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2. 3100 N. Detroit St.
3. Warsaw, IN 46582
4. Phone: 866-977-3901
5. Phone: (574) 267-8101
6. Fax: 877-894-6918
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8. E-mail: av.support@legrand.com
9. <https://www.LegrandAV.com/Products/Da-Lite>
10. Section 11 52 13.13 - PORTABLE PROJECTION SCREENS

\*\*\*\*\* The following section employs blue hidden text for guidance. To view, select “Home” in the ribbon, then under the “Paragraph” section, select the Show/Hide tool ( ). Delete this comment prior to printing. \*\*\*\*\*

\*\*\*\*\* Da-Lite®, a Brand of Legrand AV Inc., manufactures numerous types and models of projection screens and other audio visual presentation equipment. This guide can be used to prepare a specification for incorporating one or more of the following Da-Lite® portable projection screens into a competitively bid construction project.

Deluxe Insta-Theater

Picture King

Floor Model C

Da-Lite®, a Brand of Legrand AV Inc. also manufactures several models of folding, portable projection screens which can be specified using Da-Lite® Product specification SECTION 11143 - FOLDING PORTABLE PROJECTION SCREENS.

Throughout this product guide specification, references are made to other specification sections that might be contained in the project manual. These references are presented as examples and coordination reminders. For each project, these references will need to be revised to reflect actual sections being used.

Within the specification text, Imperial dimensions are presented first in brackets followed by System International Metric (SI) equivalents also in brackets. Depending on project requirements, either the Imperial or the SI metric equivalents will need to be deleted.

The specifier will need to edit this product specification for a specific project to reflect the options and applications being used. The guide section has been written so that most editing can be accomplished by deleting unnecessary requirements and options. Options are indicated by [ ]. Notes to assist the specifier in selecting options and editing the specification guide are printed in blue hidden text and indicated with \*\*\*\*\*. For final editing, hidden text does not need to be deleted from the guide. \*\*\*\*\*

* 1. PART 1 GENERAL
		1. SUMMARY
			1. Section Includes:
				1. Manufactured, free standing, collapsible, portable projection screens.

\*\*\*\*\* Edit the following as applicable for your project. \*\*\*\*\*

* + - 1. Related Requirements:
				1. 01 30 00 - Administrative Requirements: for additional requirements of preinstallation meeting.
				2. 01 25 00 - Substitution Procedures: for additional procedures required for Substitutions.
				3. 01 35 15 - LEED Certification Procedures: for additional procedures required for LEED certification.
				4. 01 40 00 - Quality Requirements: for additional requirements related to Quality Requirements.
				5. 01 60 00 - Product Requirements: for substitution and additional product requirements.
				6. 017419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
		1. REFERENCES

\*\*\*\*\* List by number and full title reference standards referred to in remainder of the specification section. Delete non-applicable references. \*\*\*\*\*

* + - 1. Society of Motion Picture and Television Engineers (SMPTE):
				1. SMPTE RP 94 - Gain Determination of Front Projection Screens.
		1. DEFINITIONS
			1. Gain: Indication of screen's luminance or brightness measured perpendicular of screen center and measured relative to a block of magnesium carbonate which serves as the standard for 1.0 gain. Higher numbers indicate greater brightness. Gain shall be determined in accordance with SMPTE RP 94.
			2. Viewing Angle: Angle from perpendicular center of screen at which the gain or brightness is decreased by 50 percent.
			3. Keystone: Distortion of projected image when screen is not perpendicular to center line of projected image.

\*\*\*\*\* Retain the following if applicable for your project. \*\*\*\*\*

* + 1. ADMINISTRATIVE REQUIREMENTS
			1. Preinstallation Meeting: Convene [\_\_\_\_\_] week before starting work of this section in accordance with 01 30 00 - Administrative Requirements.
				1. Review preparation and installation procedures and coordinating and scheduling required with related work.
		2. SUBMITTALS
			1. Provide the following in accordance with Section 01 33 00 - Submittal Procedures.
			2. Product Data.
			3. Shop Drawings: Indicate dimensions and fabrications details.
			4. Samples:
				1. Finishes [for selection by Architect].
				2. Viewing surface: [6 by 6 inches] [152 by 152 mm] minimum size.
			5. Manufacturer's Installation Instructions.
			6. Manufacturer’s Qualification Statement.
			7. Operation and Maintenance Data: Include maintenance and cleaning instructions.
			8. Warranty Documentation.
		3. QUALITY ASSURANCE
			1. Qualifications:
				1. Manufacturer Qualifications: Company specializing in the manufacture of work specified in this section with minimum 30 years of experience.
		4. DELIVERY, STORAGE, AND HANDLING
			1. As required by the manufacturer for a warrantable installation of the installed products to meet the Performance and Design Criteria.
			2. Deliver portable projection screens after building is enclosed and construction is substantially complete.
			3. Deliver screens in manufacturer's undamaged, labelled packaging.

