

SECTION 11132
PROJECTION SCREENS

PART 1 - GENERAL

1.01 PROVISIONS INCLUDED

- A. The general provisions of the Contract, including General and Supplementary General Conditions, and Division 1 General Requirements, apply to work specified in this Section.

1.02 SUMMARY

- A. This Section includes the following work:
1. Furnish and install one new front-projection screens, manually operated type.
 2. Move existing electrically operated screen from first floor to new location on the fourth floor.
- B. Related Work Specified in Other Sections:
1. Steel suspension system for projection screens: Section 05500, Metal Fabrications.
 2. Wood blocking and backing for recessed screen installation: Section 06100, "Rough Carpentry"
 3. Electrical wiring, connections, and installation of remote-control switches for electrically operated projection screens: Division 16 Sections

1.03 SUBMITTALS

- A. Product Data: Manufacturer's technical project literature and illustrated standard installation details.
- 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. Mounting details.
- C. Closeout Submittals:
1. Operating and maintenance instructions.
 2. Crank handle.

1.04 QUALITY ASSURANCE

- A. Source Limitations: 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, the wall or ceiling surface on which the screen is to be mounted.

1.05 DELIVERY, STORAGE, AND HANDLING

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

PART 2 - PRODUCTS

2.01 FRONT PROJECTION SCREENS

- A. Manufacturer: Subject to compliance with requirements, provide projection screens manufactured by Draper, Inc. or Stewart Filmscreen Co.
- B. Viewing Surface Material: Provide screens manufactured from mildew- and flame-resistant vinyl-coated glass-fiber fabric 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. Mildew Resistance: Provide mildew-resistant screen fabrics as determined by FS 191A/5760.
 - 3. 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.

2.02 MANUALLY OPERATED PROJECTION SCREENS

- A. General: Furnish manufacturer's standard unit, consisting of case, screen, mounting accessories, and other components necessary for a complete installation.
- B. Screen Type: Units designed and fabricated for surface mounting on wall or ceiling, in extruded aluminum case with flat back design and baked-enamel finish. Provide units with matching end caps and concealed mounting.
 - 1. Screen Mounting: Top edge securely anchored to a 3-inch-diameter, rigid steel roller; bottom edge formed into a pocket holding a tubular metal slat, with ends of slat protected by plastic caps, and with a saddle and pull attached to slat by screws.
 - 2. Tab Tensioning: Provide units that have a durable low-stretch cord, such as braided polyester, on each side of screen connected to edge of screen by tabs to pull screen flat horizontally. Screen is raised and lowered by means of a removeable hand crank.
 - a. Furnish with one crank.
 - 3. Viewing Surface Fabrication: 84" x 84", fabricated without seams and with black masking borders.
 - 4. Products: Subject to compliance with requirements, provide one of the following:
 - a. Draper Inc.; Silhouette/Series C.
 - b. Stewart Filmscreen Corporation; Luxus Communicator.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install projection screens at locations indicated to comply with screen manufacturer's written instructions.
- B. 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.

3.02 TESTING AND ADJUSTMENT

- A. Test manually operated screen to verify that screen-operating components are in optimum functioning condition.
- B. Test electrically operated screen to verify that screen, controls, limit switches, closure, and other operating components are in optimum functioning condition.

3.03 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