RAINIER SHADING

Power Screens

Series 3 • Series 4 • Series 5

Product Reference Guide

Rainier Shading
1760 Route 211 East
Middletown, NY 10941
(800) 501.3850

Version 5.25

RAINIER SHADING

Power Screens
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OFFICE: 845-692-7070 M-F (8am - 5pm EST)
AFTER HOURS / TECH SUPPORT: 845-645-6995

Series 3 • Series 4 • Series 5
Product Highlights

Application: Custom made for residential or commercial applications

Operation: Somfy Maestria 50 RTS Standard or manually crank handle operation for smaller sizes.

Widths and Drops: *(See Page 4)*

Unit Options: Hand-held controller, wireless wall switch, or through an app

Hardware Color Options: (5) Standard and (13) Premium color options *(See Page 3)*

Housing Options: *Rounded Cassette:* Series 3, Series 4 & Series 5
Cables: Series 3, Series 4 & Series 5
Square Cassette: Series 4 & Series 5

Frame Warranty*: Limited lifetime warranty

Frame Finish Warranty* 5 year warranty

Fabric Warranty*: 15 years warranty on most fabrics

Motor/Electronics Warranty*: 8 year warranty

Extended Warranty Options:
***Non-prorated**

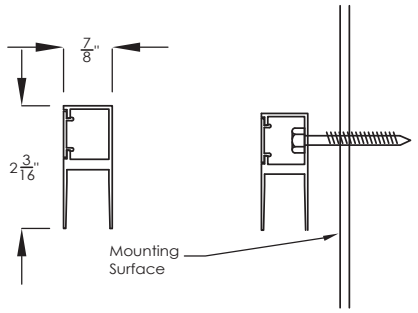
EMERALD PROTECTION | DIAMOND PROTECTION

INCLUDED

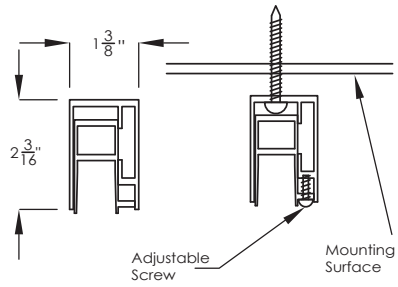
Power Screens (All Series)

Tracks, Hem Bar & Cable Details

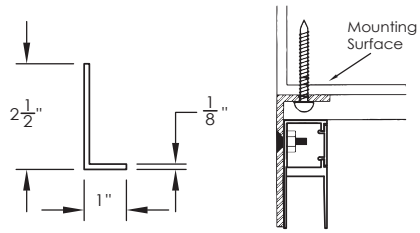
SURFACE SIDE TRACK



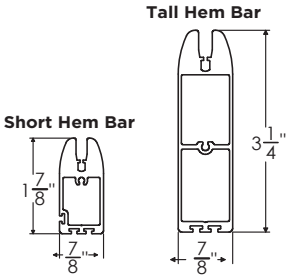
RECESSED SIDE TRACK



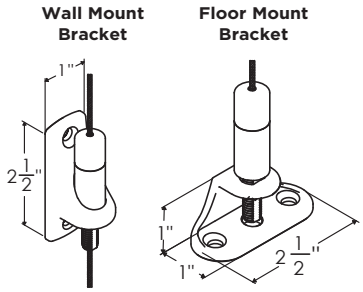
"L" ANGLE EXTRUSION

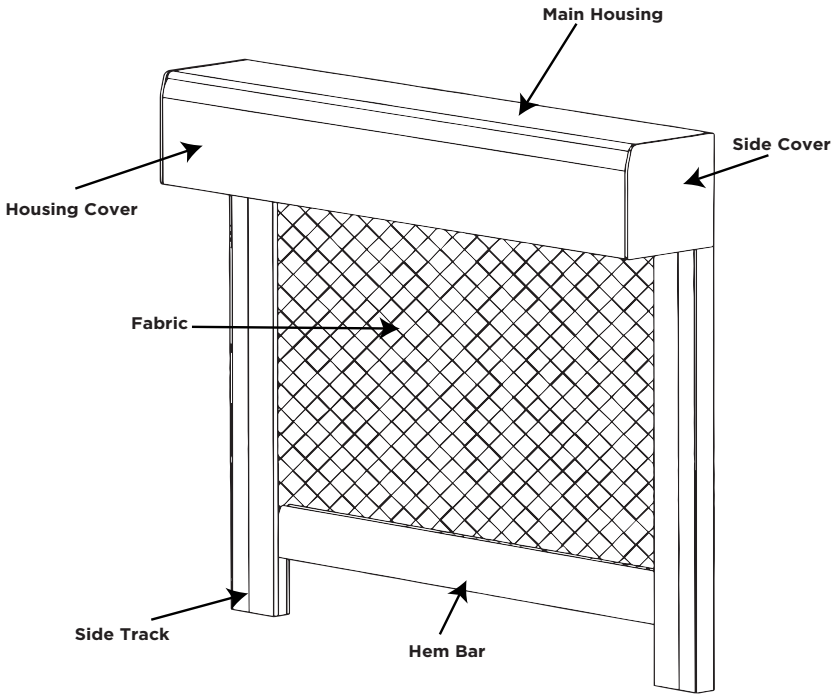


HEM BAR OPTIONS



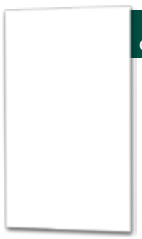
CABLE MOUNTING OPTIONS





Power Screens (All Series)
Fabric & Hardware Color Options

STANDARD HARDWARE COLORS:


ALPINE (Matte White)

SIERRA (Matte Sand)

WALNUT (Matte Bronze)

ONYX (Matte Black)

BRIGHT WHITE (Gloss)

PREMIUM HARDWARE COLORS:

DESERT SAND

GRAY

NAVAJO

BROWN

BRONZE

TEXTURED TAN

OIL-RUBBED BRONZE (Texture)

DARK GRAY (Texture)

BLACK

TAN

SILVER

OFF WHITE

MODERN RUST (Texture)

SCREEN FABRICS - FROM PHIFER & TWITCHELL

Rainier offers two varieties of high quality fabrics from Phifer and Twitchell:

PHIFER:

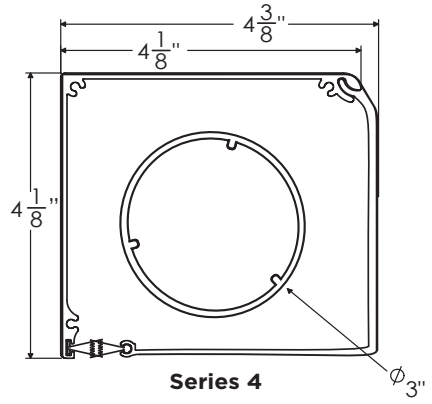
Phifer offers a Vinyl-coated polyester resistant to tears, water, chemicals and high temperatures, allowing it to withstand years of use. Also, fiberglass screening helps to prevent sagging and dents over time. The Fiberglass screening is coated with PVC for extra durability.

