
USACE / NAVFAC / AFCEA UFGS-10615 (August 2004)

Preparing Activity: USACE Superseding
UFGS-10615A (October 2003)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 25 June 2004

Latest change indicated by CHG tags

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SECTION 10615

DEMOUNTABLE PARTITIONS 08/04

NOTE: This guide specification covers the requirements for ceiling height demountable gypsum board panel or metal faced panel partitions.

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: Demountable partitions should be used in areas susceptible to future partition rearrangement or particularly in areas where the demolition process and the rebuilding of standard gypsum board and stud partitions may disrupt normal office activities.

Partition layouts on the drawings must show partition dimensions, nominal sizes for doors, glazing panels, sound-resistance and fire-resistance when required, details and any other information pertinent to partition layouts. Partition layout should be based on module configuration to allow for maximum reusability.

Designer should require materials, products, and innovative construction methods and techniques which are environmentally sensitive, take advantage of recycling and conserve natural resources.

1.1 REFERENCES

NOTE: Issue (date) of references included in project specifications need not be more current than provided by the latest guide specification. Use of SpecsIntact automated reference checking is recommended for projects based on older guide specifications.

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.

ASTM INTERNATIONAL (ASTM)

ASTM C 36	(1997) Gypsum Wallboard
ASTM C 442	(1998) Gypsum Backing Board and Coreboard
ASTM E 119	(2000a) Fire Tests of Building Construction and Materials
ASTM E 413	(1987; R 1999) Rating Sound Insulation
ASTM E 72	(2002) Conducting Strength Tests of Panels for Building Construction
ASTM E 84	(2003) Surface Burning Characteristics of Building Materials
ASTM E 90	(2002) Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

1.2 SUBMITTALS

NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item should be required.

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 projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy 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.] The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Demountable Partition System.

Drawings indicating plans and elevations of demountable partitions, details of required supports, adjacent construction and finish trim, finish of miscellaneous components and accessories, and type of partition finish.

SD-03 Product Data

Demountable Partition System.

Descriptive data, including catalog cuts indicating compliance with requirements of this section and manufacturer's published installation and maintenance recommendations.

SD-04 Samples

Demountable Partition System.

[Three] [_____] 200 x 200 mm 8 x 8 inch samples of partition showing partition construction and indicating materials proposed and method of attaching partition to walls, floor, and ceiling. [Three] [_____] color samples.

SD-07 Certificates

Fire-Resistance Rating and Burning Characteristics.
Acoustical Performance.
Structural Performance.

Test reports from an independent laboratory certifying that the demountable partitions meet the specified [[fire-resistance rating] [and] [acoustical performance]] [and] [structural performance].

1.3 PERFORMANCE REQUIREMENTS

**NOTE: Fire-resistance and acoustical performance
are optional choices for designer; edit accordingly.**

1.3.1 Fire-Resistance Rating and Burning Characteristics

Fire-resistance rating for demountable partitions shall be [one-hour] [_____] and in conformance with ASTM E 119. Partition system shall have a Class A (under 25) Flame Spread Rating in conformance with ASTM E 84.

1.3.2 Acoustical Performance

Sound-rated partition assemblies shall have a minimum Sound Transmission Coefficient (STC) of [36] [42] [_____] . STC range shall be determined in accordance with Sound Transmission Test by Two-Room Method and reported in accordance with ASTM E 90 or ASTM E 413 for frequency data. Tested assembly shall have been assembled in the same manner that the demountable partitions will be installed on the project.

1.3.3 Structural Performance

Demountable partitions shall be able to [sustain a 1200 Pa 5 psf minimum transverse loading] [support the design hung workstation components] with panel deflection no greater than 1/120th of the vertical span when tested in accordance with ASTM E 72.

1.4 QUALIFICATIONS

Manufacturer shall specialize in designing and manufacturing the type of demountable partition specified in this section, and shall have a minimum of [5] [_____] years of documented successful experience. Manufacturer shall have the facilities capable of meeting contract requirements, single-source responsibilities and warranty. Partition installer shall have a minimum of [5] [_____] years of documented successful experience in the installation of demountable partitions similar to the requirements of this section.

