



Milestone AV Technologies. LLC



Milestone AV Technologies, LLC
 3100 North Detroit Street
 Warsaw, IN 46582
 Phone: 866-977-3901
 Fax: 877-325-4832

Email: av.da-lite.support@legrandav.com
 Web: www.legrandav.com

This Manu-Spec® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A Manu-Spec is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This Manu-Spec specifies projection screens manufactured by Milestone AV Technologies. Revise Manu-Spec section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

11 52 13 PROJECTION SCREENS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Projection screens.
 2. [].

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI MasterFormat and specifiers practice.

- B. Related Sections:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [05 5000 – Metal Fabrications] for support framing at projection screens.
2. Section [06 1000 – Rough Carpentry] for wood blocking at projection screens.
3. [].

Specifier Note: Define terms that are unique to this Section and are not provided elsewhere in the contract documents. Include in the Article terms that are unique to the work result specified that may not be commonly known in the construction industry.

1.2 DEFINITIONS



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- A. Gain: Ratio of light reflected from screen material to that reflected perpendicularly from a magnesium carbonate surface in accordance with SMPTE RP 94.
- B. Half-Gain Angle: The angle, measured from the axis of the screen surface to the most central position on a perpendicular plane through the horizontal centerline of the screen where the gain is half of the peak gain.
- C. [].

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

1.3 REFERENCE STANDARDS

- A. Standard of Motion Picture and Television Engineers (SMPTE):
 - 1. SMPTE RP 94 – Gain Determination of Front Projection Screens.
- B. UL LLC (UL):
 - 1. UL 2818 – GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.4 SUBMITTALS

- A. Product Data: Manufacturer's standard specifications, and descriptive literature, including:
 - 1. Safety Data Sheets (SDS).
 - 2. Sample warranty forms.
 - 3. Warranty process requirements for pre-project submittal, field inspection, final project approval, and warranty extensions.
 - 4. [].
- B. Shop Drawings: Graphic information specifically prepared for this Project, including:
 - 1. Dimensioned plans, elevations, and construction details indicating full extent of projection screen work, including: anchors, struts, and safety cables.
 - 2. Verified field dimensions.
 - 3. [].
- C. Manufacturer's Certification for authorized dealer.
- D. Manufacturer's field inspection report.

Specifier Note: Specify submittals intended to document manufacturer storage, installation and other instructions.

- E. Manufacturer's Instructions, including:
 - 1. Delivery, storage and handling.
 - 2. Environmental conditions.
 - 3. Preparation and installation.
 - 4. Maintenance information.

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.



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- F. Product Warranty: Manufacturer's 1-year warranty against defects in materials and workmanship, including repair or replacement.
- G. [].

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized dealer.
- B. Installation Documents On-Site: Maintain copies of manufacturer's installation instructions, approved submittals, and related documents on-site; make available as needed to confirm proper installation.
- C. [].

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle products in accordance with manufacturer's instructions.
- B. Deliver in manufacturer's original packaging with identification labels intact.
- C. Store protected from exposure to harmful weather conditions, and at temperature conditions in accordance with manufacturer's instructions.
- D. Handle with care to avoid damage. Do not install damaged products.

PART 2 PRODUCTS

2.1 PROJECTION SCREENS

Specifier Note: Include in the following Paragraph; manufacturer's name, address, phone number, fax number, e-mail address and website URL.

- A. Manufacturer: Da-Lite, Commercial AV Brand of Legrand; 3100 North Detroit Street; Warsaw, IN 46582; Phone: 866-977-3901; Fax: 877-325-4832; Email: av.da-lite.support@legrandav.com; Website: www.legrandav.com.
- 1. Single Source Responsibility: Provide components and materials specified in this section from same manufacturer.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

- 2. Substitutions: [[Submit in accordance with [Contract Conditions] [Section 01 2500 – Substitution Procedures]] [No substitutions permitted].

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size.

Specifier Note: Coordinate reference standard acronyms used in PART 2 with PART 1, Reference Standards.

- B. Description: Parallax; Ambient light rejecting surface standard with reinforced tabbed holes on all four sides that attaches to frame with elastic rings. Frame will conceal holes and rings. Screen frame will be 2.5 inches (63.5 mm) wide by 1.5 inches (38 mm) deep with a tapered front edge to reduce shadows on the screen surface. Frame to be made of aluminum and finished with a black Pro-Trim fabric covering to enhance appearance and absorb light surrounding the viewing area. Frame to be slip-jointed at corners and joints. Standard wall-mounting brackets will be included. GREENGUARD and GREENGUARD GOLD Certified in accordance with UL 2818.

Specifier Note: Select screen format and size. Custom formants and sizes are available upon request. Minimum size: 18 inches (457 mm) high by 28.75 inches (730 mm) wide; 34 inches (8634 mm) diagonal. Maximum size 59 inches (1500 mm) high by 136.5 inches (3467 mm) wide; 148.75 inches (3778 mm) diagonal.

- 1. [HDTV format (16:9); screen size and weight:

- a. Viewing area: 37.5 inches (953 mm) high by 67 inches (1701 mm) wide.
 - b. Diagonal: 77 inches (1956 mm).
 - c. Weight: 25 pounds (11.3 kg).
2. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 40.5 inches (1029 mm) high by 72 inches (1829 mm) wide.
 - b. Diagonal: 82 inches (2083 mm).
 - c. Weight: 26 pounds (11.8 kg).
3. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 45 inches (1143 mm) high by 80 inches (2032 mm) wide.
 - b. Diagonal: 92 inches (2337 mm).
 - c. Weight: 28 pounds (12.7 kg).
4. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 49 inches (1245 mm) high by 87 inches (2210 mm) wide.
 - b. Diagonal: 100 inches (2540 mm).
 - c. Weight: 30 pounds (13.6 kg).
5. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 52 inches (1321 mm) high by 92 inches (2337 mm) wide.
 - b. Diagonal: 106 inches (2692 mm).
 - c. Weight: 31 pounds (14.1 kg).
6. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 54 inches (1372 mm) high by 96 inches (2438 mm) wide.
 - b. Diagonal: 110 inches (2794 mm).
 - c. Weight: 32 pounds (14.5 kg).
7. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: 59 inches (1499 mm) high by 104.5 inches (2654 mm) wide.
 - b. Diagonal: 120 inches (3048 mm).
 - c. Weight: 34 pounds (15.4 kg).
8. [HDTV format (16:9); screen size and weight:
 - a. Viewing area: [] inches ([] mm) high by [] inches ([] mm) wide.
 - b. Diagonal: [] inches ([] mm).
 - c. Weight: [] pounds ([] kg).
9. [Wide format (16:10); screen size and weight:
 - a. Viewing area: 44.5 inches (1130 mm) high by 71.5 inches (1816 mm) wide.
 - b. Diagonal: 84 inches (2134 mm).
 - c. Weight: 26 pounds (11.8 kg).
10. [Wide format (16:10); screen size and weight:
 - a. Viewing area: 50 inches (1270 mm) high by 80 inches (2032 mm) wide.
 - b. Diagonal: 94 inches (2388 mm).
 - c. Weight: 28 pounds (12.7 kg).
11. [Wide format (16:10); screen size and weight:
 - a. Viewing area: 57.5 inches (1461 mm) high by 92 inches (2337 mm) wide.
 - b. Diagonal: 109 inches (2769 mm).
 - c. Weight: 31 pounds (14.1 kg).
12. [Wide format (16:10); screen size and weight:
 - a. Viewing area: [] inches ([] mm) high by [] inches ([] mm) wide.

- b. Diagonal: [] inches ([] mm).
- c. Weight: [] pounds ([] kg).
- 13. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 37.5 inches (953 mm) high by 88 inches (2235 mm) wide.
 - b. Diagonal: 96 inches (2438 mm).
 - c. Weight: 28 pounds (12.7 kg).
- 14. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 40.5 inches (1029 mm) high by 95 inches (2413 mm) wide.
 - b. Diagonal: 103 inches (2616 mm).
 - c. Weight: 30 pounds (13.6 kg).
- 15. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 45 inches (1143 mm) high by 106 inches (2692 mm) wide.
 - b. Diagonal: 115 inches (2921 mm).
 - c. Weight: 32 pounds (14.5 kg).
- 16. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 49 inches (1245 mm) high by 115 inches (2921 mm) wide.
 - b. Diagonal: 125 inches (3175 mm).
 - c. Weight: 34 pounds (15.4 kg).
- 17. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 52 inches (1321 mm) high by 122 inches (3099 mm) wide.
 - b. Diagonal: 133 inches (3378 mm).
 - c. Weight: 35 pounds (15.9 kg).
- 18. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 54 inches (1372 mm) high by 126 inches (3200 mm) wide.
 - b. Diagonal: 138 inches (3505 mm).
 - c. Weight: 36 pounds (16.3 kg).
- 19. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: 58 inches (1473 mm) high by 136.5 inches (3467 mm) wide.
 - b. Diagonal: 148 inches (3759 mm).
 - c. Weight: 39 pounds (17.7 kg).
- 20. [Cinemascope format (2.35:1); screen size and weight:
 - a. Viewing area: [] inches ([] mm) high by [] inches ([] mm) wide.
 - b. Diagonal: [] inches ([] mm).
 - c. Weight: [] pounds ([] kg).
- 21. [Custom format ():]; custom screen size and weight:
 - a. Viewing area: [] inches ([] mm) high by [] inches ([] mm) wide.
 - b. Diagonal: [] inches ([] mm).
 - c. Weight: [] pounds ([] kg).

Specifier Note: Select screen surface.

- 22. [Screen surface: Parallax 0.8; 85 degree half angle; 0.8 gain].
- 23. [Screen surface: Parallax UST 0.45; 80 degree half angle; 0.45 gain].
- 24. [Screen surface: Parallax 2.3; 23 degree half angle; 2.3 gain].

Specifier Note: Select installation method to meet Project requirements.



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C. Components:

1. Screen: Seamless, flame retardant, and mildew resistant polyethylene terephthalate projection surface; aluminum frame; black velour frame covering; black oxide finish and zinc finish steel machine screw fasteners.
2. ☐

Specifier Note: Select accessories to meet Project requirements. Note accessories on drawings, or schedule in PART 3, Attachments.

2.2 ACCESSORIES

- A. Wall mount brackets: 7 gauge (4.6 mm) cold rolled steel; powder coated finish; color, standard [black].
- B. ☐.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that conditions of work previously installed under other sections or contracts are acceptable for installation in accordance with manufacturer's instructions, and approved submittals.
 1. Notify [Architect] of unacceptable conditions upon discovery.
 2. Proceed with installation only after unacceptable conditions have been corrected.
- B. ☐.

3.2 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

- A. Prepare mounting locations for projection screens in accordance with manufacturer's instructions, and approved submittals.
- B. ☐.

3.3 FIELD QUALITY CONTROL

Specifier Note: Specify requirements for quality control and related quality assurance for onsite activities and installed materials, manufactured units, equipment, components and accessories.

- A. Prepare mounting locations for projection screens in accordance with manufacturer's instructions, and approved submittals.
- B. Manufacturer's field inspection.
- C. ☐.

Specifier Note: Specify requirements for quality control and related quality assurance for onsite activities and installed materials, manufactured units, equipment, components and accessories.

1. Manufacturer's field inspection.
2. ☐.

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.4 CLEANING

- A. Clean-up packaging, waste material, and construction debris daily during installation; legally dispose of as directed by Contractor.
- B. Upon completion, remove surplus material, remaining debris, tools, and equipment.



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C. [].

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Protection of surrounding areas and surfaces during application or installation is included under PART 3, Preparation. Include only statements unique to this Section.

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

3.5 PROTECTION

A. Protect installed products from damage during subsequent construction work until Final Inspection, and acceptance by Owner.

B. [].

Specifier Note: Schedules are sometimes placed in the specifications rather than on drawings. Include schedules that indicate item/element/product/equipment, location and other coordinating data.

3.6 ATTACHMENTS

A. Projection Screen Schedule:

B. [].

END OF SECTION