

SECTION 11132 [11 52 13]

PREMIER XL FRONT PROJECTION SCREENS

\*\* NOTE TO SPECIFIER \*\* Draper Inc; Wall and ceiling surface mounted and recess mounted front projection screens.

This section is based on the products of 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)

Web: [www.draperinc.com](http://www.draperinc.com)

[ [Click Here](http://www.arcat.com/arcatcos/cos43/arc43272.html) ] for additional information.

Draper manufactures the best and most complete line of projection screens in the world. We want to help you incorporate these screens into the most effective presentation systems. Planning a projection system involves several steps: choosing the screen size, viewing surface, screen model and control system if required. For additional information, go to [www.draperinc.com](http://www.draperinc.com).

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Electrically operated, surface mounted, front projection screens.
    2. Front projection screen controls.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Division 5 - Metal Fabrications: Suspension systems for projection screens.
    2. Section 06400 [06 40 00] - Interior Architectural Woodwork: Wood trim for recessed screen installation.
    3. Section 09120 [09 22 26} - Ceiling Suspension System: Supports and trim for suspended ceilings.
    4. Section 09210 [09 26 13] - Gypsum Plaster: Ceiling for recessed screen installation.
    5. Section 09260 [09 21 16] - Gypsum Board Assemblies: Ceiling for recessed screen installation.
    6. Section 09510 [09 51 23] - Acoustical Tile Ceilings: Ceiling for recessed screen installation.
    7. Division 16 [26] for electrical wiring, connections, and installation of remote control switches for electrically operated projection screens.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. NFPA 70 - National Electrical Code.
    2. NFPA 701-99 - Fire Tests for Flame-Resistant Textiles and Films.
    3. GREENGUARD Environmental Institute Gold.
    4. US Green Building Council.
  1. SUBMITTALS
     1. Submit under provisions of Section 01300.
     2. 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.
     3. Wiring diagram for electrically operated units.

\*\* NOTE TO SPECIFIER \*\* Retain below for front projection screens where shop drawings are needed to understand relationships with adjoining work.

* + 1. Shop Drawings: Shop drawings showing layout and types of projection screens. Show the following:

\*\* NOTE TO SPECIFIER \*\* Edit below to suit screens specified and project conditions.

* + - 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.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
  1. QUALITY ASSURANCE
     1. Single Source Responsibility: Obtain each type of projection screen required from a single manufacturer as a complete unit, including necessary mounting hardware and accessories.
     2. 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.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Do not deliver projection screens until building is enclosed and other construction where screens will be installed is substantially complete.
     2. Store products in manufacturer's unopened packaging until ready for installation.
     3. Protect screens from damage during delivery, handling, storage, and installation.
  3. COORDINATION
     1. Coordinate work with installation of ceilings, walls, electric service power characteristics, and location.
  4. WARRANTY
     1. Manufacturer limited warranty: 5 years from date of purchase.

1. PRODUCTS
   1. MANUFACTURERS
      1. 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](http://www.draperinc.com).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01600.

\*\* NOTE TO SPECIFIER \*\* Delete from the following lists the types of front projection screens not used on the project.

* 1. MOTORIZED, SURFACE MOUNTED, FRONT PROJECTION SCREENS

\*\* NOTE TO SPECIFIER \*\* Premier is available in image width up to 16 feet (488 cm) wide, depending on surface selection. Contact manufacturer for details.

* + 1. Premier XL: Electric motor operated, metal case, tab tensioned. Metal roller mounted on rubber isolation mounts. Case consists of a curved front and L-shaped back/top cover fabricated of extruded aluminum, with endcaps forming ceiling hanging bracket. Case 6-3/4 inches high x 6-3/4 inches deep (172 mm high x 172 mm deep). Case and tensioning dowel finished in flat black.
       1. Motor mounted inside screen roller on rubber isolation insulators. Motor UL certified, rated 110-120V AC, 60 Hz, three wire, instantly reversible, lifetime lubricated with pre-set accessible limit switches. Motor shall be left mounted.
       2. System Options:

\*\* NOTE TO SPECIFIER \*\* Select the required case finish and delete one of the following two paragraphs.

* + - * 1. Case finished black (standard).
        2. Case finished white.
      1. Projection Viewing Surface: Mildew resistant 100 percent vinyl with black masking borders and 12 inch (305 mm) black drop.

\*\* NOTE TO SPECIFIER \*\* Select the screen type from the following paragraphs and delete those not required. Note that there are size limitations with some viewing surfaces. Contact manufacturer for additional information.

* + - * 1. Matt White XT1000VB – On Axis gain of 1.0. 180 degree viewing cone. GREENGUARD Gold certified. Black backing. 4K ready.

\*\* NOTE TO SPECIFIER \*\* Grey XH600V maximum size available is 9 feet by 12 feet (274 cm x 366 cm).

* + - * 1. Grey XH600V – On Axis gain of 0.6. Provides excellent contrast and color reproduction. GREENGUARD Gold certified. Available with or without black backing. 4K ready.

\*\* NOTE TO SPECIFIER \*\* ClearSound NanoPerf XT1000V is not recommended for viewing less than 10 feet (305 cm) from screen.

* + - * 1. ClearSound NanoPerf XT1000V – On Axis gain of 1.0. 180 degree viewing cone. Acoustically transparent white PVC fabric with microscopic perforations. 4K ready.

\*\* NOTE TO SPECIFIER \*\* ClearSound Perf XT900V is not recommended for viewing less than 20 feet (610 cm) from screen.

* + - * 1. 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.
        2. 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.
        3. TecVision XH800X ALR - 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. 8K ready. Dark backing.
        4. 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. 8K ready. Dark backing.
        5. 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. 8K ready. Dark backing.
        6. 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.
        7. TecVision XT1100X White - On-Axis gain of 1.1. 180 degree viewing cone. Designed for use when the projector brightness and size of screen require a minimal increase in gain. Imaging Science Foundation certified and 8K ready. Dark backing.
        8. TecVision CS1100X ALR - On Axis gain of 1.1. Rejects 82% of ambient light. 100 degree viewing cone. Provides excellent contrast and color reproduction. Performs well in ambient light. Imaging Science Foundation certified. 8K ready. Dark backing.
        9. TecVision XT1100X White – On-Axis gain of 1.1. 180 degree viewing cone. Designed for use when the projector brightness and size of screen require a minimal increase in gain. Imaging Science Foundation certified and 8K ready. Dark backing.
        10. TecVision XH900X ALR – On Axis gain of 0.9. 180 degree viewing cone. Provides very good contrast and color reproduction. Imaging Science Foundation certified. 8K ready. Dark backing.
        11. TecVision MS1000X ALR – 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. 8K ready. Dark backing.
        12. 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.
        13. TecVision XT1300X White – On Axis gain of 1.3. 180 degree viewing cone. Imaging Science Foundation certified. 8K ready. Dark backing.
        14. TecVision XT1600X White – On Axis gain of 1.6. 180 degree viewing cone. Imaging Science Foundation certified. 8K ready. Dark backing.
        15. 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. 4K ready.
        16. CineFlex White 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. 4K ready.
      1. Tab-Tensioning System:
         1. Viewing surface with integrated tabs and cable on each side of fabric to provide tension and ensure flat viewing surface. Viewing surface and tabs CNC cut as a single piece. Tabs RF welded to the back of viewing surface to prevent tab separation. Tab adhesives are not acceptable. Viewing surface inserted into aluminum bottom dowel.

\*\* NOTE TO SPECIFIER \*\* Select the screen format and size required for the project. Delete the paragraphs not required.

* + - 1. Viewing Area H x W. Black masking borders standard. 12 inch (305 mm) black drop standard.
         1. Custom Size: \_\_\_\_\_\_\_\_ H x \_\_\_\_\_\_\_\_\_\_\_\_ W.
         2. HDTV Format (16:9).

