



SECTION 11 52 13.50
LUMA 2 MANUALLY-OPERATED FREE-HANGING SURFACE-MOUNTED FRONT PROJECTION
SCREEN

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Manually operated, surface mounted, front projection screens.

1.2 RELATED SECTIONS

- A. Division 5 - Metal Fabrications: Suspension systems for projection screens.
- B. Section 06 40 00 - Architectural Woodwork.
- C. Section 09 22 26 - Suspension Systems.
- D. Section 09 26 13 - Gypsum Veneer Plastering.
- E. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies.
- F. Section 09 51 23 - Acoustical Tile Ceilings.

1.3 REFERENCES

- A. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.
- B. GREENGUARD Environmental Institute Gold.
- C. US Green Building Council.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- 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. Shop Drawings: Shop drawings showing layout and types of projection screens. Show the following:
 - 1. Location of screen centerline.

2. Seams in viewing surfaces.
 3. Detailed drawings for concealed mounting.
 4. Connections to suspension systems.
 5. Anchorage details.
 6. Accessories.
 7. Frame details.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. 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, and location.
- 1.2 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; Toll Free Tel: 800-238-7999; Tel: 765-987-7999; Fax: 866-637-5611; Email:[request info \(drapercontract@draperinc.com\)](mailto:request info (drapercontract@draperinc.com)); Web:www.draperinc.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 MANUALLY OPERATED, SURFACE MOUNTED, FRONT PROJECTION SCREENS

- A. Luma 2: Heavy duty, spring roller operated, steel case. Pentagonal, flat back design, steel case with scratch-resistant white textured finish. Universal hanging brackets for attachment to wall or ceiling. Case 22 gauge steel with matching end caps with integral roller brackets.

1. System Options:
 - a. Projected Adjustable Mounting Brackets with an 18-1/2 to 24 inch (470 to 610 mm) clearance from wall. White finish.
 - b. Fixed Projected Mounting Brackets with a 6 inch (152 mm) clearance from wall. White finish.
 - c. Fixed Projected Mounting Brackets with a 10/14 inch (254/356 mm) clearance from wall. White finish.
 - d. No projected mounting bracket required.
 - e. Floating Mounting Brackets for mounting screen to wall or ceiling.
 - f. Ceiling Trim Kit for recessing above acoustical tile ceiling grid.
 - g. Aluminum Operating Pole:
 - 1) 4 feet.
 - 2) 6 feet.
 - 3) None.
2. Projection Viewing Surface:
 - a. Matt White XT1000E - On Axis gain of 1.0. 180 degree viewing cone. Washable surface. GREENGUARD Gold certified.
 - b. Contrast Grey XH800E - 0.8 On Axis gain. Smooth grey surface provides excellent resolution and enhances color contrast. 180 degree viewing cone. GREENGUARD Gold certified.
 - c. Chroma Key Green - Green flexible PVC surface for video production where you need the background to "disappear." Matte finish. Flame retardant, tear resistant, and wrinkle resistant. Offers excellent uniformity and consistent surface color edge to edge. Works effectively throughout 180 degree viewable range.
3. Viewing Area H x W.
 - a. Custom: Custom Size: _____ H x _____ W.
 - b. NTSC Format (4:3). Black masking borders standard.
 - 1) 100 inch (2540 mm) diagonal, 60 inches x 80 inches (1524 mm x 2032 mm).
 - 2) 10 foot (3.05 m) diagonal, 69 inches x 92 inches (1753 mm x 2337 mm).
 - 3) 11 foot (3.35 m) diagonal, 78 inches x 104 inches (1981 mm x 2642 mm).
 - 4) 150 inch (3810 mm) diagonal, 87 inches x 116 inches (2210 mm x 3658 mm).
 - 5) 15 foot (4.57 m) diagonal, 105 inches x 140 inches (2667 mm x 3556 mm).
 - c. HDTV Format (16:9). Black masking borders standard.
 - 1) 92 inch (2337 mm) diagonal, 45 inches x 80 inches (1143 mm x 2032 mm).
 - 2) 100 inch (2540 mm) diagonal, 49 inches x 87 inches (1245 mm x 2210 mm).
 - 3) 106 inch (2692 mm) diagonal, 52 inches x 92 inches (1321 mm x 2337 mm).
 - 4) 110 inch (2794 mm) diagonal, 54 inches x 96 inches (1372 mm x 2438 mm).
 - 5) 119 inch (3023 mm) diagonal, 58 inches x 104 inches (1473 mm x 2642 mm).
 - 6) 133 inch (3378 mm) diagonal, 65 inches x 116 inches (1651 mm x 2947 mm).
 - 7) 161 inch (4089 mm) diagonal, 79 inches x 140 inches (2007 mm x 3556 mm).
 - d. 16:10 Format. Black masking borders standard.
 - 1) 94 inch (2438 mm) diagonal, 50 inches x 80 inches (1270 mm x 2032 mm).
 - 2) 109 inch (2769 mm) diagonal, 57-1/2 inches x 92 inches (1461 mm x

- 2337 mm).
- 3) 113 inch (2870 mm) diagonal, 60 inches x 96 inches (1524 mm x 2438 mm).
- 4) 123 inch (3124 mm) diagonal, 65 inches x 104 inches (1351mm x 2642 mm).
- 5) 137 inch (3480) diagonal, 72-1/2 inches x 116 inches (1842 mm by 2946 mm).
- 6) 165 inch (4191 mm) diagonal, 87-1/2 inches x 140 inches (2223 mm by 3556 mm).
- 4. Provide an extra screen drop with an overall screen drop of ____ inches (____ mm) with top border matching the viewing surface.
- 5. Provide an extra screen drop with an overall screen drop of ____ inches (____ mm) with a black masking top border.

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 manually operated units to verify that screen 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