\*\*\*\*\* Retain the following if applicable for your project. \*\*\*\*\*

* + - 1. [As required by SMACNA (OCC) and Section 01 35 15 - LEED Certification Procedures].
		1. WARRANTY
			1. Manufacturer Warranty: Provide one year warranty for defects in materials and workmanship.
				1. Exceptions: Warranty does not cover defects due to normal wear and tear, damage due to misuse, alteration to the product, or negligence. The warranty does not apply to:

Products showing evidence of misuse, abuse, or accidental damage.

Products in which the defects or damage is a result from use of repairs, parts or accessories not approved, made, or supplied by manufacturer.

Products having a defect or damage caused by operation not in accordance with manufacturer’s written instructions.

Products having a defect or damage due to improper handling or treatment following shipment from manufacturer.

Products that were purchased from an unauthorized seller.

* 1. PART 2 PRODUCTS
		1. VIEWING SURFACE

\*\*\*\*\* Da-Lite®, a Brand of Legrand AV Inc. offers a wide array of projection surfaces for portable projection screens. Selecting the optimum type depends on several factors such as projection method, ambient light conditions, display brightness, room size, seating configuration, projected image make-up, projector placement, and potential for soiling and damage. Refer to Da-Lite® product literature for selection guidelines or contact Da-Lite® for assistance in determining the best screen for a specific project. Not all projection surfaces are available for all models of manual projection screens. Edit the following to include required projection surfaces and delete non-applicable products. \*\*\*\*\*

* + - 1. Standard Viewing Surface:
				1. Basis of Design: High Gain by Da-Lite®, a Brand of Legrand AV Inc.

3100 North Detroit Street, P.O. Box 137, Warsaw, Indiana 46581-0137.

Telephone: 866-977-3901 or 574-267-8101.

Fax: 877-894-6918 or 574-267-7804.

Website: https://www.legrandav.com/products/da-lite.

Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.

\*\*\*\*\* Revise below if Section 01 25 00 - Substitution Procedures is not used on your project. \*\*\*\*\*

Substitutions: Refer to Section 01 25 00 - Substitution Procedures.

* + - * 1. Performance Criteria:

Gain: 2.2.

Viewing Angle: 45 degrees.

* + - * 1. Features:

Material: Acetate based material with smooth surface that can be rolled and cleaned with mild soap and water solution.

\*\*\*\*\* To the extent possible screen surfaces should be fabricated without seams. For large screens, viewing surface may contain one or more horizontal seams depending of selected fabric. Refer to Da-Lite® product literature for screens requiring horizontal seams. \*\*\*\*\*

Seams: Seamless to the extent possible. Where required by size, provide a minimum number of flat, horizontal seams. Vertical seams are not acceptable.

* + - 1. Flame Retardant Viewing Surface:
				1. Basis of Design: Matte White by Da-Lite®, a Brand of Legrand AV Inc.

3100 North Detroit Street, P.O. Box 137, Warsaw, Indiana 46581-0137.

Telephone: 866-977-3901 or 574-267-8101.

Fax: 877-894-6918 or 574-267-7804.

Website: https://www.legrandav.com/products/da-lite.

Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.

\*\*\*\*\* Revise below if Section 01 25 00 - Substitution Procedures is not used on your project. \*\*\*\*\*

Substitutions: Refer to Section 01 25 00 - Substitution Procedures.

* + - * 1. Performance Criteria:

Gain: 1.0.

Viewing Angle: 50 degrees.

* + - * 1. Features:

Material: Flame retardant, mildew resistant, white, vinyl coated fiberglass screen that can be rolled and cleaned with mild soap and water solution].

