

SECTION 11132 - PROJECTION SCREENS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Projection screens; front projected, electrically operated.

1.2 SUBMITTALS

- A. Material Safety Data (MSD): MSD Sheets are required for all materials with detailed information on content, product safety, and potentially harmful characteristics. MSD Sheets shall be submitted by Contractor to the Architect for review prior to delivery or use of such materials on the project site. Product approval will depend, in part, upon meeting the environmental requirements of this specification, based upon MSD information submitted to the Architect for review.
- B. Product Data: Submit product data for screen specified.
- C. Shop Drawings: Show layout and types of projection screens. Include the following:
 - 1. Connections to suspension systems for recess-mounted screens.
 - 2. Anchorage details.

1.3 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.

1.4 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

1.5 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 optic.
 3. Mildew Resistance: Provide mildew-resistant screen fabrics as determined by FS 191A/5760.
 4. Fire-Test-Response Characteristics: Provide projection-screen fabrics identical to materials that have been tested for flame resistance according to both small- and large-scale tests of NFPA 701.
 5. Seamless Construction: Provide screens in sizes indicated without seams.
 6. Edge Treatment: Black masking borders.
 7. Drop Length: Provide extra drop length of 4 inches.
 - a. Length of Drop: 2 feet.
 - b. Color: Black.
 - c. Location: At bottom of screen.
 8. Size of Viewing Surface: As indicated.
- B. Manually Operated Screens: Spring-roller-operated units for wall or ceiling installation and with case, screen, mounting accessories, and other components necessary for a complete installation. Screen case fabricated from steel sheet not less than 0.0299 inch, with flat back design and vinyl covering or baked-enamel finish.
1. Available Products and Manufacturers:
 - a. Model C, Heavy Duty; Da-Lite Screen Co., Inc.
 - b. Luma 2 Heavy Duty; Draper Shade & Screen Co., Inc.
- C. Electrically Operated Screens with Automatic Ceiling Closure: Units designed and fabricated for recessed installation in ceiling with bottom of case composed of 2 panels fully enclosing screen, motor, and wiring; 1 panel hinged and designed to open and close automatically when screen is lowered and fully raised, and the other panel

removable or hinged open for access to interior of case; and complying with the following requirements:

1. Screen Case with Motor in Roller: Wood or medium-density-fiberboard sides and top with metal-lined wiring compartment and aluminum or medium-density-fiberboard bottom panels, factory primed and constructed as follows:
 - a. Offset mount bottom panels so their bottom surface will align flush with adjoining ceiling and the bottom edges of case sides and ends will be recessed behind ceiling finish.
 - b. Provide single or double top as standard with manufacturer.
- D. 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; Da-Lite Screen Co., Inc.
 - b. Fiberglass Matte White; Draper Shade & Screen Co., Inc.
 2. Electrically Operated Front-Projection Screens:
 - a. Boardroom Electrol; Da-Lite Screen Co., Inc.
 - b. Envoy; Draper Shade & Screen Co., Inc.
 3. Control: Low-voltage control system consisting of a control unit with 24-V power supply and remote, 3-position switches at locations indicated with metal device boxes and cover plates for flush wall mounting.
 - a. Provide key-operated power-supply switch.

PART 3 - EXECUTION

1.6 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 electrically operated units to verify that screen, controls, limit switches, closure, and other operating components are in optimum functioning condition.

2. Test manually operated units to verify that screen operating components are in optimum functioning condition.

1.7 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.

END OF SECTION 11132