TWITCHELL:

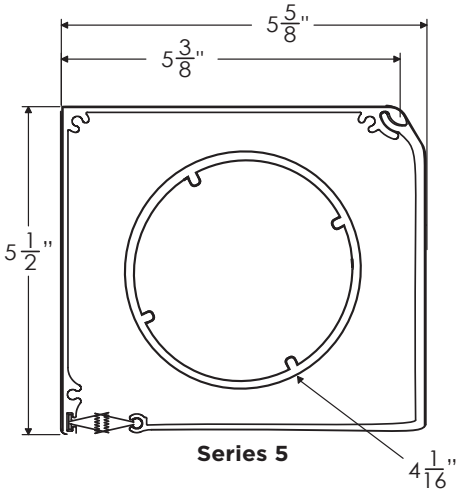
Twitchell offers Textilene 80/90/95/97 styled fabrics which maintains the stability, strength and durability with a lighter weight and softer feel. These fabrics have a 15 year limited exterior warranty.

Power Screens (All Series)
Unit Profile Views & Dimensions

SQUARE HOUSING

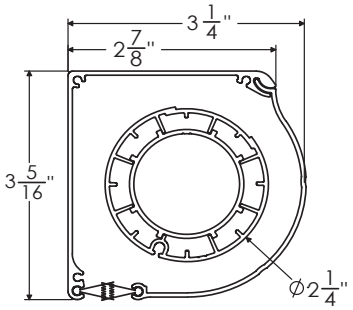


Series 4

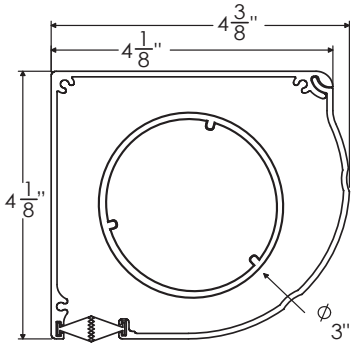


Series 5

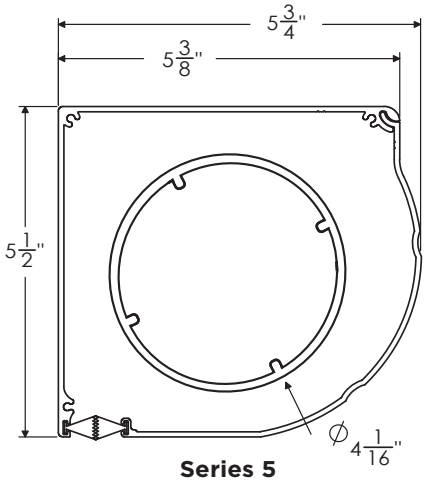
ROUNDED HOUSING



Series 3



Series 4



Series 5

SRS™ SCREENS
(SIDE RETENTION SYSTEM)

SERIES 3	SERIES 4	SERIES 5*
UP TO 10'0" WIDE **X** 7'0" DROP	UP TO 18'0" WIDE **X** 10'0" DROP	UP TO 25'0" WIDE **X** UP TO 20'0" DROP

CABLE SCREENS

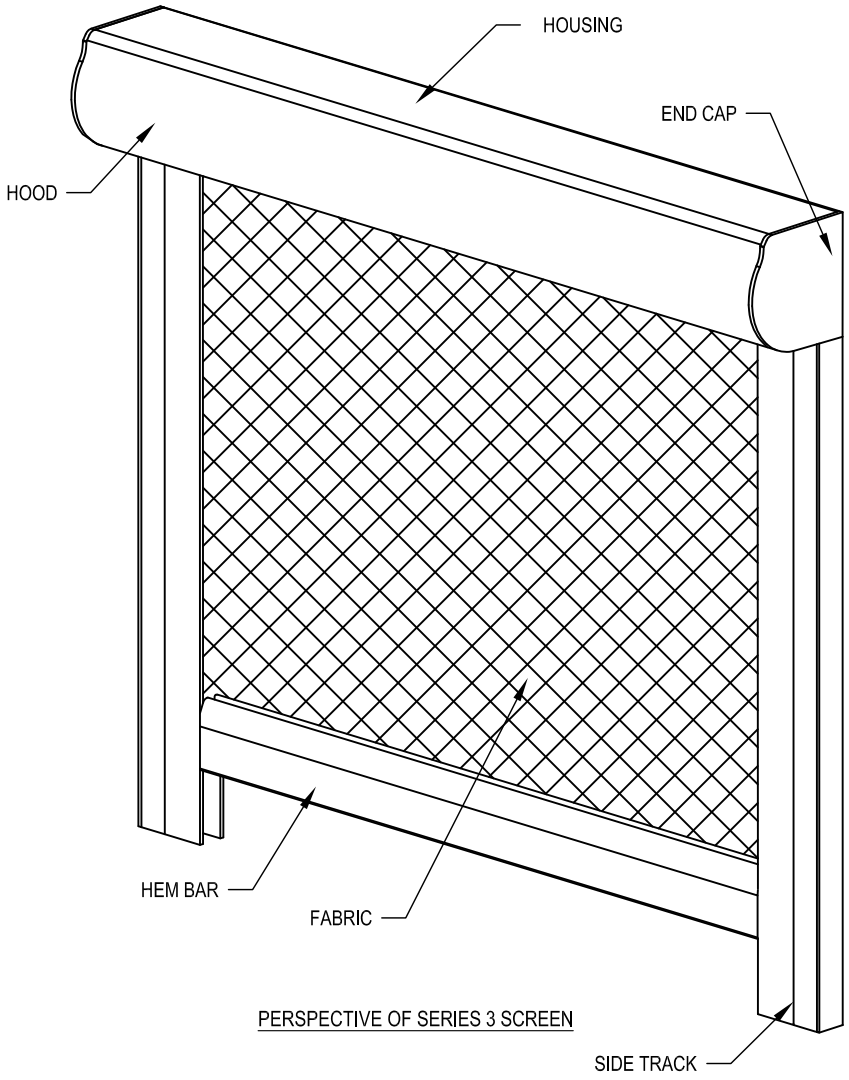
SERIES 3	SERIES 4	SERIES 5
UP TO 10'0" WIDE **X** 7'0" DROP	UP TO 14'0" WIDE **X** 10'0" DROP	UP TO 18'0" WIDE **X** UP TO 16'0" DROP

