

SECTION 12495

INSOLROLL RADIANCE SOLAR SCREEN SHADES

PART 1 GENERAL

1.01 SECTION INCLUDED

Insolroll Radiance Solar Screen Shades to be custom manufactured to conform with site requirements. Provide all accessories, attachment hardware, labor, and equipment necessary to complete installation of this section.

1.02 REFERENCES

- A. Flame retardant materials used shall meet the requirements of the National Fire Protection Association (NFPA) 701 Flame Test and California U.S. Title 19.

1.03 SUBMITTALS

- A. Submit manufacturers descriptive literature indicating materials, finishes, construction and installation instructions and data verifying that the product meets requirements specified.
- B. Shop drawings to indicate all fasteners, installation methods and clearances at head, jamb and sill for each mounting condition.
- C. Samples to be submitted in sizes no less than 12” in length for colored materials. Submit a sample of all exposed surfaces and accessories needed to complete the installation. Color samples to be submitted to the architect for selection.
- D. Submit all quality assurance documents relative to the installation, including design data, test reports, certificates issued by Underwriters Laboratory, manufacturer’s instructions, manufacturer’s installation instructions and close-out submittal documents if available.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver to project site in manufacturer’s original packaging.
- B. Handle and store to prevent damage to materials, finishes and operating mechanisms.
- C. All materials delivered to the site shall remain the property of the manufacturer until installation is complete and final payment is received.

1.05 PROJECT CONDITIONS

- A. Prior to any materials being installed, the building shall be enclosed.
- B. All interior finishes are to be completed and dry prior to any material installation.

1.06 SEQUENCING

- A. Installation of all materials included in this section to be coordinated and complete prior to furniture placement on floor surface.

1.07 WARRANTY

- A. Provide manufacturer’s standard one ( 1 ) year warranty against defects in materials and workmanship, beginning at date of substantial completion.

## PART 2 PRODUCTS

### 2.01

- A. **Manufacturer: Insolroll Window Shading Systems**  
**637 S. Pierce Ave.**  
**Louisville, CO 80027**  
**800-447-5534**
- B. Insolroll Radiance Solar Screen Shades are available with manual or motorized operation and a variety of solar screen shading fabrics. Accessories are available as suitable for application.

### 2.02 MANUAL OPERATING SYSTEM

- A. Adjustment-free system shall be provided that is controlled by a nickel plated, steel ball chain or plastic bead chain on polyester cord. The clutch system shall be comprised of multi-banded steel springs that create the pressure necessary to keep the shade in the desired position. Four clutch sizes ( 8, 16, 24, 30 lbs. ) are available for operational flexibility. Clutches are asymmetrical for right or left hand installation.
- B. Roller tube shall be roll formed steel or extruded aluminum. Roller tube to be sized appropriately to minimize deflection.
- C. Fabric to be attached to roller tube using two sided adhesive tape that allows for easy adjustment of fabric for leveling and removal of fabric panel without removing brackets.
- D. Bottom hem of shade to be RF heat sealed pocket with enclosed hem bar.

### 2.03 MOTORIZED OPERATING SYSTEM

- A. Motor shall be tubular type mounted inside the shade tube and operate on 110 volts. Motor is to have a self-contained limit and thermal overload switch. Internal limits shall determine the full-up and full-down position of the shade.
- B. Switches and controls available for individual or group control of motors, remote operation or interface with automation systems.
- C. Insolroll Quiet Motors (IQM)-Standard and Radio Remote

### 2.04 SHADE ACCESSORIES

- A. Extruded aluminum 3" and 4" fascia snaps onto the mounting brackets. Fascia is available in white and bronze.
- B. Extruded aluminum 4" top/back cover available in white and bronze
- C. 5" x 4 3/4" extruded aluminum ceiling pocket with access flap is available in white only
- D. Insolroll extruded aluminum 5 5/8" Ceiling Pocket System
- E. Access flap with hanger is available for bottom closure of site built pockets in white only.
- F. Custom dual shade pocket

### 2.05 SOLAR SCREEN FABRICS

- A. Silver Screen 5% open
- B. "GreenGuard" Certified fabrics available
- C. Additional Insolroll fabric choices available

### PART 3 EXECUTION

- A. Site inspection and preparation shall be the responsibility of the shade installer. The approval of all mounting surfaces, installation positioning within and around all openings and measurements shall be approved by architect and the blind installer.
- D. Install all blinds in windows level and plumb and in accordance with manufacturer's product data and approved shop drawings.
- E. Occasional cleaning using a mild detergent, brushing and rinsing.
- F. Any adjustments needed to units after the installation are the responsibility of the installer and will be performed free of charge for a period of one year.