\*\*\*\*\* To the extent possible screen surfaces should be fabricated without seams. For large screens, viewing surface may contain one or more horizontal seams depending of selected fabric. Refer to Da-Lite® product literature for screens requiring horizontal seams. \*\*\*\*\*

Seams: Seamless to the extent possible. Where required by size, provide a minimum number of flat, horizontal seams. Vertical seams are not acceptable.

* + 1. PORTABLE PROJECTION SCREENS

\*\*\*\*\* Da-Lite®, a Brand of Legrand AV Inc. manufactures 5 portable projection screens. Refer to Da-Lite® product literature for descriptions, illustrations, available sizes, and options for viewing surface. Not all viewing surfaces and installation methods are available for all models.

Viewing surface size is a function of required format which is expressed as the ratio of height to width. Standard formats available for Da-Lite® screens and their ratios are as follows:

Square format: 1.00 to 1.00

HDTV format: 1.00 to 1.78.

NTSC or video format: 1.00 to 1.33.

Select required portable screen model from the following paragraphs and edit to reflect specific options. Delete other models. \*\*\*\*\*

* + - 1. Portable Projection Screen with Pneumatic Spring System and Standard Viewing Surface:
				1. Basis of Design:

Product: Deluxe Insta-Theater by Da-Lite®, a Brand of Legrand AV Inc.

3100 North Detroit Street, P.O. Box 137, Warsaw, Indiana 46581-0137.

Telephone: 866-977-3901 or 574-267-8101.

Fax: 877-894-6918 or 574-267-7804.

Website: https://www.legrandav.com/products/da-lite.

Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.

\*\*\*\*\* Revise below if Section 01 25 00 - Substitution Procedures is not used on your project. \*\*\*\*\*

Substitutions: Refer to Section 01 25 00 - Substitution Procedures.

* + - * 1. Features:

Type: Free-standing, manufactured, collapsible, portable, projection screen with pneumatic spring system allowing screen to be raised and lowered with minimal effort.

Case: Aluminum with black powder paint coating housing rolled screen and pneumatic spring mechanism. Provide case with stabilizing feet.

\*\*\*\*\* Deluxe Insta-Theater is provided in three sizes. Refer to Da-Lite® product literature for dimensions to complete the following. Case lengths are 56-1/2, 71-1/4, and 95-/1/4 inches (141, 181, and 242 cm) for 60, 80, and 100 inches (152, 203, and 254 cm) diagonal screens. \*\*\*\*\*

Case Size: [[56-1/2][71-1/4][95-1/4] by 4-1/2 by 4-1/2 inches.] [[152] [203] [254] by 11.4 by 11.4 cm.]

Viewing Surface: Standard viewing surface as specified above.

\*\*\*\*\* Use Da-Lite® Screen Designer available at http://screendesigner.da-lite.com/ to identify manufacturer’s standard sizes for portable projection screen and viewing surface combinations. \*\*\*\*\*

Manufacturer’s Standard Size: [\_\_\_\_\_].

Provide with black masking borders.

* + - 1. Portable Tripod Type Projection Screen with Flame Retardant Viewing Surface:
				1. Basis of Design:

Product: Picture King by Da-Lite®, a Brand of Legrand AV Inc.

3100 North Detroit Street, P.O. Box 137, Warsaw, Indiana 46581-0137.

Telephone: 866-977-3901 or 574-267-8101.

Fax: 877-894-6918 or 574-267-7804.

Website: https://www.legrandav.com/products/da-lite.

Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.

\*\*\*\*\* Revise below if Section 01 25 00 - Substitution Procedures is not used on your project. \*\*\*\*\*

Substitutions: Refer to Section 01 25 00 - Substitution Procedures.

* + - * 1. Features:

Type: Free-standing, manufactured, collapsible, portable, tripod type projection screen.

Case: Aluminum housing for screen on spring roller. Attach case to tripod support. Provide with built-in lock to secure screen fabric during transport and use to prevent shifting.

\*\*\*\*\* Standard case finish for Picture King is black powder paint coating. Black carpet can be provided as an option. \*\*\*\*\*

Case finish: [Black powder paint coat.][Black industrial grade carpet.]

Tripod support: Extruded aluminum legs with toe release mechanism. Legs mounted on self-locking extension support tube with high and low case adjustment.

Keystone eliminator: Equip top of extension tube with keystone eliminator to tilt screen froward to compensate for projection distortion.

Viewing Surface: Flame retardant viewing surface as specified above.

\*\*\*\*\* Use Da-Lite® Screen Designer available at http://screendesigner.da-lite.com/ to identify manufacturer’s standard sizes for portable projection screen and viewing surface combinations. \*\*\*\*\*

Manufacturer’s Standard Size: [\_\_\_\_\_].

Provide with black masking borders.

* + - 1. Portable Projection Screen with Floor Stand and Flame Retardant Viewing Surface:
				1. Basis of Design:

Product: Floor Model C by Da-Lite®, a Brand of Legrand AV Inc.

3100 North Detroit Street, P.O. Box 137, Warsaw, Indiana 46581-0137.

Telephone: 866-977-3901 or 574-267-8101.

Fax: 877-894-6918 or 574-267-7804.

Website: https://www.legrandav.com/products/da-lite.

Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.

\*\*\*\*\* Revise below if Section 01 25 00 - Substitution Procedures is not used on your project. \*\*\*\*\*

Substitutions: Refer to Section 01 25 00 - Substitution Procedures.

* + - * 1. Features:

Type: Free-standing, manufactured, portable screen and floor stand.

Case: 22-gauge embossed steel case with flat back, enamel finish, and steel end caps housing screen fabric on rigid metal spring roller.

\*\*\*\*\* Use Da-Lite® Screen Designer or ProductSheets available at http://screendesigner.da-lite.com/ to identify manufacturer’s standard sizes. \*\*\*\*\*

Case length: [\_\_\_\_\_ inches][\_\_\_\_\_ cm].

\*\*\*\*\* Standard case finish for Floor Model C is flat black enamel paint. Back carpet can be provided as an option. \*\*\*\*\*

Case finish: [Flat black enamel paint.][Black industrial grade carpet.]

Permanently attach screen fabric to roller with clips at [3 inches] [76 mm] maximum. Provide top of screen with metal slat in pocket. Screw attach aluminum saddle and zinc plated pull to slat.

Provide padded bumper stops to prevent slat wedging inside case.

\*\*\*\*\* Floor Stand is sold separately. \*\*\*\*\*

Floor stand: Aluminum stand set on floor to securely cradle screen case. Equip with self-locking extension tube to hold extended screen. Feet on stand shall provide stability for screen in open position.

Viewing Surface: Flame retardant viewing surface as specified above.

\*\*\*\*\* Use Da-Lite® Screen Designer or ProductSheets available at http://screendesigner.da-lite.com/ to identify manufacturer’s standard sizes for portable projection screen and viewing surface combinations. \*\*\*\*\*

Manufacturer’s Standard Size: [\_\_\_\_\_].

Provide with [black][no] masking borders.

* + 1. ACCESSORIES
			1. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.
	1. PART 3 EXECUTION
		1. EXAMINATION
			1. Verify existing conditions meet the manufacturer's requirements before starting work.

\*\*\*\*\* Retain the following if applicable for your project. \*\*\*\*\*

* + - 1. [Verify products have been stored, and will be installed, in accordance with project's Construction Indoor Air Quality Management Plan specified in Section 01 35 15 - LEED Certification Procedures.]
		1. INSTALLATION
			1. General: Install all materials in accordance with manufacturer's instructions based on conditions present.
			2. Unpack portable projection screens after building painting and cleanup has been completed.
			3. After removal from cartons, assembly screens in accordance with manufacturer's instructions.
			4. Operate each screen and verify it is complete, functional, and without defects. Adjust as required.
			5. Place screens in cases as applicable and store in building area designated by Owner. Obtain receipt from Owner for delivered items.

\*\*\*\*\* Retain the following if applicable for your project. \*\*\*\*\*

* + 1. ADJUSTING
			1. Adjust and lubricate hardware for proper operation.

\*\*\*\*\* Retain the following if applicable for your project. \*\*\*\*\*

* + 1. CLEANING
			1. Dispose of all waste material in accordance with Section 01 74 19 - Construction Waste Management and Disposal and project's Waste Management Plan.
		2. PROTECTION
			1. Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

END OF SECTION