



SECTION 11 52 13.13
FOCALPOINT FIXED PROJECTION SCREEN

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fixed projection screens.

1.2 RELATED SECTIONS

- A. Section 06 40 00 - Architectural Woodwork.
- B. Section 09 26 13 - Gypsum Veneer Plastering.
- C. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies.

1.3 REFERENCES

- A. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.
- B. GREENGUARD 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. Shop Drawings: Include dimensions, method of attachment and structural support.
 - 4. Connections to suspension systems.
 - 5. Anchorage details.
 - 6. 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, 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; 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 FIXED FRONT PROJECTION SCREENS

- A. FocalPoint Fixed Projection Screen.
 - 1. Frame: Modular, 4" (102 mm) extruded aluminum frame. Frame pieces of different lengths to be combined to construct required size. Individual modular pieces can be combined in different ways to construct different frame sizes.
 - a. Finish: Black
 - b. Provide frame in color-coded sections for site assembly.
 - c. Mounting
 - 1) Flown with Stage Rigging
 - 2) Permanent Wall Installation

2. Projection Viewing Surface: Unsupported vinyl, reinforced with 4-inch (102 mm) wide black borders on all four sides. Viewing surface attaches to front of frame and conceals it using attached DuraLoop™ bungee cord loops with nylon pull-tabs.
- a. Matt White XT1000VB - On Axis gain of 1.0. 180 degree viewing cone. GREENGUARD Gold certified. Black backing.
 - b. TecVision XH700X Premium Contrast Grey - On Axis gain of 0.7. 180 degree viewing cone. Designed for blending applications on curved or flat screens or Ultra-Short Throw (UST) projection where ambient light is present. Provides very good contrast and color reproduction. Imaging Science Foundation certified and 8K ready. Dark backing.
 - c. TecVision XH1200X Premium Contrast Grey - On Axis gain of 1.2. 100 degree viewing cone. Designed to enhance contrast under controlled light. Provides excellent color reproduction. Imaging Science Foundation certified and 8K ready. Dark backing.
 - d. TecVision XH800X ALR - Formulated for use with short throw projection in moderate to high ambient light applications. 0.8 gain. Rejects 57% of off-axis ambient light, supports extremely wide viewing angles. Lens/Throw distance ratio for best brightness uniformity: 0.7:1 or longer. Imaging Science Foundation certified. 4K ready. Dark backing.
 - e. TecVision XH900X ALR - On Axis gain of 0.9. Rejects 60% of ambient light. 180 degree viewing cone. Provides very good contrast and color reproduction. Imaging Science Foundation certified. 4K ready. Dark backing.
 - f. TecVision MS1000X ALR – Rejects 73% of ambient light. On Axis gain of 1.0. 70 degree viewing cone. Provides excellent contrast and color reproduction. Performs well in ambient light. Imaging Science Foundation certified. 4K ready. Dark backing.
 - g. TecVision CS1000X ALR - On Axis gain of 1.0. Rejects 82% of ambient light. 40 degree viewing cone. Provides excellent contrast and color reproduction. Performs well in ambient light. Imaging Science Foundation certified. 4K ready. Dark backing.
 - h. TecVision CS1200X ALR - On Axis gain of 1.2. Rejects 82% of ambient light. 40 degree viewing cone. Provides excellent contrast and color reproduction. Performs well in ambient light. Imaging Science Foundation certified. 4K ready. Dark backing.
 - i. TecVision XT1000X White - On Axis gain of 1.0. 180 degree viewing cone. Imaging Science Foundation certified. 8K ready reference screen surface for blending applications, precise resolution, and color accuracy. Dark backing.
 - j. TecVision XT1000X White - On Axis gain of 1.0. 180 degree viewing cone. Imaging Science Foundation certified. 8K ready reference screen surface for blending applications and Ultra-Short Throw (UST) projection. Precise resolution and color accuracy. Dark backing.
 - k. TecVision XT1300X White - On Axis gain of 1.3. 180 degree viewing cone. Imaging Science Foundation certified. 4K ready. Dark backing.
 - l. TecVision XT1600X White - On Axis gain of 1.6. 180 degree viewing cone. Imaging Science Foundation certified. 4K ready. Dark backing.
 - m. TecVision XT1800X White - On Axis gain of 1.8. 180 degree viewing cone. Imaging Science Foundation certified. Suited for active 3D or color combining passive 3D systems. 4K ready. Dark backing.
 - n. CineFlex CH1200V - On Axis gain of 1.2. 60 degree viewing cone. Neutral grey rear projection diffusing surface. Provides high resolution and excellent contrast, even in lighted rooms. Recommended for use with low to medium output projectors.
 - o. CineFlex XT700V - On Axis gain of 0.7. 180 degree viewing cone. White rear projection surface works well for edge matching or edge blending applications, and also for short throw rear projection. Reasonable control of ambient light is recommended.

3. Viewing Area H x W.
 - a. NTSC Format (4:3).
 - 1) 100 inches diagonal, 60" x 80"
 - 2) 120 inches diagonal, 72" x 96"
 - 3) 150 inches diagonal, 7'6" x 10'
 - 4) 180 inches diagonal, 9' x 12' 108"
 - 5) 210 inches diagonal, 10'6" x 14'
 - 6) 240 inches diagonal, 12' x 16'
 - 7) 270 inches diagonal, 13'6" x 18'
 - 8) 300 inches diagonal, 15' x 20'
 - b. HDTV Format (16:9).
 - 1) 92 inches diagonal, 45" x 80"
 - 2) 110 inches diagonal, 4' 6" x 8'
 - 3) 138 inches diagonal, 5'7½" x 10'
 - 4) 165 inches diagonal, 6'9" x 12'
 - 5) 193 inches diagonal, 7'10½" x 14'
 - 6) 220 inches diagonal, 9' x 16'
 - 7) 248 inches diagonal, 10'1½" x 18'
 - 8) 275 inches diagonal, 11'3" x 20'
 - c. 16:10 Format.
 - 1) 94 inches diagonal, 50" x 80".
 - 2) 113 inches diagonal, 5' x 8'
 - 3) 142 inches diagonal, 6'3" x 10'
 - 4) 170 inches diagonal, 7'6" x 12'
 - 5) 198 inches diagonal, 8'9" x 14'
 - 6) 226 inches diagonal, 10' x 16'
 - 7) 255 inches diagonal, 11'3" x 18'
 - 8) 283 inches diagonal, 12'6" x 20'

PART 3 EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

- A. Coordinate with **[existing] [Acrobat]** stage rigging system to ensure proper attachment and support.
- B. Coordinate screen size, mounted depth, and required edge tolerances with construction of wall recesses to house screens.
- C. Coordinate requirements for blocking and structural supports to ensure proper installation of screens.
- D. Clean surfaces thoroughly prior to installation.
- E. 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 and shop drawings.

- B. Site-assemble screen frames, stretch viewing surface over frame and attach with proprietary snapless attachment system. Exercise care to ensure viewing surface is not soiled or damaged and that surface is taut.
- C. Install fixed projection screens at locations and heights indicated on Drawings.
- D. Provide required brackets and fasteners to install screens securely to supporting substrate. Ensure that screens are level and flat.

3.4 PROTECTION

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

END OF SECTION