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USACE / NAVFAC / AFCESA / NASA **UFGS-10 22 13.00 40 (April 2006)**

Preparing Activity: NASA **Superseding NASA-10605S (December 2005)**

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 18 July 2006

Revised throughout - changes not indicated by CHG tags
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04/06

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SECTION 10 22 13.00 40

WIRE MESH PARTITIONS
04/06

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NOTE: Delete, revise, or add to the text in this section to cover project requirements. Notes are for designer information and will not appear in the final project specification.

This section covers steel-wire mesh partitions, doors, and hardware.

Associated work is covered in Section 32 31 13.00 40 CHAIN LINK FENCES AND GATES.

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.

Drawings must include dimensions and locations for partitions.

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.
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PART 1 GENERAL

1.1 REFERENCES

Not Used

1.2 SUBMITTALS

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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.

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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

Fabrication Drawings shall be submitted for mesh partitions in accordance with paragraph entitled, "General," of this section.

Installation drawings shall be submitted for the following items in accordance with the paragraph entitled, "Installation," of this section.

Standard Partitions
Heavy-Duty Partitions
Sheet Metal Base Partitions
Bracing
Sliding Doors
Hinged Doors
Miscellaneous Items

SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items:

Standard Partitions
Heavy-Duty Partitions
Sheet Metal Base Partitions
Bracing
Sliding Doors
Hinged Doors
Miscellaneous Items

SD-04 Samples

Samples shall be submitted in accordance with paragraph entitled, "General," of this section.

Frames
Mesh
Accessory
Fastening Device

SD-07 Certificates

Certificates shall be submitted for mesh partitions in accordance with paragraph entitled, "General," of this section.

1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be protected from weather, soil, and damage during delivery, storage, and construction.

Materials shall be delivered in original packages, containers, or bundles bearing the brand name and the name of the material.

1.4 FIELD MEASUREMENTS

Field measurements shall be taken prior to the preparation of drawings and fabrication to ensure proper fits.

PART 2 PRODUCTS

2.1 GENERAL

Fabrication Drawings shall be submitted for mesh partitions consisting of fabrication and assembly details to be performed in the factory.

Certificates showing mesh partitions will be free of defects in materials, fabrication, finish, and installation and that they will remain so for a period of not less than [_____] years after completion.

Three samples of a Frames, not less than 300 millimeter 12-inches square, shall be submitted.

Three samples of a Mesh, not less than 300 millimeter 12-inches square, shall be submitted.

Three of each type of Accessory shall be submitted.

Three of each type of Fastening Device shall be submitted.

Approved full-sized samples may be installed in the work if they are properly identified.

Mesh partitions and components shall be of the size, type, and layout indicated and shall be the standard product of a manufacturer regularly engaged in the production of this type of equipment.

Partitions shall be a series of standard, modular, interchangeable units designed to permit interchange and rearrangement of panels, doors, gates, service windows, and corners in any combination with no loss of component parts and shall be readily disassembled, entirely or in part, for relocation.

Panels, where indicated, shall be:

[Steel-wire mesh]

[Steel-wire mesh and sheet metal base panel]

Height and width of panels shall be as indicated.

Filler panels shall be the manufacturer's standard sizes, matching the adjacent partition, to fill out runs where standard full-width panel cannot be used.

2.2 STANDARD PARTITIONS, UP TO 3048 MILLIMETER 10 FEET

Wire shall be 2.5 millimeter 10-gage steel woven into a 40 millimeter 1-1/2-inch diamond Mesh, clinched to frames.

Vertical Frames shall be 32 by 16 millimeter 1-1/4- by 5/8-inch steel C-channels with 6M (1/4 inch) 1/4 inch bolt holes 300 millimeter 12 inches on center.

Horizontal frames shall be 25 by 13 millimeter 1- by 1/2-inch steel channels.

Joints shall be mortised and tenoned.

Center reinforcing bar shall be 25 by 13 by 3 millimeter 1- by 1/2 by 1/8-inch steel channel tenoned to the side frames with wires passing through the center bar.

Top reinforcement or cap shall be a continuous 56 by 25 millimeter 2-1/4- by 1-inch steel channel with holes for 6M (1/4-inch) 1/4-inch U-bolts 700 millimeter 2 feet 4 inches on center, maximum.

Corner posts shall be 32 by 32 millimeter 1-1/4- by 1-1/4-inchsteel angles with 6M (1/4-inch) 1/4-inch bolt holes to match partition.

Floor sockets shall be 63 millimeter 2-1/2 inches high, of high-grade cast iron, and with a setscrew adjustment.

2.3 STANDARD PARTITIONS, 3048 TO 6096 MILLIMETER 10 TO 20 FEET

[Standard partitions shall be as specified.]

Flat bar posts shall have 6M (1/4-inch) 1/4-inch bolt holes to match the partition and shall be [_____] by [_____].

2.4 HEAVY-DUTY PARTITIONS, 2134 TO 6096 MILLIMETER 7 TO 20 FEET

Wire shall be 4 millimeter 6-gage steel woven into 50 millimeter 2-inch diamond mesh and clinched into frames.

Frames shall consist of 40 by 19 millimeter 1-1/2- by 3/4-inchsteel channel frames. Vertical frames shall have 10M (3/8-inch) 3/8-inch bolt holes 460 millimeter 18 inches on center. Joints shall be mortised and tenoned.

Center reinforcing bar shall consist of 38 by 19 millimeter 1-1/2- by 3/4-inch channel tenoned to side frames. Wires shall pass through the center bar.

Flat bar posts shall have 10M (3/8-inch) 3/8-inch bolt holes to match partition and shall be [_____] by [_____].

Top reinforcement or cap shall be a continuous 75 millimeter 60 newton per meter 3-inch 4.1-pound per foot steel channel with holes for 8M (5/16-inch) 5/16-inch U-bolts 700 millimeter 2 feet 4 inches on center, maximum.

Corner posts shall be 44 by 44 millimeter 1-3/4- by 1-3/4-inch steel angles with 10M (3/8-inch) 3/8-inch bolt holes to match the partition.

Floor sockets shall be 63 millimeter 2-1/2 inches high, of high-grade cast iron, and with a setscrew adjustment.

2.5 SHEET METAL BASE PARTITIONS

Sheet metal base partitions, where indicated, shall be as specified except that the top of the lower panel shall be approximately 1070 millimeter 3 feet 6 inches above the floor line and constructed of 1.6 millimeter 16-gage formed steel sheet bolted to a frame.

2.6 BRACING

Bracing of unsupported partitions shall be designed and installed at intervals not exceeding 4600 millimeter 15 feet and where indicated or required to provide lateral stability.

Bracing shall be provided by extending the structural post or equivalent member and securing it to the overhead construction.

2.7 SLIDING DOORS

Sliding doors shall be the same construction as adjacent panels and frames shall be 40 by 90 millimeter 1-1/2- by 3/4-inch steel channel with 40 by 3 millimeter 1-1/2- by 1/8-inch steel flat-bar cover all around.

[Sliding doors shall have two [2-wheel] [4-wheel] roller-bearing hangers.]

[Sliding doors shall have steel box track and bottom-guide channels.]

2.8 HINGED DOORS

Hinged doors shall be of same construction as adjacent panels and frames shall be 32 by 13 millimeter 1-1/4- by 1/2-inch steel channel with 32 by 3 millimeter 1-1/4- by 1/8-inch steel flat-bar cover on three sides and 34 by 19 by 3 millimeter 1-3/8-by 3/4- by 1/8-inch steel angle riveted to the lock side.

Doors shall have 1-1/2 pairs of ball-bearing butt hinges riveted to both the doors and the jambs.

2.9 MISCELLANEOUS ITEMS

Service windows, shelves, dutch doors, counters, and other items as required shall be the manufacturer's standard. Type and layout shall be as indicated.

Hardware shall be the manufacturer's standard, as approved.

2.10 FINISH

Finish shall be:

[Manufacturer's standard shop coat]

[Manufacturer's black enamel]

[Manufacturer's hot-dipped galvanized]

[Manufacturer's plastic finish (vinyl-clad wire, thermoplastic or thermoset polyester resins)]

PART 3 EXECUTION

3.1 INSTALLATION

Partitions shall be anchored, plumb, level, and true to line with hardware adjusted for proper operation. Installation shall be in accordance with the manufacturer's recommendations and printed instructions.

3.2 ACCEPTANCE PROVISIONS

3.2.1 Repairing

Damaged and unacceptable portions of the completed work shall be removed and replaced with new work at no additional cost to the Government.

3.2.2 Cleaning

Surfaces of the work, and adjacent surfaces soiled as a result of the work, shall be cleaned in an approved manner. Equipment, surplus materials, and rubbish from the work shall be removed from the site.

-- End of Section --