1.5 DELIVERY, STORAGE AND HANDLING

Materials shall be delivered to project site in accordance with manufacturer's instructions in original unopened and undamaged packages and stored in a clean, dry, and secure place free from damage during construction activities. Packages shall contain labels which indicate manufacturer's name, brand name, size, finish and placement location.

1.6 PROJECT/SITE CONDITIONS

Before fabrication of demountable partitions, field dimensions shall be verified and recorded on shop drawings. Fabrication schedule shall be coordinated with construction schedule and progress to avoid delay in the

work. Temperature and humidity conditions within the area to receive partitions shall be maintained as close as possible to the final occupancy standards. A minimum of 16 degrees C 60 degrees F shall be maintained continuously. Installation shall not begin until the building envelope provides complete protection from the weather.

PART 2 PRODUCTS

2.1 DEMOUNTABLE PARTITION TYPE

Demountable partition system shall consist of a series of individual, floor-supported, floor-to-ceiling [site constructed] [pre-fabricated] panels as shown. Top channel shall hold panels in place and shall accommodate a floor-to-ceiling variation. Partition system shall be complete with accessories to meet [fire-rated] [and] [acoustical performance] requirements. Demountable partition system shall provide accommodations for electrical switches and outlets. Building electrical power shall be [ceiling feed] [end mount base feed] [_____] and shall be in accordance with Section 16415A ELECTRICAL WORK, INTERIOR.

2.2 MATERIALS AND COMPONENTS

2.2.1 Partition Panels

Panels shall be manufacturer's standard [gypsum board construction with fillers as required. Gypsum boards shall be minimum 13 mm 1/2 inch thick conforming to ASTM C 36. Gypsum backing board shall conform to ASTM C 442.

Panels shall be complete with [[tongue-and-groove] [or] [panel clips] at joints to align panels] [concealed slots to support hang-on brackets and accessories. Maximum total load for bracket supports on one or both wall surfaces shall not exceed 5500 N 1240 lb]] [metal-faced panel construction with fillers or bracing as required. Metal panels shall be minimum 0.56 mm 0.0224 inch thick. Panels shall be complete with [panel connectors at joints to align panels] [concealed slots for hang-on brackets and accessories. Maximum total load for bracket supports on one or both wall surfaces shall not exceed 5500 N 1240 lb]] [welded, roll-formed, galvanized steel frame containing 70 mm 2-3/4 inch thick panels made from a mineral wool core between two 10 mm 3/8 inch gypsum sheets covered with [vinyl (wall paper)] [fabric] [_____]. The mineral wool core plus the gypsum sheets shall provide the specified acoustic and fire-resistant properties. The panel system shall meet the specified structural performance].

2.2.2 Framing System

Framing system shall consist of extruded anodized aluminum or roll-formed steel components which include ceiling runners, floor track, starting units, studs or posts, bracing, and suitable treated fasteners to prevent corrosion. Post covers shall be provided if applicable. When assembled, framing system with panels shall form a rigid, stable partition.

2.2.3 Doors and Frames

NOTE: Doors and/or windows are optional requirements. Delete if not required.

Single doors are normally available 0.91 m wide x 1.93 m or 2.13 m high (3 feet wide x 6 feet 8 inches or 7 feet high). Some manufacturers offer all sizes.

Demountable partitions shall be complete with doors and frames as shown which are fully contained with the panels. Doors shall be [unfinished] [prefinished] 45 mm 1-3/4 inch thick flush type [hollow metal] [[hollow] [solid] core [wood veneered] [plastic laminate]] of manufacturer's standard construction. Door frames shall provide a compatible appearance with other trim components, shall be a minimum 1.2 mm 0.0478 inch cold-rolled steel or minimum 1.7 mm 0.065 inch thick extruded anodized aluminum constructed to incorporate a cushion door stop at the head and both jambs. Frames shall allow for variations in floor level.

2.2.4 Door Hardware

Hardware for doors shall be in accordance with Section 08710 DOOR HARDWARE, except doors shall receive 1-1/2 pair of 114 x 114 mm 4-1/2 x 4-1/2 inch butts. Hardware cutouts and reinforcement shall be provided as required in doors and frames for hardware furnished.

2.2.5 Windows

Demountable partitions shall be complete with windows which are fully contained within the panel system. Window frames shall be sized as shown and assembled from minimum 1.7 mm 0.065 inch thick extruded anodized aluminum parts or minimum 1.2 mm 0.0478 inch cold-rolled steel and vinyl components. Window openings shall be glazed in accordance with Section 08800 GLAZING.

2.2.6 Base Trim

Base trim shall be nominal 100 mm 4 inch high without exposed fasteners. Base shall be either of the following: Snap-on vinyl cove base, clip-on metal base, adhesive-applied vinyl cove base.

2.3 FINISHES

NOTE: While painted or vinyl covered gypsum wallboard and pre-painted or vinyl covered metal faced panels are suitable for most Army construction, fabric covered tackboard, or other systems may be considered for special situations when fully justified and nonproprietary systems can be specified.

Editing of color reference sentence(s) shall be coordinated with the Government. Generally the 09915 COLOR SCHEDULE or drawing is used when the project is designed by an Architect or Interior designer. Color shall be selected from manufacturers standard colors or identified as a manufacturers color in this specification only when the project is very simple and has minimal finishes.

When the Government directs that color be located in the drawings a note shall be added that states: "Where color is shown as being specific to one manufacturer, an equivalent color by another manufacturer may be submitted for approval.

Manufacturers and materials specified are not intended to limit the selection of equal colors from other manufacturers. The word "color" as used herein includes surface color and pattern."

Prior to specifying a custom color finish, research to determine if additional cost and lead time is feasible. Note there is often a minimum order requirement; this requirement will also affect future orders.

When a manufacturer's name, stock number, pattern, and color is used, be certain that the product conforms to this specification, as edited.

[Metal faced panels shall have [enamel paint] [_____] finish.] [[Painted gypsum board panels shall be finished in accordance with Section 09900 PAINTS AND COATINGS] [Pre-applied vinyl wallcovering finish shall be Type II (Medium Duty), UL Class A conforming to ASTM E 84] [_____] Color shall be [in accordance with Section 09915 COLOR SCHEDULE.] [as indicated on the drawings.] [selected from manufacturers standard colors.] [_____] Color listed is not intended to limit the selection of equal colors from other manufacturers.]

PART 3 EXECUTION

3.1 PREPARATION

Locations scheduled to receive demountable partitions shall be inspected for compliance with manufacturer's requirements. Floor and ceiling dimensions shall be verified in accordance with approved shop drawings prior to starting the work. Floor under partitions shall be level to within 3 mm in 3048 mm, 1/8 inch in 10 feet, non-accumulative. Conditions which may adversely affect the partition installation shall be corrected before installing partitions.

3.2 INSTALLATION

Demountable partitions shall be installed in accordance with approved shop drawings and manufacturer's published instructions. The system shall be assembled and erected with the least possible drilling and cutting of existing construction and shall be capable of disassembly by means of ordinary tools. The partition installation shall be complete with accessories to meet specified requirements.

3.2.1 Doors and Windows

Doors shall be hung to swing freely and hardware shall be carefully fitted. Glass for glazed openings shall be installed on shims in a vinyl or polyurethane foam gasket. Glass stops shall be installed without exposed fastenings.

3.2.2 Wall Base

Wall base shall be installed in the longest lengths possible. Joints shall be fitted tight. Internal corners shall be mitered. Base shall be scribed to fit to door frames and other obstructions. Base shall tightly adhere to wall surfaces.

3.3 ADJUSTMENTS

Damaged partition finish and components and damaged floor and ceiling finishes shall be repaired to the original conditions or replaced.

3.4 CLEANING

Upon completion of installation, partition components and finishes shall be cleaned in accordance with partition manufacturer's recommendations. Alkaline or abrasive agents shall not be used. Precautions to avoid scratching or marring partition finish surfaces shall be exercised.

3.5 PROTECTION

Demountable partitions shall be protected from damage through the duration of construction activities.

-- End of Section --