

SECTION 108217 - EXTERIOR ROLLING SCREENS

PART 1 - GENERAL

0.1 SUMMARY

- A. Section Includes: **Motor-operated** exterior rolling screen assemblies.

0.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for rolling screens.
- B. Shop Drawings: Show fabrication and installation details for rolling screens, including screen materials and their orientation to rollers.
1. Motor-Operated Screens: Include details of installation and diagrams for power, signal, and control wiring.
- C. Samples: For each exposed product and each color and texture specified.

0.3 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For rolling screens to include in maintenance manuals.

PART 2 - PRODUCTS

0.1 MANUFACTURERS

- A. Basis-of-Design Products: Subject to compliance with requirements, provide the following:
1. Roller-Screen System: Progressive Screens; Magnatrack.
 2. Screen Material: Serge Ferrari (sergeferrari.com); SOLTIS 88.

0.2 ROLLING SCREENS

- A. Motorized Operating Mechanisms: Provide factory-assembled screen-operator systems of size and capacity and with features, characteristics, and accessories suitable for conditions indicated and recommended by manufacturer for use with screens indicated.
1. Electrical Components: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 2. Electric Motors: Manufacturer's standard for operating rolling screens.
 3. Remote Controls: Individual/group wall-switch control stations. Locations selected by owner and Architect.
 4. Crank-Operator Override: Crank and gearbox operate screens in event of power outage or motor failure.
 5. Limit Switches: Adjustable switches, interlocked with motor controls and set to stop screen movement automatically at fully raised and fully lowered positions.
- B. Manual Operating Mechanisms: With continuous-loop operator that stops screen movement when released; permanently adjusted and lubricated.

- C. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of screens indicated without deflection.
 - 1. Screen-to-Roller Attachment: Manufacturer's standard method.
- D. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
- E. Screens:
 - 1. Screen Material: Light-filtering fabric.
 - 2. Screen Bottom Bar: Manufacturer's standard weighted bar with felt closure strip.
 - a. Color and Finish: As selected by Architect from manufacturer's full range.
- F. Installation Accessories:
 - 1. Rolle Housing: Manufacturer's standard rectangular enclosure suitable for mounting style indicated; of size required to enclose roller when screen is fully open.
 - 2. Side Channels: Manufacturer's standard, with screen guides or other means of aligning screens with channels at tops.
 - 3. Installation Accessories Color and Finish: As selected from manufacturer's full range.

0.3 SCREEN MATERIALS

- A. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Type: Even weave pattern with textured appearance and uniform transparency.
 - 2. Weave: Mesh.
 - 3. Color: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

0.1 ROLLER-SCREEN INSTALLATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, **[accurate locations of connections to building electrical system,**]and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Install rolling screens level, plumb, and aligned with adjacent units according to manufacturer's written instructions.
- D. Electrical Connections: Connect motor-operated rolling screens to building electrical system.
- E. Adjust and balance rolling screens to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- F. Clean roller-screen surfaces after installation, according to manufacturer's written instructions.