

EXTERIOR SOLAR SHADES

Product Information Guide

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Features

Exterior Solar Shades Expand Your Outdoor Living Space

- Maintain an outdoor view
 - Filter and diffuse light while maintaining an outward view
 - The higher the openness factor and the darker the fabric, the clearer the view
- Manage glare
 - Minimize glare on televisions and home office computers
 - The darker the fabric color, the better the glare control and visibility
- Block damaging UV rays
 - The amount of UV ray blockage is the inverse of a fabric's openness factor (i.e., a fabric with 10% openness blocks 90% of UV rays)
 - Protect furniture, carpets, artwork, etc. from fading due to harmful UV rays

- Temperature control
 - Exterior shades reduce solar heat gain before it enters the house, reducing air conditioning costs
 - Solar fabrics reduce heat transmittance, keeping rooms cooler and increasing the comfort level in your home
 - The lighter the fabric color, the better the temperature control

IMPORTANT: Shades must be raised fully during inclement weather and windy conditions.

Fabric Styles and Information: Exterior Solar Shades

Style Name	Openness	UV Blockage	Fabric Composition	Useable Fabric Width (inches)	GREENGUARD Certified	Anti-Microbial	FR Rated	Can be Railroaded Turned 90° (width for height)	Can be Seamed	Color Number
Broadcast	1%	99%	25% polyester/ 75% vinyl on polyester	116	•	•	•	•	•	All
Chronicles	4%	96%	15% polyester/ 85% vinyl on polyester	96	•	•	•	•	•	All
Merit	4%	96%	15% polyester/ 85% vinyl on polyester	96	•	•	•	•	•	All
Monticello	7%	93%	23.8% polyester/ 76.2% vinyl on polyester	96	•	•	•	•	•	All
Paradigm	8%	92%	25% polyester/ 75% vinyl on polyester	96	•	•	•	•	•	All
Plexus 1%	1%	99%	19% polyester/ 81% vinyl on polyester	116	•	•	•	•	•	All
Plexus 3%	3%	97%	19% polyester/ 81% vinyl on polyester	116	•	•	•	•	•	All
Plexus 5%	5%	95%	19% polyester/ 81% vinyl on polyester	116	•	•	•	•	•	All
Reaction	4%	96%	15% polyester/ 85% vinyl on polyester	96	•	•	•	•	•	All
Resolve	3%	97%	24% polyester/ 76% vinyl on polyester	96	•	•	•	•	•	All
Standard Weave 1%	1%	99%	21% polyester/ 79% vinyl on polyester	116	•	•	•	•	•	47905, 47907, 47908
			24% polyester/ 76% vinyl on polyester							47901, 47906
			25% polyester/ 75% vinyl on polyester							47903, 47904
Standard Weave 3%	3%	97%	18% polyester/ 82% vinyl on polyester	116	•	•	•	•	•	48203, 48204
			21% polyester/ 79% vinyl on polyester							48205, 48207, 48208
Standard Weave 5%	5%	95%	24% polyester/ 76% vinyl on polyester	116	•	•	•	•	•	48201
			16% polyester/ 84% vinyl on polyester							48303, 48304
			21% polyester/ 79% vinyl on polyester							48305, 48307, 48308
Standard Weave 10%	10%	90%	24% polyester/ 76% vinyl on polyester	116	•	•	•	•	•	48301
			16% polyester/ 84% vinyl on polyester							48403, 48404
			21% polyester/ 79% vinyl on polyester							48405, 48407, 48408
Vanguard 1%	1%	99%	24% polyester/ 76% vinyl on polyester	116	•	•	•	•	•	48401
			25% polyester/ 75% vinyl on polyester							47912, 47914, 47918, 47917
			18% polyester/ 82% vinyl on polyester							47909, 47915, 47916
Vanguard 3%	3%	97%	21% polyester/ 79% vinyl on polyester	116	•	•	•	•	•	47910, 47919
			24% polyester/ 76% vinyl on polyester							48210, 48219
			16% polyester/ 84% vinyl on polyester							48212, 48214, 48217, 48218
Vanguard 5%	5%	95%	21% polyester/ 79% vinyl on polyester	116	•	•	•	•	•	48209, 48215, 48216
			24% polyester/ 76% vinyl on polyester							48310, 48319
			16% polyester/ 84% vinyl on polyester							48312, 48314, 48317, 48318
Venture	7%	93%	16% polyester/ 84% vinyl on polyester	96	•	•	•	•	•	48309, 48315, 48316

Features

Light Gaps

A light gap will be present on inside mounted shades. An outside mount with overlap is recommended to eliminate light gap.

Control Type	Light Gap Per Side (inches)
Continuous-Loop Lift No Cassette	$\frac{3}{16}$ to $1\frac{3}{16}$
Continuous-Loop Lift with Cassette	$\frac{3}{16}$ to 1
Motorized Lift with Cassette	1 to $1\frac{5}{16}$

Fabric Recommendations

Please order all shades at the same time to ensure color consistency and minimize dye lot variation.

Fabric Disclaimers

Due to the nature of the weaving process, some imperfection in the weave is normal.

Roll direction cannot be reversed after a shade is ordered.

Fabric appearance can vary based on changing lighting conditions.

Fabrics turned width for height (referred to as railroaded) may curl along the edge. With extremely wide or railroaded shades, a V shape may appear in the center of the panel. This is expected behavior and occurs due to the weight of the fabric. This is not a defect in the product.

Fabric Certifications

GREENGUARD Indoor Air Quality Certified® Fabrics: Many Graber® fabrics have been certified by GREENGUARD Environmental Institute (GEI) to be low chemical and particle emitting fabrics, providing a healthier indoor air quality. The process used for certification complies with established indoor air quality standards and is performed by a third party lab. Please see graberblinds.com for more information.

greenguard.org

GREENGUARD Indoor Air Quality Certified is a registered trademark of the GREENGUARD Environmental Institute.

Large Window Sizing

Some fabrics can be turned 90° clockwise (width for height) to accommodate wider windows. In these cases some solar fabrics can be seamed for longer lengths. Fabrics turned width for height (referred to as railroaded) may curl along the edge. This is not a defect in the product.

Light Control and Privacy

Privacy: Solar shades do not offer nighttime privacy—lighted interiors allow inward visibility. If complete privacy is desired, consider adding an additional window treatment.



Size Considerations

Continuous-Loop Lift and Motorized Lift: Maximum Shade Size

Fabric	Normal Fabric Orientation					
	Continuous-Loop Lift Medium Cassette		Continuous-Loop Lift Large Cassette/ No Cassette/ No Valance		120 Volt Motor Large Cassette	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Broadcast	77	111	117	144	117	144
Chronicles	97	119	97	144	97	144
Merit	97	119	97	144	97	144
Monticello	77	107	97	144	97	144
Paradigm	82	121	97	144	97	144
Plexus 1%	74	109	116	124	117	144
Plexus 3%	75	112	117	133	117	144
Plexus 5%	75	122	117	144	117	144
Reaction	97	119	97	144	97	144
Resolve	97	105	97	144	97	144
Standard Weave 1%	107	114	117	144	117	144
Standard Weave 3%	108	114	117	144	117	144
Standard Weave 5%	108	124	117	144	117	144
Standard Weave 10%	108	130	117	144	117	144
Vanguard 1%	107	114	117	144	117	144
Vanguard 3%	108	114	117	144	117	144
Vanguard 5%	108	124	117	144	117	144
Venture	97	94	97	144	97	144

Fabric	Fabric Turned Width for Height (Railroaded)									
	Continuous-Loop Lift Medium Cassette		Continuous-Loop Lift Large Cassette/ No Cassette/ No Valance		Continuous-Loop Lift Large Cassette/ No Cassette/ No Valance at Max Width		120 Volt Motor Large Cassette at Max Height		120 Volt Motor Large Cassette at Max Width	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Broadcast	77	111	128	133	128	133	127	144	144	74
Chronicles	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Merit	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Monticello	81	86	111	83	144	80	141	81	144	72
Paradigm	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Plexus 1%	74	109	119	120	119	120	123	144	144	74
Plexus 3%	75	112	122	127	122	127	125	144	144	80
Plexus 5%	75	122	127	133	127	133	127	144	144	88
Reaction	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Resolve	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Standard Weave 1%	107	114	135	144	135	144	130	144	144	117
Standard Weave 3%	108	114	139	144	139	144	131	144	144	117
Standard Weave 5%	108	124	140	144	140	144	133	144	144	128
Standard Weave 10%	108	130	142	144	142	144	135	144	144	134
Vanguard 1%	107	114	135	144	135	144	130	144	144	117
Vanguard 3%	108	114	139	144	139	144	131	144	144	117
Vanguard 5%	108	124	140	144	140	144	133	144	144	128
Venture	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR

Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up-to-date size considerations. These tables provide the maximum shade size available by fabric and cassette. Seams may be added to fabrics to accommodate long shade requirements. For shades longer than material width, seams will be visible when the shade is fully extended.

Size Considerations

How to Determine Maximum Shade Size

Follow these easy steps to determine maximum shade size and valance size from the maximum shade size tables.

1. Determine your fabric style, shade size, and cassette (or no cassette for continuous-loop lift) requirement.
2. Find the fabric in the first column.
3. Determine if your shade size is within the normal fabric orientation size range.
4. Identify the appropriate size cassette (or no cassette for continuous-loop lift) for your shade size.
5. If your shade size is larger than either the maximum width or height range, your fabric may be able to be turned width for height for larger shades. Use the fabric turned width for height (railroaded) table.

EXAMPLE: Determine the maximum allowable shade size and cassette for normal orientation shades. The example continuous-loop lift shade is 110" x 120" Vanguard 5% with cassette.

1. Find Vanguard 5% in the first column.
2. Follow the Vanguard 5% fabric row to the width and height sizes.
3. The maximum width and maximum height in normal fabric orientation available for this configuration is 117" x 144".
NOTE: Both width and height must be less than the maximum width and height segment to fit the normal shade orientation.
4. Follow this segment to the top of the table. This segment is within the large cassette size indicating this shade's smallest segment cassette size available is a large size cassette.

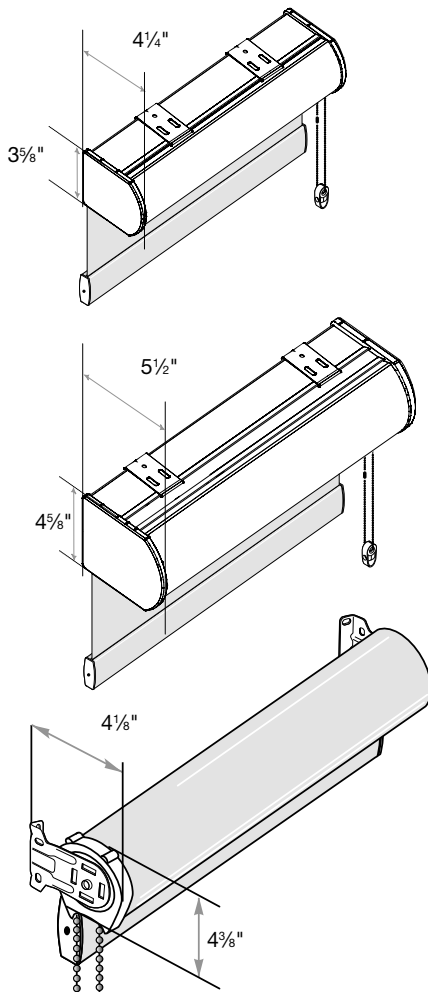
Planning for Installation of Exterior Shades

Use the following planning guidelines for your exterior shade:

1. Determine the location of the shade.
2. Motorized lift shade: Determine the exterior power location. Measure the distance from the planned shade location to the electrical outlet or jbox to order the motor power cable lead length (10 feet).
3. Determine the side of the shade (left or right) the bead chain for continuous-loop lift or the motor power cable for motorized lift should exit.
4. For top mounts, large cassette installation: ½" spacing is required between the window and the back of the bracket.
5. For wall mounts, large cassette installation: ¾" clearance is required above bracket.
6. Use a stud finder to locate solid area to mount installation brackets.
7. Installation of motorized lift shades may require two people.
8. Never install exterior shades in windy conditions.
9. A licensed electrician is required for all electrical connections. All local and NEC codes must be followed.
10. The installation screws provided are for mounting on wood. For mounting on materials other than wood, please consult a qualified professional.

Size Considerations

Depth Requirements for Inside Mount



- The following diagrams illustrate the mounting depth requirements for shades mounted inside window casements or deck/porch frames
- Motorized lift shades come standard with the large cassette valance
- Continuous-loop lift shades shown

Medium Cassette Valance

- 1 3/4" minimum inside mount (continuous-loop lift only)

Large Cassette Valance

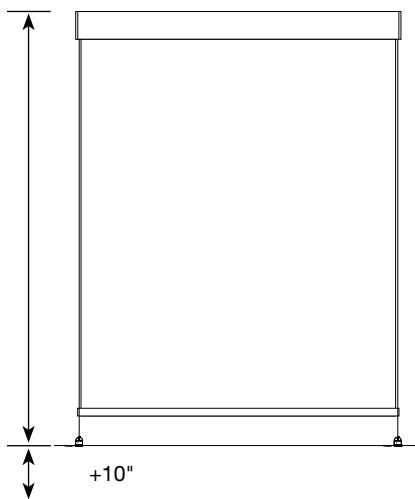
- 1 3/4" minimum inside mount

No Valance*

- 3/4" minimum needed to attach bracket for an inside/side mount
- 4 1/8" minimum for an inside/top mount

*Largest possible measurement given. This will vary with fabric and window dimensions.

Guide Cables (motorized lift shades only)



Use the following to determine the guide cable length that will be provided with your shade:

1. Add 10" to the shade height.
2. The next longest cable length will be supplied.
 - Included in motorized lift pricing
 - Stainless steel guide cable
 - Four lengths available: 54", 80", 144", and 186"
 - Stainless steel cable locks included
 - Cables will be at least 10" longer than ordered height; longer cable can be cut to length needed

EXAMPLE: Shade height is 95". Add 10" = 105". Shade will come with a guide cable at 144" Cable can be cut to required length at time of installation.

Motor Power Cable

1. Estimate the number of feet from the cassette valance motor power cable exit to the electrical junction box or GFCI (ground fault circuit interrupter) outlet.
2. Select 10 feet.

Options

Summary

Control Type Options

- Continuous-loop lift
- Motorized lift with guide cables

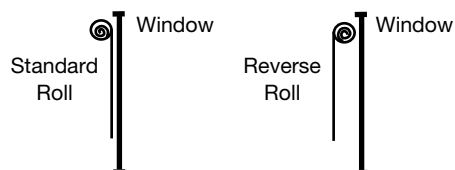
Shade Options—No Charge

- Chain location
- Turning fabric width for height to accommodate wider windows
- Longer chain length
- Reverse roll
- Cable locks—motorized lift
- Guide cables—motorized lift
- Hold downs—continuous-loop lift

Shade Options—Surcharge

- Cassette valance
- Motorization accessories

Reverse Roll

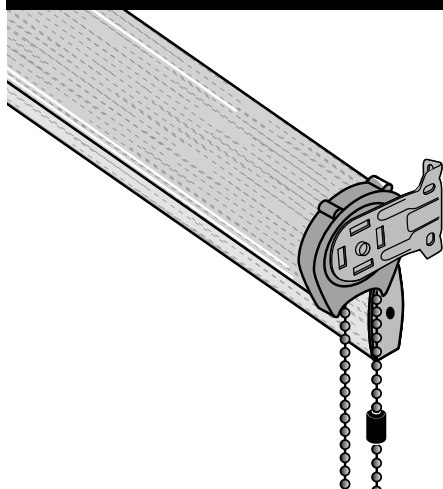


• No charge

- Standard roll is where fabric rolls over the tube to the back
- Reverse roll is where the fabric rolls over the tube to the front
- Reverse roll not available with cassette valance
- Roll direction cannot be changed after shade is manufactured

NOTE: For optimal privacy and light control, standard roll should be used.

Continuous-Loop Lift

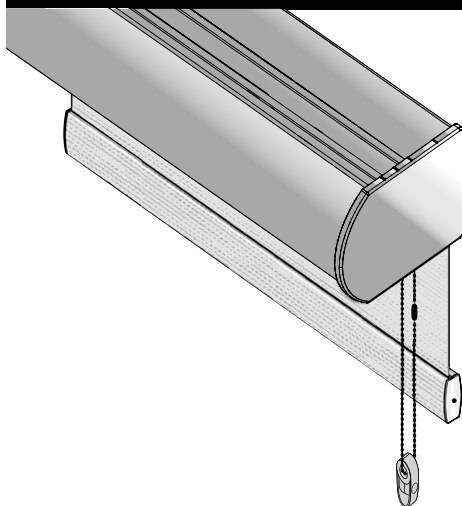


• For pricing, see price charts

- Beaded chain and clutch system makes raising and lowering shade easy
- Two clutch sizes depending on shade size
- Stainless bead chain stays same length regardless of shade position
- Bead chain length is approximately $\frac{7}{8}$ length of shade; customer can request longer chain length at time of order
- Chain is kept at a constant length and held taut by a safety hold down device
- **NOTE:** Hold down device must be installed to operate the shade.
- Choose left or right chain location (right is standard)
- Optional powder-coated cassette valance comes in two sizes (medium or large) and four colors: Black 939, Brown 873, Vanilla 970, White 871
- Component and cassette valance color is selectable
- Hem bar hold downs attach the shade to the frame of the window or deck/patio
- Fabrics and components are specifically designed for outdoor use

NOTE: All exterior shades must be fully raised in wind and inclement weather.

Curved Cassette Valance



• For surcharge, see price charts

- Curved, sleek, aluminum-extruded cassette valance
- Available in four colors: Black 939, Brown 873, Vanilla 970, White 871
- Powder-coated finish
- Rated for outdoor use
- Curved cassette valance must be ordered at the same time as the continuous-loop lift shade (**NOTE:** Automatically comes with motorized lift.)
- Sizes: medium $3\frac{5}{8}$ " high x $4\frac{1}{4}$ " deep (continuous-loop lift only); large $4\frac{5}{8}$ " high x $5\frac{1}{2}$ " deep

Options

Motorized Lift

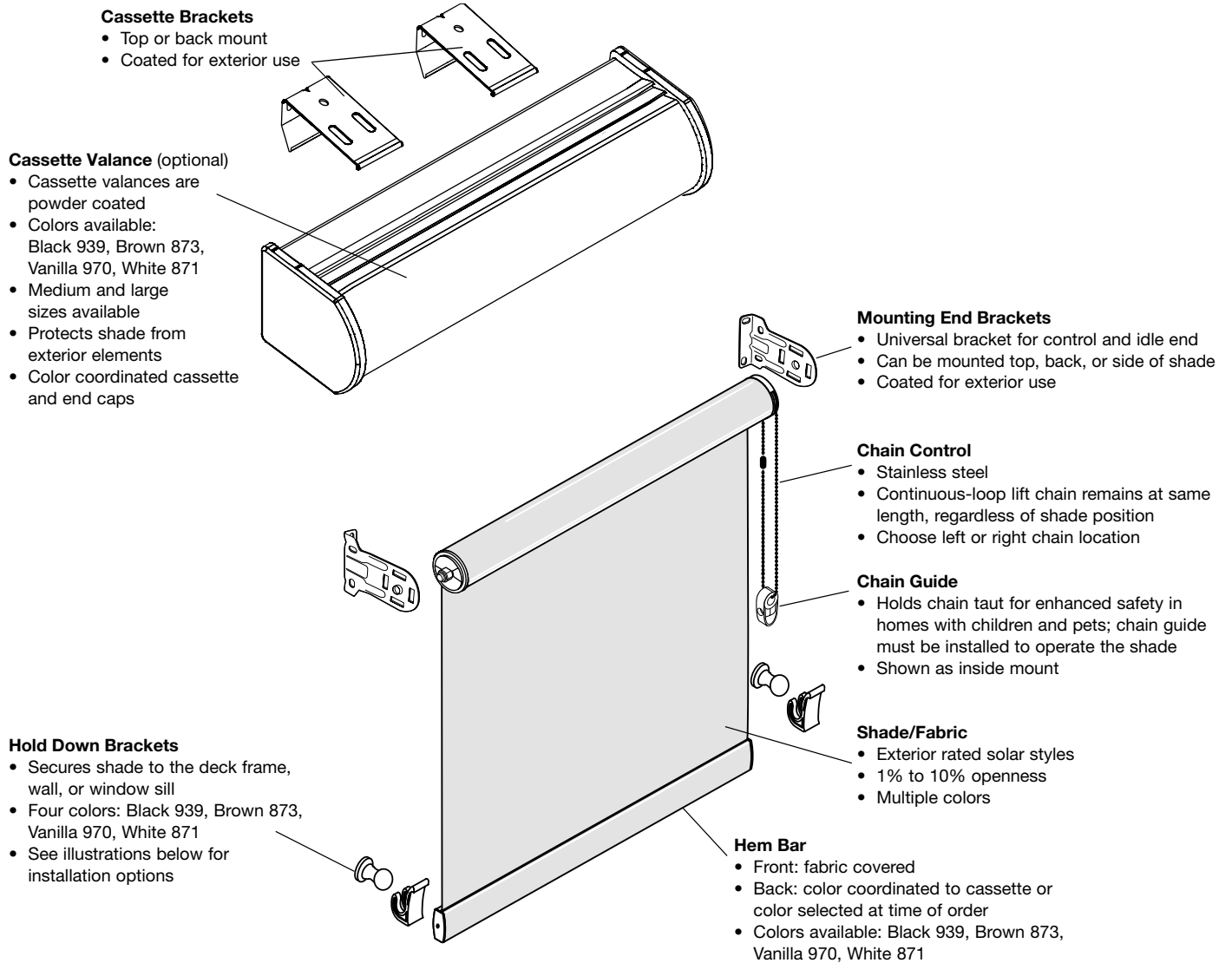
- **For pricing, see price charts**
- Components are rated for exterior use
- Motorized lift shades come standard with a radio frequency AC motor providing convenient operation through wireless remote controllers and wall switches
- Powered using a 3-prong plug (residential outlet) (sold separately) or wired directly by an electrician
- Radio frequency operation allows shade operation from virtually anywhere without direct line of sight; no wiring is required between the motor and the controllers
- Upper and lower motor limits are pre-programmed for added convenience
- Large cassette valance is included in price, available in four colors: Black 939, Brown 873, Vanilla 970, White 871
- Universal cable locks are standard
- Guide cables are secured with unique, universal cable lock that can be mounted base/sill or back/wall
- Guide cables determined by shade height; 54", 80", 144", 186"

Motorized Lift Options

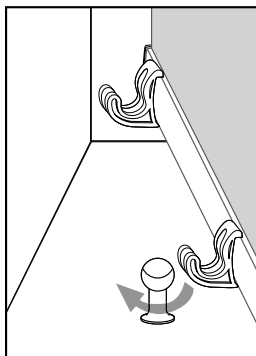
- Controllers and wall switches are wireless, providing installation and operation convenience
- 1- and 5-channel remote controllers operate individual or groups of shades
- Exterior rated remote controls are water resistant and shock proof
- Interior remote controllers and wireless wall switches can operate the same shades
- Interior wireless 1- and 5-channel wall switches provide convenient operation of individual or groups of shades from inside the home
- Wind sensor will automatically raise the shade in windy conditions, providing protection of your shades
- Choose left or right motor power cable location
- Power cable length available: 10 feet
- Exterior rated black plug available

General Information

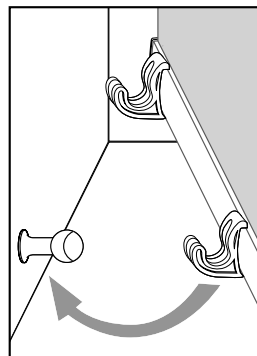
Exterior Continuous-Loop Lift Product Detail



NOTE: The installation screws provided are for mounting on wood. For mounting on materials other than wood, please consult a qualified contractor.



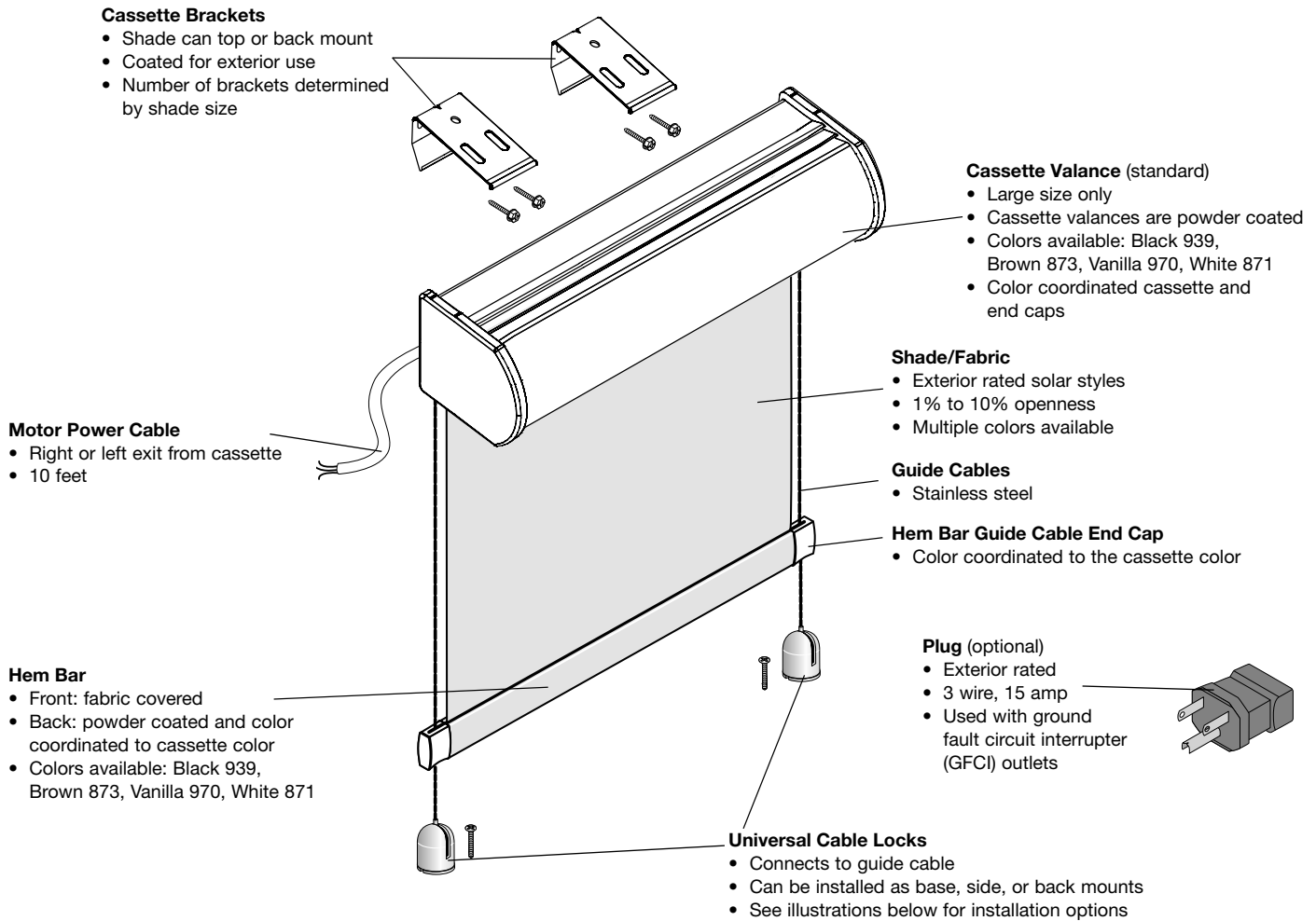
Base/Sill Mount



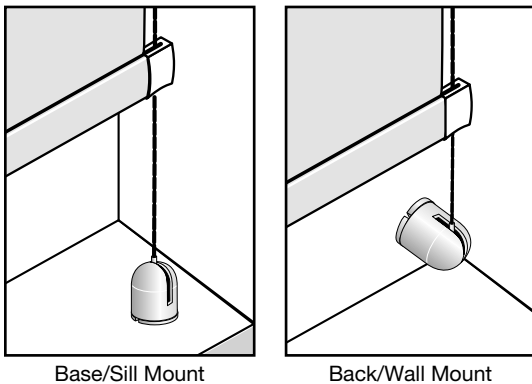
Back/Wall Mount

General Information

Exterior Motorized Lift Shade Product Detail



NOTES: A licensed electrician is required for all electrical connections. All local and NEC codes must be followed.
The installation screws provided are for mounting on wood. For mounting on materials other than wood, please consult a qualified contractor.



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