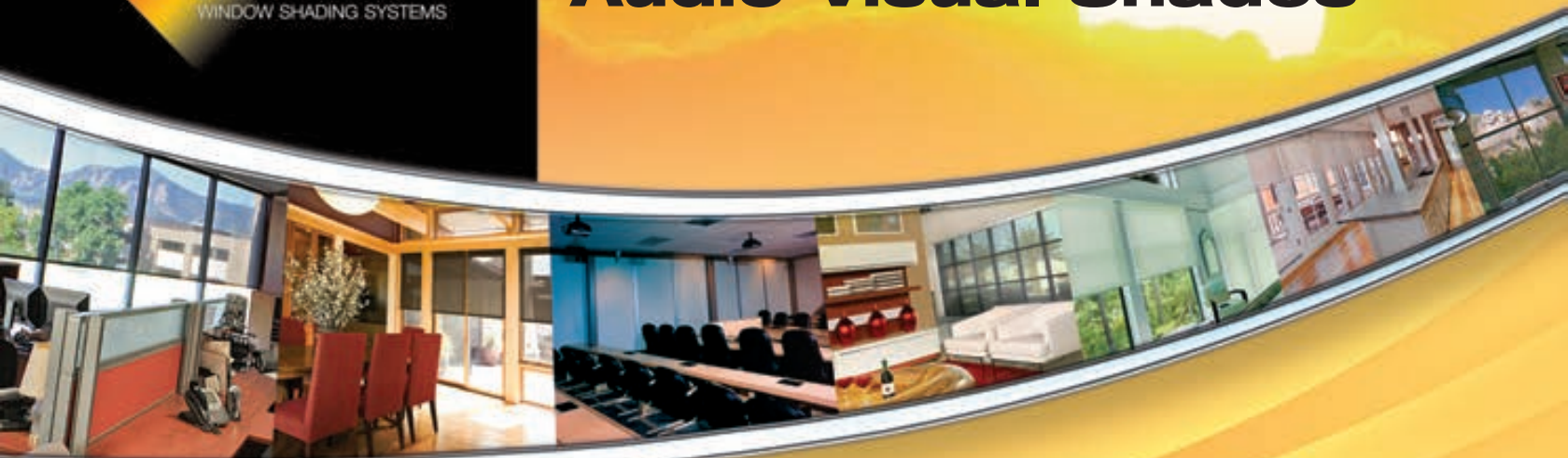
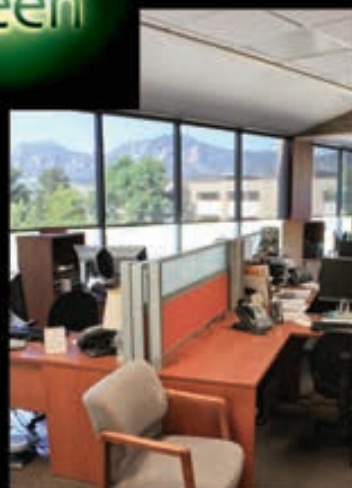
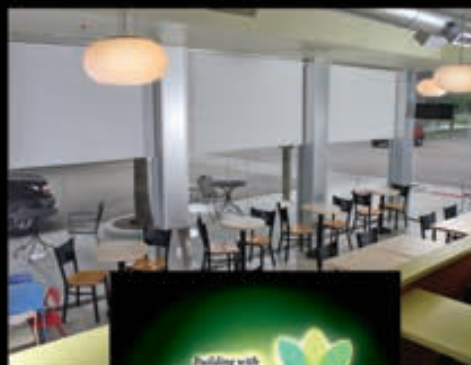




# Solar Screen & Audio-Visual Shades



INTERIOR  
EXTERIOR  
COMMERCIAL  
RESIDENTIAL  
ECO-FRIENDLY




Control natural  
daylight...

Enhance building  
performance...

*Block the Sun,  
Not the View!*

[www.insolroll.com](http://www.insolroll.com)





Allow as much natural light into a space as possible, while controlling heat and glare, and maintaining the user's connection to the outside world.

## Daylighting

- Live and work comfortably
- Control Light
- Protect valuable interiors
- Conserve energy
- Limit artificial light

HEALTH CARE • EDUCATION • BUSINESS • RETAIL •



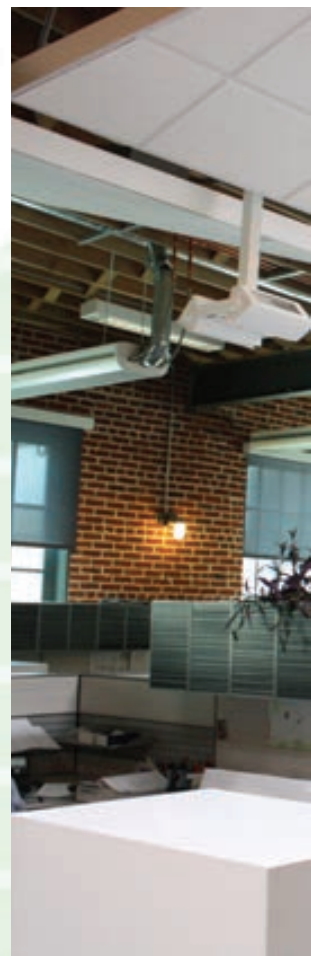
## LEED distinction

*“The Insolroll solar shades are perfect for our application. They eliminated our glare problem while allowing us to maintain beautiful mountain views.”*

Matt Hickey, Finance & Facility Services  
North Boulder Recreation Center  
Silver LEED™ Certified Building



Insolroll EnviroScreen Shades were chosen by the Slater Paull Architecture Firm, for their Platinum LEED™ candidate building in Denver, Colorado. Designed with ample daylighting in order to reduce energy costs and allow a close connection with the outdoor environment, this application showcases the benefits of solar screen shades.



# Maintaining View

- Health Benefits
- Enhanced sense of well-being
- Increased Productivity
- Maintain connection to the outside world

INSTITUTIONAL • HOSPITALITY • RESIDENTIAL



## Building with SHADES of Green

### ■ Performance

Solar Screen Shades aid in conserving energy, increasing thermal comfort and controlling heat and glare while maintaining connectivity to the outdoors.

### ■ Content

- GreenGuard® Indoor Air Quality Certified® Fabrics
- PVC-Free Fabrics  
(Tranquility, EnviroScreen Fabrics)
- Certified Recyclable Fabric  
(Infinity<sub>2</sub> Fabric)





# Selecting the Right Fabric Type

Account for room function, sun exposure, view requirement, fabric color...

## Visual Performance

Blackout ☀️



- Blocks all light
- Provides daytime and nighttime privacy
- Available in variety of colors and patterns

Translucent ☀️



- Allows light flow into the space- no view out
- Provides daytime and nighttime privacy
- Available in variety of colors and patterns (amount of light flow varies)

Solar Screen ☀️



- Maintains view and open feeling to the outside while reducing heat and glare
- Provides daytime privacy only
- Woven to very specific standards to meet performance demand. See specific guidelines at right:



## High-Performance Energy-Efficient Fabrics

Solar screen fabrics engineered to achieve the highest energy performance, reduce glare and save energy regardless of the fabric color.

### SilverScreen

- Highly reflective, fine layer of aluminum vacuum-formed to a PVC-coated fiberglass solar screen fabric (5% +/- openness)
- Visible Light Transmission <6% All Colors
- Shading Coefficient approximately .15- All Colors



Light-colored fabrics provide more heat reduction and diffuse interior light.

Sahara  
3% open  
fabric shown



Dark colored fabrics provide more glare reduction and better view-through.

Sahara  
5% open  
fabric shown



## Color

## Density

Woven to precise standards, our fabrics consist of polyester or fiberglass yarns with a vinyl coating and are woven in a range of densities from 1% to 14%.

Fabric density affects the amount of UV and glare protection, as well as the clarity of view.

## Thermal & Optical Factors



### VLT- Visible Light Transmission

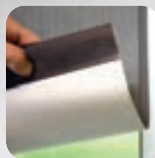
The percentage of the visible light allowed to pass through the solar screen shade and window combined- VLT is impacted by the openness factor, fabric color and the amount of light that transmits through the fabric. A low figure (<10) indicates effective glare reduction.



3% Openness



5% Openness



## The Silver Advantage

The highly reflective surfaces of both SilverScreen and EnviroScreen create a shading fabric that outperforms all others at reducing heat, controlling glare, and retaining view regardless of color choice.



### SC-Shading Coefficient

The effectiveness of the fabric at filtering the heat from solar radiation- a low figure means high protection from heat flow.

## EnviroScreen

- Highly reflective, fine layer of aluminum vacuum-formed to Trevira CS fabric (2% +/- openness)
- Visible Light Transmission <5% all colors
- Shading Coefficient approximately .28-All colors

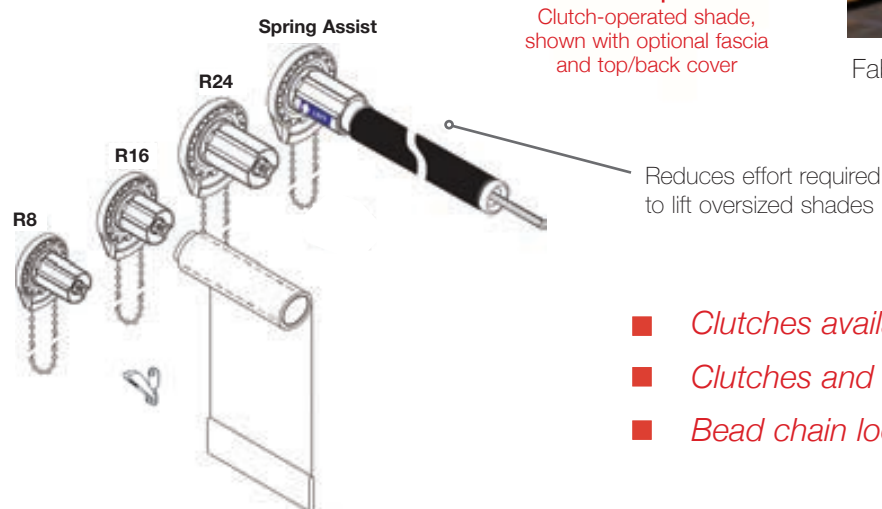
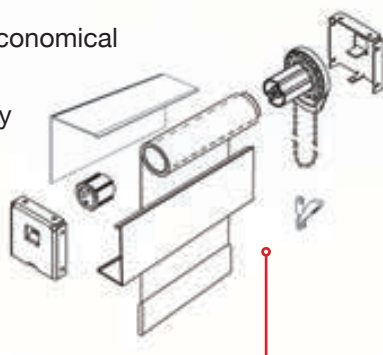


*The ultimate "Green" roller shade fabric*

# Insolroll® Clutch-Operated Roller Shade System

An adjustment-free system controlled by a nickel-plated steel ball chain or a plastic bead chain on polyester cord. The clutch system is comprised of multi-banded steel springs that create the pressure necessary to keep the shade in the desired position.

- Smooth, easy to operate, economical roller shade operator
- Specified in two out of every three roller shade projects worldwide
- Universal one-piece mounting brackets for easy mounting to wall or ceiling



Fabric shown: Insolroll Mojave, 5% open

- Clutches available to accommodate shades of all sizes
- Clutches and brackets available in black and vanilla
- Bead chain loops available in 6 colors

## Child Safety Compliant Locking Chain Guides

Bead-chain loops have been identified by the CPSC as child strangulation hazards. ANSI Child Safety Standards have been established requiring that the bead-chain loops be firmly attached to the wall or sill with a locking chain guide device that renders the shade inoperable if the chain guide becomes detached. Insolroll offers two versions of the locking chain guide (shown at right).

Insolroll's unique and proprietary "MetalSelect" locking chain guides are more durable and more attractive than the industry-standard chain guide.



Metal Select Chain Guide; available in 5 colors



Universal Chain Guide; available in 4 colors

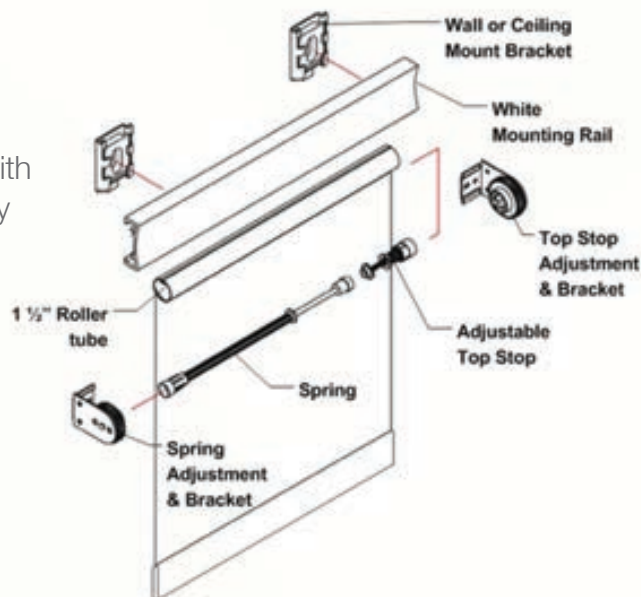


# Insolroll® Cordless Spring Roller Shades

We have upgraded the traditional spring roller shade with an innovative new system, that eliminates Child Safety Issues associated with corded loop shade operators!

- Adjustable top stop prevents shade from going up too high
- Easy, spring tension adjustment
- Installer-friendly mounting rail snaps into spring-loaded brackets

Note: Crank & Gear Operated Shades also available



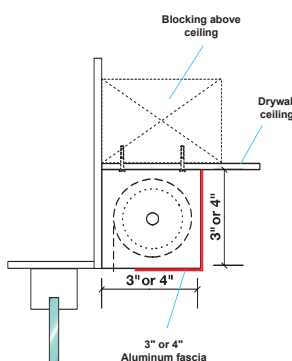
## Hardware Detailing

We have designed a number of accessories to meet the aesthetic and functional needs of every application.

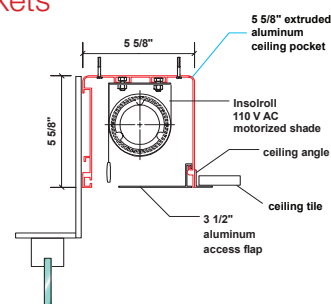
### Exposed Roller



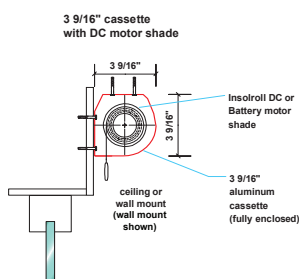
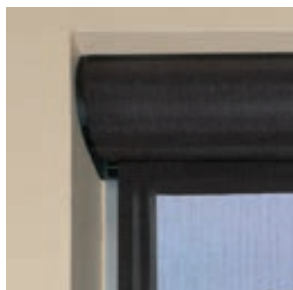
### Fascia System



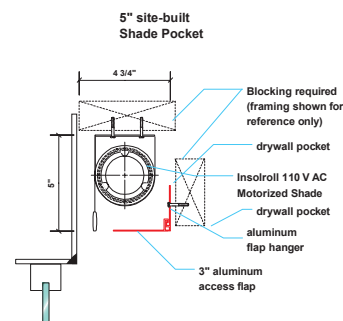
### Extruded Shade Pockets



### Cassette-Style Headbox



### Access Flap & Hanger for Site-Built Pocket



## Insolroll® Motorized Roller Shades

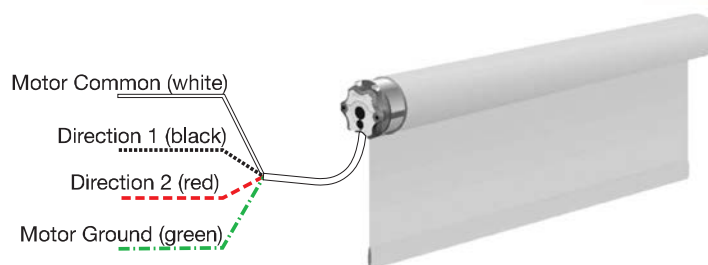
Motorized systems feature 110 Volt AC, 24 Volt DC or Battery powered tubular-type directional motors specifically designed for roller shades.

- Trouble-free operation of oversized or hard-to-reach shades
- Allows all shades in a group to operate in unison for a uniform appearance
- No dangling cords, ensuring a clean appearance and eliminating child-safety issues



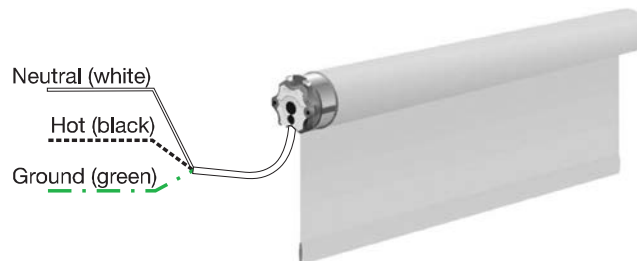
### Four-wire Directional

Traditional 4-wire configuration (ground, two-directional wires & neutral) requires hard-wired switch legs, relays or 14/3 or 12/3 home-run (3 wire + ground) for home automation projects. Very reliable and least expensive.



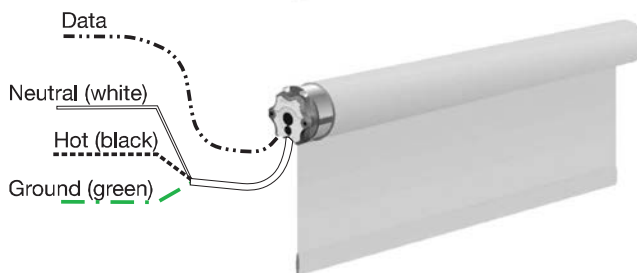
### Radio Motors

Built-in radio control 3-wire configuration requires AC power to each motor and eliminates switch legs. Ideal for retrofit applications and simple, new construction pre-wire scenarios. Motors can be programmed for remote control transmitters, wall switches, and home automation interfaces.

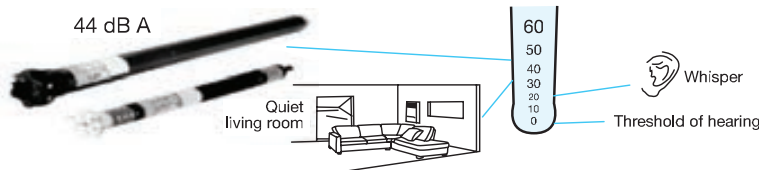


### Intelligent Motors

Motors have built-in intelligent motor controller and require AC power + data (4 conductor) connections. The system offers seamless integration and two-way data feedback can be provided between motors.



## Quiet Motors



Operating at 44 decibels\*, our Insolroll Quiet Motors (IQM) incorporate the latest in noise reduction technology, and are 50% quieter than standard motors. The distinctive click heard when a standard motor starts up has also been eliminated. For applications demanding motorized window treatments that operate in virtual silence. Our new “Silent Pin” idler further reduces mechanical noise.

\*at a distance of 3 feet



# *Insolroll® Switching Methods & Motor Controls*

## Switching Methods

- Hard-Wired Switches
- Remote Control Transmitters
- Remote Control Wall Switches
- Interfaces for 3rd Party Switching



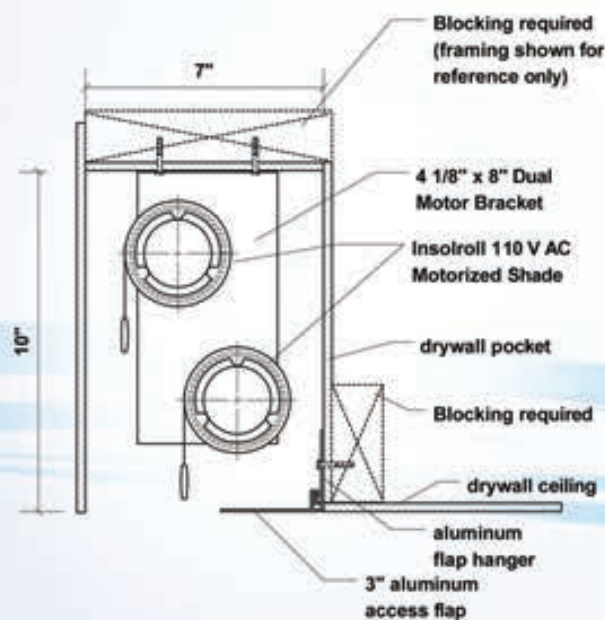
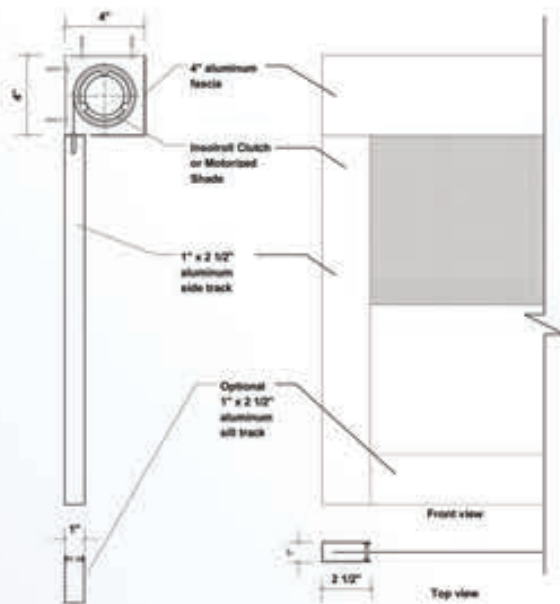
## *Myriad Solutions for Seamless Connectivity*



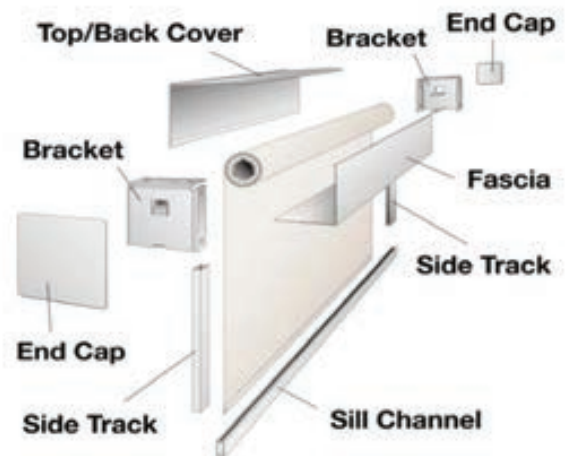
Insolroll offers the widest array of switching and control methods in the motorized window treatment industry. Our “Open Architecture” controls allow for easy interface with virtually all brands of control systems.

## Blackout & Dual Shades

Insolroll Blackout & Dual Shades provide both room darkening and ambient light control. Insolroll audio-visual blackout and dual shade systems create the perfect environment for any business or entertainment event. Ideal for conference centers, schools, hospitals, home theaters, or any location which requires the elimination of light through windows.



### Insolroll Blackout Shade System



Available with:

- Fascia Systems
- Access Flap & Hanger for custom pockets
- Extruded Headboxes

Side tracks to reduce light leakage are an additional, available option. A wide range of blackout fabrics are available to coordinate with any décor.



# Oasis Exterior Shades

Shading solutions for patios and windows

## Oasis® 2900 Solar Insect Shades



- Minimizes fabric movement due to wind and outdoor elements
- Prevents insect intrusion
- Decreases solar heat and glare

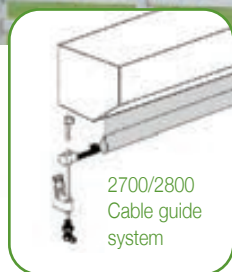
## Oasis® 2800 Patio Shades



## Oasis® 2700 Exterior Window Shades



## Oasis® 2600 Sun Shades



2800/2700  
Choice of  
**track or cable**  
guide  
system to  
secure fabric



- Reinforced cast-aluminum brackets
- Aluminum head box
- Fabric edge welded
- Exterior crank *OR* motorized operation
- Heavy-duty side track or cable system

- Reinforced cast-aluminum brackets
- Aluminum head box
- Fabric edge welded
- Interior crank *OR* motorized operation
- Heavy-duty side track or cable system

- Heavy-duty brackets
- Exterior-grade clutch and bead chain
- Fabric edge welded
- Bungee cord hold-downs

# Digital Print Shades

We print custom logos and images on shades!

Visible to passing motorists, Digital Print Shades add architectural interest and impact to a community recreation center

- Custom patterns
- Branding
- Signage
- Architectural & Visual Impact

*Our Quality Pledge*



**Oasis® Solar Screen Patio and Window Shades**

**FIVE YEAR LIMITED WARRANTY**

**Insolroll® Interior Solar Screen & Audio-Visual Shades**

**TEN YEAR LIMITED WARRANTY**

**Insolroll® Interior Solar Screen & Audio-Visual Shades**

**LIFETIME LIMITED WARRANTY**

*(Commercial projects only, upon request and approval)*

\*Insolroll online

- Complete Technical Downloads
- MasterSpec® Format
- Fabric Options
- Photo Gallery

[www.insolroll.com](http://www.insolroll.com)

PRODUCT  
MASTERSPEC™

## *Why Insolroll?*

**Insolroll Window Shading Systems manufactures top quality solar screen shade and audio-visual shade systems.**

- Over 30 years experience in the solar screen shade industry
- State-of-the-art manufacturing facility
- Interior, exterior, audio-visual, and dual shade applications
- North American Installation Network
- Comprehensive technical support
- Consultation services for project detailing and fabric selection
- Fast lead-times
- Insolroll shades are manufactured in Louisville, Colorado, U.S.A.



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