

HOME TECHNOLOGY AND INTEGRATION

Product Information Guide

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GRABER®

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Features

Motorized Blinds and Shades

Refer to individual base product information guide for specific option and size information for the product being ordered.

RTS Motorization: this category has been offered by Graber® for quite some time and has been a workhorse family of motors for cellular, pleated, solar, roller, natural, Fresco® Roman, Artisan Roman, sheer, layered shades, and our tilt products.

Zigbee Motorization: this category is NEW to Graber and has a family of motors for solar, roller, natural shade, Artisan Roman, sheer and layered products.

Radio Frequency (RF)

Motorized Graber blinds and shades feature Somfy radio frequency motors and accessories. All Somfy radio frequency motors utilize Somfy's proprietary protocols:

- Window treatments can be operated from virtually anywhere in the home up to 65 feet
- Provides easy operation of hard-to-reach or large windows
- Efficiently manages energy (heat gain and loss)
- Operate multiple window treatments simultaneously or individually
- A safer alternative to corded lift options; ideal for homes with children and pets
- Easily integrated with home automation systems
- Not available with hold down brackets or specialty window treatments

Control and Power Options

- Multiple control and power options available; see options section for availability

Somfy Zigbee 3.0 motorized shades feature the following:

- Two way communication
- Supports third-party integration, smart home, and connectivity
- Uses a mesh network designed so devices can repeat signals to other devices if needed.
- Product categories aligned with CEDIA channel demand.
- Motorization aligned with CEDIA channel

Somfy Radio Technology (RTS) motorized blinds and shades feature the following:

- Only used by Somfy
- One way communication
- Offered in most product categories
- Operates on 433.42 MHz frequency

Channel and Control Assignments for Somfy Radio Technology (RTS) Motorization

Channel and control assignments are available when you purchase motorized window coverings. Specifying channels simplifies your install process by pre-programming each shade to the appropriate channel and control for your order.

- Each individual window covering can be assigned to a single channel, enabling unique control; multiple window coverings can also be assigned to an individual channel, enabling group control
 - Channel assignment is recommended on all radio frequency (RF) controls within the same product type
 - Custom programming available on handheld remotes, and wall switches only

Standard Motors

- Available with solar and roller products only
- Standard motors are hard-wired both to power (line voltage) and controls
- 120-volt motors allow operation of large shades (see motorization size charts)
- Hard-wired controls provide the most reliable control of shades
- Control options include
 - Wall switches for convenient, reliable control or dry contact outputs provided by certain home automation packages
 - Group controllers to operate multiple shades with a single switch

Features and Size Considerations

CrystalPleat® Cellular Shades Motorized Lift

Order Entry: 12V RTS CL32 Motor (Somfy RTS)



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on right side within the headrail
- Multiple shades on one headrail available; each panel will have a motor and power source
- Not available with bottom up/top down, sun up/sun down, top down only, SkyTrack™, combination shade, or specialty shapes
- Not available with cut outs, room darkening side channels, hold down or side mount brackets.
- Available as corner and bay window applications
- Available with Wood Cornice and Valance
- Available with reversible fabric at time of order
- Available with lightblocking strip
- Rail colors can be specified at time of order

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Size Considerations

Cellular Fabric Styles	Maximum Shade Size (square inches)
1/2" Double Cell Sanctuary, Discovery	7,500
3/4" Single Cell Couture Blackout, Enchantment Blackout, Kinsley Light Filtering, Kinsley Blackout, Infuse Blackout, Montage Blackout, Prestige Blackout	9,000
3/4" Single Cell Infuse Light Filtering	11,500
3/4" Single Cell Couture Light Filtering, Enchantment Light Filtering, Montage Light Filtering, Prestige Light Filtering	13,000
Endeavor 3/4" Single Cell, Endeavor 3/8" Single Cell, Sanctuary 1 1/4" Double Cell, Sanctuary 1/2" Double Cell, Sanctuary 3/4" Double Cell	13,000
Splendor 1 1/4" Double Cell, Splendor 1/2" Double Cell, Splendor 3/4" Double Cell, Scroll FR 3/4" Single Cell, Simply Sheer 3/4" Double Cell	11,500
Valletta 3/4" Single Cell, Valletta 1 1/4" Single Cell	13,000

Motor Type	Minimum Width (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)
Somfy RTS (CL32)	20	144*	9	144*

*This is the shade size maximum limit for this motor type, shades size limit may be smaller based on specific fabric type. For all inside mount applications, 3/8" deduction is taken by the manufacturer on overall width.

Power Size Considerations

Motor Type	Fabric Style	Maximum Shade Size (square inches)		
		Single Battery Type	Dual Battery Type	Plug-In Transformer
Somfy RTS (CL32)	All Fabrics	≤ 3,600	≤ 7,200	> 7,200

NOTE: The chart above reflects manufacturer's power source recommendation for best performance based on motor type, shade size, and fabric type. For best performance, orders of 10 or more shades are recommended to use plug-in transformer.

Depth Requirements for Inside Mount

Cell Size	Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)
3/4" single cell 1/2" double cell	1 1/16 x 2 3/8	5/8	2 3/8
3/8" single cell	1 1/16 x 2 1/8	5/8	2 1/8
1 1/4" single cell	1 5/8 x 3 3/8	1 1/8	3 3/8

Features and Size Considerations

Pleated Shades Motorized Lift

Order Entry: 12V RTS CL32 Motor (Somfy RTS)



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on right side within the headrail
- Multiple shades on one headrail available; each panel will have a motor and power source
- Available for standard bottom up shades; not available with specialty shapes
- Not available with hold down or side mount brackets
- Available as corner and bay window applications
- Available with Wood Cornice and Valance
- Available with Privacy and Blackout liner
- Available with lightblocking strip
- Rail colors can be specified at time of order

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Size Considerations

Fabric Style	Maximum Shade Size (square inches)
	Somfy RTS (CL32)
2" Debonair, Desert, Grasscloth, and Serendipity	7,500
1" Debonair	9,000
2" Geneva and Prism	
1" Desert, Eloquence, Grasscloth, Muse, Imperial, Prism, and Tuvalu	11,500
2" Marquis and Sheer Linen	
1" Allure, Geneva, Marquis, Sheer Linen; Liner only shades	13,000

Motor Type	Shade Type	Minimum Width (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)
Somfy RTS (CL32)	1" FashionPleat	20	144	9	96
	1" EvenPleat	20	120	6	96
	2" EvenPleat	20	144*	12	120

*This is the shade size maximum limit for this motor type, shades size limit may be smaller based on specific fabric type.

For all inside mount applications, $\frac{3}{8}$ " deduction is taken by the manufacturer on overall width.

Power Size Considerations

Motor Type	Fabric Style	Maximum Shade Size (square inches)		
		Single Battery Type	Dual Battery Type	Plug-In Transformer
Somfy RTS (CL32)	All Fabrics	≤ 3,600	≤ 7,200	> 7,200

NOTE: The chart above reflects manufacturer's power source recommendation for best performance based on motor type, shade size, and fabric type. For best performance, orders of 10 or more shades are recommended to use plug-in transformer. The multi-motor power supply kit and solar power kit are available at any shade size.

Depth Requirements for Inside Mount: Motorized Lift

Shade Type	Headrail Dimensions (inches)	Minimum Depth Mount (inches)	
		Partially recessed headrail in window casing/molding	Fully recessed headrail in window casing/molding
1" Pleat	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$	$\frac{5}{8}$	2 $\frac{3}{8}$
2" Pleat	1 $\frac{1}{16}$ x 2 $\frac{3}{8}$	$\frac{5}{8}$	2 $\frac{3}{8}$

Features and Size Considerations

Fresco® Roman Shades Motorized Lift

Order Entry: 12V RTS CL32 Motor



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on right side within the headrail
- Multiple shades on one headrail available; each panel will have a motor and power source
- Not available with bottom up/top down
- Not available with hold down or side mount brackets
- Available as corner and bay window applications
- Available with Wood Cornice and Valance
- Available with Flat and Looped styles
- Available with fabric valance and fabric valance trims

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Roman Size Considerations	Minimum Width* (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)
Roman Shades: Classic Flat or Looped	20	76†	18	96

*For all inside mount applications, 3/8" deduction is taken by manufacturer on overall width.

†Based on fabric width.

Power Size Considerations

Motor Type	Fabric Style	Maximum Shade Size (square inches)		
		Single Battery Type	Dual Battery Type	Plug-In Transformer
Somfy RTS (CL32)	All Fabrics	≤ 4,200	≤ 8,400	> 8,400

NOTE: The chart above reflects manufacturer's power source recommendation for best performance based on motor type, shade size, and fabric type. For best performance, orders of 10 or more shades are recommended to use plug-in transformer. The multi-motor power supply kit and solar power kit are available at any shade size.

Depth Requirements for Inside Mount

Lift Option and Shade Style	Headrail Dimensions (inches)	Partially recessed headrail in window casing/molding	Fully recessed headrail in window casing/molding
		Minimum Depth Mount (inches)	Flush with Casing (inches)
Motorized Lift: Flat	1 1/16 x 2 1/8	5/8	2 1/2
Motorized Lift: Looped	1 1/16 x 2 1/8	1/2 (fabric loops will overhang approximately 3" into the room)	2 1/2 (fabric loops will overhang approximately 3" into the room)

Features and Size Considerations

Horizontal Blinds Motorized Tilt

Order Entry: Ring Lift with Motorized Tilt



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Available with: 2" Traditions® Wood Blinds
 2⅜" Traditions Wood Blinds
 2" Elite Wood Blinds
 2⅜" Elite Wood Blinds
 2" Traditions Composite Blinds
 2½" Traditions Composite Blinds
 2" Vinyl Blinds
 2" Grandeur™ Aluminum Blinds

Features

- Motorization will only tilt slats; raising or lowering the blind is manual with cord lift
- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on the left side within the headrail; cord lift is on the right side
- Not available with specialty shapes, hold down brackets, or multiple blinds on one headrail

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Size Considerations	Minimum Width (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)	Maximum Size (square inches)
Wood/Composite Blinds	19	96	10	120	2" and 2⅜": 7,200 2½": 6,480
2" Vinyl	19	84	9⅝	108	7,200
2" Aluminum	19	84	9⅝	126	7,200

EXAMPLE: 96" wide x 96" high = 9,216 square inches (over maximum size)
 18" wide x 62" high = 1,116 square inches (under minimum width)
 67" wide x 84" high = 5,628 square inches (size is within acceptable range)

Depth Requirements for Inside Mount: Aluminum

Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)	Flush Mount with Valance (inches)
1⅝ x 2¼	¾	2⅜	3⅝

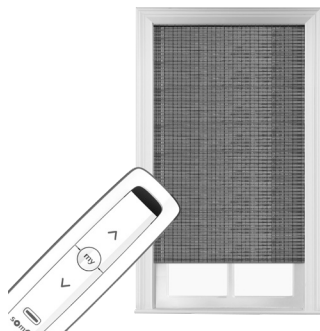
Depth Requirements for Inside Mount: Vinyl

Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)
1⅝ x 2¼	¾	Without valance: 2⅜ With standard valance: 3⅝ With double valance: 4

Features and Size Considerations

Tradewinds® Natural Shades Motorized Lift

Order Entry: See chart below



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Available on standard Roman or old style Roman
- Available with deco-trim hems and accent gimp
- Available with privacy and room-darkening liners
- Available with 9" standard valance, 9" premier valance, or 9" deco-trim valance
- Available with fabric edge banding and liners
- Motor mounted to the underside of hardwood headrail on right side
- Not available with looped Roman, bottom up/top down, angle top, or hold down brackets
- Available with bottom corner and bottom center cut-outs

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

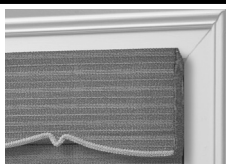
Motorization Options	Yes	No
Standard Roman	•	
Old Style Roman	•	
Looped Roman		•
Bottom Up/Top Down		•
Multiple Shades on One Headrail	•	

Order Entry	
Motor Type	Order Entry
12V Non-rechargeable	12V RTS R28 Non-rechargeable Motor (2)
12V Zigbee Non-rechargeable	12V Zigbee Son28 Non-rechargeable (30)
12V Zigbee Rechargeable	12V Zigbee Son28 Rechargeable (31)
12V Ultra Zigbee Rechargeable	12V Zigbee Son30 ULTRA Rechargeable (32)
24V Non-rechargeable	24V RTS ST30 Non-rechargeable Motor (16)

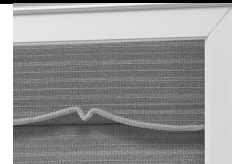
Style	Minimum Height	12V RTS and Son28 Zigbee Minimum Width (inches)	Maximum Size 12V RTS and Son28 Zigbee		24V RTS and Son30 Zigbee Minimum Width (inches)	Maximum Size 24V RTS and Son30 Zigbee	
			Shade (square inches)	With Liner (square inches)		Shade (square inches)	With Liner (square inches)
Inan, Lipo, Moniz, Revelry, Serenity, Toushan II	13"	20	2,755	2,333	24	3,821	3,235
Denver, Brooklyn, Reminisce, Stateside		20	4,493	3,466	24	6,240	4,800
Bellamy, Seasons		20	5,194	3,878	24	7,219	5,376
Boardwalk, Merino, Sarto		20	6,058	4,330	24	8,410	6,010
Bayport, Beachfront, Hadley, Kelton, Oxford, Paralian, Verity, Wild Haven		20	6,854	4,723	24	9,513	6,547
Berwick, Cameron, Cherish, Interlude, Olympia, Rowen, Purcell, Saterra, Selene, Tatum, Terrestrial, Ventura, Zishan		20	9,149	5,712	24	11,520	7,920

Depth Requirements for Inside Mount

Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)
5/8" x 2 1/4"	3/4"	Standard valance 3 3/16"



Partially recessed valance in window casing/molding



Fully recessed valance in window casing/molding

Features and Size Considerations

Artisan Roman Shades Motorized Lift

Order Entry: See chart below



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Fabric wrapped headrail for a beautifully finished look; returns are standard on outside mount
- Available as pleated styles: Looped, Classic Flat; Seamless or Relaxed
- Available with liner styles: Standard, water repellent, thermal, flannel-back
- Available finishing options: Inset banding, edge banding, decorative tape
- Motor mounted to the underside of hardwood headrail on left or right side; standard on right
- Not available with balloon pleat, blackout liner, or multiple shades on one headrail

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Size Considerations

Width		Height		
Minimum (inches)	Maximum (inches)	Minimum (inches)	Classic, Seamless, and Relaxed Shades Maximum (inches)	Looped Shades Maximum (inches)
24	96	18	120	103

Motorized Maximum Shade Area

Shade Group	12V RTS and Son28 Zigbee Motorized Lift			24V RTS and Son30 Zigbee Motorized Lift		
	Standard (square inches)	Thermal or Water Repellent (square inches)	Flannel-Back (square inches)	Standard (square inches)	Thermal or Water Repellent (square inches)	Flannel-Back (square inches)
1	6,800	6,010	5,300	10,465	9,940	8,400
2	5,612	4,958	4,600	9,120	8,860	7,500
3	4,758	4,338	4,000	8,100	8,000	6,700
4	3,894	3,812	3,400	7,450	7,300	5,800
5	3,318	3,230	2,840	6,700	6,610	5,200
6	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: Area is ordered width x ordered height in square inches.