184 inch (4673 mm) diagonal, 90 inches x 160 inches (2286 mm x 4064 mm).

193 inch (4.90 m) diagonal, 94-1/2 inches x 168 inches (2400 mm x 4267 mm).

220 inch (5.59 m) diagonal, 108 inches x 192 inches (2743 mm x 4877 mm).

* + - * 1. 16:10 Format.

189 inch (4800 mm) diagonal, 100 inches x 160 inches (2540 mm x 4064 mm).

198 inch (5029 mm) diagonal, 105 inches x 168 inches (2667 mm x 4267 mm).

226 inch (5740 mm) diagonal, 120 inches x 192 inches (3048 mm x 4877 mm).

* + - * 1. NTSC Format (4:3).

200 inch (508 mm) diagonal, 118 inches x 158 inches (2997 mm x 4013 mm).

210 inch (5.33 m) diagonal, 126 inches x 168 inches (3200 mm x 4267 mm).

220 inch (5.59 m) diagonal, 132 inches x 176 inches (3353 mm x 4470 mm).

230 inch (5.84 m) diagonal, 138 inches x 184 inches (3505 mm x 4674 mm).

20 foot (6.10 m) diagonal, 144 inches x 192 inches (3658 mm x 4877 mm).

\*\* NOTE TO SPECIFIER \*\* If an extra screen drop exceeding the standard of 12 inches (305 mm) is required for the project fill in the drop height and select one of the following paragraphs and delete the other. Total screen height cannot exceed 14 feet (4.27 m). Select viewing surface color or black. Black is standard. If extra screen drop is not required, delete both paragraphs.

* + - 1. Provide an extra screen drop with an overall screen drop of \_\_\_ inches (\_\_\_ mm) with top border matching the viewing surface.
      2. Provide an extra screen drop with an overall screen drop of \_\_\_ inches (\_\_\_ mm) with a black masking top border.

\*\* NOTE TO SPECIFIER \*\* Select controls and wall and/or remote-control switches required for project. Delete the types of controls and switches not used on the project. Coordinate the compatibility of multiple control selections.

* 1. FRONT PROJECTION SCREEN CONTROLS
     1. General: All controls are UL Certified.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 2, 3, 4, 5, 8, or 9.

* + - 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.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 1, 3, 4, 5, 8, or 9.

* + - 1. Multiple station control rated 115V AC, 60 Hz with 3-position rocker switches with cover plates to stop or reverse screen at any point. Automatic override allows only one signal to reach the motor when operated simultaneously.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 1, 2, 7, or 8.

* + - 1. 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.

\*\* NOTE TO SPECIFIER \*\* . Not compatible with options 1, 2, 7, or 8.

* + - 1. 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.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 1, 2, 7, or 8.

* + - 1. 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.

\*\* NOTE TO SPECIFIER \*\* Compatible with all options.

* + - 1. Key Operated power supply switch to control power to control system.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 4, 5, 6, 8, or 9.

* + - 1. Locking switch cover plate for limited access to three position switch.

\*\* NOTE TO SPECIFIER \*\* . Not compatible with options 1, 2, 3, 4, 5, 7, or 9`.

* + - 1. Key operated 3-position control switch rated 115V AC, 60 Hz to stop or reverse screen at any point.

\*\* NOTE TO SPECIFIER \*\* Not compatible with options 1, 2, 6, 7, or 8.

* + - 1. 3-position low voltage control switch with key locking cover plate rated 24V to stop or reverse screen at any point.

\*\* NOTE TO SPECIFIER \*\* LVC-IV Required. Not compatible with options 4, 5, 7, or 8.

* + - 1. 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.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Verify rough-in openings are properly prepared.
      3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. 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.
      3. Test electrically operated units to verify that screen, controls, limit switches, closure and other operating components are in optimum functioning condition.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION