

**SECTION 11 5213
PROJECTION SCREENS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Front projection screen assemblies.

1.02 RELATED REQUIREMENTS

- A. Section 26 2717 - Equipment Wiring: Electrical supply, conduit, and wiring for electric motor operated projection screens.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog cuts and descriptive information on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Wiring diagrams for motor operators and actuators, and controls and switches.
- C. Shop Drawings: For custom installations, indicate dimensions, verified field measurements, mounting details, and interface with adjacent construction.
- D. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver projection screens to project site in manufacturer's original unopened packaging. Inspect for damage and size before accepting delivery.
- B. Store in a protected, clean, dry area with temperature maintained above 50 degrees F (10 degrees C). Stack according to manufacturer's recommendations.
- C. Acclimate screens to building temperatures for 24 hours prior to installation , or in accordance with manufacturer's recommendations.

1.05 FIELD CONDITIONS

- A. Maintain interior of building between 60 degrees F (15 degrees C) and 80 degrees F (___ degrees C) during and after installation of projection screens.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Provide 5 year manufacturer warranty for projection screen assembly.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Da-Lite Screen Company : www.da-lite.com.
- B. Substitutions: See Section 01 6000 - Product Requirements.

2.02 FRONT PROJECTION SCREENS

- A. Manufacturers:
 - 1. Da-Lite Screen Company ; _____: www.da-lite.com.
- B. Front Projection Screens: Factory assembled unless otherwise indicated.
 - 1. Basis of Design:
 - a. Tensioned Advantage Electrol
 - b. 54"x96"
 - 1) In Classroom 413S: Motorized , matte light diffusing fabric screen , horizontally tensioned , ceiling recessed.

- (a) Screen Dimensions: 54 inch high x 96 inch wide (____ mm high x ____ mm wide).
- C. Matte Light Diffusing Fabric: Light diffusing screen fabric; washable, flame retardant and mildew resistant.
 - 1. Material: Matte white vinyl on fiberglass backing, with nominal gain of 1.0 over viewing angle not less than 70 degrees from axis, horizontally and vertically.
- D. Concealed-in-Ceiling Screen Cases: Steel; integral roller brackets.
 - 1. Door Slat: Self trim; self-closing and -opening.
 - 2. Case Finish: Baked enamel.
 - 3. Case Color: White.
 - 4. End Caps: Steel; finished to match case.
- E. Electrically-Operated Screens:
 - 1. Roller: 2 inch (51 mm) aluminum , with locking device.
 - 2. Vertical Tensioning: Screen fabric weighted at bottom with steel bar with plastic end caps.
 - 3. Horizontal Tensioning: Tab-guided cable system.
- F. Provide mounting hardware, brackets, supports, fasteners, and other mounting accessories required for a complete installation, in accordance with manufacturer's recommendations for specified substrates and mountings.

2.03 ELECTRICAL COMPONENTS

- A. Electrical Components: Listed and classified by UL as suitable for the purpose specified and indicated.
- B. Motors: Direct drive, 110 V, 60 Hz.
 - 1. Screen Motor: Mounted inside roller; three wire with ground; quick reverse type, lifetime lubricated, and _____; equipped with thermal overload cut-off, internal junction box, electric brake, pre-set accessible limit switches, and _____.
 - a. Electrical Characteristics: 1.2 amps.
 - b. Motor mounted on sound absorber.
- C. Controls: Three (3) position control switch with plate.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate is finished and ready to accept screen installation.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that openings for recessed screens are correctly sized.
- D. Verify type and location of electrical connections.
- E. Do not install projection screens until climate control systems are in place and interior painting and other finishes are completed.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions, using manufacturer's recommended hardware for relevant substrates.
- B. Do not field cut screens.
- C. Install screens in mountings as specified and as indicated on drawings.
- D. Install plumb and level.
- E. Install electrically operated screens ready for connection to power and control systems by others.
- F. Adjust projection screens and related hardware in accordance with manufacturer's instructions for proper placement and operation.

G. Test electrical screens for proper working condition. Adjust as needed.

3.03 PROTECTION

A. Protect installed products until completion of project.

B. Touch up, repair, or replace damaged products before Substantial Completion.

END OF SECTION 11 5213

TULSA TECHNOLOGY CENTER

EMS RENOVATION

PEORIA CAMPUS

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DIVISIONS 26 AND 27

ELECTRICAL INDEX



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DIVISION 26 – ELECTRICAL

SECTION 26 0500 – COMMON WORK RESULTS FOR ELECTRICAL

SECTION 26 0519 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

SECTION 26 0526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

SECTION 26 0533 – RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

SECTION 26 2200 – LOW-VOLTAGE TRANSFORMERS

SECTION 26 2416 – PANELBOARDS

SECTION 26 2726 – WIRING DEVICES

SECTION 26 2813 - FUSES

SECTION 26 2816 – ENCLOSED SWITCHES AND CIRUCIT BREAKERS

SECTION 26 2910 – CONTACTORS AND RELAYS

SECTION 26 5000 - LIGHTING

DIVISION 27 - COMMUNICATIONS

SECTION 27 0500 – COMMON WORK RESULTS FOR COMMUNICATIONS