

SECTION 11132 - PROJECTION SCREENS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Front-projection screens.
- B. Related Sections include the following:
  - 1. Division 6 Section "Rough Carpentry" for wood backing for recessed screen installation.

1.3 DEFINITIONS

- A. Gain: Ratio of light reflected from or refracted by screen material to that reflected perpendicularly from a magnesium carbonate surface as determined per FS GG-S-00172D(1).
- B. Half-Gain Angle: The angle, measured from the axis of the screen surface, to the most central position on perpendicular plane through the horizontal centerline of the screen where the gain is half of the peak gain.

1.4 SUBMITTALS

- A. Product Data: For each type of screen specified.
- B. Shop Drawings: Show layout and types of projection screens. Include the following:
  - 1. Location of screen centerline relative to ends of screen case.
  - 2. Connections to suspension systems for pendant- and recess-mounted screens.
  - 3. Anchorage details.
  - 4. Details of juncture of exposed surfaces with adjacent finishes.
  - 5. Frame details.
  - 6. Accessories.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain projection screens through one source from a single manufacturer. Obtain each screen as a complete unit, including necessary mounting hardware and accessories.
- B. Coordination of Work: Coordinate layout and installation of projection screens with other construction supported by, or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system, and partitions.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver projection screens until building is enclosed, other construction within spaces where screens will be installed is substantially complete, and installation of screens is ready to begin.

## PART 2 - PRODUCTS

### 2.1 FRONT-PROJECTION SCREENS

- A. Material and Viewing Surface of Front-Projection Screens: Provide screens manufactured from mildew- and flame-resistant fabric of type indicated for each type of screen specified and complying with the following requirements:
  - 1. Matte-white viewing surface with gain characteristics complying with FS GG-S-00172D(1) for Type A screen surface.
  - 2. Material: Vinyl-coated glass-fiber fabric.
  - 3. Mildew Resistance: Provide mildew-resistant screen fabrics as determined by FS 191A/5760.
  - 4. Seamless Construction: Provide screens in sizes indicated without seams.
  - 5. Edge Treatment: Black masking borders.
  - 6. Edge Treatment: Without black masking borders.
  - 7. Provide extra drop length of dimension indicated to comply with the following requirements for fabric color and location of drop length:
    - a. Color: Black.
    - b. Location: At top of screen.
  - 8. Size of Viewing Surface: As indicated.
- B. Manually Operated Screens: Provide manufacturer's standard spring-roller-operated units designed and fabricated for wall or ceiling installation and consisting of case, screen, mounting accessories, and other components necessary for a complete installation.
  - 1. Screen Case: Fabricated in 1 piece from steel sheet not less than 0.0299 inch (0.75 mm), with flat back design and vinyl covering or baked-enamel finish. Provide end caps with integral roller brackets and universal mounting brackets, finished to match end caps, for wall or ceiling mounting.

2. Screen Mounting: Top edge securely anchored to a 3-inch- (75-mm-) diameter, rigid steel spring roller; bottom edge formed into a pocket holding a tubular metal slat, with ends of slat protected by plastic caps, and saddle and pull attached to slat by screws.
- C. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Matte-White Viewing Surfaces:
    - a. Matte White; Bretford Manufacturing, Inc.
    - b. Da-Mat; Da-Lite Screen Co., Inc.
    - c. Matte White; Da-Lite Screen Co., Inc.
    - d. Fiberglass Matte White; Draper Shade & Screen Co., Inc.
    - e. M1300; Draper Shade & Screen Co., Inc.
    - f. Panamax Seamless Matte White; Draper Shade & Screen Co., Inc.
  2. Manually Operated Front-Projection Screens:
    - a. Series 200; Bretford Manufacturing, Inc.
    - b. Series 500; Bretford Manufacturing, Inc.
    - c. Model B; Da-Lite Screen Co., Inc.
    - d. Model C; Da-Lite Screen Co., Inc.
    - e. Luma; Draper Shade & Screen Co., Inc.
    - f. Luma 2; Draper Shade & Screen Co., Inc.
    - g. Communicator; Stewart Filmscreen Corp.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. General: Install projection screens at locations indicated to comply with screen manufacturer's written instructions.
- B. Install front-projection screens with screen cases in position and relationship to adjoining construction indicated. Securely anchor to supporting substrate in a manner that produces a smoothly operating screen with vertical edges plumb and viewing surface flat when screen is lowered.
  1. Test manually operated units to verify that screen operating components are in optimum functioning condition.

### 3.2 PROTECTING AND CLEANING

- A. Protect projection screens after installation from damage during construction. If damage occurs despite such protection, remove and replace damaged components or entire unit as required to provide units in their original, undamaged condition.

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