



SECTION 11132 [11 52 13]

PARAGON E FRONT PROJECTION SCREENS

Display hidden notes to Specifier.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Electrically operated, ceiling recessed, front projection screens.
- B. Front projection screen controls.

1.2 RELATED SECTIONS

- A. Division 5 - Metal Fabrications: Suspension systems for projection screens.
- B. Section 06400 [06 40 00] - Interior Architectural Woodwork: Wood trim for recessed screen installation.
- C. Section 09120 [09 22 26] - Ceiling Suspension System: Supports and trim for suspended ceilings.
- D. Section 09210 [09 26 13] - Gypsum Plaster: Ceiling for recessed screen installation.
- E. Section 09260 [09 21 16] - Gypsum Board Assemblies: Ceiling for recessed screen installation.
- F. Section 09510 [09 51 23] - Acoustical Tile Ceilings: Ceiling for recessed screen installation.
- G. Division 16 [26] for electrical wiring, connections, and installation of remote control switches for electrically operated projection screens.

1.3 REFERENCES

- A. NFPA 70 - National Electrical Code.
- B. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.

- C. GREENGUARD Environmental Institute Gold.
- D. US Green Building Council.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Wiring diagram for electrically operated units.
- D. Shop Drawings: Shop drawings showing layout and types of projection screens. Show the following:
 - 1. Location of screen centerline.
 - 2. Location of wiring connections.
 - 3. Seams in viewing surfaces.
 - 4. Detailed drawings for concealed mounting.
 - 5. Connections to suspension systems.
 - 6. Anchorage details.
 - 7. Accessories.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- F. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain each type of projection screen required from a single manufacturer 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 and other construction where screens will be installed is substantially complete.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Protect screens from damage during delivery, handling, storage, and installation.

1.7 COORDINATION

- A. Coordinate work with installation of ceilings, walls, electric service power characteristics, and location.

1.8 WARRANTY

- A. Manufacturer limited warranty: 5 years from date of purchase.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Draper, Inc., which is located at: 411 S. Pearl P. O. Box 425; Spiceland, IN 47385-0425. ASD. Toll Free Tel: 800-238-7999; Tel: 765-987-7999; Fax: 866-637-5611; Web: www.draperinc.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MOTORIZED, CEILING RECESSED, FRONT PROJECTION SCREENS

- A. Paragon E: Large electrically operated, extruded aluminum case. Projection screen with motor in roller. 13-1/4 inches high x 12 inches deep (337 mm high x 305 mm deep) case fully enclosed except for slot allowing viewing surface passage. Roller: 6 inches (152 mm) diameter steel tube. Viewing surface securely attached to roller at top and at bottom to weighted dowel. Provided with universal mounting brackets for wall, ceiling or above ceiling mounting. Viewing surface is concealed when not in use; lower it to any position at the touch of a switch.
 - 1. Motor UL certified, rated 110-120V AC, 60 Hz, three wire, instantly reversible, lifetime lubricated with pre-set accessible limit switches.
 - 2. Wall Mounting Bracket Kit: Kit includes two structural steel brackets and hardware to attach brackets to case. Hardware for mounting to wall structure by others
 - 3. Projection Viewing Surface:
 - a. Matt White XT1000E - On Axis gain of 1.0. 180 degree viewing cone. Washable surface. GREENGUARD Gold certified. 4K ready.
 - 4. Viewing Area H x W.
 - a. NTSC Format (4:3). Black masking borders standard.
 - 1) 25 foot (7.62 m) diagonal, 177 inches x 236 inches (4496 mm x 5994 mm).
 - 2) 30 foot (9.14 m) diagonal, 212 inches x 284 inches (5385 mm x 7214 mm).
 - 3) 32-1/2 foot (9.91 m) diagonal, 230 inches x 308 inches (5842 mm x 7823 mm).
 - 4) 35 foot (10.67 m) diagonal, 248 inches x 332 inches (6299 mm x 8433 mm).
 - b. HDTV Format (16:9). Black masking borders standard.
 - 1) 270 inch (6858 mm) diagonal, 133 inches x 236 inches (3378 mm x 5994 mm).
 - 2) 324 inch (8230 mm) diagonal, 160 inches x 284 inches (4216 mm x 7214 mm).
 - 3) 354 inch (8992 mm) diagonal, 173 inches x 308 inches (4392 mm x 7823 mm).
 - 4) 384 inch (9754 mm) diagonal, 187 inches x 332 inches (4750 mm x 8433 mm).
 - c. 16:10 Format. Black masking borders standard.
 - 1) 278 inch (7061mm) diagonal, 147-1/2 inches x 236 inches (3747 mm x 5994 mm).

- 2) 335 inch (2159 mm) diagonal, 177-1/2 inches x 284 inches (4508 mm x 7214 mm).
- 3) 363 inch (2769 mm) diagonal, 192-1/2 inches x 308 inches (4890 mm x 7823 mm).
- 4) 392 inch (3480) diagonal, 207-1/2 inches x 332 inches (5270 mm by 8433 mm).
5. Provide an extra screen drop with an overall screen drop of ___ inches (___ mm) with top border matching the viewing surface.
6. Provide an extra screen drop with an overall screen drop of ___ inches (___ mm) with a black masking top border.

2.3 FRONT PROJECTION SCREEN CONTROLS

- A. General: All controls are UL Certified.
 1. Single station control rated 115V AC, 60 Hz with 3-position rocker switch with cover plate to stop or reverse screen at any point.
 2. Low voltage control unit with three button 24V switches and cover plate to stop or reverse screen at any point, built-in RF receiver, built-in Video Interface Control trigger for 3V-28V, RS232, and dry contact relays.
 3. Low voltage 24V control unit with hand held RF remote three button control switch to stop or reverse screen at any point, built-in RF receiver, built-in Video Interface Control trigger for 3V-28V, RS232, and dry contact relays.
 4. Low voltage 24V control unit with hand held IR remote three button control switch to stop or reverse screen at any point, built-in RF receiver, built-in Video Interface Control trigger for 3V-28V, RS232, and dry contact relays.
 5. Key Operated power supply switch to control power to control system.
 6. Locking switch cover plate for limited access to three position switch.
 7. Key operated 3-position control switch rated 115V AC, 60 Hz to stop or reverse screen at any point.
 8. 3-position low voltage control switch with key locking cover plate rated 24V to stop or reverse screen at any point.
 9. LVC-IP Bridge. Acts as an IP to Serial Gateway for controlling Draper lifts & screens when used in conjunction with an LVC-IV. Configuration is done using built-in buttons and display.
 10. Motor shall be left mounted (standard).
 11. Motor shall be right mounted.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify rough-in openings are properly prepared.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install front projection screens with screen cases in position and relationship to adjoining construction as indicated, securely anchored to supporting substrate, and in manner that produces a smoothly operating screen with plumb and straight vertical edges and plumb and flat viewing surfaces when screen is lowered.
- C. Test electrically operated units to verify that screen, controls, limit switches, closure and other operating components are in optimum functioning condition.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION