

SECTION 11132 [11 52 13]

TARGA 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.
	1. MOTORIZED, SURFACE MOUNTED, FRONT PROJECTION SCREENS

\*\* NOTE TO SPECIFIER \*\* Targa is available in image width up to 12 feet (366 cm) wide, depending on surface selection. Contact manufacturer for details.

* + 1. Targa: Electric motor operated, steel case. Cases are one piece 22 gauge steel with end caps forming universal wall or ceiling hanging bracket. Case size 5-7/8 inches high. x 5-1/4 inches deep (150 mm high x 134 mm deep). White scratch resistant textured finish.

\*\* NOTE TO SPECIFIER \*\* Select one of the following motor paragraphs and associated control option as required. Delete the paragraphs not required. Note that there are size limitations with quiet motors. Contact manufacturer for additional information.

* + - 1. Motor mounted inside screen roller on rubber isolation insulators. Motor UL certified, rated 110-120V AC, 60 Hz, 1.1 Amp current draw, three wire, instantly reversible, lifetime lubricated with pre-set accessible limit switches. Motor shall be left mounted.
			2. Quiet Motor mounted inside screen roller on rubber isolation insulators. Motor operates at 44db. UL certified, rated 110-120V AC, 60 Hz, three wire, instantly reversible, lifetime lubricated with pre-set accessible limit switches. Motor shall be left maounted.
			3. System Options:

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

* + - * 1. Case finished white (standard).
				2. Case finished black.

\*\* NOTE TO SPECIFIER \*\* Projected Mounting Brackets are available only on screens up to 8 feet (244 cm) wide. Delete that paragraph if projected mounting bracket is not required. Delete both paragraphs if neither Projected nor Floating brackets are required.

* + - * 1. Projected Mounting Brackets with a 6 inch (152 mm) clearance from wall. Finished white or black.
				2. Floating Mounting Brackets for mounting screen to wall or ceiling

\*\* NOTE TO SPECIFIER \*\* Delete following paragraph if recessed ceiling installation is not required.

* + - * 1. Ceiling Trim Kit for recessing above acoustical tile ceiling grid.
			1. Projection Viewing Surface:

\*\* 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 XT1000E – On Axis gain of 1.0. 180 degree viewing cone. Washable surface. GREENGUARD Gold certified. 4K ready.
				2. 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. 4K ready.

\*\* NOTE TO SPECIFIER \*\* ClearSound White Weave XT900E is not recommended for use in sizes less than 80 inches (203 cm) wide or for viewing less than 10 feet (305 cm) from screen.

* + - * 1. ClearSound White Weave XT900E – On Axis gain of 0.9. 180 degree viewing cone. Acoustically transparent woven blend of fiberglass and PVC. Acoustical properties are comparable to the highest quality speaker grille cloth. Some control of ambient light is recommended. Flame and mildew resistant. 4K ready.
				2. 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.

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

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

65 inch (1651 mm) diagonal, 31-3/4 inch by 56-1/2 inch (781 mm by 1435 mm).

73 inch (1854 mm) diagonal, 36 inches x 64 inches (

82 inch (2083 mm) diagonal, 40-1/2 inches x 72 inches (

92 inch (2337 mm) diagonal, 45 inches x 80 inches (1143 mm x 2032 mm).

100 inch (2540 mm) diagonal, 49 inches x 87 inches (1245 mm x 2210 mm).

106 inch (2692 mm) diagonal, 52 inches x 92 inches (1321 mm x 2337 mm).

110 inch (2794 mm) diagonal, 54 inches x 96 inches (1372 mm x 2438 mm).

119 inch (3023 mm) diagonal, 58 inches x 104 inches (1473 mm x 2642 mm).

133 inch (3378 mm) diagonal, 65 inches x 116 inches (1651 mm x 2947 mm).

161 inch (4089 mm) diagonal, 79 inches x 140 inches (2007 mm x 3556 mm).

184 inch (4674 mm) diagonal, 90 inches x 160 inches (2286 mm x 4064 mm).

* + - * 1. 16:10 Format. Black masking borders standard.

67 inch (1702 mm) diagonal, 35-1/4 inches x 56-1/2 inches (895 mm x 1435 mm).

76 inch (1930 mm) diagonal, 40 inches x 64 inches

85 inch (2159 mm) diagonal, 45 inches x 72 inches (1143 mm x 1829 mm).

94 inch (2438 mm) diagonal, 50 inches x 80 inches (1270 mm x 2032 mm).

109 inch (2769 mm) diagonal, 57-1/2 inches x 92 inches (1461 mm x 2337 mm).

113 inch (2870 mm) diagonal, 60 inches x 96 inches (1524 mm x 2438 mm).

123 inch (3124 mm) diagonal, 65 inches x 104 inches (1351mm x 2642 mm).

137 inch (3480) diagonal, 72-1/2 inches x 116 inches (1842 mm by 2946 mm).

165 inch (4191 mm) diagonal, 87-1/2 inches x 140 inches (2223 mm by 3556 mm).

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

* + - * 1. NTSC Format (4:3). Black masking borders standard.

6 foot (1.83 m) diagonal, 42-1/2 inches x 56-1/2 inches (1080 mm x 1435 mm).

7 foot (2.13 m) diagonal, 50 inches x 66-1/2 inches (1270 mm x 1689 mm).

100 inch (2540 mm) diagonal, 60 inches x 80 inches (1524 mm x 2032 mm).

10 foot (3.05 m) diagonal, 69 inches x 92 inches (1753 mm x 2337 mm).

11 foot (3.35 m) diagonal, 78 inches x 104 inches (1981 mm x 2642 mm).

150 inch (3810 mm) diagonal, 87 inches x 116 inches (2210 mm x 3658 mm).

15 foot (4.57 m) diagonal, 105 inches x 140 inches (2667 mm x 3556 mm).

200 inch (5080 mm) diagonal, 118 inches x 158 inches (2997 mm x 4013 mm).

\*\* NOTE TO SPECIFIER \*\* If an extra screen drop is required for the project, fill in the drop height and select one of the following paragraphs. Total screen height cannot exceed 18 feet (5.49 m). Select viewing surface color or black.If 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