frequent replacement has been experienced or where, for reasons of sanitation or appearance, additional cost is justified, partition finishes should be selected on the basis of Life Cycle Cost Analysis (LCC). The LCC analysis should be performed for a period of not less than ten years. For any project requiring non-combustible partitions, panels, screens, or door finishes, exclude Finish No. 5.

Color of finishes for toilet partition system components must be manufacturer's [standard color charts](#).

2.5.2 Finishes No. 1 Through No. 3

Conform partitions, panels, screen, and door finishes to [CID A-A-60003](#) finished with [Finish No. 1, baked enamel] [Finish No. 2, stainless steel] [Finish No. 3, laminated plastic].

2.5.3 Finishes No. 4 and No. 5

Solid plastic fabricated of [solid phenolic core with melamine facing sheets] [or] [polymer resins (polyethylene)] formed under high pressure rendering a single component section not less than 25.4 millimeter [one inch](#) thick. Colors must extend throughout the panel thickness. Exposed finish surfaces must be smooth, waterproof, non-absorbent, and resistant to staining and marking with pens, pencils, or other writing devices. Solid plastic partitions must not show any sign of deterioration when immersed in the following chemicals and maintained at a temperature of [26.67 degrees C](#) [80 degrees F](#) for a minimum of 30 days:

Acetic Acid (80 percent)	Hydrochloric Acid (40 percent)
Acetone	Hydrogen Peroxide (30 percent)
Ammonia (liquid)	Isopropyl Alcohol
Ammonia Phosphate	Lactic Acid (25 percent)
Bleach (12 percent)	Lime Sulfur
Borax	Nicotine
Brine	Potassium Bromide
Caustic Soda	Soaps
Chlorine Water	Sodium Bicarbonate
Citric Acid	Trisodium Phosphate
Copper Chloride	Urea; Urine
Core Oils	Vinegar

2.6 [ANCHORING DEVICES AND FASTENERS](#)

Steel anchoring devices and fasteners must be hot-dipped galvanized after fabrication in conformance with [ASTM A 385](#) and [ASTM A 123/A 123M](#). Conceal all galvanized anchoring devices.

2.7 [HARDWARE AND FITTINGS](#)

2.7.1 Materials

Hardware for the toilet partition system must conform to [CID A-A-60003](#) for the specified type and style of partitions. Hardware finish must be highly resistant to alkalines, urine, and other common toilet room acids. Latching devices and hinges for handicap compartments must comply with [36 CFR 1191](#) and must be [chrome-plated steel] [or] [stainless steel] door latches that operate without either tight grasping or twisting of the wrist of the operator.

[Conform cold-rolled sheet steel to [ASTM A 336/A 336M](#), commercial quality.]

[Zinc-base alloy must conform to [ASTM B 86](#), Alloy AC41-A.]

[Brass must conform to [ASTM B 36/B 36M](#), Alloy C26800.]

[Aluminum must conform to ASTM B 221M ASTM B 221.]

[Corrosion-resistant steel must conform to ASTM A 167, Type [302] [304].]

2.7.2 Finishes

[Chrome plating must conform to ASTM B 456.]

[Finish must conform to SAE-AMS-QQ-C-320, Class I, Type [I] [II].]

[Aluminum must have a clear anodic coating conforming to AA DAF-45.]

[Corrosion-resistant steel must have a No. 4 finish.]

[Exposed fasteners must match the hardware and fittings.]

2.8 BRACKETS

Wall brackets must be two-ear panel brackets, T-style, 25.4 millimeter 1-inch stock.

Panel-to-pilaster brackets be stirrup style.

2.9 DOOR HARDWARE

Hinges must be self-lubricating with the indicated swing.

Hinges must [be the surface-mounted type] [be the cutout-insert type] [have the following type of return movement:

[Gravity return movement]

[Spring-action cam return movement]

[Torsion-rod return movement]]

Hinge must be adjustable to hold in-swinging doors open at any angle up to 90 degrees and outswinging doors to 10 degrees.

Latch and pull must be a combination rubber-faced door strike and keeper equipped with emergency access.

Coat hooks must be combination units with hooks and rubber tipped pins.

2.10 CEILING-HUNG PARTITIONS

NOTE: Delete the paragraph heading and the
following paragraph if ceiling-mounted partitions
are not required.

Pilasters must be not less than 31.75 millimeter 1-1/4 inch thick with face sheets not less than 1.613 millimeter 0.0635 inch thick. Anchoring device at the top of the pilaster must be welded to the reinforced face sheets and must have not less than two 9.525 millimeter 3/8 inch round threaded rods, lock washers, and leveling-adjustment nuts. Anchoring device must be designed to transmit the strain and loading on the pilaster directly to the structural support above without putting strain or loading on the finished

ceiling. Trim piece at the top of the pilaster must be 76.2 millimeter 3 inch high and fabricated from not less than 0.762 millimeter 0.030 inch thick stainless steel.

2.11 FLOOR-ANCHORED PARTITIONS

NOTE: Delete the paragraph heading and the following paragraph if floor-supported partitions are not required.

Pilasters must be not less than 31.75 millimeter 1-1/4 inch thick with face sheets not less than 0.0635 inch 1.613 millimeter thick. Anchoring device at the bottom of the pilaster to consist of a steel bar not less than 12.700 by 22.225 millimeter 1/2 by 7/8 inch welded to the reinforced face sheets and must have not less than two 9.525 millimeter 3/8 inch round anchorage devices for securing to the floor slab. Provide Anchorage devices complete with threaded rods, expansion shields, lock washers, and leveling-adjustment nuts. Trim piece at the floor must be 76.2 millimeter 3 inch high and fabricated from not less than 0.762 millimeter 0.030 inch thick corrosion-resistant steel.

2.12 OVERHEAD-BRACED PARTITIONS

NOTE: Delete the paragraph heading and the following paragraph if overhead-braced partitions are not required.

Pilasters must be not less than 31.75 millimeter 1-1/4 inch thick with face sheets not less than 1.0 millimeter 0.0393 inch thick. Provide Anchoring device at the bottom of the pilaster consisting of a channel-shaped floor stirrup fabricated from not less than 0.0635 inch 1.613 millimeter thick material and a leveling bolt. Stirrup must be secured to the pilaster with not less than a 4 millimeter 4.763 millimeter 3/16 inch bolt and nut after the pilaster is leveled. Stirrup must be secured to the floor with not less than two lead expansion shields and sheetmetal screws. Overhead brace must be fabricated from a continuous extruded aluminum tube not less than 25.4 millimeter 1 inch wide by 38.1 millimeter 1-1/2 inch high, 3.175 millimeter 0.125-inch wall thickness. Finish must be AA-C22A31 in accordance with AA DAF-45. Set and secure Brace into the top of each pilaster. Trim piece at the floor must be 76.2 millimeter 3 inch high and fabricated from not less than 0.762 millimeter 0.030 inch thick corrosion-resistant steel.

2.13 SCREENS

NOTE: Delete the paragraph heading and the following paragraphs when screens are not required.

Select the type of screen required.

2.13.1 Entrance Screen

NOTE: Length and height of room entrance screens will be shown on the drawings, using standard size panels and pilasters to the maximum extent practicable.

Conform room entrance screens to CID A-A-60003, Type II, Style [A, floor supported] [E, wall hung] [_____]. Finish surface of screens must be [painted metal, Finish 1] [laminated plastic, Finish 3] [_____]. Length and height of screens to be as shown.

Fabricate Screens from the same types of panels, pilasters, and fittings as the toilet partitions.

2.13.2 Urinal Screens

NOTE: Use of urinal screens between individual urinals will be dependant on the function of the facility. Use of urinal screens will normally be limited to those applications where sanitary protection is required, such as between a urinal and an immediately adjacent lavatory. Style A screens should normally be between 609.6 to 914.4 mm 24 to 36 inch. Style E screens should normally be between 457.2 to 609.6 mm 18 to 24 inch Wide. Wall hung, Style E, urinal screens will be used only where the supporting construction is masonry or concrete. Where high use is expected, choose the last bracketed sentence.

Conform Urinal Screens to CID A-A-60003, Type III, Style [A, floor supported] [B, ceiling hung] [C, overhead braced] [D, floor to ceiling hung] [E, floor to ceiling post supported] [F, wall hung with mounting brackets] [G, wall hung with flanges] [H, ceiling hung]. Finish surface of screens must be [painted metal, Finish 1] [laminated plastic, Finish 3] [_____]. Width and height of urinal screens to be as shown. Secure wall hung urinal screens with [a minimum of three wall stirrup brackets.] [1066.8 mm 42 inch long, continuous flanges.]

Screens must be fabricated from the same types of panels and pilasters as the toilet partitions. Fittings and fasteners must be corrosion-resistant steel.

PART 3 EXECUTION

3.1 INSTALLATION

Install Partitions rigid, straight, plumb, and level, with the panels centered between the fixtures. Contractor must provide a panel clearance of not more than 12.7 millimeter 1/2 inch and secure the panels to walls and pilasters with not less than two wall brackets attached near the top and bottom of the panel. Locate Wall brackets so that holes for wall bolts occur in masonry or tile joints. Secure Panels to pilasters with brackets matching the wall brackets.

NOTE: Select anchorage devices for types of wall

construction as required.

Secure panels to hollow plastered walls with toggle bolts using not less than M6x1 1/4-20 screws of the length required for the wall thickness. Toggle bolts must have a load-carrying strength of not less than 2668.9 newton 600 pounds per anchor.

Secure panels to ceramic tile on hollow plastered walls or hollow concrete-masonry walls with toggle bolts using not less than M6x1 1/4-20 screws of the length required for the wall thickness. Toggle bolts must have a load-carrying strength of not less than 2668.9 newton 600 pounds per anchor.

Secure panels to solid masonry or concrete with lead or brass expansion shields designed for use with not less than M6x1 1/4-20 screws, with a shield length of not less than 38.1 millimeter 1-1/2 inch. Expansion shields must have a load-carrying strength of not less than 2668.9 newton 600 pounds per anchor.

Submit Installation Drawings for metal toilet partitions and urinal screens showing plans, elevations, details of construction, hardware, reinforcing and blocking, fittings, mountings and escutcheons. Indicate on drawingsthe type of partition, location, mounting height, cutouts, and reinforcement required for toilet-room accessories.

3.2 CEILING-HUNG PARTITIONS

NOTE: Delete the paragraph heading and the following paragraph if ceiling-mounted partitions are not required.

Secure pilasters to the structural support above with the anchorage device specified. Make all Leveling devices readily accessible for leveling, plumbing, and tightening the installation. Bottoms of doors must be level with bottoms of pilasters when doors are in a closed position.

3.3 FLOOR-ANCHORED PARTITIONS

NOTE: Delete the paragraph heading and the following paragraph if floor- anchored partitions are not required.

Secure pilasters to the floor with the anchorage device specified. Make all Leveling device s readily accessible for leveling, plumbing, and tightening the installation. Tops of doors must be level with tops of pilasters when doors are in a closed position. Expansion shields must have a minimum 50.8 millimeter 2-inch penetration into the concrete slab.

3.4 OVERHEAD-BRACED PARTITIONS

NOTE: Delete the paragraph heading and the following paragraph if overhead-braced partitions are not required.

Secure pilasters to the floor with the anchorage device specified. Make all Leveling device s readily accessible for leveling, plumbing, and tightening the installation. Overhead brace must be secured to the pilaster face with not less than two fasteners per face. Expansion shields must have a minimum 50.8 millimeter 2-inch penetration into the concrete slab.

Tops of doors must be parallel with the overhead brace when doors are in a closed position.

3.5 FINAL ADJUSTMENTS

After completion of the installation, the Contractor must make final adjustments to the pilaster-leveling devices, door hardware, and other working parts of the partition assembly.

3.6 CLEANING

Clean all surfaces of the work and adjacent surfaces soiled as a result of the work in an approved manner compliant with the manufacturer's recommended cleaning procedures. Remove all equipment, tools, surplus materials, and work debris from the site.

-- End of Section --