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USACE / NAVFAC / AFCEA / NASA UFGS-12 24 13 (July 2007)  
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Preparing Activity: USACE Superseding  
UFGS-12 20 00 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated January 2008

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### SECTION 12 24 13

#### ROLLER WINDOW SHADES 07/07

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NOTE: This guide specification covers the requirements for roller window shades and hardware.

Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

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).

## PART 1 GENERAL

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NOTE: Use Section 12 21 00 for WINDOW BLINDS. Use Section 12 22 00 for CURTAINS AND DRAPES

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### 1.1 REFERENCES

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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.

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

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 701

(2004) Fire Tests for Flame Propagation of Textiles and Films

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.][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

Hardware[; G][; G, [\_\_\_\_]]  
Installation

Drawings showing fabrication and installation details. Show layout and locations of track, direction of draw, mounting heights, and details.

#### SD-03 Product Data

Window Shades[; G][; G, [\_\_\_\_]]  
Hardware[; G][; G, [\_\_\_\_]]

Manufacturer's data composed of catalog cuts, brochures, product information, and maintenance instructions.

#### SD-04 Samples

Window Shades[; G][; G, [\_\_\_\_]]  
Hardware[; G][; G, [\_\_\_\_]]

Samples of each type and color of window treatment. Shade material must be minimum 150 by 150 mm6 by 6 inch in size.

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**NOTE: Coordinate with the shade hardware specified for the project.**  
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#### SD-06 Test Reports

Window Shades

Fire resistance

#### SD-08 Manufacturer's Instructions

Window Shades[; G][; G, [\_\_\_\_]]  
Hardware[; G][; G, [\_\_\_\_]]

#### SD-10 Operation and Maintenance Data

Window Shades[; G][; G, [\_\_\_\_]]  
Hardware[; G][; G, [\_\_\_\_]]

### 1.3 GENERAL REQUIREMENTS

Provide window treatment, complete with necessary brackets, fittings, and hardware. Each window treatment type must be a complete unit provided in accordance with paragraph WINDOW TREATMENT PLACEMENT SCHEDULE. Mount and operate equipment as per manufacturer's instructions. Windows to receive a treatment must be completely covered.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

Deliver components to the jobsite in the manufacturer's original packaging with the brand or company name, item identification, and project reference clearly marked. Store components in a dry location that is adequately ventilated and free from dust, water, or other contaminants and has easy access for inspection and handling. Store materials flat in a clean dry area with temperature maintained above 10 degree C 50 degrees F. Do not open containers until needed for installation unless verification inspection is required.

#### 1.5 FIELD MEASUREMENTS

Become familiar with details of the work, verify all dimensions in the field, and advise the Contracting Officer of any discrepancy before performing the work.

#### 1.6 WARRANTY

Provide manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period.

### PART 2 PRODUCTS

#### 2.1 WINDOW SHADES

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NOTE: Light filtering shades are translucent and softly diffuse light to the amount that the fabric selected by the designer allows. Room darkening (black-out) shades are opaque and block out light completely. The designer should specify a complete room darkening system only if total light block is necessary, as in an audio visual application. A room darkening shade is typically made of a vinyl coated fiberglass cloth. Do not specify cotton cambric fabric for room darkening shades since it cannot provide total light block. Coordinate maximum unit sizes available with the window sizes.  
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[Roller tube must operate smoothly and be of sufficient diameter and thickness to prevent excessive deflection. Provide brackets that are appropriate for [inside] [outside] [ceiling] mount. The shade cloth must meet the performance described in NFPA 701, small scale test. Treat steel features for corrosion resistance.]

##### 2.1.1 Light Filtering Shades

Conform light filtering shades to the following: Roller tube must be [wood] [steel] and operate by [spring] [clutch and bead operation] mechanism. Provide fascia mounting brackets made of steel to support roller tube and fascia panel. Provide fascia panel channel shaped, extruded aluminum with standard enamel finish. Provide shade made from a single piece of [PVC coated fiberglass cloth] [\_\_\_\_\_].

