Solarity® Solar Shades

- Bring balance to your space by controlling light and temperature without sacrificing your view
- A range of fabrics and colors are available to satisfy almost any need; choose from solar screen, high performance, translucent, and blackout fabric options
- All fabric options may contribute to LEED credits in EAc1 and EQc7 due to their high energy performance and daylighting attributes
- Digitally printed shades are available; a great option for signage or to add visual interest or architectural impact
Solarity® Solar Shades
Suggested Specification

SECTION 122413 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract,
   including General and Supplementary Conditions
   and Division 01 Specification Sections, apply to this
   Section.

1.2 SUMMARY
A. Section Includes:
   1. Manually operated roller shades with single or
double rollers
   2. Motor-operated roller shades with single or
double rollers
   3. Fixed roller shades for skylights.
   B. Related Requirements:
      1.1 RELATED DOCUMENTS
      1.2 SUMMARY
      1.3 PROTECTION
      1.4 INFORMATIONAL SUBMITTALS
      1.5 CLOSEOUT SUBMITTALS
      1.6 MAINTENANCE MATERIAL SUBMITTALS
      1.7 QUALITY ASSURANCE
      1.8 DELIVERY, STORAGE, AND HANDLING
      1.9 FIELD CONDITIONS
      1.10 INSTALLATION
      1.11 QUALITY ASSURANCE
      1.12 SUMMARY

1.3 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 roller shades.
   2. Shop Drawings: Show fabrication and installation
details for roller shades, including fabric panel
materials, their orientation to rollers, and their seam
and batten locations.

1.4 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Installer
   B. Product Certificates: For each type of fabric panel
material, signed by product manufacturer.
   C. Product Test Reports: For each type of fabric panel
material, for tests performed by manufacturer and
witnessed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS
A. Maintenance Data: For roller shades to include in
maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS
A. Furnish extra materials that match products
installed and that are packaged with protective
covering for storage and identified with labels
describing contents.

1.7 QUALITY ASSURANCE
A. Installer Qualifications: Fabricator of products.

B. Mockups: Build mockups to verify selections made
under Sample submittals, to demonstrate aesthetic
effects, and to set quality standards for materials
and execution.

1. Approval of mockups does not constitute approval
of deviations from the Contract Documents
contained in mockups unless Architect specifically
approved such deviations in writing.

2. Subject to compliance with requirements, approved
mockups may become part of the completed Work
if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING
A. Deliver roller shades in factory packages, marked
with manufacturer, product name, and location of
installation using same designations indicated on
Drawings.

1.9 FIELD CONDITIONS
A. Environmental Limitations: Do not install roller
shades until construction and finish work in spaces,
including painting, is complete and dry and
ambient temperature and humidity conditions are
maintained at the levels indicated for Project when
occupied for its intended use.

B. Field Measurements: Where roller shades are
indicated to fit to other construction, verify
dimensions of other construction by field
measurements before fabrication and indicate
measurements on Shop Drawings. Allow clearances
for operating hardware of operable glazed units
through entire operating range. Notify Architect
of installation conditions that vary from Drawings.

Coordinate fabrication schedule with construction
progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 Section 016000 “Product
Requirements” MANUFACTURERS
A. Manufacturers: Subject to compliance with
requirements, provide products by the following:
1. Solarity by Inpro Corporation
2. Curriculum by Architect from manufacturer's
standard.

B. Source Limitations: Obtain roller shades from single
source from single manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE
ROLLERS
A. Chain-and-Clutch Operating Mechanisms:
   With continuous-loop bead chain and clutch
   comprised of multi-banded steel springs that stops
   shade movement when bead chain is released;
   permanently adjusted and lubricated.

B. Spring Operating Mechanisms: Roller contains
   spring sized to accommodate shade size indicated.
   Provide with positive locking mechanism that can
   stop shade movement at each half-turn of roller and
   with manufacturer's standard pull.

C. Rollers: Corrosion-resistant steel or extruded-
   aluminum tubes of diameters and wall thicknesses
   required to accommodate operating mechanisms
   and weights and widths of fabric panels indicated
   without deflection. Provide with permanently
   lubricated drive-end assemblies and idle-end
   assemblies designed to facilitate removal of fabric
   panels for service.

1. Roller Drive-End Location: Right side of inside
   face of shade, unless indicated otherwise on the
drawings.

2. Direction of Fabric Panel Roll: Regular, from back
   of roller.

3. Fabric Panel-to-Roller Attachment: Manufacturer’s
   standard method.
   Provide with positive locking mechanism that can
   stop shade movement at each half-turn of roller and
   with manufacturer’s standard pull.

D. Mounting Hardware: Brackets or endcaps, corrosion
   resistant and compatible with roller assembly,
   operating mechanism, installation accessories,
   and mounting location and conditions indicated.

E. Roller-Coupling Assemblies: Coordinated with
   operating mechanism and designed to join up to
   three inline rollers into a multiband shade that is
   operated by one roller drive-end assembly.

F. Fabric Panels:
   1. Fabric Panel Material: Light-filtering fabric (Light-
      blocking fabric).
   2. Fabric Panel Bottom (Hem) Bar: Enclosed in hem
      pocket of fabric panel material, thermally sealed,
      not sewn.
   a. Bottom (Sill) Channel: With light seals and
designed to eliminate light gaps at bottoms of shades
   when shades are closed.
   b. Color and Finish: As selected by Architect from
      manufacturer's full range.

G. Installation Accessories:
   1. Front Fascia: Aluminum extrusion that conceals
      front and underside of roller and operating
      mechanism and attaches to roller endcaps
      without exposed fasteners.
   a. Shape: [L-shaped] [Curved] [Cassette]
   b. Height: Manufacturer's standard height required to
      conceal roller and fabric panel when shade is fully
      open, but not less than 3 inches (76 mm).
   c. Color options below apply only to L-shaped fascia.
      1) Color: [Bronze] [Black] [White] [Clear anodized]
      [Vanilla].
   d. Color options below apply only to curved and
      cassette fascia.
      1) Color: [Fabric-wrapped] [Black] [White].
   2. Exposed Headbox: Rectangular, extruded-
      aluminum enclosure including front fascia, top and
      back covers and endcaps.
   a. Height: Manufacturer’s standard height required to
      conceal roller and fabric panel when shade is fully
      open, but not less than height indicated on
      Drawings.
   3. Endcap Covers: To cover exposed endcaps.