***Series 5 units can be designed much wider, ask your dealer for details**

Series 3 Screens

Round Cassette Unit Specs

Application Data
○ Interior/Exterior Use
○ Maximum: 10’ (W) x 7’ (H)
○ Low to Moderate Wind Application
○ Sun, Insect, Weather, or Privacy
○ Window, Patio, and Garage
○ Advertising Display
Fabrication Data
○ #7 Zipper Retension
○ Extruded Aluminum
○ Nylon Components
○ Powder Coast Finish
○ 2-1/4” Aluminum Roller Tube
○ Stainless Steel Fasteners
Standard Features
○ Extruded Aluminum Components
○ Side Track Retention System
○ Built in Dual Screen Cleaning System
○ Powder Coated Aluminum End Caps
Optional Features
○ Custom Color for All Metal Parts
○ Hand Crank Drive System
○ Recessed Side Tracks (Preconstruction)
○ “L” Brackets for Inside Mounting
○ Solar Power Motor
○ Custom Build Out
Electrical Data
○ AC Motor Specifications: 120 VAC/60HZ
○ 1.05 Amps
○ 18 RPM, 54dBA
○ Somfy Altus 409 R2 RTS
○ Home Automation Interface Available
Screen Options
○ Twitchell Super Insect and Solar Screen
○ Phifer Solar Screen
○ Serge Ferrari Soltis
○ Blackout Fabrics
○ Solution Dyed Acrylics
Optional Graphics
○ Custom Prints
○ 1 or 2 Sides - Mesh or Solid Fabric
Standard Hardware Colors
○ Bright White ○ Sierra ○ Onyx
○ Alpine ○ Walnut
○ 13 Premium Colors & RAL Colors



PERSPECTIVE OF SERIES 3 SCREEN

Special Notes:
When measuring the screen for an outside flush/surface mount, remember to allow for side track (each side is 23/16”) and remember to allow for the height of your housing plus the height of the hem bar is (1⅞” plus brush size) so that nothing is in the opening. For inside mounting, always take the narrowest measurement and deduct ½” to allow for fastening heads and “L” mounting channel thickness (this would be total for both sides). Always use the longest measurement for calculating your drop.

Fabric seams will always run horizontally. They are placed as high as possible unless otherwise stated. Seam placement is from the bottom of the hem bar up to the seam.

Series 3 Screens
Cable Unit Specs

Application Data

- Interior/Exterior Use
- Maximum: 10’ (W) x 7’ (H) (some fabrics)
- Low Wind Application
- Solar Protection, Weather or Privacy
- Window, Patio and Balcony
- Advertising Display

Fabrication Data

- Extruded Aluminum
- Nylon Components
- Powder Coast Finish
- 2-1/4” Aluminum Roller Tube
- Stainless Steel Fasteners

Standard Features

- Extruded Aluminum Components
- Stainless Steel Cable Retaining System
- Built in Dual Screen Cleaning System
- Powder Coated Aluminum End Caps
- Motorized
- Floor or Wall Tension Device
- Proprietary | Tube™ Roller Tube

Optional Features

- Manual Gear Hand Crank
- Motorized Electronics
- Custom Colors For All Metal Parts

Electrical Data

- AC Motor Specifications: 120 VAC/60HZ
- 1.05 Amps
- 18 RPM, 54dBA
- Somfy Altus 409 R2 RTS
- Home Automation Interface Available

Screen Options

- Twitchell Solar Screen
- Phifer Solar Screen
- Serge Ferrari Soltis
- Acrylic

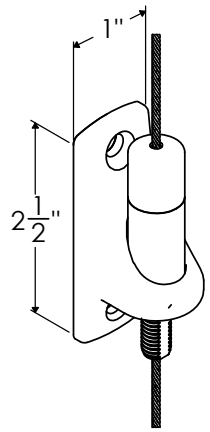
Optional Graphics

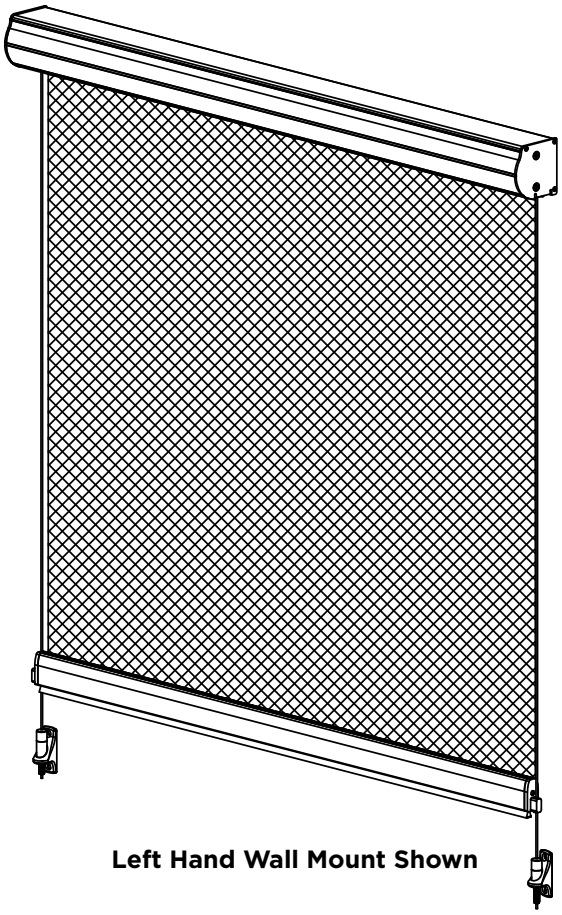
- Custom Prints
- 1 or 2 Sides - Mesh or Solid Fabric

Standard Hardware Colors

- Bright White
- Sierra
- Onyx
- Alpine
- Walnut
- 13 Premium Colors & RAL Colors

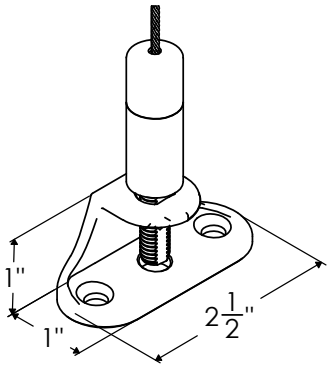
Wall Mount Bracket



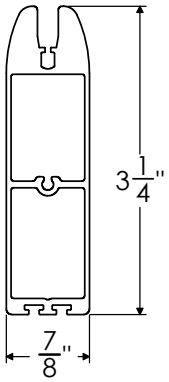


Left Hand Wall Mount Shown

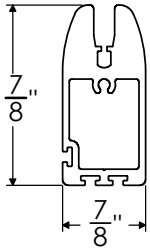
Floor Mount Bracket

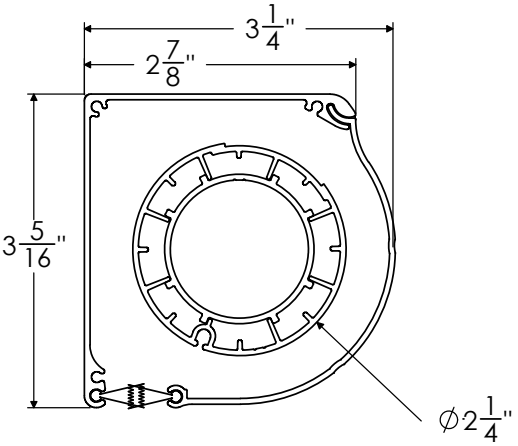


Tall Hem Bar



Short Hem Bar



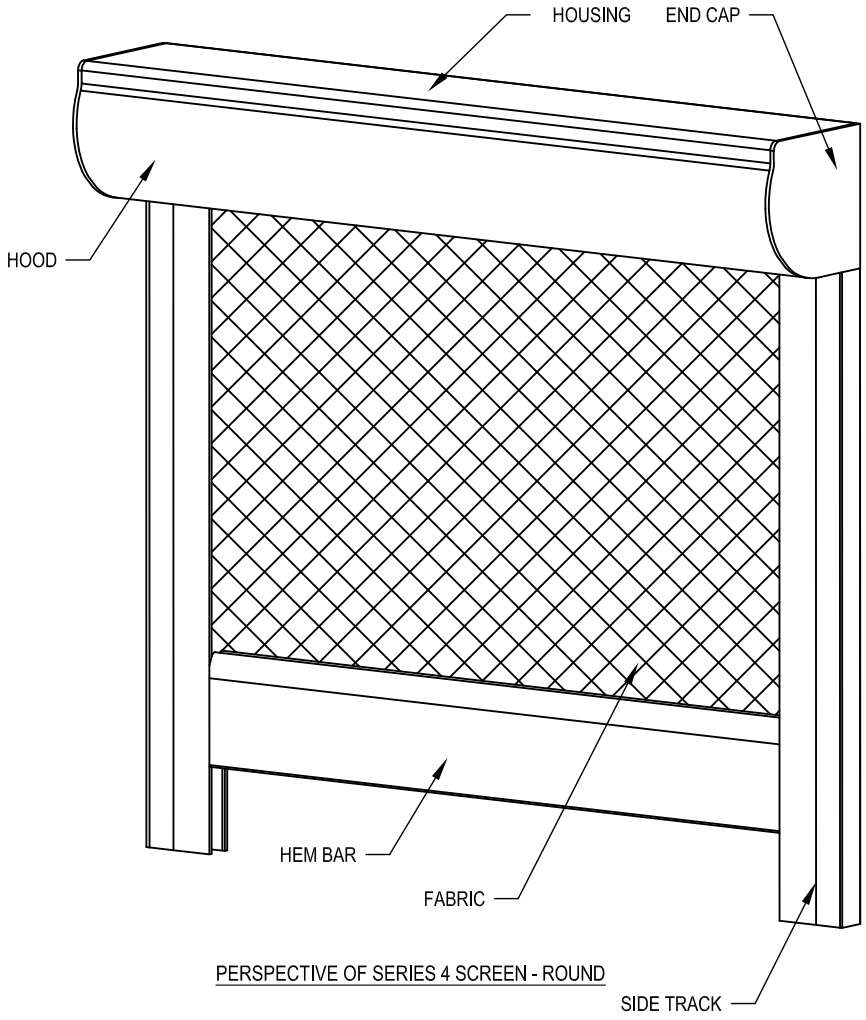


Cable Series 3 Housing

Series 4 Screens

Round Cassette Unit Specs

Application Data
○ Interior/Exterior Use
○ Maximum: 18' (W) x 10' (H) (some fabrics)
○ Low to High Wind Application
○ Sun, Insect, Weather, or Privacy
○ Window, Patio, and Garage
○ Advertising Display
Fabrication Data
○ #7 Zipper Retension
○ Extruded Aluminum
○ Nylon Components
○ Powder Coast Finish
○ 3" Aluminum Roller Tube
○ Stainless Steel Fasteners
Standard Features
○ Extruded Aluminum Components
○ Side Track Retention System
○ Built in Dual Screen Cleaning System
○ Powder Coated Aluminum End Caps
○ Somfy/RTS Motor Drive System
Optional Features
○ Custom Color for All Metal Parts
○ Hand Crank Drive System
○ Recessed Side Tracks (Preconstruction)
○ "L" Brackets for Inside Mounting
○ Wireless Sun Sensor
○ Custom Build Out
Electrical Data
○ AC Motor Specifications: 120 VAC/60HZ
○ 1.6 Amps
○ 20 RPM
○ Somfy Maestria Motor
○ Home Automation Interface Available
Screen Options
○ Twitchell Super Insect and Solar Screen
○ Phifer Solar Screen
○ Serge Ferrari Soltis
○ Blackout Fabrics
○ Solution Dyed Acrylics
Optional Graphics
○ Custom Prints
○ 1 or 2 Sides - Mesh or Solid Fabric
Standard Hardware Colors
○ Bright White ○ Sierra ○ Onyx
○ Alpine ○ Walnut
○ 13 Premium Colors & RAL Colors



PERSPECTIVE OF SERIES 4 SCREEN - ROUND

Special Notes:
When measuring the screen for an outside flush/surface mount, remember to allow for side track (each side is 23/16") and remember to allow for the height of your housing plus the height of the hem bar is (1⅞" plus brush size) so that nothing is in the opening. For inside mounting, always take the narrowest measurement and deduct ½" to allow for fastening heads and "L" mounting channel thickness (this would be total for both sides). Always use the longest measurement for calculating your drop.

Fabric seams will always run horizontally. They are placed as high as possible unless otherwise stated. Seam placement is from the bottom of the hem bar up to the seam.

Series 4 Screens

Square Cassette Unit Specs

Application Data
○ Interior/Exterior Use
○ Maximum: 18’ (W) x 10’ (H) (some fabrics)
○ Low to High Wind Application
○ Sun, Insect, Weather, or Privacy
○ Window, Patio, and Garage
○ Advertising Display

Fabrication Data
○ Registered ISO 9000/9001
○ Extruded Aluminum
○ Nylon Components
○ Powder Coat Finish
○ 3” Aluminum Roller Tube
○ Stainless Steel Fasteners

Standard Features
○ Extruded Aluminum Components
○ Side Track Retention System
○ Built in Dual Screen Cleaning System
○ Powder Coated Aluminum End Caps
○ Somfy/RTS Motor Drive System

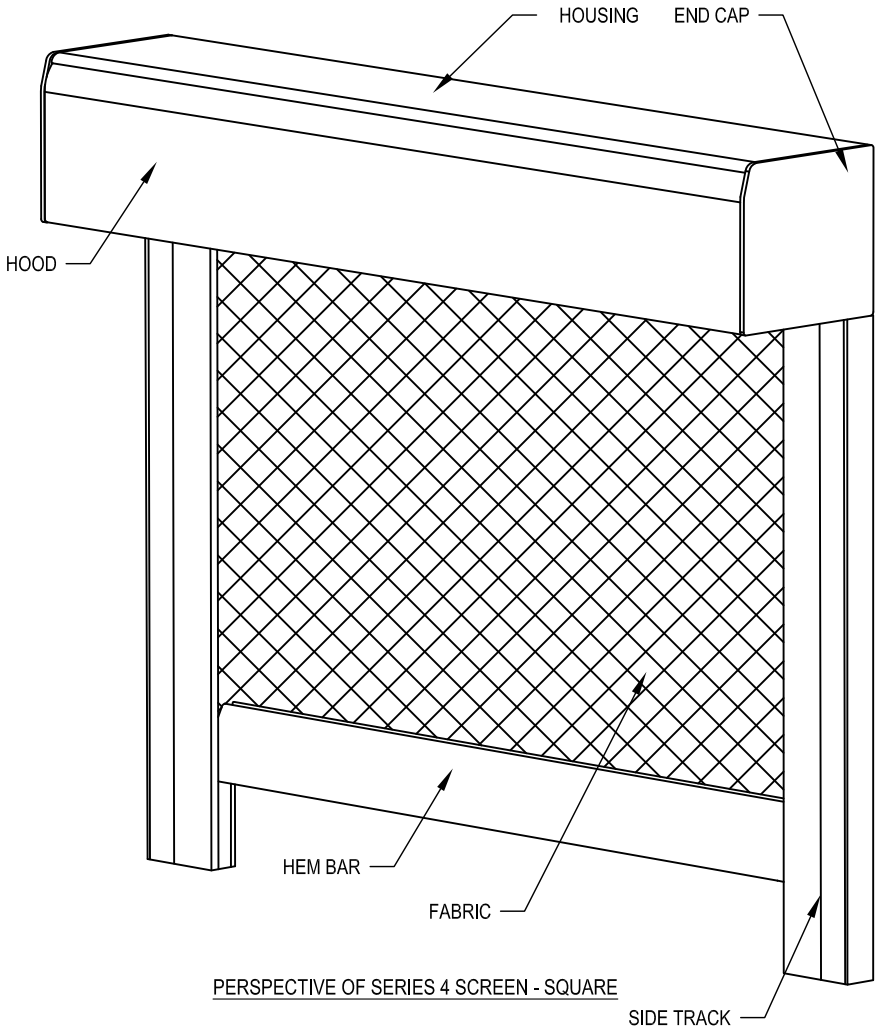
Optional Features
○ Custom Color for All Metal Parts
○ Hand Crank Drive System
○ Recessed Side Tracks (Preconstruction)
○ “L” Brackets for Inside Mounting
○ Wireless Sun Sensor
○ Custom Build Out

Electrical Data
○ AC Motor Specifications: 120 VAC/60HZ
○ 1.6 Amps
○ 20RPM
○ Somfy Maestria Motor
○ Home Automation Interface Available

Screen Options
○ Twitchell Super Insect and Solar Screen
○ Phifer Solar Screen
○ Serge Ferrari Soltis
○ Blackout Fabrics
○ Solution Dyed Acrylics

Optional Graphics
○ Custom Prints
○ 1 or 2 Sides - Mesh or Solid Fabric

Standard Hardware Colors
○ Bright White ○ Sierra ○ Walnut
○ Alpine ○ Onyx
○ 13 Premium Colors & RAL Colors



PERSPECTIVE OF SERIES 4 SCREEN - SQUARE

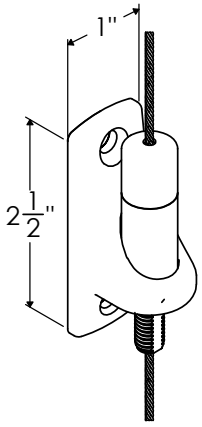
Special Note:
When measuring the screen for an outside flush/surface mount, remember to allow for side track (each side is 2 3/16”) and remember to allow for the height of your housing plus the height of the hem bar is (1 7/8” plus brush size) so that nothing is in the opening. For inside mounting, always take the narrowest measurement and deduct ½” to allow for fastening heads and “L” mounting channel thickness (this would be total for both sides). Always use the longest measurement for calculating your drop.

Fabric seams will always run horizontally. They are placed as high as possible unless otherwise stated. Seam placement is from the bottom of the hem bar up to the seam.

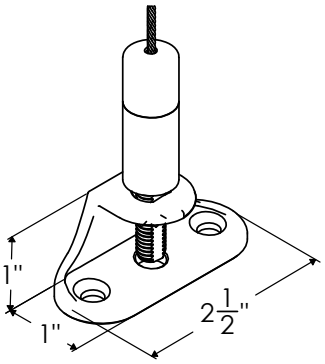
Series 4 Screens
Cable Unit Specs

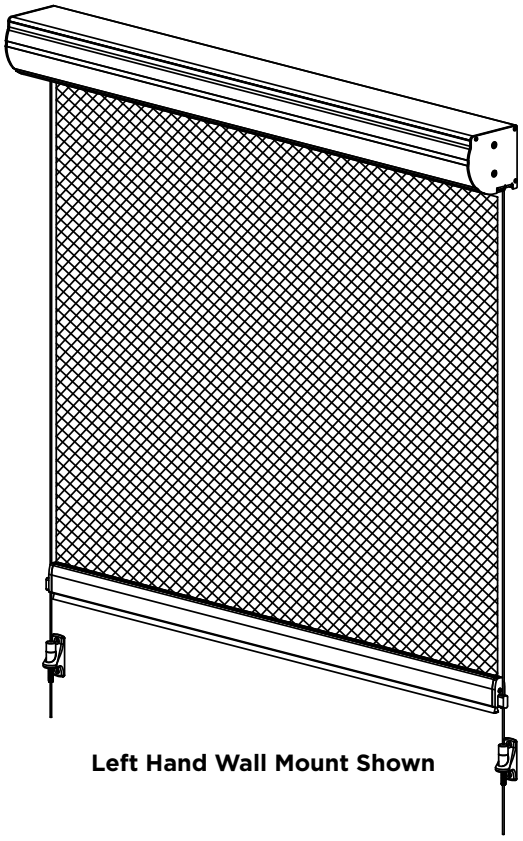
Application Data
○ Interior/Exterior Use
○ Maximum: 14’ (W) x 10’ (H) (some fabrics)
○ Low Wind Application
○ Solar Protection, Weather, or Privacy
○ Window, Patio, and Balcony
○ Advertising Display
Fabrication Data
○ Extruded Aluminum
○ Nylon Components
○ Powder Coast Finish
○ 3” Roller Tube
○ Stainless Steel Fasteners
Standard Features
○ Extruded Aluminum Components
○ Stainless Steel Cable Retaining System
○ Built in Dual Screen Cleaning System
○ Powder Coated Aluminum End Caps
○ Motorized
○ Floor or Wall Tension Device
○ Proprietary | Tube™ Roller Tube
Optional Features
○ Manual Gear Hand Crank
○ Motorized Electronics
○ Custom Colors for All Metal Parts
Electrical Data
○ AC Motor Specifications: 120 VAC/60HZ
○ 1.6 Amps
○ 20 RPM
○ Somfy Maestria RTS Motor
○ Home Automation Interface Available
Screen Options
○ Twitchell Solar Screen
○ Phifer Solar Screen
○ Serge Ferrari Soltis
○ Acrylic
Optional Graphics
○ Custom Prints
○ 1 or 2 Sides - Mesh or Solid Fabric
Standard Hardware Colors
○ Bright White ○ Sierra ○ Onyx
○ Alpine ○ Walnut
○ 13 Premium Colors & RAL Colors