##### 2.1.2 Room Darkening Shades

Conform room darkening (black-out) window shades to the following:

- a. Roller tube must be aluminum, controlled by [webbing tape] [crank operated gear box with steel rods]. Provide shop fabricated light traps, consisting of a head box to house the shade roller, and U-shaped channels to serve as guides for the shade along the sides and to receive the bottom edge of the shade along the sill.
- b. Provide light trap made of sheet steel having a minimum thickness of 0.85 mm (22 gauge) 22 gauge or anodized, extruded, aluminum. The legs of the channels must be not less than 44 mm 1-3/4 inches long and separated by the minimum distance that will permit free operation of the shade. Edges of light trap coming into contact with the shade cloth must be smooth pile light seal. The exposed face of the head box must be hinged or removable for access to the shade roller. The interior or unexposed surfaces of the light trap must have a finish coat of flat black enamel. The exposed portions of the light trap must have a factory-applied [priming coat of gray paint.
- c. Finish painting is specified in Section 09 90 00 PAINTS AND COATINGS.] [anodized bronze or clear finish as shown.] Provide manufacturer's standard shade roller. Cloth must be of type for blackout purposes. Make the shade from a single piece of [canvas duck cloth laminated to vinyl] [\_\_\_\_\_]. When not finished with a selvage, the vertical edges of the shade must be bound or hemmed using a high-grade thread. Make needle holes lightproof by applying a suitable filler.
- d. Fit the bottom edge of the shade with a steel operating bar. Shades will engage positively with bottom rail through operating bar or chain pull. Paint bars with flat black enamel. Make pull cords of No. 4 braided nylon or beaded chain having not less than 335 N 175 pounds breaking strength.

## 2.2 COLOR

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NOTE: Editing of color reference sentence(s) must be coordinated with the Government. Generally, Section 09 06 90 COLOR SCHEDULE or drawings are used when the project is designed by an Architect or Interior designer. Color must be selected from manufacturer's standard colors or identified as a manufacturer's color in this specification only when the project 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."

When more than one type, pattern or color is specified identify location.

When a manufacturer's name, stock number, pattern,

and color is specified for color, be certain that  
the product conforms to the specification, as edited.

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Provide color, pattern and texture [in accordance with Section 09 06 90  
COLOR SCHEDULE.] [as indicated on the drawings.] [selected from  
manufacturer's standard colors.] [[\_\_\_\_].] Color listed is not intended to  
limit the selection of equal colors from other manufacturers.]

### PART 3 EXECUTION

#### 3.1 WINDOW TREATMENT PLACEMENT SCHEDULE

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NOTE: The Window Treatment Placement Schedule will  
be provided at the designer's option when it will  
clarify placement of the treatments. When all  
exterior windows are to receive a window treatment,  
a note can be made to this effect instead of filling  
out the schedule completely. The location should be  
clearly defined within this specification. The  
Placement Schedule will be completely filled out  
with the room number/name, window covering type,  
drapery draw type/direction, window type and  
quantity.

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[All exterior windows include [\_\_\_\_].] [Provide window covering as follows:

Room Number/Name	Window Covering Type	Drapery Draw Type/Direction	Window Type	Quantity
[____]	[____]	[____]	[____]	[____]

#### 3.2 IDENTIFICATION

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NOTE: Projects requiring large quantities of window  
treatments or a variety of window treatment types  
may need a numbering plan.

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In accordance with the numbering plan, mark each opening and the  
corresponding window treatment with identical numbers. For multiple  
windows separated by mullions, the space required by each shade must be  
numbered separately. Use brass, aluminum, plastic, durable paper plates,  
or stamp to place corresponding numbers on unexposed surfaces of openings  
and inside or on top of the mounting brackets.

#### 3.3 INSTALLATION

Perform installation in accordance with the approved detail drawings and  
manufacturer's installation instructions. Install units level, plumb,  
secure, and at proper height and location relative to window units.  
Furnish and install supplementary or miscellaneous items in total,  
including clips, brackets, or anchorages incidental to or necessary for a  
sound, secure, and complete installation. Do not start installation until  
completion of room painting and finishing operations.

### 3.4 CLEAN-UP

Upon completion of the installation, free window treatments from soiling, damage or blemishes; and adjust them for form and appearance and proper operating condition. Repair or replace damaged units as directed by the Contracting Officer. Isolate metal parts from direct contact with concrete, mortar, or dissimilar metals. Ensure shades installed in recessed pockets can be removable without disturbing the pocket. The entire shade, when retracted, must be contained inside the pocket. For shades installed outside the jambs and mullions, overlap each jamb and mullion 20 mm 0.75 inch or more when the jamb and mullion sizes permit. Include all hardware, brackets, anchors, fasteners, and accessories necessary for a complete, finished installation.

-- End of Section --