EXAMPLE: 60" wide x 84" high = 5,040 square inches.

Order Entry	
Motor Type	Order Entry
12V Non-rechargeable	12V RTS R28 Non-rechargeable Motor (2)
12V Zigbee Non-rechargeable	12V Zigbee Son28 Non-rechargeable (30)
12V Zigbee Rechargeable	12V Zigbee Son28 Rechargeable (31)
12V Ultra Zigbee Rechargeable	12V Zigbee Son30 ULTRA Rechargeable (32)
24V Non-rechargeable	24V RTS ST30 Non-rechargeable Motor (16)

Depth Requirements for Inside Mount

Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)
2 1/4 D x 3/4 L	3/4	2 1/8

Features and Size Considerations

Mezzanine Layered Shades Motorized Lift

Order Entry: See chart below



Refer to individual product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on right or left side; standard on the right
- Static guard is necessary during dry conditions to prevent static build up.
- Available as corner and bay window applications
- Not available with Wood Cornice and Valance
- Fabric-wrapped cassette comes standard and creates a cohesive appearance in the window
- Not available with hold down brackets
- Down = down closed (shade lowered; stripes closed)
- My/Stop = down open (shade lowered; stripes open)

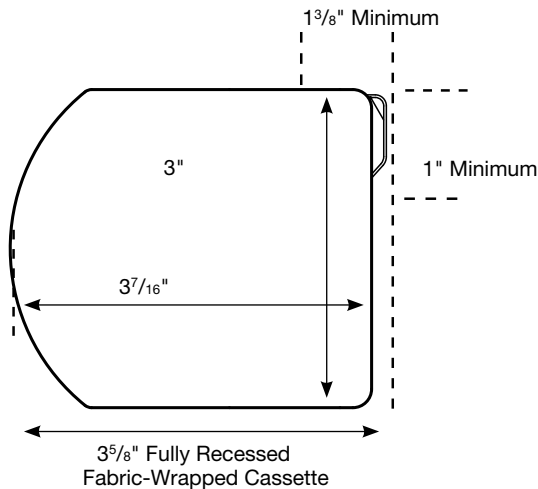
Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Light Gap			
Motor End		Idle End	
Inside Mount (inches)	Outside Mount (inches)	Inside Mount (inches)	Outside Mount (inches)
1 ¹ / ₁₆	1	3 ³ / ₄	1 ¹ / ₁₆

The fabric width is narrower than the finished shade width of the tube and its components. See chart above for light gap.



Minimum Mounting Depth	1 ³ / ₈ "
Minimum Mounting Depth, Flush Mount	3 ⁵ / ₈ "

Size Considerations		
Style Name	Maximum Width* (inches)	Maximum Height* (inches)
Atlantic Waves	100	75
Bernina	96	110
Coastal Collection	98	75
Coastal Ridge	98	60
Cordillera	85	75
Cottonwood	101	100
Crestones	97	84
Culebra	95	110
Glorieta	98	110
Glorieta Sheen	98	110
Heathered	95	77
Herard	97	77
Linen Dream	95	72
Oceanfront	99	60
Palmetto	97	100
Papyrus	98	60
Refreshed	93	84
Riptide	100	110
Seascape	98	77
Seaside Resort	99	110
Spascape	100	77
Vanoise	91	95

Minimum width: motorized lift 16".

Minimum height: 12"

*If the height is shorter than the maximum, a slightly larger width may be available to order. Maximum width is 102".

Size Considerations			
Motor Type	Order Entry	Minimum Width (inches)	Minimum Height (inches)
12V Non-rechargeable	12V RTS R28 Non-rechargeable Motor (2)	16	13
12V Zigbee Non-rechargeable	12V Zigbee Son28 Non-rechargeable (30)	16	
12V Zigbee Rechargeable	12V Zigbee Son28 Rechargeable (31)	25 ¹ / ₂	
12V Ultra Zigbee Rechargeable	12V Zigbee Son30 ULTRA Rechargeable (32)	28	

Features and Size Considerations

Overture Sheer Shades Motorized Lift

Order Entry: See chart below



Refer to individual base product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Low voltage motorization requires no costly electrical hard-wiring
- Motor located on right or left side; standard on the right
- Fabric-wrapped cassette comes standard and creates a cohesive appearance in the window
- Available as corner and bay window applications
- Not available with Wood Cornice and Valance
- Not available with hold down brackets
- Down = down open (shade lowered; vanes open)
- My/Stop = down closed (shade lowered; vanes closed)

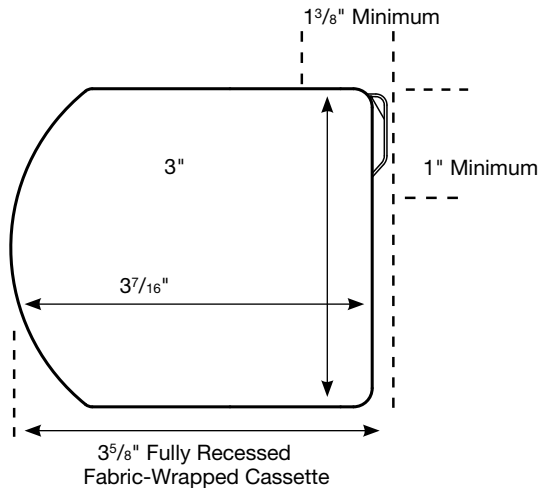
Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Light Gap			
Motor End		Idle End	
Inside Mount (inches)	Outside Mount (inches)	Inside Mount (inches)	Outside Mount (inches)
1	1 ⁵ / ₁₆	1 ¹ / ₁₆	5 ⁵ / ₁₆

The fabric width is narrower than the finished shade width of the tube and its components. See chart above for light gap.



Minimum Mounting Depth	1 ³ / ₈ "
Minimum Mounting Depth, Flush Mount	3 ⁵ / ₈ "

Size Considerations		
Style Name	Maximum Width* (inches)	Maximum Height* (inches)
Alpine 2"	79	110
Coastal Waves 2"	96	105
Deco Diamond 2"	96	105
Deco Diamond 3"	96	65
Evening Star 2"	71	85
Glessner 2"/Glessner 3"	96	105
Glessner Sheen 2"/Glessner Sheen 3"	98	110
Glessner Woven 2"/Glessner Woven 3"	96	110
Lustrous 1"	102	69
Lustrous 2"	96	105
Marisco 2"/Marisco 2 3/4"	94	99
Modern Grid 1" 5301	102	69
Modern Grid 1" 5302, 5303, 5304	98	87
Modern Grid 1" 5300	94	75
Roslin 1"	94	75
San Simeon 3"	96	65
Starlight 2"	96	105
Starlight 3"	96	65
Sun Reflections 2"	96	105
Surfside 2"	96	105
Surfside 3"	96	65
Winchester 1"	97	87
Winchester Sheen 1"	102	69
Winchester Woven 1"	97	87

Minimum width: motorized lift 16".

Minimum height: 12"

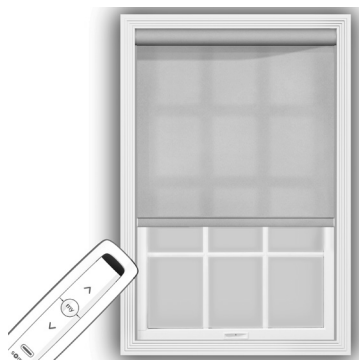
*If the height is shorter than the maximum, a slightly larger width may be available to order. Maximum width is 102".

Size Considerations			
Motor Type	Order Entry	Minimum Width (inches)	Minimum Height (inches)
12V Non-rechargeable	12V RTS R28 Non-rechargeable Motor (2)	16	13
12V Zigbee Non-rechargeable	12V Zigbee Son28 Non-rechargeable (30)	16	
12V Zigbee Rechargeable	12V Zigbee Son28 Rechargeable (31)	25 1/2	
12V Ultra Zigbee Rechargeable	12V Zigbee Son30 ULTRA Rechargeable (32)	28	

Features and Size Considerations

Lightweaves® Roller and Solar Shades Motorized Lift

Order Entry: See chart below



Refer to individual base product information guide for specific option information for the product being ordered. See page 2 for benefits of using Motorization.

Features

- Line voltage has multiple wiring options and is ideal for large interior solar shades
- Not available with hold down brackets
- Available with standard or reverse roll; Reverse roll not available with any valance.
- Available with valance styles: cassette, contour, fascia, wood valance and wood cornice; 120v not available with cassette.
- Available with side channels with sealed hem bar only
- Motor located on the left or right side; standard on the right
- Rechargeable motors will be received at approximately 30% charge. Charging will be required before use.
- Available as corner and bay window applications
- Available with Wood Cornice and Valance
- Available as Dual Shade (integrates two fabrics that can be independently raised and lowered as needed); each shade requires a power source. Dual shade not available with rechargeable motors;
- Available with finishing options: scallops, gimp trim, bead trim

Control and Power Options

- Multiple control and power options available; see options section for availability

NOTE: Motorization components and accessories have a five-year limited warranty, excluding batteries.

Light Gap (inches)				
Valance Type	Motor Type			
	12V Non-rechargeable Motor	12V Rechargeable Motor	24V RTS ST30 Non-Rechargeable	120V STD ST40 Motor/120V RTS ST40 Motor
Contour, Flat, Fascia, No Valance	$\frac{1}{16}$ to $\frac{13}{16}$	$\frac{1}{16}$ to $\frac{13}{16}$	$\frac{1}{16}$ to $\frac{7}{8}$	$\frac{1}{16}$ to $1\frac{1}{8}$
All Flat Cassette Sizes	$\frac{1}{16}$ to $\frac{15}{16}$	$\frac{1}{16}$ to $\frac{15}{16}$	$\frac{1}{16}$ to 1	N/A
Dual No Cassette	$\frac{1}{16}$ to $\frac{13}{16}$	N/A	$\frac{1}{16}$ to $\frac{7}{8}$	N/A
Dual with Cassette	$\frac{1}{16}$ to 1	N/A	$\frac{1}{16}$ to 1	N/A

Size Considerations			
Motor Type	Order Entry	Minimum Width (inches)	Minimum Height (inches)
12V RTS Non-rechargeable	12V RTS R28 Non-rechargeable Motor (2)	16	13
12V Zigbee Non-rechargeable	12V Zigbee Son28 Non-rechargeable (30)	13	
12V RTS Rechargeable	12V RTS RU28 Rechargeable Motor (11)	25½	
12V RTS Zigbee Rechargeable	12V Zigbee Son28 Rechargeable (31)	25½	
12V RTS Rechargeable	12V RTS S30 Rechargeable Motor (15)	28	
12V RTS Ultra Zigbee Rechargeable	12V Zigbee Son30 ULTRA Rechargeable (32)	28	
24V RTS Non-rechargeable	24V RTS ST30 Non-rechargeable Motor (16)	21	
Interior 120-Volt RTS	120V RTS ST40 Motor (4)	24½	
Interior 120-Volt Standard	120V STD ST40 Motor (5)	23	

NOTE: See size charts on following pages.

Power Size Considerations Chart			
Motor Type	Battery Tube AA Lithium (square inches)	Dual Battery Tube AA Lithium (square inches)	Plug in Transformer (square inches)
12V R28 and Son28 Zigbee Non-Rechargeable	≤ 3,600	≤ 7,200	> 7,200

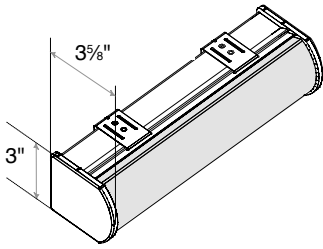
NOTE: The chart above reflects manufacturer's power source recommendation for best performance based on motor type, shade size, and fabric type. For best performance, orders of 10 or more shades are recommended to use plug-in transformer.

See page 52 for Rechargeable motor battery expectancy.

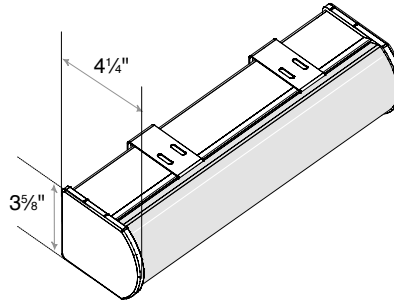
Motorized Wand Size Considerations

Motorized Lift: Mounting Depth Illustrations

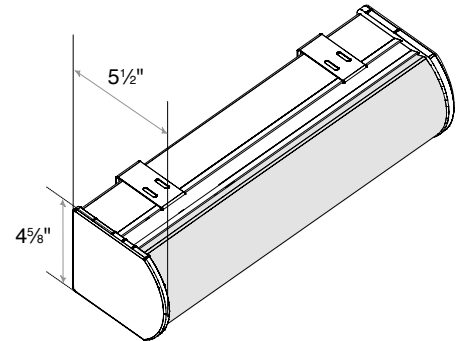
The following diagrams illustrate the mounting depth requirements for shades mounted inside window casements.



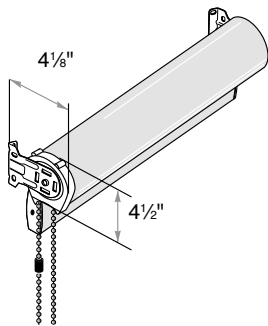
Small Cassette Valance
1 3/8" Minimum Inside Mount



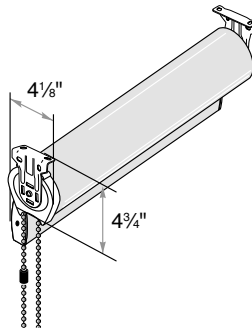
Medium Cassette Valance
1 3/4" Minimum Inside Mount



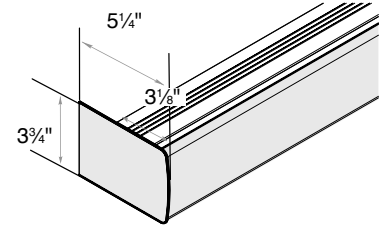
Large/Dual Cassette Valance
1 3/4" Minimum Inside Mount



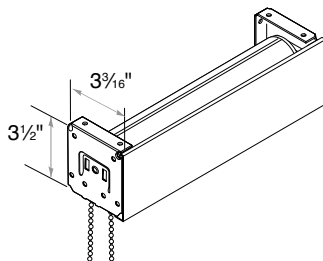
No Valance*
3/4" Minimum Inside/Side Mount



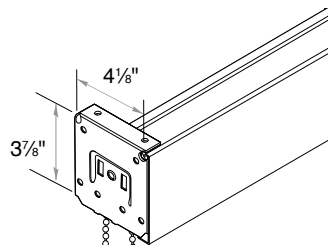
No Valance*
4 1/8" Minimum Inside/Top Mount



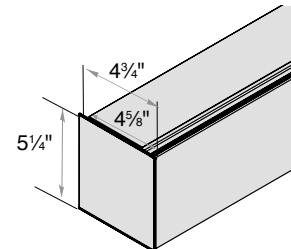
Contour Valance
2 7/16" Minimum Inside Mount
(return can be trimmed)



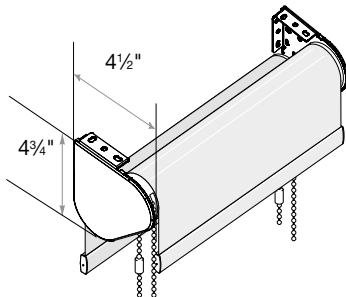
3" Fascia
2 3/4" Minimum Inside/Top Mount
3/4" Minimum Inside/Side Mount



4" Fascia
3 3/4" Minimum Inside/Top Mount
1 1/2" Minimum Inside/Side Mount



Flat Valance
2 15/16" Minimum Inside Mount
(return can be trimmed)



Dual Shade—No Cassette Valance
2" Minimum Inside/Top Mount
3/4" Minimum Inside/Side Mount

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum width: 251/2"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size

Valance Type		Normal Fabric Orientation												Fabric Turned Width for Height (railroaded)																															
		Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance				3" Fascia				4" Fascia				Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance				Large Cassette/ Contour Valance/ No Cassette at Maximum Width				3" Fascia				4" Fascia			
		Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)						
Arboretum BO	88	91	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82	131	82				
Arboretum LF	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92	119	92				
Bradley	87	69	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82				
Bravado BO	90	76	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82	125	82				
Bravado LF	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92	96	92					
Broadcast	86	65	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94	80	94					
Buxton	84	73	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90	81	90					
Cambridge LF (Academy; Hawaiian Blue; Mirage; Pond; Vernal)	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96	104	96				
Cambridge LF (Ivory)	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76				
Cambridge LF (White; Off White; Inkwell; Clay; Misty)	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92				
Cambridge RD (Academy; Hawaiian Blue; Mirage; Pond; Vernal)	88	96	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82				
Cambridge RD (Ivory)	76	114	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76				
Cambridge RD (White; Off White; Inkwell ; Clay ; Misty)	88	96	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82	139	82				
Capri	70	107	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70				
Chakra	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92				
Chronicles	85	93	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82	111	82				
Complex	87	70	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82	95	82				
Conservancy LF	74	91	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97	74	97					
Conservancy BO	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65	70	65					
Consummate Silk	79	96	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79	144	79				

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations. See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size																				
Valance Type		Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)								
		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width		3" Fascia		4" Fascia
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Debonair	95	87	95	87	95	87	95	87	95	87	95	87	95	87	95	87				
Delphine BO	88	82	82	123	82	123	82	120	82	123										
Delphine LF	96	102	96	102	96	102	96	102	96	102	96	102	96	102	96	102				
Destin BO	87	82	82	112	82	112	82	112	82	112	82	112	82	112	82	112				
Diplomat	96	90	96	90	96	90	96	90	96	90	96	90	96	90	96	90				
Dorian	92	118	92	144	92	144	92	144	92	144	92	144	92	144	92	144				
Earth Synergy	88	91	82	131	82	131	82	131	82	131	82	131	82	131	82	131				
EcoEncore	97	101	97	101	97	101	97	101	97	101	97	101	97	101	97	101				
Ellington 1%	75	81	75	81	75	81	75	81	75	81	75	81	75	81	75	81	75	81	75	81
Ellington 3%	77	84	76	90	76	90	76	90	76	90	76	90	76	90	76	90	76	90	76	90
Ellington 5%	71	64	71	64	71	64	71	64	71	64	71	64	71	64	71	64				
Emerson	74	84	82	117	82	117	86	92	82	117	86	92	82	117	86	92				
Empirical	96	98	96	98	96	98	96	98	96	98	96	98	96	98	96	98				
Emporium (Bookplate White)	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82				
Emporium (Sepia Snapshot)	89	94	82	144	82	144	82	141	82	144	82	141	82	144	82	144				
Emporium (Silver Dollar; Vintage Letterpress; Sheet Music; Stepping Stone)	90	97	90	97	90	97	90	97	90	97	90	97	90	97	90	97				
Enviro-INFUSION	96	105	96	105	96	105	96	105	96	105	96	105	96	105	96	105				
Essential	70	144	70	144	70	144	70	144	70	144	70	144	70	144	70	144	82	110	82	110
Exposition	75	67	82	104	82	104	86	80	82	104	86	80	82	104	82	104				
Florian	92	135	92	137	92	137	92	137	92	137	92	137	92	137	92	137				
Freesia	102	118	102	119	102	119	102	119	102	119	102	119	102	119	102	119				
Gallery	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140				
Gleam	79	90	79	90	79	90	79	90	79	90	79	90	79	90	79	90				
Grasses	72	84	72	128	72	144	72	115	72	144	72	115	72	144	72	144				

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Guildhall	84	80	82	92	82	92	82	92	82	92	82	92	82	92	82	92	82	92	82	92
Halifax	92	103	92	103	92	103	92	103	92	103	92	103	92	103	92	103	92	103	92	103
Harmonics	92	94	92	94	92	94	92	94	92	94	92	94	92	94	92	94	92	94	92	94
Harmony	92	124	92	124	92	124	92	124	92	124	92	124	92	124	92	124	92	124	92	124
Jacinta	97	99	97	99	97	99	97	99	97	99	97	99	97	99	97	99	97	99	97	99
Kindred	97	101	97	101	97	101	97	101	97	101	97	101	97	101	97	101	97	101	97	101
Levity	100	88	97	118	97	118	97	118	97	118	97	118	97	118	97	118	97	118	97	118
Linnea	96	144	96	144	96	144	96	144	96	144	96	144	96	144	96	144	96	144	96	144
LiveWell	85	76	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94
Manifest BO	82	140	82	144	82	144	82	144	82	144	82	144	82	144	82	144	82	144	82	144
Manifest LF	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144
Marina	96	86	95	96	95	96	95	96	95	96	95	96	95	96	95	96	95	96	95	96
Mayfair	99	117	99	117	99	117	99	117	99	117	99	117	99	117	99	117	99	117	99	117
Merit	75	93	75	93	75	93	75	93	75	93	75	93	75	93	75	93	75	93	75	93
Momentum	87	78	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107
Monaco	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144
Monticello	74	69	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96	82	96
Nantucket	77	64	85	92	82	111	88	76	82	111	88	76	82	111	88	76	82	111	88	76
Nebula	79	59	74	84	74	84	74	84	74	84	74	84	74	84	74	84	74	84	74	84
Northshore	95	78	95	78	95	78	95	78	95	78	95	78	95	78	95	78	95	78	95	78
Olbrecht	77	80	75	93	75	93	75	93	75	93	75	93	75	93	75	93	75	93	75	93
Paragon	76	89	76	89	76	89	76	89	76	89	76	89	76	89	76	89	76	89	76	89
PlanetSafe	92	124	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144
Plexus 1% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size												
Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)					
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Medium Cassette	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Plexus 1% (Soapstone; Sublime Gray; Tranquility)	84	63	78	90	78	90	78	90	78	90	78	90
Plexus 3% (Black Granite; Chalcedony; Nutmeg Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	84	61	78	91	78	91	78	89	78	91	78	91
Plexus 3% (Soapstone; Sublime Gray; Tranquility)	85	63	79	90	79	90	79	90	79	90	79	90
Plexus 5% (Black Granite; Chalcedony; Nutmeg Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	84	67	79	90	79	90	79	90	79	90	79	90
Plexus 5% (Soapstone; Sublime Gray; Tranquility)	85	66	80	91	80	91	80	91	80	91	80	91
Porter	82	52	75	91	75	91	77	77	75	91	Not available	
Providence BO	71	57	65	94	65	94	65	94	65	94	Not available	
Providence LF	74	90	74	90	74	90	74	90	74	90	Not available	
Quintessence	79	78	77	93	77	93	77	93	77	93	Not available	
Reaction	85	92	82	111	82	111	82	111	82	111	Not available	
Regent	97	107	97	107	97	107	97	107	97	107	Not available	
Renaissance	92	140	92	140	92	140	92	140	92	140	Not available	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size																				
Valance Type	Normal Fabric Orientation								Fabric Turned Width for Height (railroaded)											
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width		3" Fascia		4" Fascia	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Fabric																				
Riverbend	72	78	72	119	72	144	72	106	72	144										
Sabine	84	92	82	103	82	103	82	103	82	103										
SafeSync	77	66	74	82	74	82	74	82	74	82										
Sakura	67	58	74	85	73	90	77	69	73	90										
Salutation	96	98	96	98	96	98	96	98	96	98										
Sanguine	73	63	78	96	78	106	78	74	78	106										
Santorini	76	124	76	144	76	144	76	144	76	144										
Shadow	84	97	82	109	82	109	82	109	82	109										
Sheffield	96	94	96	94	96	94	96	94	96	94										
Shiloh	96	99	96	99	96	99	96	99	96	99										
Solana BO	77	71	74	92	74	92	74	92	74	92										
Standard Weave 1% (Calcite; Polished)	84	88	82	99	82	99	82	99	82	99										
Standard Weave 1% (Daikon; Infallible; Once)	82	98	82	102	82	102	82	102	82	102										
Standard Weave 1% (Veranda; Café Doppio; Chiseled)	82	94	82	94	82	94	82	94	82	94										
Standard Weave 10% (Chiseled; Daikon; Café Doppio; Infallible; Once; Veranda)	86	90	82	114	82	114	82	114	82	114										
Standard Weave 10% (Polished; Calcite)	87	92	82	124	82	124	82	124	82	124										

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size																				
Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)													
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Standard Weave 3% (Daikon; Infallible; Once)	83	93	82	100	82	100	82	100	82	100	82	100	82	100	82	100	82	100	82	100
Standard Weave 3% (Polished; Calcite)	84	95	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107
Standard Weave 3% (Veranda; Café Doppio; Chiseled)	82	96	82	98	82	98	82	98	82	98	82	98	82	98	82	98	82	98	82	98
Standard Weave 5% (Calcite; Polished)	85	95	82	114	82	114	82	114	82	114	82	114	82	114	82	114	82	114	82	114
Standard Weave 5% (Infallible; Once; Daikon)	85	92	82	110	82	110	82	110	82	110	82	110	82	110	82	110	82	110	82	110
Standard Weave 5% (Veranda; Café Doppio; Chiseled)	82	101	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107	82	107
Suburban II	72	144	72	144	72	144	72	144	72	144	72	144	100	62	100	62	100	62	100	62
Synthesis	74	67	82	96	82	96	82	96	85	79	82	96	Not available							
Tableaux	74	55	81	82	79	92	84	65	79	92	Not available									
Thesis	70	93	70	142	70	144	70	126	70	144	Not available									
Tuvalu	96	104	96	104	96	104	96	104	96	104	96	104	Not available							
Unison	95	78	95	78	95	78	95	78	95	78	95	78	Not available							
Vancouver	95	91	95	91	95	91	95	91	95	91	95	91	Not available							
Vanguard 1% (Authentic; Chrome; Pendulum; Gentle Beige)	84	88	82	99	82	99	82	99	82	99	82	99	84	88	82	99	82	99	82	99

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Vanguard 1% (Cortina; Obsidian)	82	98	82	102	82	102	82	102	82	102	82	98	82	102	82	102	82	102	82	102
Vanguard 1% (Elusive; Macedonia; Dew; Homage; Peloton)	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94	82	94
Vanguard 3% (Authentic; Gentle Beige; Chrome; Pendulum)	84	95	82	107	82	107	82	107	82	107	84	95	82	107	82	107	82	107	82	107
Vanguard 3% (Elusive; Macedonia; Dew; Homage; Peloton)	82	96	82	98	82	98	82	98	82	98	82	96	82	98	82	98	82	98	82	98
Vanguard 3% (Obsidian; Cortina)	83	93	82	100	82	100	82	100	82	100	83	93	82	100	82	100	82	100	82	100
Vanguard 5% (Cortina; Obsidian)	85	92	82	110	82	110	82	110	82	110	85	92	82	110	82	110	82	110	82	110
Vanguard 5% (Elusive; Macedonia; Dew; Homage; Peloton)	82	101	82	107	82	107	82	107	82	107	82	101	82	107	82	107	82	107	82	107
Vanguard 5% (Gentle Beige; Pendulum; Authentic; Chrome)	85	95	82	114	82	114	82	114	82	114	85	95	82	114	82	114	82	114	82	114
Verve	96	80	95	89	95	89	95	89	95	89	95	80	95	89	95	89	95	89	95	89
Vivaldi	79	96	79	144	79	144	79	138	79	144	79	96	79	144	79	144	79	144	79	144
Not available										Not available										
Not available										Not available										

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

R28 RTS & Son28 Zigbee
Non-rechargeable Motor
Minimum Width: 16"
Minimum Height: 13"

RU28 RTS & Son28 Zigbee
Rechargeable Motor
Minimum Width: 25½"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 12V Motor Maximum Shade Size																						
Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)														
		Small Cassette		Medium Cassette		Large Cassette/Contour Valance/No Cassette/No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/Contour Valance/No Cassette/No Valance at Maximum Width		3" Fascia		4" Fascia		
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Wayfarer	92	144	92	144	92	144	92	144	92	144	92	144	92	144	Not available							
Whitcomb	95	87	95	87	95	87	95	87	95	87	95	87	95	87	Not available							
Whitehall	88	102	82	144	82	144	82	144	82	144	82	144	82	144	91	82	91	82	91	82	91	82
Whittaker BO	89	71	82	115	82	115	82	115	85	96	82	115	82	115	Not available							
Zen	82	84	92	118	92	118	92	100	92	100	92	118	92	118	Not available							

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.
See dual shade section for motorization information.

24V RTS ST30

Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee

Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type		Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	
Arboretum BO	88	91	92	124	92	144	82	131	92	144	89	82	121	79	121	79	121	79	121	79	
Arboretum LF	92	119	92	144	92	144	92	125	92	144	97	81	129	79	129	79	129	79	129	79	
Bradley	87	69	96	89	96	144	82	96	96	144	Not available										
Bravado BO	90	76	109	97	109	141	87	92	109	141	Not available										
Bravado LF	96	92	109	119	109	144	109	81	109	144	Not available										
Broadcast	86	65	111	83	107	104	80	94	107	104	Not available										
Buxton	84	73	96	94	96	144	81	90	96	144	Not available										
Cambridge LF (Academy; Hawaiian Blue; Mirage; Vernal Pond)	96	104	119	144	119	144	119	132	119	144	Not available										
Cambridge LF (Ivory)	76	144	76	144	76	144	76	132	76	144	101	66	101	66	134	63	101	66	101	66	
Cambridge LF (White; Off White; Inkwell; Clay; Misty)	92	140	92	144	92	144	92	132	92	144	98	82	131	79	131	79	131	79	131	79	
Cambridge RD (Academy; Hawaiian Blue; Mirage; Vernal Pond)	88	96	115	118	115	118	117	100	115	118	88	96	117	105	117	105	118	100	117	105	
Cambridge RD (Ivory)	76	114	76	144	76	144	76	144	76	144	93	66	126	63	126	63	126	63	126	63	
Cambridge RD (White; Off White; Inkwell; Clay; Misty)	88	96	92	144	92	144	92	100	92	144	90	82	122	79	122	79	122	79	122	79	
Carpi	70	88	70	144	70	144	70	127	70	144	Not available										
Chakra	92	144	92	144	92	144	92	144	92	144	Not available										
Chronicles	85	93	96	118	96	144	96	81	96	144	Not available										
Complex	87	70	96	90	96	144	82	95	96	144	Not available										
Conservancy- LF	74	91	97	113	97	113	100	80	97	113	Not available										
Conservancy- BO	70	65	89	90	82	144	95	61	82	144	Not available										

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30
Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee
Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size																				
Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Consummate Silk	79	96	79	122	79	144	79	138	79	144	75	81	98	100	98	100	104	71	98	100
Debonair	95	87	106	135	106	144	106	93	106	144	77	84	100	106	100	106	106	75	100	106
Delphine BO	88	82	109	105	109	139	109	72	109	139	Not available									
Delphine LF	96	102	108	144	108	144	108	104	108	144	Not available									
Destin BO	87	82	113	104	111	115	113	72	111	115	Not available									
Diplomat	96	90	102	144	102	144	102	125	102	144	Not available									
Dorian	92	118	92	144	92	144	92	144	92	144	Not available									
Earth Synergy	88	91	114	116	114	116	116	93	114	116	Not available									
EcoEncore	97	101	100	144	100	144	100	144	100	144	Not available									
Ellington 1%	75	81	98	100	98	100	104	71	98	100	75	81	98	100	98	100	104	71	98	100
Ellington 3%	77	84	100	106	100	106	106	75	100	106	77	84	100	106	100	106	106	75	100	106
Ellington 5%	71	64	90	94	90	94	93	76	90	94	Not available									
Emerson	90	68	117	88	112	115	86	92	112	115	Not available									
Empirical	96	98	96	144	96	144	96	144	96	144	Not available									
Emporium (Bookplate White)	94	82	96	144	96	144	96	106	96	144	Not available									
Emporium (Sepia Snapshot)	89	94	96	125	96	144	96	86	96	144	Not available									
Emporium (Silver Dollar; Vintage Letterpress; Sheet Music; Stepping Stone)	90	97	96	125	96	144	96	86	96	144	Not available									
Enviro-INFUSION	96	105	115	144	115	144	115	127	115	144	Not available									
Essential	70	144	70	144	70	144	70	144	70	144	82	110	111	114	111	114	111	114	111	114
Exposition	92	54	82	104	96	144	86	80	96	144	Not available									
Florian	92	135	92	144	92	144	92	120	92	144	Not available									
Freesia	102	118	112	144	112	144	112	104	112	144	Not available									
Gallery	92	140	92	144	92	144	92	139	92	144	Not available									

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30

Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee

Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)																							
	Small Cassette			Medium Cassette			Large Cassette/ Contour Valance/ No Cassette/ No Valance				3" Fascia			4" Fascia			Small Cassette			Medium Cassette			Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width				3" Fascia			4" Fascia				
	Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		
Fabric																																		
Gleam	79	90	92	136	92	144	92	144	92	94	92	94	92	144	92																			
Grasses	72	68	72	128	72	144	72	144	72	99	72	99	72	144	72																			
Gulldhall	84	80	96	102	96	144	82	144	82	92	82	92	96	144	96																			
Halifax	92	103	96	144	96	144	96	144	96	144	96	144	96	144	96																			
Harmonics	92	94	115	143	115	144	115	144	115	98	115	98	115	144	115																			
Harmony	92	124	92	144	92	144	92	144	92	117	92	117	92	144	92																			
Jacinta	97	99	112	144	112	144	112	144	112	125	112	125	112	144	112																			
Kindred	97	101	112	144	112	144	112	144	112	110	112	110	112	144	112																			
Levity	100	88	112	112	112	144	97	144	97	118	112	118	112	144	112																			
Linnea	96	144	96	144	96	144	96	144	96	144	96	144	96	144	96																			
LiveWell	85	76	95	98	95	144	82	144	82	94	82	94	95	144	95																			
Manifest BO	82	140	92	144	92	144	92	144	92	124	92	124	92	144	92																			
Manifest LF	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92																			
Marina	96	86	108	110	108	144	95	144	95	96	108	96	108	144	108																			
Mayfair	99	117	107	144	107	144	107	144	107	136	107	136	107	144	107																			
Merit	75	93	96	118	96	128	96	128	96	81	96	81	96	128	96																			
Momentum	87	78	94	99	94	144	82	144	82	107	82	107	94	144	94																			
Monaco	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76																			
Monticello	90	57	82	96	96	144	84	144	84	84	84	84	96	144	96																			
Nantucket	93	51	85	92	96	144	88	144	88	76	88	76	96	144	96																			
Nebula	79	59	96	75	96	107	74	144	74	84	74	84	96	107	96																			
Northshore	95	78	115	117	115	144	115	144	115	80	115	80	115	144	115																			
Olbrecht	77	80	96	102	96	128	96	128	96	69	96	69	96	128	96																			
Paragon	76	89	100	105	100	105	105	105	105	79	105	79	100	105	100																			
PlanetSafe	92	124	92	144	92	144	92	144	92	144	92	144	92	144	92																			

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30

Minimum Width: 20"

Minimum Height: 13"

Features and Size Considerations**12V Son30 RTS & 12V Son30 Zigbee**

Rechargeable

Minimum Width: 28"

Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type		Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	
Plexus 1% (Black Granite; Chalcedony; Nutmeg Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	97	97	103	144	103	144	103	144	103	144	84	61	109	78	103	103	78	87	103	103	
Plexus 1% (Soapstone; Sublime Gray ; Tranquility)	84	63	109	81	106	93	78	90	106	93	84	63	109	81	106	93	78	90	106	93	
Plexus 3% (Renewal; Provisions; Chalcedony; Stately; Landmark; Travertine; Penumbra; Nutmeg Pier; Black Granite; Niche)	84	61	110	78	106	94	78	89	106	94	84	61	110	78	106	94	78	89	106	94	
Plexus 3% (Soapstone; Tranquility; Sublime Gray)	85	63	110	81	107	94	79	90	107	94	85	63	110	81	107	94	79	90	107	94	
Plexus 5% (Black Granite; Chalcedony; Nutmeg Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	84	67	109	85	107	94	79	90	107	94	84	67	109	85	107	94	79	90	107	94	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30

Minimum Width: 20"

Minimum Height: 13"

12V Son30 RTS & 12V Son30 Zigbee

Rechargeable

Minimum Width: 28"

Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type		Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	
Plexus 5% (Soapstone; Sublime Gray ; Tranquility)	85	66	110	84	107	101	80	91	107	101	85	66	110	84	107	101	80	91	107	101	
Porter	82	52	96	66	96	124	77	77	96	124	Not available										
Providence-BO	71	57	89	87	82	138	95	58	82	138	Not available										
Providence-LF	74	90	97	105	97	105	99	81	97	105	Not available										
Quintessence	79	78	102	100	100	117	109	68	100	117	Not available										
Reaction	85	92	96	123	96	144	96	84	96	144	Not available										
Regent	97	107	115	144	115	144	115	104	115	144	Not available										
Renaissance	92	140	92	144	92	144	92	139	92	144	Not available										
Riverbend	72	63	72	119	72	144	72	93	72	144	Not available										
Sabine	84	92	96	117	96	144	96	80	96	144	Not available										
SafeSync	77	66	96	84	96	106	74	82	96	106	Not available										
Sakura	82	46	74	85	97	103	77	69	97	103	Not available										
Salutation	96	98	96	129	96	144	96	98	96	144	Not available										
Sanguine	78	50	78	96	78	144	78	74	78	142	Not available										
Santorini	76	124	76	144	76	144	76	144	76	144	Not available										
Shadow	84	97	111	113	111	113	116	85	111	113	Not available										
Sheffield	96	94	108	133	108	144	108	91	108	144	Not available										
Shiloh	96	99	115	144	115	144	115	111	115	144	Not available										
Solana BO	77	71	100	90	99	100	74	92	99	100	Not available										
Standard Weave 1% (Calcite; Polished)	84	88	111	102	111	102	116	78	111	102	84	88	111	102	111	102	116	78	111	102	
Standard Weave 1% (Daikon; Infalible; Once)	82	98	109	116	109	116	115	86	109	116	82	98	109	116	109	116	115	86	109	116	
Standard Weave 1% (Veranda; Café Doppio; Chiseled)	82	94	110	102	110	102	114	83	110	102	82	94	110	102	110	102	114	83	110	102	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30
Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee
Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)											
	Small Cassette			Medium Cassette			3" Fascia			4" Fascia			Small Cassette			Medium Cassette		
	Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)	
Fabric	Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)	
Standard Weave 10% (Chiseled; Daikon; Café Doppio; Infallible; Once; Veranda)	86	90		111	118		116	118		111	118		86	90		111	118	
Standard Weave 10% (Polished; Calcite)	87	92		113	116		116	116		113	116		87	92		113	116	
Standard Weave 3% (Daikon; Infallible; Once)	83	93		111	103		115	103		111	103		83	93		111	103	
Standard Weave 3% (Polished; Calcite)	84	95		110	115		116	115		110	115		84	95		110	115	
Standard Weave 3% (Veranda; Café Doppio; Chiseled)	82	96		110	106		114	106		110	106		82	96		110	106	
Standard Weave 5% (Calcite; Polished)	85	95		111	117		117	117		111	117		85	95		111	117	
Standard Weave 5% (Infallible; Once; Daikon)	85	92		111	114		116	114		111	114		85	92		111	114	
Standard Weave 5% (Veranda; Café Doppio; Chiseled)	82	101		110	115		115	115		110	115		82	101		110	115	
Suburban II	72	144		72	144		72	144		72	144		100	62		100	62	
Synthesis	91	54		82	96		85	79		96	144		144	144		100	62	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30

Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee

Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type		Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	
Tableaux	91	43	81	82	96	144	84	65	96	125	Not available										
Thesis	70	76	70	142	70	144	70	111	70	144	Not available										
Tuvalu	96	104	106	144	106	144	106	111	106	144	Not available										
Unison	95	78	115	144	115	144	115	118	115	144	Not available										
Vancouver	95	91	114	144	114	144	114	111	114	144	Not available										
Vanguard 1% (Authentic; Chrome; Pendulum; Gentle Beige)	84	88	111	102	111	102	116	78	111	102	84	88	111	102	111	102	116	78	111	102	
Vanguard 1% (Cortina; Obsidian)	82	98	109	116	109	116	115	86	109	116	82	98	109	116	109	116	115	86	109	116	
Vanguard 1% (Elusive; Macedonia; Dew; Homage; Peloton)	82	94	110	102	110	102	114	83	110	102	82	94	110	102	110	102	114	83	110	102	
Vanguard 3% (Authentic; Gentle Beige; Chrome; Pendulum)	84	95	110	115	110	115	116	84	110	115	84	95	110	115	110	115	116	84	110	115	
Vanguard 3% (Elusive; Macedonia; Dew; Homage; Peloton)	82	96	110	106	110	106	114	84	110	106	82	96	110	106	110	106	114	84	110	106	
Vanguard 3% (Obsidian; Cortina)	83	93	111	103	111	103	115	81	111	103	83	93	111	103	111	103	115	81	111	103	
Vanguard 5% (Cortina; Obsidian)	85	92	111	114	111	114	116	88	111	114	85	92	111	114	111	114	116	88	111	114	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

24V RTS ST30
Minimum Width: 20"
Minimum Height: 13"

Features and Size Considerations

12V Son30 RTS & 12V Son30 Zigbee
Rechargeable
Minimum Width: 28"
Minimum Height: 13"

Roller and Solar Shades: Sonesse 30 Motor: Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)											
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		3" Fascia		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Maximum Width		3" Fascia		4" Fascia	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Vanguard 5% (Elusive; Macedonia; Dew; Homage; Peloton)	82	101	110	115	110	115	115	88	110	115	82	101	110	115	110	115	110	115	115	88	110	115
	85	95	111	117	111	117		84	111	117	85	95	111	117		117	111	117	84	111	117	
Vanguard 5% (Gentle Beige; Pendulum; Authentic; Chrome)	96	80	116	102	116	144	95	89	116	144	Not available											
Verve	79	96	79	122	79	144	79	138	79	144	Not available											
Vivaldi	92	144	92	144	92	144	92	144	92	144	Not available											
Wayfarer	95	87	108	144	108	144	108	105	108	144	Not available											
Whitcomb	88	102	92	136	92	144	92	94	92	144	91	82	123	79	123	79	123	79	123	79	123	79
Whitehall	89	71	113	90	111	119	85	96	111	119	Not available											
Whittaker BO	92	68	92	118	92	144	92	100	92	144	Not available											
Zen																						

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

Features and Size Considerations

120-Volt RTS
Minimum Width: 24.5"
Minimum Height: 13"

120-Volt Standard
Minimum Width: 23"
Minimum Height: 13"

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

Valance Type		Normal Fabric Orientation									Fabric Turned Width for Height (railroaded)									
		Contour Valance/ No Valance			3" Fascia			4" Fascia			Contour Valance/ No Valance			3" Fascia			4" Fascia			
Fabric		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		Width (inches)	Height (inches)		
Arboretum BO		92	144		92	85		92	144		121	79		144	76		121	79		
Arboretum LF		92	144		92	125		92	144		129	79		144	76		129	79		
Bradley		96	144		96	60		96	128		Not available									
Bravado BO		109	144		109	66		109	140		Not available									
Bravado LF		109	144		109	81		109	144		Not available									
Broadcast		116	144		116	56		116	120		Not available									
Buxton		96	144		96	64		96	136		Not available									
Cambridge LF (Academy; Hawaiian Blue; Mirage; Pond; Vernal)		119	144		119	132		119	144		Not available									
Cambridge LF (Ivory)		76	144		76	132		76	144		141	114		141	119		141	114		
Cambridge LF (White; Off White; Inkwell; Clay; Misty)		92	144		92	132		92	144		Not available									
Cambridge RD (Academy; Hawaiian Blue; Mirage; Pond; Vernal)		117	144		117	100		117	144		144	101		144	103		144	107		
Cambridge RD (Ivory)		76	144		76	100		76	144		134	63		144	60		134	63		
Cambridge RD (White; Off White; Inkwell ; Clay ; Misty)		92	144		92	100		92	144		131	79		144	76		131	79		
Carpi		70	144		70	77		70	144		144	101		144	101		144	101		
Chakra		92	144		92	144		92	144		126	63		144	60		126	63		
Chronicles		96	144		96	81		96	144		122	79		144	76		122	79		
Complex		96	144		96	61		96	130		Not available									
Conservancy LF		115	144		100	80		115	144		Not available									
Conservancy BO		114	115		95	61		114	115		Not available									
Consummate Silk		79	144		79	84		79	144		Not available									
Debonair		106	144		106	93		106	144		Not available									
Delphine BO		109	144		109	72		109	144		Not available									
Delphine LF		108	144		108	104		108	144		Not available									
Destin BO		113	144		113	72		113	144		Not available									
Diplomat		102	144		102	125		102	144		Not available									
Dorian		92	144		92	104		92	144		Not available									

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

120-Volt RTS

Minimum Width: 24.5"
Minimum Height: 13"

120-Volt Standard

Minimum Width: 23"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)							
		Contour Valance/ No Valance		3" Fascia		4" Fascia		Contour Valance/ No Valance		Contour Valance/ No Valance at Maximum Width		3" Fascia		4" Fascia	
Fabric		Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Earth Synergy		116	144	116	93	116	144								
EcoEncore		100	144	100	144	100	144								
Ellington 1%		124	136	104	71	124	136	127	118	127	118	104	71	127	118
Ellington 3%		124	144	106	75	124	144	131	115	131	115	106	75	131	115
Ellington 5%		115	117	93	76	115	117								
Emerson		117	144	117	59	117	126								
Empirical		96	144	96	144	96	144								
Emporium (Bookplate White)		96	144	96	106	96	144								
Emporium (Sepia Snapshot)		96	144	96	86	96	144								
Emporium (Silver Dollar, Vintage Letterpress; Sheet Music; Stepping Stone)		96	144	96	86	96	144								
Enviro-INFUSION		115	144	115	127	115	144								
Essential		70	144	70	144	70	144	144	134	144	134	111	114	144	134
Exposition		96	144	96	46	96	144								
Florian		92	144	92	120	92	144								
Freesia		112	144	112	104	112	144								
Gallery		92	144	92	139	92	144								
Gleam		92	144	92	94	92	144								
Grasses		72	144	72	58	72	125								
Guildhall		96	144	96	69	96	144								
Halifax		96	144	96	144	96	144								
Harmonics		115	144	115	98	115	144								
Harmony		92	144	92	117	92	144								
Jacinta		112	144	112	125	112	144								
Kindred		112	144	112	110	112	144								
Levity		112	144	112	77	112	144								
Linnea		96	144	96	144	96	144								

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

120-Volt RTS

Minimum Width: 24.5"
Minimum Height: 13"

120-Volt Standard

Minimum Width: 23"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)									
		Contour Valance/ No Valance		3" Fascia		4" Fascia		Contour Valance/ No Valance		Contour Valance/ No Valance at Maximum Width		3" Fascia		4" Fascia			
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	
LiveWell	95	144	95	66	95	141	95	141	144	144	79	144	79	118	66	144	79
Manifest BO	92	144	92	124	92	144	92	144	Not available								
Manifest LF	92	144	92	144	92	144	92	144	Not available								
Marina	108	144	108	75	108	144	108	144	Not available								
Mayfair	107	144	107	136	107	144	107	144	Not available								
Merit	96	144	96	81	96	144	96	144	Not available								
Momentum	94	144	94	67	94	143	94	143	Not available								
Monaco	76	144	76	144	76	144	76	144	60	144	60	134	63	134	48	144	63
Monticello	96	144	96	48	96	144	96	144	80	144	80	124	48	144		144	80
Nantucket	96	138	96	43	96	144	96	144	Not available								
Nebula	96	144	96	50	96	109	96	109	Not available								
Northshore	115	144	115	80	115	144	115	144	Not available								
Olbrecht	96	144	96	69	96	144	96	144	Not available								
Paragon	116	144	105	79	105	144	116	144	Not available								
PlanetSafe	92	144	92	110	92	144	92	144	Not available								
Plexus 1% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	103	144	103	144	103	144	103	144	136	115	136	115	117	52	136	112	
Plexus 1% (Soapstone; Sublime Gray; Tranquility)	116	144	116	52	116	112	116	112	137	114	137	114	117	54	137	114	
Plexus 3% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	116	144	116	54	116	117	116	117	137	116	137	116	118	52	137	112	
Plexus 3% (Soapstone; Sublime Gray; Tranquility)	116	144	116	52	116	112	116	112	138	117	138	117	118	54	138	117	
Plexus 5% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	116	144	116	54	116	117	116	117	138	116	138	116	117	57	138	116	
Plexus 5% (Soapstone; Sublime Gray; Tranquility)	116	144	116	57	116	123	116	123	140	115	140	115	118	56	140	115	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

120-Volt RTS

Minimum Width: 24.5"
Minimum Height: 13"

120-Volt Standard

Minimum Width: 23"
Minimum Height: 13"

Features and Size Considerations

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)							
		Contour Valance/ No Valance		3" Fascia		4" Fascia		Contour Valance/ No Valance		Contour Valance/ No Valance at Maximum Width		3" Fascia		4" Fascia	
Fabric		Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Porter		96	139	96	44	96	124	96	124	Not available					
Providence BO		113	117	95	58	113	117	Not available							
Providence LF		115	144	99	81	115	144	Not available							
Quintessence		116	144	109	68	116	144	Not available							
Reaction		96	144	96	84	96	144	Not available							
Regent		115	144	115	104	115	144	Not available							
Renaissance		92	144	92	139	92	144	Not available							
Riverbend		72	144	72	54	72	117	Not available							
Sabine		96	144	96	80	96	144	Not available							
SafeSync		96	144	96	56	96	121	Not available							
Sakura		97	124	97	38	97	103	Not available							
Salutation		96	144	96	88	96	144	Not available							
Sanguine		78	135	78	42	78	142	Not available							
Santorini		76	144	76	110	76	144	Not available							
Shadow		119	144	116	85	119	144	Not available							
Sheffield		108	144	108	91	108	144	Not available							
Shiloh		115	144	115	111	115	144	Not available							
Solana BO		114	144	107	61	114	130	Not available							
Standard Weave 1% (Calcite; Polished)		124	144	116	78	124	144	144	119	144	116	78	144	119	
Standard Weave 1% (Daikon; Infalible; Once)		116	144	115	86	116	144	144	123	144	115	86	144	123	
Standard Weave 1% (Veranda; Café Doppio; Chiseled)		124	144	114	83	124	144	144	114	144	114	83	144	114	
Standard Weave 10% (Chiseled; Daikon; Café Doppio; Infalible; Once; Veranda)		116	144	116	89	116	144	144	138	144	116	89	144	138	
Standard Weave 10% (Polished; Calcite)		116	144	116	93	116	144	144	144	144	117	93	144	144	
Standard Weave 3% (Daikon; Infalible; Once)		124	144	115	81	124	144	144	121	144	115	81	144	121	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

Features and Size Considerations

120-Volt RTS
Minimum Width: 24.5"
Minimum Height: 13"

120-Volt Standard
Minimum Width: 23"
Minimum Height: 13"

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)						
		Contour Valance/ No Valance		3" Fascia		4" Fascia		Contour Valance/ No Valance		3" Fascia		4" Fascia		
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Standard Weave 3% (Polished; Calcite)	124	144	116	84	124	144	144	129	144	116	84	144	129	
Standard Weave 3% (Veranda; Café Doppio; Chiseled)	124	144	114	84	124	144	144	119	144	114	84	144	119	
Standard Weave 5% (Calcite; Polished)	124	144	117	84	124	144	144	138	144	117	84	144	138	
Standard Weave 5% (Infallible; Once; Daikon)	124	144	116	88	124	144	144	134	144	116	88	144	134	
Standard Weave 5% (Veranda; Café Doppio; Chiseled)	124	144	115	88	124	144	144	129	144	115	88	144	129	
Suburban II	72	144	72	131	72	144	133	59	144	133	59	133	59	
Synthesis	96	143	96	45	96	144	Not available							
Tableaux	96	118	96	36	96	125	Not available							
Thesis	70	144	70	66	70	140	Not available							
Tuvalu	106	144	106	111	106	144	Not available							
Unison	115	144	115	118	115	144	Not available							
Vancouver	114	144	114	111	114	144	Not available							
Vanguard 1% (Authentic; Chrome; Pendulum; Gentle Beige)	124	144	116	78	124	144	144	119	144	116	78	144	119	
Vanguard 1% (Cortina; Obsidian)	124	144	115	86	124	144	144	123	144	115	86	144	123	
Vanguard 1% (Elusive; Macedonia; Dew; Homage; Peloton)	124	144	114	83	124	144	144	114	144	114	83	144	114	
Vanguard 3% (Authentic; Gentle Beige; Chrome; Pendulum)	124	144	116	84	124	144	144	129	144	116	84	144	129	
Vanguard 3% (Elusive; Macedonia; Dew; Homage; Peloton)	124	144	114	84	124	144	144	119	144	114	84	144	119	
Vanguard 3% (Obsidian; Cortina)	124	144	115	81	124	144	144	121	144	115	81	144	121	
Vanguard 5% (Cortina; Obsidian)	124	144	116	88	124	144	144	134	144	116	88	144	134	
Vanguard 5% (Elusive; Macedonia; Dew; Homage; Peloton)	124	144	115	88	124	144	144	129	144	115	88	144	129	
Vanguard 5% (Gentle Beige; Pendulum; Authentic; Chrome)	124	144	117	84	124	144	144	138	144	117	84	144	138	

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations.

Features and Size Considerations

120-Volt RTS
 Minimum Width: 24.5"
 Minimum Height: 13"

120-Volt Standard
 Minimum Width: 23"
 Minimum Height: 13"

Roller and Solar Shades: 120-Volt Motor Maximum Shade Size (120V RTS ST40 Motor or 120V STD ST40 Motor)

		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)									
		Contour Valance/ No Valance		3" Fascia		4" Fascia		Contour Valance/ No Valance		Contour Valance/ No Valance at Maximum Width		3" Fascia		4" Fascia			
Valance Type		Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Fabric																	
	Verve	116	144	116	69	116	144	116	144	Not available							
	Vivaldi	79	144	79	84	79	144	79	144	Not available							
	Wayfarer	92	144	92	144	92	144	92	144	Not available							
	Whitcomb	108	144	108	105	108	144	108	144	Not available							
	Whitehall	92	144	92	94	92	144	92	144	123	79	144	76	123	79	123	
	Whittaker BO	113	144	113	61	113	130	113	130	Not available							
	Zen	92	144	92	59	92	126	92	126	Not available							

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Features and Size Considerations

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Roller and Solar Shades: Dual Shades Maximum Shade Size

Valance Type		Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)																					
		12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance			12V RTS & Son28 Zigbee Large Cassette at Maximum Width			12V RTS & Son28 Zigbee No Cassette/ No Valance			12V RTS & Son28 Zigbee Large Cassette at Maximum Width			24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance			24V Son30 & 12V Son30 Zigbee Large Cassette				
		Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Arboretum BO		88	91	88	82	89	82	88	91	89	82	89	82	89	82	89	82	89	82	89	82	89	82	89	82	89	82	89	82
Arboretum LF		92	119	92	119	92	119	92	119	92	119	92	119	92	119	97	81	97	81	97	81	97	81	97	81	97	81	97	81
Bradley		88	66	88	74	88	74	88	66	90	58																		
Bravado BO		90	73	90	78	90	78	90	73	92	64																		
Bravado LF		96	89	98	78	98	78	96	89	98	78																		
Broadcast		87	62	72	69	87	69	87	62	88	55																		
Buxton		85	71	72	70	85	71	85	71	87	62																		
Cambridge LF (Academy; Hawaiian Blue; Mirage; Pond; Vernal)		96	104	96	104	96	104	96	104	96	104																		
Cambridge LF (Ivory)		76	143	76	127	76	127	76	143	76	127																		
Cambridge LF (White; Off White; Inkwell; Clay; Misty)		92	140	92	127	92	127	92	140	92	127																		
Cambridge RD (Academy; Hawaiian Blue; Mirage; Pond; Vernal)		88	96	88	96	88	96	88	96	88	96																		
Cambridge RD (Ivory)		76	109	76	97	76	97	76	109	76	97																		
Cambridge RD (White; Off White; Inkwell ; Clay ; Misty)		88	96	88	96	88	96	88	96	88	96																		
Capri		70	104	70	94	70	94	70	84	70	74																		
Chakra		92	144	92	144	92	144	92	144	92	144																		
Chronicles		85	89	87	79	85	79	85	89	87	79																		
Complex		87	68	72	76	87	76	87	68	89	59																		
Conservancy LF		75	87	76	77	75	77	75	87	76	77																		
Conservancy BO		70	65	71	59	70	59	70	65	71	59																		

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Roller and Solar Shades: Dual Shades Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width for Height (railroaded)									
	12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette at Maximum Width		12V RTS & Son28 Zigbee No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette at Maximum Width		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Consummate Silk	79	92	79	81	79	92	79	81	79	81	Not available									
Debonair	95	87	95	87	95	87	95	87	95	87	Not available									
Delphine BO	89	79	91	70	89	79	91	70	89	79	Not available									
Delphine LF	96	102	97	94	96	102	97	94	96	102	Not available									
Destin BO	87	80	89	71	87	80	89	71	87	80	Not available									
Diplomat	96	90	96	90	96	90	96	90	96	90	Not available									
Dorian	92	113	92	100	92	113	92	100	92	100	Not available									
Earth Synergy	88	91	88	90	88	91	88	90	88	90	Not available									
EcoEncore	97	101	97	101	97	101	97	101	97	101	Not available									
Ellington 1%	75	79	77	70	75	79	77	70	75	79	77	70	75	79	77	70	75	79	77	70
Ellington 3%	77	83	79	72	77	83	79	72	77	83	79	72	77	83	79	72	77	83	79	72
Ellington 5%	71	64	71	64	71	64	71	64	71	64	Not available									
Emerson	75	78	76	73	91	66	93	58	93	58	Not available									
Empirical	96	98	96	98	96	98	96	98	96	98	Not available									
Emporium (Bookplate White)	94	82	94	82	94	82	94	82	94	82	Not available									
Emporium (Sepia Snapshot)	89	94	91	82	89	94	91	82	89	94	Not available									
Emporium (Silver Dollar; Vintage Letterpress; Sheet Music; Stepping Stone)	91	90	92	83	91	90	92	83	92	83	Not available									
Enviro-INFUSION	96	105	96	105	96	105	96	105	96	105	Not available									
Essential	70	144	70	144	70	144	70	144	70	144	82	110	82	110	82	110	82	110	82	110
Exposition	76	65	77	59	92	52	94	45	94	45	Not available									
Florian	92	130	92	115	92	130	92	115	92	115	Not available									
Freesia	102	113	103	100	102	113	103	100	103	100	Not available									
Gallery	92	140	92	133	92	140	92	133	92	133	Not available									
Gleam	79	90	79	90	79	90	79	90	79	90	Not available									

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Roller and Solar Shades: Dual Shades Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)																					
	12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance			12V RTS & Son28 Zigbee Large Cassette at Maximum Width			12V RTS & Son28 Zigbee No Cassette/ No Valance			12V RTS & Son28 Zigbee Large Cassette at Maximum Width			24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance			24V Son30 & 12V Son30 Zigbee Large Cassette				
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Grasses	72	81	72	73	72	65	72	57	72	57																		
Guildhall	85	76	87	67	85	76	87	67	87	67																		
Halifax	92	103	92	103	92	103	103	92	92	103																		
Harmonics	92	94	92	94	92	94	94	92	92	94																		
Harmony	92	124	92	112	92	124	124	92	92	112																		
Jacinta	97	99	97	99	97	99	99	97	97	99																		
Kindred	97	101	97	101	97	101	101	97	97	101																		
Levity	100	84	102	74	100	84	84	102	102	74																		
Linnea	96	144	96	144	96	144	144	96	96	144																		
LiveWell	86	73	88	65	86	73	73	88	88	65																		
Manifest BO	89	96	89	96	89	96	96	89	89	96																		
Manifest LF	92	144	92	144	92	144	144	92	92	144																		
Marina	96	83	98	73	96	83	83	98	98	73																		
Mayfair	99	117	99	117	99	117	117	99	99	117																		
Merit	76	87	77	79	76	87	87	77	77	79																		
Momentum	76	144	76	144	76	144	144	76	76	144																		
Monaco	88	74	73	82	88	74	74	89	89	66																		
Monticello	74	68	75	62	91	54	54	92	92	48																		
Nantucket	77	62	78	56	94	49	49	96	96	43																		
Nebula	79	57	66	64	79	57	57	81	81	49																		
Northshore	95	78	95	77	95	78	78	95	95	77																		
Olbrecht	77	77	79	67	77	77	77	79	79	67																		
Paragon	76	88	77	78	76	88	88	77	77	78																		
PlanetSafe	92	120	92	106	92	120	120	92	92	106																		
Plexus 1% (Black Granite; Chalcodony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	97	97	97	97	97	97	97	97	97	97																		

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Roller and Solar Shades: Dual Shades Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)							
	12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		12V RTS & Son28 Zigbee No Cassette/ No Valance		12V RTS & Son28 Zigbee No Cassette at Maximum Width		12V RTS & Son28 Zigbee Large Cassette at Maximum Length		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Plexus 1% (Soapstone; Sublime Gray; Tranquility)	84	60	71	63	84	60	84	60	84	60	71	63	84	60
Plexus 3% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	85	58	71	64	85	58	85	58	85	58	71	64	85	58
Plexus 3% (Soapstone; Sublime Gray; Tranquility)	85	60	71	67	85	60	85	60	85	60	71	67	85	60
Plexus 5% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	84	64	71	67	84	64	84	64	84	64	71	67	84	64
Plexus 5% (Soapstone; Sublime Gray; Tranquility)	86	63	72	67	86	63	86	63	86	63	72	67	86	63
Porter	83	50	69	56	83	50	83	50	Not available					
Providence BO	71	57	71	57	71	57	71	57	Not available					
Providence LF	74	89	75	79	74	89	74	89	Not available					
Quintessence	79	75	81	66	79	75	81	66	Not available					
Reaction	85	92	87	81	85	92	87	81	Not available					
Regent	97	107	98	98	97	107	98	98	Not available					
Renaissance	92	140	92	133	92	140	92	133	Not available					

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Roller and Solar Shades: Dual Shades Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)																	
	12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance at Maximum Width			12V RTS & Son28 Zigbee Large Cassette at Maximum Length			12V RTS & Son28 Zigbee No Cassette/ No Valance at Large Cassette at Maximum Width			24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance			24V Son30 & 12V Son30 Zigbee Large Cassette			
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Fabric																								
Riverbend	72	75	72	68	72	60	72	53	72	86	78	53	Not available											
Sabine	84	88	86	78	84	88	86	78	86	80	55	78	Not available											
SafeSync	78	63	80	55	78	63	80	55	80	85	38	55	Not available											
Sakura	67	56	69	50	83	44	85	38	85	96	86	38	Not available											
Salutation	96	97	96	86	96	97	96	86	96	78	42	86	Not available											
Sanguine	74	61	75	54	78	48	78	42	78	87	81	42	Not available											
Santorini	76	120	76	132	76	120	76	106	76	87	81	106	Not available											
Shadow	85	91	87	81	85	91	87	81	87	96	88	81	Not available											
Sheffield	96	94	96	88	96	94	96	88	96	96	99	88	Not available											
Shiloh	96	99	96	99	96	99	96	99	96	96	99	99	Not available											
Solana BO	78	68	80	60	78	68	80	60	80	60	60	60	Not available											
Standard Weave 1% (Calcite; Polished)	84	86	86	76	84	86	86	76	86	86	76	76	86	76	86	86	76	86	86	76	86	76		
	84	90	85	83	84	90	85	83	85	90	83	83	85	83	85	84	90	85	83	85	83			
Standard Weave 1% (Dalkon; Infallible; Once)																								
	82	91	85	79	82	91	85	79	85	91	79	79	85	79	85	82	91	85	79	85	79			
Standard Weave 10% (Chiseled; Dalkon; Café Doppio; Infallible; Once; Veranda)																								
	86	90	87	84	86	90	87	84	87	90	84	84	87	84	87	86	90	86	90	87	84			
Standard Weave 10% (Polished; Calcite)	87	92	87	90	87	92	87	90	87	92	90	90	87	90	87	87	92	87	92	87	90			
	84	89	86	78	84	89	86	78	86	89	78	78	86	78	86	84	89	86	89	86	78			

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Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)													
	12V RTS & Son28 Zigbee/ No Cassette/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance at Maximum Width		12V RTS & Son28 Zigbee Large Cassette at Maximum Length		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette					
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)				
Standard Weave 3% (Polished; Calcite)	84	92	86	82	84	92	86	82	84	92	86	82	84	92	86	82				
Standard Weave 3% (Veranda; Café Doppio; Chiseled)	83	92	85	82	83	92	85	82	83	92	85	82	83	92	85	82				
Standard Weave 5% (Calcite; Polished)	85	92	87	82	85	92	87	82	85	92	87	82	85	92	87	82				
Standard Weave 5% (Infatible; Once; Daikon)	85	92	86	86	85	92	86	86	85	92	86	86	85	92	86	86				
Standard Weave 5% (Veranda; Café Doppio; Chiseled)	84	95	86	84	84	95	86	84	84	95	86	84	84	95	86	84				
Suburban II	72	141	72	125	72	141	72	125	100	62	100	62	100	62	100	62				
Synthesis	74	65	76	58	92	51	93	45												
Tableaux	74	53	76	47	91	42	93	36	Not available											
Thesis	70	90	70	82	70	73	70	64	Not available											
Tuvalu	96	104	96	104	96	104	96	104	Not available											
Unison	95	78	95	78	95	78	95	78	Not available											
Vancouver	95	91	95	91	95	91	95	91	Not available											
Vanguard 1% (Authentic; Chrome; Pendulum; Gentle Beige)	84	86	86	76	84	86	86	76	84	86	86	76	84	86	86	76				
Vanguard 1% (Cortina; Obsidian)	84	90	85	83	84	90	85	83	84	90	85	83	84	90	85	83				

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Roller and Solar Shades: Dual Shades Maximum Shade Size

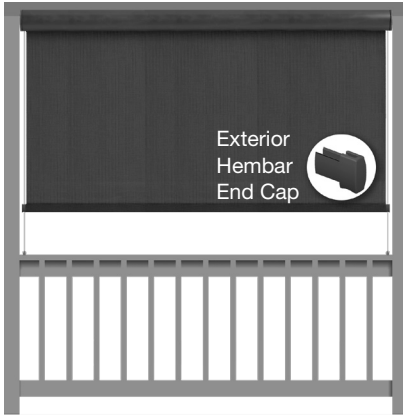
Valance Type	Normal Fabric Orientation						Fabric Turned Width for Height (railroaded)									
	12V RTS & Son28 Zigbee/ No Valance		12V RTS & Son28 Zigbee Large Cassette		24V Son30 & 12V Son30 Zigbee No Cassette/ No Valance		24V Son30 & 12V Son30 Zigbee Large Cassette		12V RTS & Son28 Zigbee No Cassette/ No Valance		12V RTS & Son28 Zigbee No Cassette/ No Valance at Maximum Width		12V RTS & Son28 Zigbee Large Cassette at Maximum Length		12V RTS & Son28 Zigbee No Cassette/ No Valance	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Vanguard 1% (Elusive; Macedonia; Dew; Homage; Peloton)	82	91	85	79	82	91	85	79	82	91	82	79	85	79	82	91
Vanguard 3% (Authentic; Gentle Beige; Chrome; Pendulum)	84	92	86	82	84	92	86	82	84	92	86	82	86	82	84	92
Vanguard 3% (Elusive; Macedonia; Dew; Homage; Peloton)	83	92	85	82	83	92	85	82	83	92	83	82	85	82	83	92
Vanguard 3% (Obsidian; Cortina)	84	89	86	78	84	89	86	78	84	89	84	78	86	78	84	89
Vanguard 5% (Cortina; Obsidian)	85	92	86	86	85	92	86	86	85	92	85	86	86	86	85	92
Vanguard 5% (Elusive; Macedonia; Dew; Homage; Peloton)	84	95	86	84	84	95	86	84	84	95	84	84	86	84	84	95
Vanguard 5% (Gentle Beige; Pendulum; Authentic; Chrome)	85	92	87	82	85	92	87	82	85	92	85	82	87	82	85	92
Verve	96	77	81	86	96	77	98	67	Not available							
Vivaldi	79	92	79	81	79	92	79	81	Not available							
Wayfarer	92	144	92	144	92	144	92	144	Not available							
Whitcomb	95	87	95	87	95	87	95	87	Not available							
Whitehall	88	102	89	90	88	102	89	90	77	84	91	82	77	84	91	82
Whittaker BO	74	83	75	76	90	68	92	60	Not available							
Zen	82	82	83	74	92	66	92	58	Not available							

NOTES: Due to continuous manufacturing improvements, minimums and maximums are subject to change. Please call customer service for up to date size considerations. Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended. Not available with RU28 rechargeable motor or RU30 Simple RTS motor.

Features and Size Considerations

Exterior Solar Shades Motorized Lift

Order Entry: 120V Motor 3-Wire RTS



Refer to individual product information guide for specific option information for the product being ordered.

Features

- Operate exterior shades virtually anywhere around the home, up to 65 foot RTS range
- Provides easy operation of outdoor living space shades
- Manages harsh sun glare and solar heat, assists with temperature control
- Blocks damaging UV rays while maintaining outdoor view
- Motor located on the left or right side, standard on right
- Powered with 10 foot power cable; optional outdoor-rated plug
- Available with large cassette only, choose Brown (873), Vanilla (970), White (871), or Black (939)
- Available as standard roll only
- Stainless steel guide cables and unique universal cable locks (sill, jam, or wall mounted) are included

Control and Power Options

- Multiple control and power options available; see options section for availability

Size Considerations				
Motor Type	Order Entry	Minimum Width (inches)	Minimum Height (inches)	Light Gap Per Side (inches)
Exterior 120-Volt RTS	120V Motor 3-Wire RTS (6)	32	13	1 to 1 ¹ / ₁₆

Exterior Solar Shades: Maximum Shade Size

	Normal Fabric Orientation		Fabric Turned Width for Height (railroaded)			
	120-Volt Motor Large Cassette		120-Volt Motor Large Cassette		120-Volt Motor Large Cassette at Maximum Width	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Broadcast	116	144	133	117	144	84
Chronicles	96	122	NO RR	NO RR	NO RR	NO RR
Exposition	96	144	NO RR	NO RR	NO RR	NO RR
Merit	96	122	NO RR	NO RR	NO RR	NO RR
Monticello	96	144	144	81	144	73
Plexus 1% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	116	144	128	118	144	78
Plexus 1% (Soapstone; Sublime Gray ; Tranquility)	116	144	129	117	144	81
Plexus 3% (Renewal; Provisions; Chalcedony; Stately; Landmark; Travertine; Penumbra; Nutley Pier; Black Granite; Niche)	116	144	130	114	144	78
Plexus 3% (Soapstone; Tranquility; Sublime Gray)	116	144	131	115	144	81
Plexus 5% (Black Granite; Chalcedony; Nutley Pier; Travertine; Landmark; Niche; Penumbra; Provisions; Renewal; Stately)	116	144	131	114	144	86

Due to continuous manufacturing improvements, minimums, and maximums are subject to change. Please call customer service for up to date size considerations.

NOTE: 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. Refer to exterior solar shades product information guide for pricing.

Features and Size Considerations

Exterior Solar Shades: Maximum Shade Size

	Normal Fabric Orientation		Fabric Turned Width for Height (railroaded)			
	120-Volt Motor Large Cassette		120-Volt Motor Large Cassette		120-Volt Motor Large Cassette at Maximum Width	
Fabric	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Plexus 5% (Soapstone; Sublime Gray ; Tranquility)	116	144	132	118	144	85
Reaction	96	127	NO RR	NO RR	NO RR	NO RR
Standard Weave 1% (Calcite; Polished)	124	118	144	118	144	118
Standard Weave 1% (Infallible; Once)	116	129	144	129	144	129
Standard Weave 1% (Veranda; Café Doppio; Chiseled)	124	124	144	124	144	124
Standard Weave 10% (Chiseled; Café Doppio; Infallible; Once; Veranda)	116	135	144	135	144	135
Standard Weave 10% (Calcite)	116	140	144	140	144	140
Standard Weave 3% (Infallible; Once)	124	122	144	122	144	122
Standard Weave 3% (Calcite)	124	127	144	127	144	127
Standard Weave 3% (Veranda; Café Doppio; Chiseled)	124	127	144	127	144	127
Standard Weave 5% (Polished)	124	127	144	127	144	127
Standard Weave 5% (Infallible; Once)	124	133	144	133	144	133
Standard Weave 5% (Veranda; Café Doppio; Chiseled)	124	133	144	133	144	133
Synthesis	96	144	NO RR	NO RR	NO RR	NO RR
Vanguard 1% (Authentic; Chrome; Pendulum)	124	118	144	118	144	118
Vanguard 1% (Cortina; Obsidian)	124	129	144	129	144	129
Vanguard 1% (Elusive; Dew; Homage; Peloton)	124	124	144	124	144	124
Vanguard 3% (Authentic; Chrome; Pendulum)	124	127	144	127	144	127
Vanguard 3% (Elusive; Dew; Homage; Peloton)	124	127	144	127	144	127
Vanguard 3% (Obsidian; Cortina)	124	122	144	122	144	122
Vanguard 5% (Cortina; Obsidian)	124	133	144	133	144	133
Vanguard 5% (Elusive; Dew; Homage; Peloton)	124	133	144	133	144	133
Vanguard 5% (Pendulum; Authentic; Chrome)	124	127	144	127	144	127

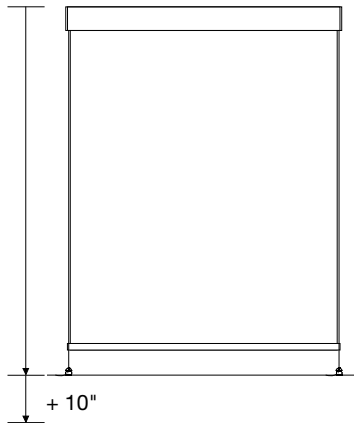
Due to continuous manufacturing improvements, minimums, and maximums are subject to change. Please call customer service for up to date size considerations.

NOTE: 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. Refer to exterior solar shades product information guide for pricing.

Options

Guide Cables (motorized exterior shades only)



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

- Add 10" to the shade height to determine guide cable length
 - Cable lengths available are: 54", 80", 144", and 186"
 - The next longest cable length will be supplied with your measurement
 - All cables are stainless steel and include cable locks
 - Cables can be cut to length at time of installation

EXAMPLE: Shade height is 95". Adding 10" = 105".
Shade will come with a guide cable at 144".

Options

12V Power Considerations

12V motors can be powered by batteries, solar power kit, plug-in transformer, or multi-motor power supply. Below are some considerations when planning for power.

Battery Tube Considerations

For best performance, orders of 10 or more are recommended to use plug-in transformers.

Battery tubes are installed outside of the product and can be challenging to hide in some applications.

- For outside mounts, battery tubes can be installed above or to the side of the shade
- For inside mounts, battery tubes are usually top-mounted (behind the headrail) between the shade and the window; to mount the battery tubes, additional recessed space will be needed

Dual battery tubes are recommended for best performance based on motor type, shade size and fabric type. See individual product page for recommendations.



Outside Mount



Inside Mount

Low Voltage 12V Power Components (non-rechargeable motors)



Battery Tubes for Somfy RTS Motors

- Reloadable and are available with or without batteries
- 8 AA lithium batteries
- Each tube includes 2 battery clips
- Optional 48" or 96" extensions available
- For best performance, use only AA lithium batteries (each tube requires 8 AA lithium batteries)

Battery Tube Dimensions: 18" x 1 1/8"

Dual Battery Tube Dimensions: 18" x 2 1/4" (installed side-by-side)

36" x 1 1/8" (installed end-to-end)

Single Battery Tube with Flush Mount: product flush mount + 1 1/8"

Single Battery Tube Minimum

Recessed Space: product minimum recessed space + 1 1/8"

Dual Battery Tube with Flush Mount: product flush mount + 2 1/4"

Dual Battery Tube Minimum

Recessed Space: product minimum recessed space + 2 1/4"

NOTE: For best performance, use only AA lithium batteries.

Options

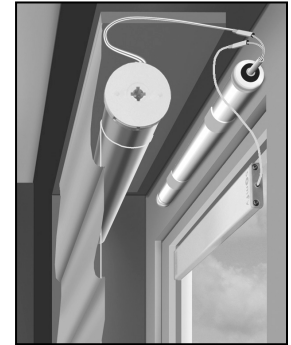
Low Voltage 12V Power Considerations

Solar Power Kit Considerations

The solar panel mounts indoors directly to the glass with included adhesive strips or using provided mounting brackets. Verify window is unobstructed to sunlight by vegetation, decorative grills, or bug screens. Window construction can be non-tinted, single or double pane, which have a minimum of 65% light transmission for proper solar charging.

Kit Includes: Solar panel, battery tube and 10 AA NiMH rechargeable batteries, Y harness, battery tube clips, solar panel mounting brackets, glass-mount adhesive strips, alcohol wipe, and instructions.

- For outside mounts, battery tube can be installed above or to the side of the shade and the solar panel can be installed directly against the window within reach of the wire harness (approximately 10" Y harness)
- For inside mounts, battery tube and solar panel can be top-mounted (behind the headrail) or to the side of the shade (vertical orientation) between the shade and the window; additional recessed space will be needed



Solar Power Kit

Battery Tube Dimensions: 21¼" x 1⅞"
Solar Panel Dimensions: 12" x 1½"
Battery Tube with Flush Mount: product flush mount + 1⅞"
Battery Tube Minimum Recessed Space: product minimum recessed space + 1⅞"

Solar Power Kit for Somfy 12V Motors (all RTS: CL32, R28, Tilt; all Zigbee motors Motor Types)

- Patented energy-saving technology uses sunlight to power the motorized window covering
- The battery tube houses 10 AA NiMH rechargeable batteries, tube length 21¼" x 1⅞" in diameter
- Not available with shades over 96" height
- Maintenance-free solution that doesn't require the use of an electrician
- Convenient and cost effective; reduces battery replacement and preserves the environment
- Easy to install for new and existing window covering installation
- Solar (photovoltaic) panel is low profile and easy to conceal (adhesive mounting strips or mounting brackets are included)
- Batteries can be recharged with any NiMH AA battery charger



Window Application Guidelines for Solar Power Kit

Window Type	 Single or Double Pane OK	 Light Transmission 65% or Greater	 Window Tinting	 Inside Window Only	Avoid	 Awnings or Deep Roof Eaves	 Window Dividers/Overlapping Solar Panel
Moving Window	 Fixed Window	 Double Hung	 Sliding	 Casement		 Vegetation Blocking Light	 Bug Screens
Concern	Clean Install	Caution: Avoid Panel Collision	Caution: Avoid Panel Collision	Caution: Panel Movement will Tug or Tear Harness			
Suggestions		Limit Screw in Track	Limit Screw in Track	Cable Tie Near Corner			

For complete guidelines, visit graberdirect.com and download installation and performance chart for solar power kit.

Options

Low Voltage 12V and 24V Power Considerations



Plug-In Transformer

- Eliminates the need for batteries
- Available in White only
- 12V: 72" power cord and 96" extension cable (power cord and extensions cannot be cut to length) One additional extension cable can be added.
- 24V: 60" power cord (power cord can be cut to length), wire lengths longer than 60" must be field supplied

Transformer Dimensions

- 12V: 3¼" wide x 2" deep (not including plug) x 1½" high (as you look at the plug in the outlet)
- 24V: 1¾" wide x 1⅝" deep (not including plug) x 2¾" high (as you look at the plug in the outlet)

NOTE: Due to the many variations of installations, wire management components are not included with your motorized shade system. There are numerous wire management products available at your local hardware store or home improvement center to help disguise the power cord when using a plug-in transformer. An example of a popular wire management accessory is wire channel. Wire channel is a vinyl sheathing that can be placed along the window casing or wall that will house and conceal exposed wiring for a clean and professional appearance.



Multi-Motor Power Supply

- Used when hard-wiring the transformer and direct wiring the motorized window coverings
- Each motor is "home run" wired back to the multi-motor power supply
- Power supply includes instructions and connection cables
- Must be mounted indoors, NEMA rated
- 120-volt AC 3.3 amp

Multi-Motor Power Supply Considerations

Transformer enclosure is generally mounted in an accessible indoor location such as a basement, utility closet, or garage. Motors are "home run" wired to the panel using 16-gauge wire.

- Dimensions: 12" wide x 6" deep x 12" high
- Additional wire may be purchased locally; up to 150 feet maximum

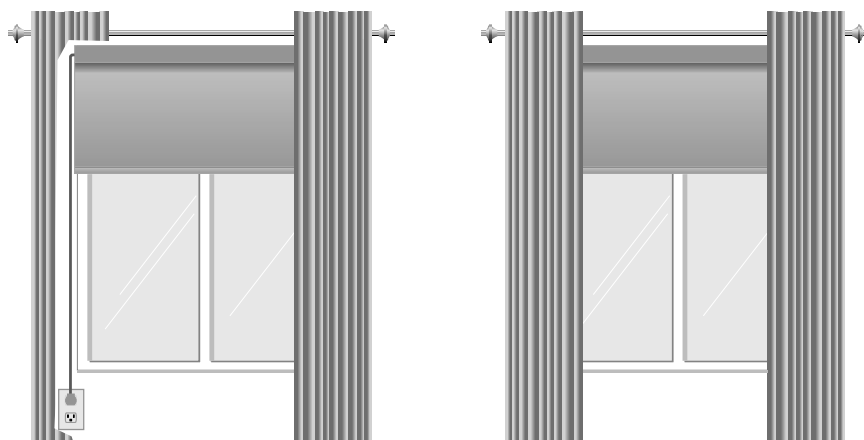
CAUTION: A licensed electrician is required for all line voltage electrical connections. All local and NEC codes must be followed.

12V: 10 motor power supply kit available

24V: 5 or 10 motor power supply kits available

DC Plug-In Transformer Considerations

- A power outlet must be within cord length to power motor
- Transformer power available for shade systems of any size or quantity



Options

Power Consideration for Rechargeable Motor

Shades will need charging on-site before installation. Charge time could take up to 6 hours.

	Plug-In Charger • Sold separately • Used with all rechargeable motors • 6 foot power cord white only • Recommend one charger per order and for orders with more than 3 shades, recommend an additional charger • Charge time up to 4.5 hours • LED indicator illuminates as follows: • Solid Red - charging • Solid Orange - charging almost complete • Solid Green - charging complete
	Extension Cable • Sold separately • 94" extension cable • One extension per charger • White only

Battery Autonomy (Years)																
Shade width (inches)																
	24	31	39	47	55	63	71	79	87	94	102	110	118	126	134	144
24	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2
31	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
39	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
47	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9
55	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8
63	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
71	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
79	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6
87	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
94	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
102	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
110	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
118	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
126	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	
134	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4		
144	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4		

Options

120-Volt Power Considerations

120-volt motors utilize the home or building's line voltage. Below are some considerations when planning for power.

CAUTION: A licensed electrician is required for all electrical connections. All local and NEC codes must be followed.

Radio Frequency 120-Volt 3-Wire Motors

Radio frequency-controlled motors are either hard-wired or plugged into line voltage. Any variety of RF controls can be used to achieve your desired control scenarios: remotes, wall switches, or timers. When installing a radio frequency-controlled line voltage motor, you have three options for electrical connection:

1. 3-prong plug: Plug into a prewired outlet. This is the simplest method; however, it requires the outlet be located within range of the motor cord. Do not use an extension cord.
2. Junction box lead: Use a junction box lead that can be hardwired to a nearby junction box. Requires the junction box to be located within range.
3. Custom plug plate: Plate to be installed nearby single gang junction box using the quick disconnect prewired to motor lead. Option best suited for commercial projects.

Interior Radio Frequency 120-Volt 3-Wire Power Options

- 3 foot power cord with 3-prong plug
- 10 foot power cord with 3-prong plug
- 3 foot motor lead with 8 foot junction box lead and quick disconnect
- 10 foot motor lead with quick disconnect and plug plate
- 3 foot motor lead with quick disconnect and plug plate

Exterior Radio Frequency 120-Volt 3-Wire Power Options

- 10 foot power cord
- 10 foot power cord with 3-prong plug (field attached)

Standard 120-Volt 4-Wire Motors

When installing a standard line voltage motor, both power and control are hard-wired to the motor. Control is provided via wall switches or dry contact outputs provided by certain home and building automation packages. Standard motor configuration options are:

Standard Motor Options

- 18 inches motor lead with 8 foot junction box lead and quick disconnect
- 18 inches motor lead with quick disconnect and plug plate
- 10 foot motor lead with quick disconnect and plug plate



Plug Plate



Junction (j-box) lead

RTS Control Options

Motorized Graber® Blinds and Shades feature Somfy® Radio Frequency Motors and Accessories. All Somfy Radio Frequency Motors utilize Somfy's Proprietary Protocol Radio Technology Somfy® (RTS).

Radio Frequency Controls (RTS range 65 feet)

	Situo Handheld Remotes • Compatible with all Somfy RTS motors • Used to control single blinds/shades on each channel or group blinds/shades performing the same function • Battery included • Remote includes convenient mounting hardware for hanging when not in use • Controls unlimited number of motors Situo 1, Single-Channel Remote Available colors: • Interior: White, Silver Situo 5, Five-Channel Remote Available colors: • Interior: White, Silver
	Telis 16, Sixteen-Channel Handheld Remote • Compatible with all Somfy RTS motors • Used to control a single blind/shade on each channel or group blinds/shades performing the same function • Convenient display provides easy identification of shade(s) being controlled • Battery included • Remote includes convenient mounting hardware for hanging when not in use • Controls unlimited number of motors Available colors: • Interior only: White
	Situo 5 Variation Handheld Remote • Compatible with all Somfy RTS motors • Used to control a single blind/shade on each channel or group blinds/shades performing the same function • Scroll interface allows for precise adjustment for blinds/shades, ideal for fine control horizontal blinds, layered, and sheer shades • Battery included • Controls unlimited number of motors Available colors: • Interior only: White
	DecoFlex Wireless Wall Switches • Compatible with all Somfy RTS motors • Used to control a single blind/shade on each channel or group blinds/shades performing the same function • Switches include button labels and mounting hardware to flush mount in drywall (wireless) • Battery included • Controls unlimited number of motors Single-Channel Wall Switch Available colors: • Interior: White Five-Channel Wall Switch Available colors: • Interior: White,

RTS Control Options

Motorized Graber® Blinds and Shades feature Somfy® Radio Frequency Motors and Accessories. All Somfy Radio Frequency Motors utilize Somfy's Proprietary Protocol Radio Technology Somfy® (RTS).

Specialty Radio Frequency Controls	
	Telis 1 Chronis RTS Timer • Compatible with all Somfy RTS motors • Used to control a single blind/shade or group of blinds/shades performing the same function • Schedule one open and one closed function per day with different scheduled operation for weekend and weekdays • Convenient display provides easy identification of shade(s) being controlled • Battery included • Remote includes convenient mounting hardware for hanging when not in use • Controls unlimited number of motors Available colors: • Interior only: White
	Situo 5 Soliris • Compatible with all Somfy RTS motors • Used to control a single blind/shade on each channel or group blinds/shades performing the same function • Battery included • Remote includes convenient mounting hardware for hanging when not in use • Controls unlimited number of motors Available colors: • Interior only: White
	Sunis Sun Sensor The Somfy Sunis RTS Sun Intensity Sensor is a wireless transmitter compatible with RTS motorized window coverings. Window or sill mounted, the Sunis RTS operates motorized window coverings in accordance to the sun intensity. Sensitivity (threshold) settings can be adjusted to accommodate various sunlight intensity and room temperatures to provide the ultimate in comfort and protection from harmful UV rays. The Somfy Sunis RTS controller communicates with all Somfy RTS controllable devices. The Sunis is a wireless, battery-powered, single-channel RF programmable controller for an unlimited number of Somfy RTS motors. All motors assigned to the Sunis will operate simultaneously. When used with the Somfy RTS shade motors, the Sunis will open or close the shades based on the amount of sun reaching the sensor. • Two-position suction cup mounting • Mounts to glass or windowsill • Powered by 3-volt lithium battery (included) • Controls unlimited RTS motors • Controls RTS motors based on sun intensity • Operating temperature: 32°F to 140°F • INDOOR USE ONLY • Dimensions: 2 3/16" diameter x 3/4" deep
	(RTS) Repeater—Range Expander The Repeater extends the range of all Somfy RTS controllers. Devices or motors that might have been previously out of range from an RTS transmitter can now be controlled by adding the RTS Repeater. The RTS Repeater should be placed approximately halfway between the RTS Somfy motor and controller. An LED is provided for confirmation that the unit is receiving the RTS. Repeater has the same typical range of other transmitters at approximately 65 feet and plugs directly into any household AC outlet. • Communicates with all Somfy (RTS) devices/motors • Range expander: strengthens and extends the radio frequency signal (RTS) from control to motor • Plug and play: plugs directly into any AC-Outlet; no programming needed • LED feedback • Controls unlimited number of shades simultaneously • Dimensions: 2 1/8" wide x 4 1/8" high x 1.275" deep (without antenna)

RTS Control Options

Motorized Graber® Blinds and Shades feature Somfy® Radio Frequency Motors and Accessories. All Somfy Radio Frequency Motors utilize Somfy's Proprietary Protocol Radio Technology Somfy® (RTS).

Integration Devices



16-Channel Z-WAVE to RTS Bridge (ZRTSI II)

The ZRTSI II is a Z-Wave to RTS Interface which acts as a bridge controller between a Somfy RTS motor and Z-Wave network. It receives Z-Wave transmissions and converts them to motor control commands for wireless controlled motors. Each ZRTSI II is plugged into an active electrical outlet and has sixteen (16) RTS channels. Each channel can control one individual or one group of RTS motorized window coverings.

- Allows Z-Wave controllers to operate Somfy RTS motors
- 16 Channels of RTS control
- Can be controlled with Z-Wave only
- 65 foot RTS range
- Plugs into wall outlet
- Dimensions: 2¾" wide x 5½" high x 1½" deep (not including plug)



Universal RTS Interface (URTSI II)

The addressable Universal RTS Interface can be used to communicate between home automation or other third party systems and all Somfy (RTS) motors and controls. It is capable of individual or group control and can be operated via Infrared Remote, RS232, or RS485 serial communication. Once an input is activated, an RTS radio command is sent to the motorized window treatment. Up to 16 addressable channels are available.

- Used for third party integration of all Somfy RTS motors, including both line (120-Volt A/C) and low voltage systems
- Converts IR/RS232/RS485 to control all Somfy Radio Frequency (RTS) motors
- 65 foot RTS range
- Power: 9-volt to 15-volt DC, 200mA draw for each universal interface—transformer included
- Up to 16 URTSI II's can be used in one system



Single-Channel Dry Contact to RTS Interface (includes power cord)

The Somfy Single-Channel RTS dry contact interface communicates with all RTS motors and can only be controlled by dry contact. It operates as a single-channel Telis remote controller, providing UP, DOWN and STOP functions along with a "MY" or customer-preferred shade setting. The RTS (RF) technology controls all RTS devices within a 65 foot range. This device is enclosed in a weatherproof mounting case for indoor and outdoor operation.

- Single-channel RTS control for all Somfy RTS motors
- Controlled with dry contacts
- Powered by 3-volt lithium battery (included)
- Knockout holes in back and bottom of weatherproof case
- Dimensions: 6" wide x 4¼" high x 2¼" deep



TaHoma™

The TaHoma™ gateway is a smart home hub that allows control of up to 40 RTS and 50 Zigbee devices using the TaHoma North America app (available on iOS and Android). Using the app, users can send Zigbee and RTS commands, create scenes/routines, and schedules. Users can access TaHoma from anywhere via remote access. Though designed as a room controller, up to 10 TaHomas can combine within the same RTS system only for multi-zone control. TaHoma can also be used as a Wi-Fi to RTS/Zigbee interface for integration with third-party control systems. The TaHoma can be connected wirelessly or with an ethernet adapter shown below.

- Dimensions: 2.76" L x 2.76" W x 6.69" H



TaHoma Ethernet Adapter

The TaHoma® Ethernet Adaptor adds an Ethernet LAN port to TaHoma, providing fast and stable internet connection.

Zigbee Options

Motorized Graber® Blinds and Shades feature Somfy® Radio Frequency Motors and Accessories. All Somfy Radio Frequency Motors utilize Somfy's Proprietary Protocol Radio Technology Somfy® (RTS).

Zigbee Controls	
	Situo 4 Zigbee White Remote Compatible with all Somfy Zigbee motors, smart plug or interface. Used to control single shades on each channel or group shades performing the same function. • White only • Battery included • Remote includes convenient mounting hardware for hanging when not in use • Controls unlimited number of motors • 3-year battery life, in app battery indicator • Not compatible with RTS motors • Device Type: Zigbee end device
	Zigbee Smart Plug & Repeater The Somfy Smart Plug & Repeater can be used in Zigbee installations (using the TaHoma gateway). It can be used to extend the Zigbee radio range for your motorized window coverings and turn connected lighting devices on/off. The Zigbee Smart Plug & repeater is an essential point to build a robust Zigbee mesh network. The Smart Plug & Repeater allows you control traditional lighting or plug-in devices with the TaHoma North America app. This remote controlled wall socket is easily connected to the TaHoma, allowing users to connect lighting devices on or off via the app or hand-held remote. • Requires the TaHoma and TaHoma North America app • Indoor use only • Fits into any standard outlet • Manual on/off function • One repeater recommended for every 6 wirefree battery motors • White only • Device Type: Zigbee router
	TaHoma™ The TaHoma™ gateway is a smart home hub that allows control of up to 40 RTS and 50 Zigbee devices using the TaHoma North America app (available on iOS and Android). Using the app, users can send Zigbee and RTS commands, create scenes/routines, and schedules. Users can access TaHoma from anywhere via remote access. Though designed as a room controller, up to 10 TaHomas can combine within the same system only for multi-zone control. TaHoma can also be used as a Wi-Fi to RTS/Zigbee interface for integration with third-party control systems. The TaHoma can be connected wirelessly or with an ethernet adapter shown below. • Dimensions: 2.76" L x 2.76" W x 6.69" H • Download Somfy Set & Go Connect for dedicated app based tool for professionals. • Device Type: Zigbee Coordinator
	TaHoma Ethernet Adapter The TaHoma® Ethernet Adaptor adds an Ethernet LAN port to TaHoma, providing fast and stable internet connection.
	Rechargeable Battery Pack • The rechargeable battery pack comes as a sealed pack with the batteries already included. Batteries are charged by plugging the charger into the pack. • Multiple mounting options provided. • For shades exceeding 7,200 square inches we recommend a plug-in transformer • 48" and 96" motor-to-battery extensions available, maximum of 2 per motor • Rechargeable battery packs ship at 30% charge and must be fully charged prior to installation • Dual pack configuration is not available or necessary for the rechargeable battery packs • One Lithium-Ion Charger is required per order; sold separately, see page 48 • Lithium-Ion charger cable is 6 feet

RTS Control Options

Motorized Graber® Blinds and Shades feature Somfy® Radio Frequency Motors and Accessories. All Somfy Radio Frequency Motors utilize Somfy's Proprietary Protocol Radio Technology Somfy® (RTS).

Exterior Solar Shade Motorization Controls



Telis Handheld Remotes (Exterior rated)

- Compatible with all Somfy RTS motors
- Used to control single blinds/shades on each channel or group blinds/shades performing the same function
- Battery included
- Remote includes convenient mounting hardware for hanging when not in use
- Controls unlimited number of motors
- Water resistant and shock proof for outdoor use.

Telis 1, Single-Channel Remote

Available colors: Patio Blue

Telis 5, Five-Channel Remote

Available colors: Patio Blue



Eolis RTS Wind Sensor

- The Somfy's Eolis RTS wind sensor is a radio wind sensor for exterior motorized lift shades.
- The sensor detects a wind threshold and automatically raises the shades.
- The wind threshold is adjustable.
- Powered by plugging into a 120-volt electrical outlet.
- Exterior-rated fasteners are not included.



Exterior-Rated Plug

- Optional black electrical 3-wire plug, 15 amp, to be used with a GFCI outlet. This allows the shade to be plugged in versus hard-wired.

Options

Standard 4-Wire Motor 120-Volt Controls

	Maintained DP-DT Paddle Switch - Controls one or two shades as a stand-alone control 120-volt A/C - Available colors: White, Ivory
	Group Control System (GCS-II) The Group Control System-II (GCS-II) permits low voltage control of up to four Somfy® motors with one or more switches, from one or more locations. The GCS-II offers only group control, and does not have the capability of operating each motor individually. The Group Control System-II is UL and cUL approved. - Enclosure measures 8" wide x 10" high x 4" deep - SP-DT paddle switch sold separately
	Maintained SP-DT Paddle Switch - Controls one shade as a stand-alone or in conjunction with a GCS-II multi-motor control for up to four motor operation 120-volt A/C - Available colors: White, Ivory
	IGC 4n1 Motor Group Control - Control up to four WT motors individually or in groups - Provides default intermediate positions: 25%, 50%, 75% openness - Three customizable intermediate positions per motor - Individual control and master control using DecoFlex IGC/4N1 Keypads - Four keypad ports and two master ports - IGC 4n1 switch sold separately
	RTS to IGC 4n1 Receiver Receiver allows RTS remotes to be added to the standard four wire motor control and motors
	IGC 4n1 Switch - Designed to be used with the IGC 4n1 motor group controller - Six button control, three intermediate positions, up, stop, and down - Available colors: White
	Motor Tester Cable The motor tester cable is used for any 120-volt motor with the wago quick disconnect. The cable allows adjusting limits on standard motors and can provide alternate power for radio frequency and intelligent motors. Motor tester cable includes switch and wago quick disconnect plug. Dimensions 2.5" wide x 3" high x 2" deep

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