Wall Mount Bracket



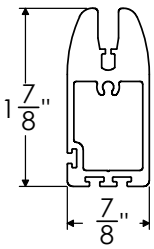
Floor Mount Bracket



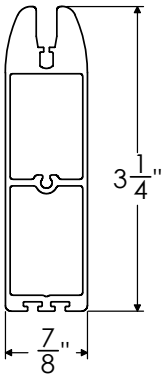


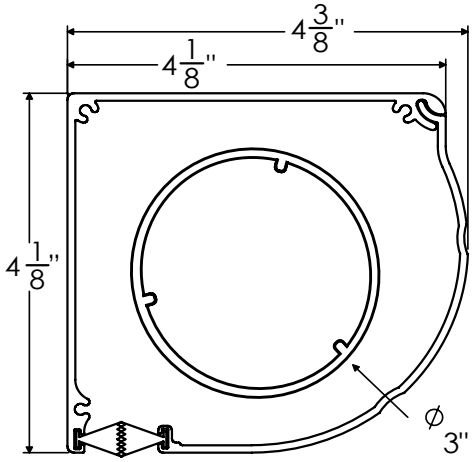
Left Hand Wall Mount Shown

Short Hem Bar



Tall Hem Bar



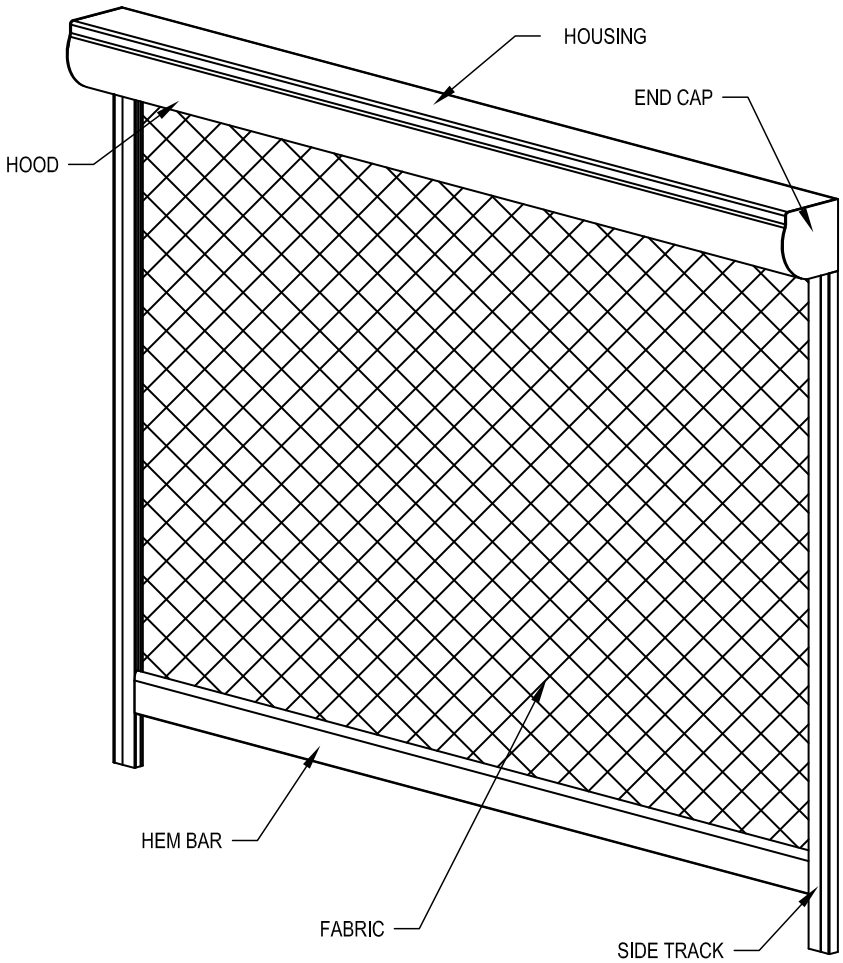


Cable Series 4 Housing

Series 5 Screens

Round Cassette Unit Specs

Application Data
○ Interior/Exterior Use
○ Maximum: 25’ (W) x 20’ (H)
○ Low to High Wind Application
○ Sun, Insect, Weather, or Privacy
○ Window, Patio, and Garage
○ Advertising Display
Fabrication Data
○ #7 Nylon Zipper Side Retension
○ Extruded Aluminum
○ Nylon Components
○ Powder Coast Finish
○ 4-1/16” Aluminum Roller Tube
○ Stainless Steel Fasteners
Standard Features
○ Extruded Aluminum Components
○ Side Track Retention System
○ Built in Dual Screen Cleaning System
○ Powder Coated Aluminum End Caps
○ Somfy/RTS Motor Drive System
Optional Features
○ Custom Color for All Metal Parts
○ Recessed Side Tracks (Preconstruction)
○ “L” Brackets for Inside Mounting
○ Larger Tooth Zipper (#10)
○ Custom Build Out
Electrical Data
○ AC Motor Specifications: 120 VAC/60HZ
○ 2.1 Amps
○ 20 RPM
○ Somfy Maestria Motor
○ Home Automation Interface Available
Screen Options
○ Twitchell Super Insect and Solar Screen
○ Phifer Bug and Solar Screen
○ Serge Ferrari Soltis
○ Blackout Fabrics
○ Solution Dyed Acrylics
○ Clear Window with Solid Fabrics
Optional Graphics
○ Custom Prints
○ 1 or 2 Sides - Mesh or Solid Fabric
Standard Hardware Colors
○ Bright White ○ Sierra ○ Onyx
○ Alpine ○ Walnut
○ 13 Premium Colors & RAL Colors



PERSPECTIVE OF SERIES 5 SCREEN - ROUND

Special Notes:
When measuring the screen for an outside flush/surface mount, remember to allow for side track (each side is 23/16”) and remember to allow for the height of your housing plus the height of the hem bar is (1⅞” plus brush size) so that nothing is in the opening. For inside mounting, always take the narrowest measurement and deduct ½” to allow for fastening heads and “L” mounting channel thickness (this would be total for both sides). Always use the longest measurement for calculating your drop.

Fabric seams will always run horizontally. They are placed as high as possible unless otherwise stated. Seam placement is from the bottom of the hem bar up to the seam

Series 5 Screens

Square Cassette Unit Specs

Application Data
Interior/Exterior Use
Maximum: 25’ (W) x 20’ (H)
Low to High Wind Application
Sun, Insect, Weather, or Privacy
Window, Patio, and Garage
Advertising Display

Fabrication Data
#7 Nylon Side Retension Zipper
Extruded Aluminum
Nylon Components
Powder Coast Finish
4-1/16” Aluminum Roller Tube
Stainless Steel Fasteners

Standard Features
Extruded Aluminum Components
Side Track Retention System
Built in Dual Screen Cleaning System
Powder Coated Aluminum End Caps
Somfy/RTS Motor Drive System

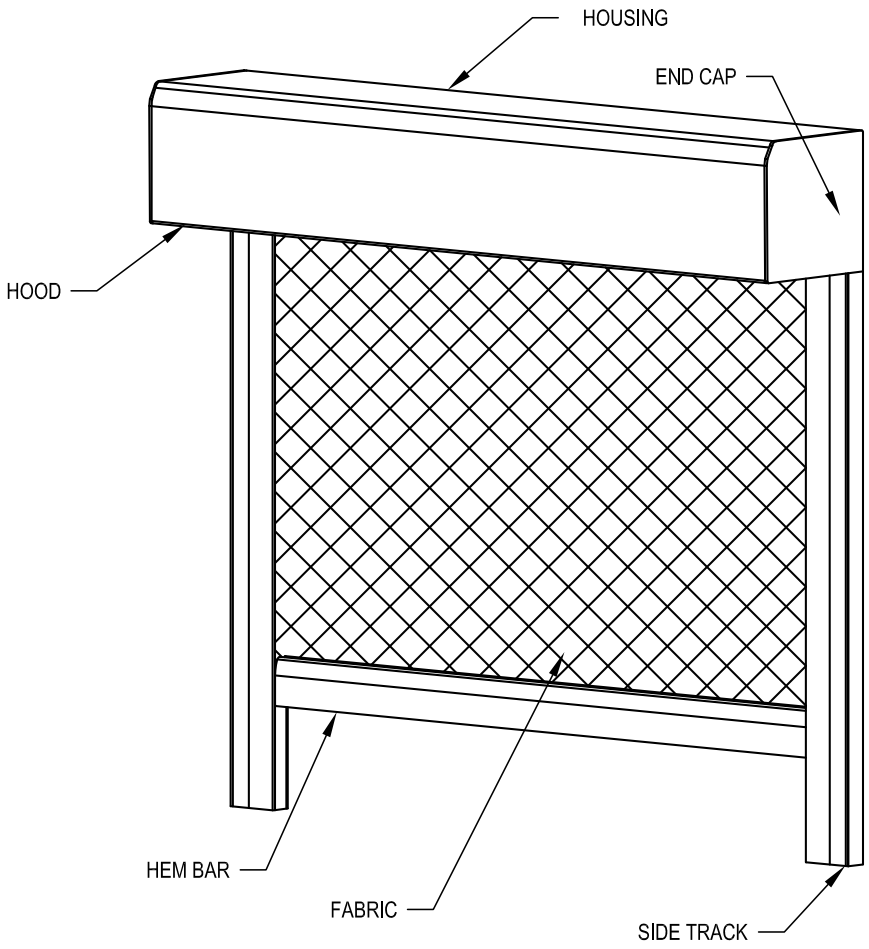
Optional Features
Custom Color for All Metal Parts
Recessed Side Tracks (Preconstruction)
“L” Brackets for Inside Mounting
Large Tooth Zipper (#10)
Custom Build Out

Electrical Data
AC Motor Specifications: 120 VAC/60HZ
2.1 Amps
20 RPM
Somfy Maestria Motor
Home Automation Interface Available

Screen Options
Twitchell Super Insect and Solar Screen
Phifer Bug and Solar Screen
Serge Ferrari Soltis
Blackout Fabrics
Solution Dyed Acrylics
Clear Window with Solid Fabrics

Optional Graphics
Custom Prints
1 or 2 Sides - Mesh or Solid Fabric

Standard Hardware Colors		
Bright White	Sierra	Onyx
Alpine	Walnut	
13 Premium Colors & RAL Colors		



PERSPECTIVE OF SERIES 5 SCREEN - SQUARE

Special Notes:
When measuring the screen for an outside flush/surface mount, remember to allow for side track (each side is 23/16”) and remember to allow for the height of your housing plus the height of the hem bar is (1⅞” plus brush size) so that nothing is in the opening. For inside mounting, always take the narrowest measurement and deduct ½” to allow for fastening heads and “L” mounting channel thickness (this would be total for both sides). Always use the longest measurement for calculating your drop.

Fabric seams will always run horizontally. They are placed as high as possible unless otherwise stated. Seam placement is from the bottom of the hem bar up to the seam

Series 5 Screens
Cable Unit Specs

Application Data

- Interior/Exterior Use
- Maximum: 18' (W) x 16' (H)
- Low Wind Application
- Solar Protection, Weather or Privacy
- Window, Patio and Balcony
- Advertising Display

Fabrication Data

- Extruded Aluminum
- Nylon Components
- Powder Coast Finish
- 4-1/16" Aluminum Roller Tube
- Stainless Steel Fasteners

Standard Features

- Extruded Aluminum Components
- Stainless Steel Cable Retaining System
- Built in Dual Screen Cleaning System
- Powder Coated Aluminum End Caps
- Motorized
- Floor or Wall Tension Device
- Proprietary | Tube™ Roller Tube

Optional Features

- Manual Gear Hand Crank
- Motorized Electronics
- Custom Colors For All Metal Parts

Electrical Data

- AC Motor Specifications: 120 VAC/60HZ
- 2.1 Amps
- 20 RPM
- Somfy Maestria Motor
- Home Automation Interface Available

Screen Options

- Twitchell Solar Screen
- Phifer Solar Screen
- Serge Ferrari Soltis
- Acrylic

Optional Graphics

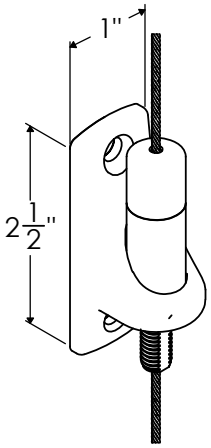
- Custom Prints
- 1 or 2 Sides - Mesh or Solid Fabric

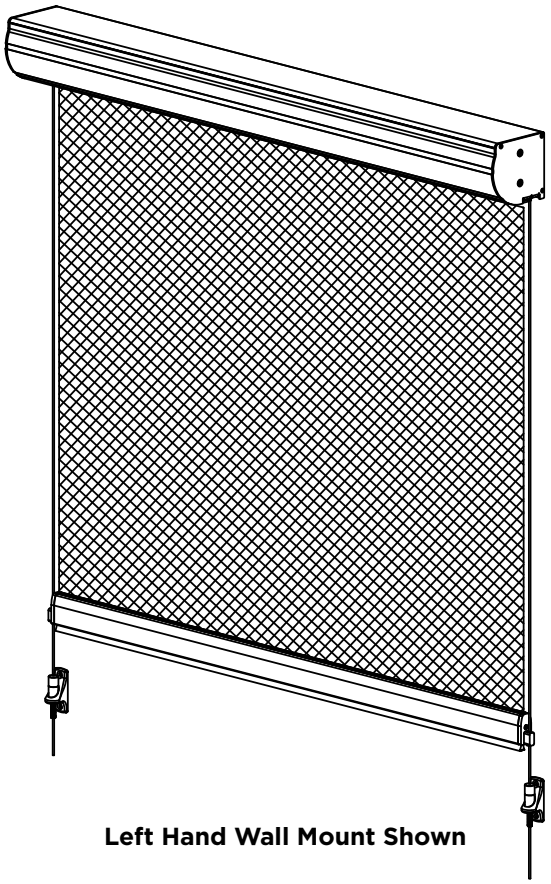
Standard Hardware Colors

- Bright White
- Sierra
- Onyx
- Alpine
- Walnut
- 13 Premium Colors & RAL Colors

Detail Views

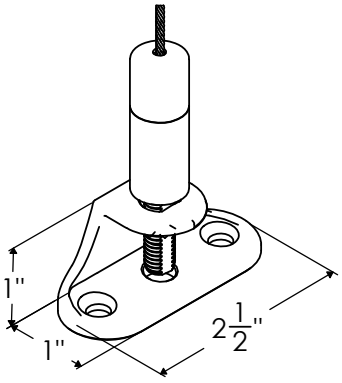
Wall Mount Bracket





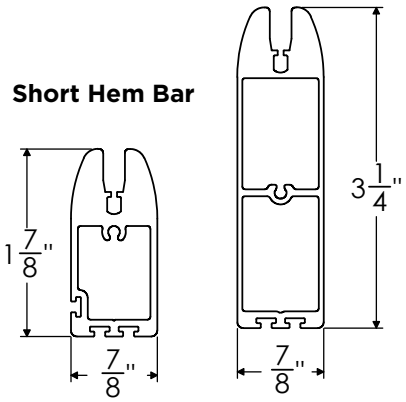
Left Hand Wall Mount Shown

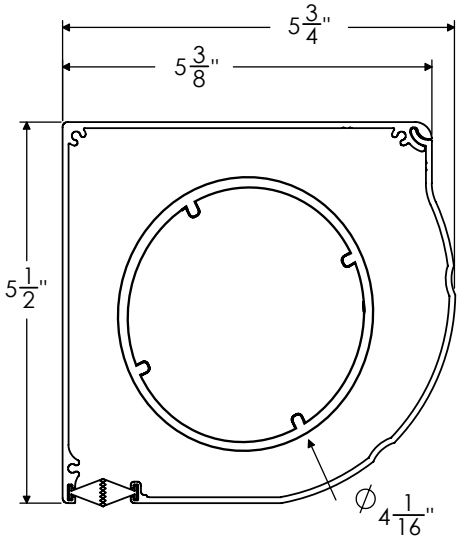
Floor Mount Bracket



Tall Hem Bar

Short Hem Bar





Cable Series 5 Housing

MEASURING AND ORDERING YOUR RAINIER SHADING SRS™ POWER SCREEN

Accurately measuring and selecting a location for your Rainier SRS™ Screen is a critical part of the ordering process. Taking the proper measurements now will save you time and money when it's time to install the unit.

Motor Location:

- Locate nearest 110 volt power outlet.
- Facing what will be the front of the screen (where you will mount the housing), determine whether the power supply is better suited for the right or left side of the unit. All screen units will be supplied with a 24 ft. pigtail cord and a 3 prong grounded plug.
- If no power supply is readily available, it may be necessary for the customer to have an outlet or junction box installed by a licensed electrician. It is recommended to have it installed either high and close to the unit housing, or low and near the side track. (Power cord may also be routed and concealed inside the side track on screens with flush mounted side tracks.)

MEASURING FOR ACCURATE UNIT WIDTH & DROP (HEIGHT):

The width measurement is always from the outside of one end cap to the outside of the other end cap on the housing. The drop (or height) is measured from the top of the housing to the bottom of the hem bar (or weight bar). Take three measurements for the width (top, middle, and bottom) and three measurements for the drop (left, middle, and right). Use the largest of each.

- Surface Mounted Unit: A surface mounted unit is mounted outside the opening. You will need to add a minimum of 2-1/4" on each side of the widest measurement of the opening for mounting your side tracks (this means your overall width of the unit will be a minimum of 4-1/2" wider than the opening itself.)

  For the overall drop measurement, add the height of the housing (below) to the longest measurement.

  Series 3: 3-1/4", plus 1-3/4" for standard hem bar
  Series 4: 4-1/2", plus 1-3/4" for standard hem bar OR 3-1/4" for tall hem bar
  Series 5: 5-1/2", plus 3-1/4" for tall hem bar (standard on Series 5)

  If the screen has pile brush on the bottom of the hem bar, add the brush (1/2" or 1 ") to the overall drop to make sure it will not hang into the opening.

Example: Using a Series 4 unit with 1/2" bottom brush.

8' (height of the opening)
+4-1/2" (height of the housing)
+1-1/2" (height of the standard hem bar)
+1/2"{pile brush)
8' 6-1/2" (overall drop)

Measuring Procedures

Surface Mount (cont'd) & Inset Mount

If room permits, adding an additional 1/2" is generally a good idea, bringing the final drop measurement in this example to 8'7".

Caution: Make sure that the hem bar will clear the top of the opening when the screen is retracted. Look for a possible bow in the opening or any trim that is not flush with the opening.

Look at your drop measurements from left to right. If there is more than 1/2" difference, you may want to order the next size of pile to account for the difference, which is usually caused by slope for water drainage. If this is the case, you will need to add that number into your total for the pile brush.

Inset Mounted Unit:

An inset mounted unit is one that is mounted completely inside the opening itself. You will not add to the measurement, but you do need to be very critical when it comes to your width measurements.

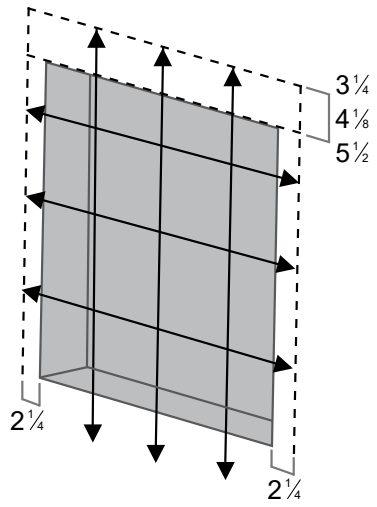
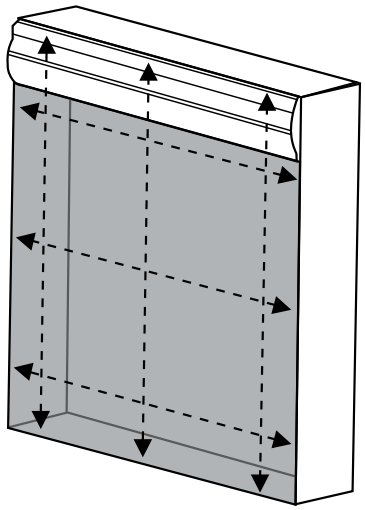
Use the narrowest measurement found in the opening. You will need to use the "L" channel mounting brackets for the flush side track, so deduct a minimum of 1/2" to 1/2"from the narrowest measurement. This will be your overall width measurement for your screen (L brackets are 1/2" thick each plus fastener head depth).

For the drop measurement, provide the longest of the measurements taken, and determine if a pile brush longer than 1/2" is required for the bottom of the hem bar.

Note: If the unit is not dropping completely to the floor or if this is a window screen, you may not need the bottom pile. On your order form, check the box for NONE on brush/pile.

Please review the diagrams to better understand the measurements needed for your installation.

Surface Mount Diagram:



Inset Mounting Diagram: