# Z-WAVE MOTORIZATION

## Product Information Guide

### Features


Motorized Blind and Shade Features . . . . . 2
Radio Frequency (RF) Features . . . . . 2
Single-Channel Remote Mounting Options . . . . . 3
Multi-Channel Remote Mounting Options . . . . . 3


### Size Considerations


CrystalPleat® Cellular and Pleated Shades Motorized Lift . . . . . 4 – 5
Fresco® Roman Shades Motorized Lift . . . . . 6
Tradewinds® Natural Shades Motorized Lift . . . . . 7
Artisan Roman Shades Motorized Lift . . . . . 8
Mezzanine Layered Shades Motorized Lift and Light Gap . . . . . 9
Overture Sheer Shades Motorized Lift and Light Gap . . . . . 10
Lightweaves® Roller and Solar Shades Motorized Lift . . . . . 11
Mounting Depth: Motorized Lift and Dual Shade . . . . . 12
Lightweaves Roller and Solar Shades: 12 Volt Motor Maximum Shade Size . . . . . 13-15
Lightweaves Roller and Solar Shades: Dual Shades Maximum Shade Size . . . . . 16-18


### Options


Z-Wave Power Considerations . . . . . 19-20
Z-Wave Power Components . . . . . 21
Radio Frequency (RF) Controls . . . . . 22


GRABER®

**AUGUST 2020**

(08/20)|S20-88015

# Features

## Motorized Blind and Shade Features

Refer to individual product information guide for specific option for the product being ordered. See price charts for pricing.

## Z-Wave Radio Frequency (RF) Features

Graber® Z-Wave motorized shades feature advanced radio technology which provides reliable, effortless operation of window coverings. The radio technology utilized is Z-Wave which is supported by an alliance of countless smart home products and home automation providers making integration simple and inexpensive. Graber Z-Wave motorized shades are quiet, simple to install and adjust, and simple to operate. These automated shades also feature:

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

**Z-Wave Radio Frequency Features**

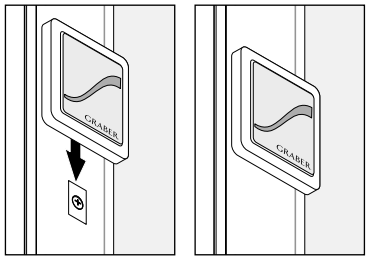
- Easily control shades via mobile app with the Graber Motorization App and Gateway or via integration with Z-Wave home automation systems
- Conveniently operated from virtually anywhere in the home, up to 65 feet
- Efficiently manages energy (heat gain and loss)
- A Safer alternative to accessible cords; ideal for homes with children and pets
- Provides easy operation for hard to reach or large windows
- Easily integrate with home automation and voice control devices

**Z-Wave Radio Frequency Features**

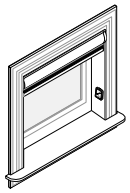
- Simple, intuitive control by means of the unique Z-Wave Standard Remote (not available with Sheer & Layered)
  - Z-Wave Plus Remote (single channel) or Z-Wave Premium Remote (multiple channel) also available to control shades individually or in a group
  - LED feedback on controls to simplify operation and programming
  - Low voltage motorization; no costly electrical hardwiring required
  - Powered with batteries, or multi-motor power supply or plug-in transformer, or multi-motor power
  - See Z-Wave options section for additional control and power availability

**Control Options Available**

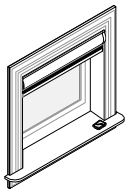
- Z-Wave Standard Remote: simple, convenient control at the window shade location or control across the room



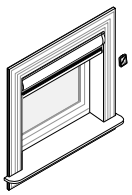

Z-Wave Standard Remote



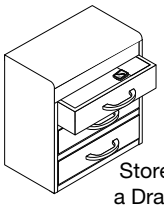
Attached to the Window Molding



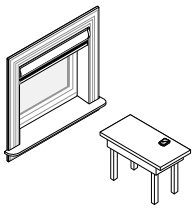
Attached to the Window Sill



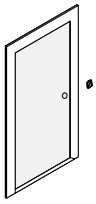
Attached to the Wall



Store in a Drawer



On a Table



Mounted by the Door

- Graber Motorization App and Gateway: convenient and easy to use app allows for mobile control of Z-Wave shades.
  - Control individual shades
  - Create routines to control multiple shades with the ability to set timers
  - Set and control a favorite position, shade limits, and roll direction



- Z-Wave plus remote: control can be conveniently mounted or placed on a table and controlled from anywhere in the room
  - One channel
  - Create group shade control
  - Set and control an intermediate position (home)



Z-Wave Plus Remote

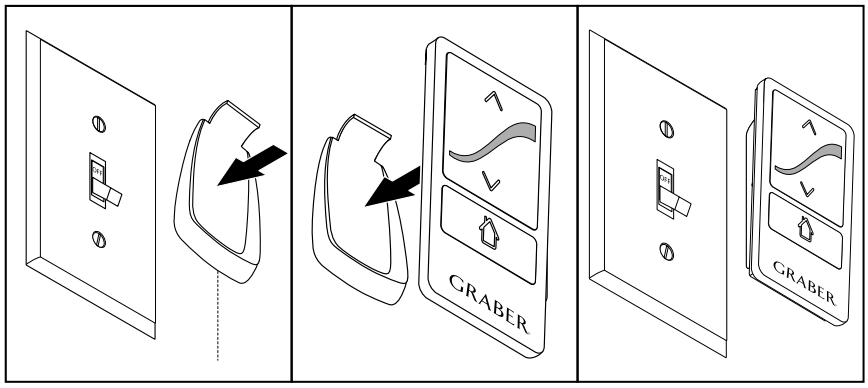
- Z-Wave premium remote: control can be conveniently mounted or placed on a table and controlled from anywhere in the room
  - 12 channels
  - Individual shade control
  - Create group shade control
  - Set and control an intermediate position (home)



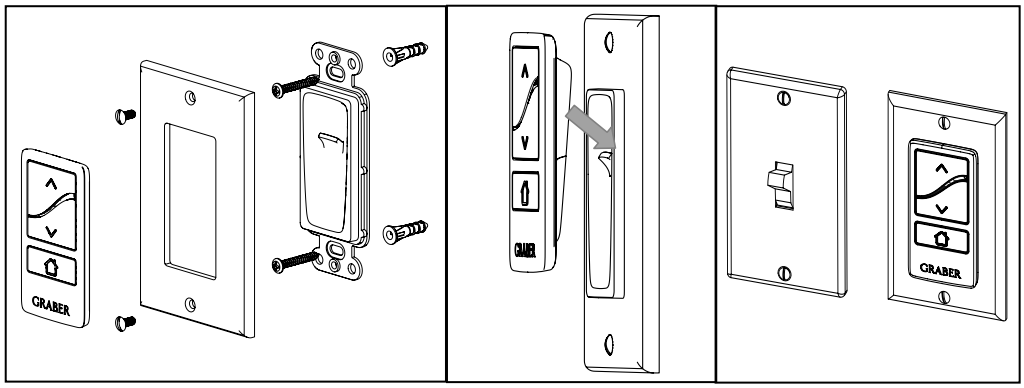

Z-Wave Premium Remote

# Features

## Single-Channel Remote Mounting Options

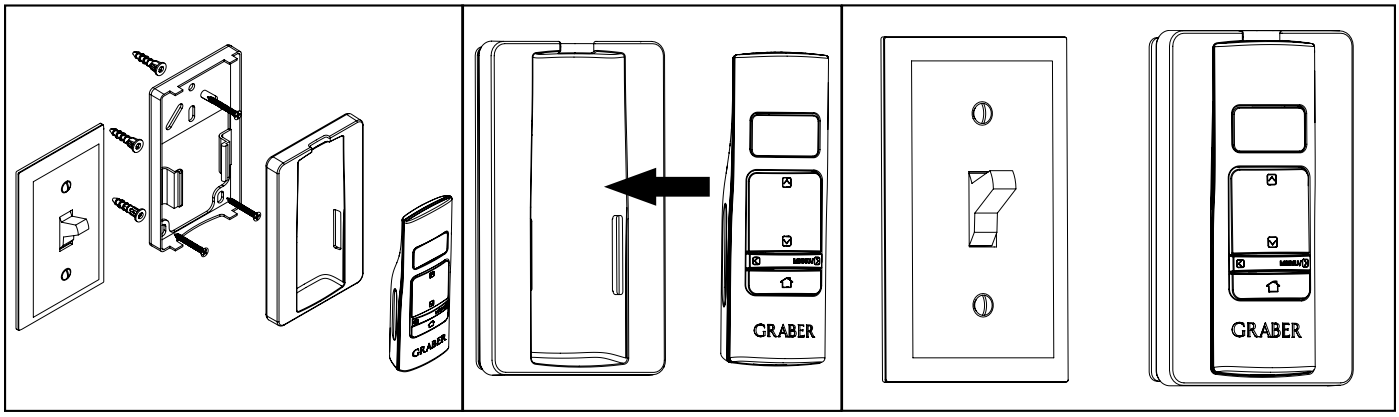



Z-Wave Plus Remote




Optional Decorator Wall Plate Mount
(see Z-Wave options for details)

## Multi-Channel Remote Mounting Options

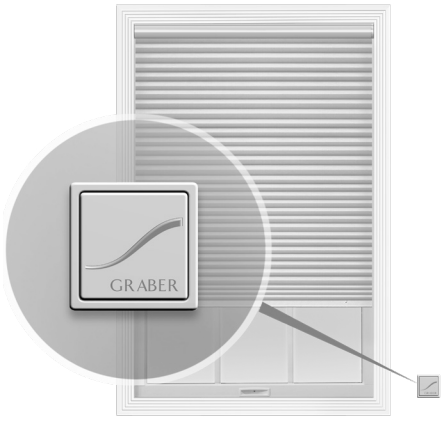



Z-Wave Premium Remote

# Size Considerations

## CrystalPleat® Cellular Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Product Specifications**

- Motor located on right side within headrail
- Available as corner and bay window application
- 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
- Not available with bottom up/top down, top down continuous-loop, sun up/sun down, combination shades, SkyTrack™ Skylight, specialty shapes or multiple shades on one headrail
- Not available with hold down brackets, side mount brackets or room-darkening side channels

**Control and Power Options**

- Multiple control and power options available; see Z-Wave options for availability

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

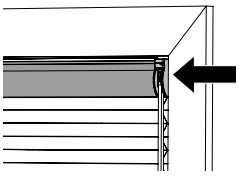
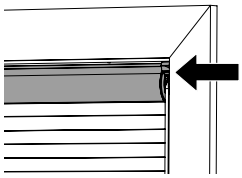
| **Z-Wave Size Considerations** | **Minimum Width‡** (inches) | **Maximum Width** (inches) | **Minimum Height** (inches) | **Maximum Height** (inches) |
|---|---|---|---|---|
| Cellular Shades | 20 | 144* | 9 | 144 * |

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

| **Cellular Fabric Styles** | **Maximum Shade Size** (square inches) |
|---|---|
| 1¼" Single Cell Sanctuary<br>½" Double Cell Sanctuary | 10,000 |
| 1¼" Single Cell Valletta<br>¾" Single Cell Couture, Sanctuary, Scroll FR, and Valletta<br>1" Double Cell Splendor | 12,500 |
| 1¼" Single Cell Splendor | 14,000 |
| ¾" Single Cell Enchantment, Kinsley, Montage, Prestige, and Splendor | 17,000 |
| All other fabrics | 20,800** |

**Available up to 144"W x 144"H

**NOTE:** For all inside mount applications, ⅜" deduction is taken by manufacturer on overall width.

| **Cell Size** | **Continuous-Loop Lift Headrail Dimensions** (inches) |  Partially recessed headrail in window casing/ molding. **Minimum Depth Mount** (inches) |  Fully recessed headrail in window casing/ molding. **Flush with Casing** (inches) |
|---|---|---|---|
| ¾" single cell<br>½" double cell | 1 9/16 x 2⅜ | ⅝ | 2⅝ |
| ⅜" single cell | 1 9/16 x 2⅛ | ⅝ | 2⅜ |

# Size Considerations

## Pleated Shades Motorized Lift




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

**Product Specifications**

- Motor located on right side within headrail
- Available as corner and bay window application
- Available with Wood Cornice and Valance
- Available with Dayliner or Midnight liner
- Available with lightblocking strip
- Rail colors can be specified at time of order
- Not available with bottom up/top down, sun up/sun down, combination shades, SkyTrack™ Skylight, specialty shapes or multiple shades on one headrail
- Not available with hold down brackets, side mount brackets or room-darkening side channels

**Control and Power Options**

- Multiple control and power options available; see Z-Wave options for availability

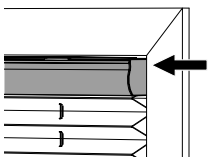
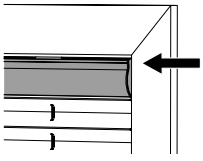
**NOTE:** Motorization components and accessories have a five-year limited warranty, excluding batteries.

| **Z-Wave Size Considerations** | **Minimum Width‡** (inches) | **Maximum Width** (inches) | **Minimum Height** (inches) | **Maximum Height** (inches) |
|---|---|---|---|---|
| 1" FashionPleat® | 20 | 144*† | 9 | 96 |
| 1" EvenPleat® | 20 | 120*† | 6 | 96 |
| 2" EvenPleat | 20 | 144*† | 12 | 144* |

*This is the shade size maximum limit for this motor type, shades size limit may be smaller based on specific fabric type.
†Based on fabric width with overlaps.
‡For all inside mount applications, ⅜" deduction is taken by manufacturer on overall width.

| **Pleated Fabric Styles** | **Maximum Shade Size** (square inches) |
|---|---|
| 2" Crossweave, Debonair, Desert, Grasscloth, and Serendipity | 10,000 |
| 1" Debonair, Desert, Grasscloth, and Serendipity<br>2" Geneva and Prism | 12,500 |
| 1" Allure, Eloquence, Geneva, Imperial, Muse, Prism, and Sheer Line<br>2" Marquis, Sheer Linen, and Black Out liner only shades | 14,000 |
| 1" Marquis and Liner only shades<br>2" Privacy Liner only shades | 17,000 |

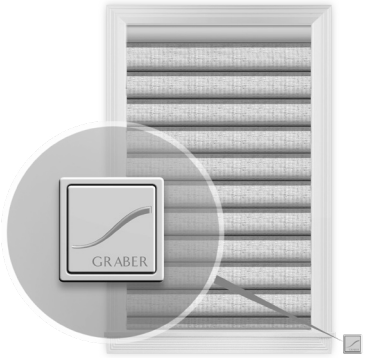
## Depth Requirements for Inside Mount: Motorized Lift

| **Shade Type** | **Cordless Lift Shades Headrail Dimensions** (inches) |  Partially recessed headrail in window casing/ molding **Minimum Depth Mount** (inches) |  Fully recessed headrail in window casing/ molding **Flush with Casing** (inches) |
|---|---|---|---|
| 1" Pleat | 1 19/16 x 2⅜ | ⅝ | 2⅜ |
| 2" Pleat | 1 19/16 x 2⅛ | ⅝ | 2⅝ |

# Size Considerations

## Fresco® Roman Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Product Specifications**

- Motor located on right side within headrail
- Available with both flat and looped styles
- Available as corner and bay window application
- Available with fabric valances and fabric valance trims
- Not available with bottom up/top down or multiple shades on one headrail
- Not available with hold down brackets or side mount brackets

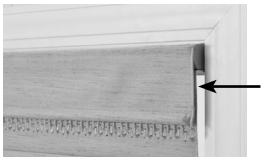
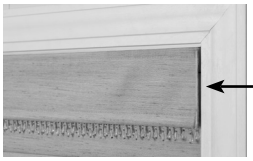
**Control and Power Options**

- Multiple control and power options available; see Z-Wave options 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 |

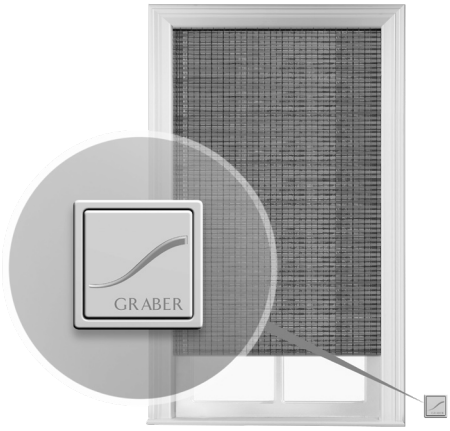
*For all inside mount applications, ⅜" deduction is taken by manufacturer on overall width.
†Based on fabric width.

| **Lift Option and Shade Style** | **Headrail Dimensions** (inches) |  Partially recessed headrail in window casing/ molding **Minimum Depth Mount** (inches) |  Fully recessed headrail in window casing/ molding **Flush with Casing** (inches) |
|---|---|---|---|
| Motorized Lift: Flat | 1½ x 2 | ½ | 2 1/8 |
| Motorized Lift: Looped | 1½ x 2 | ½ (fabric loops will overhang approximately 3" into the room) | 2½ (fabric loops will overhang approximately 3" into the room) |

# Size Considerations

## Tradewinds® Natural Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Product Specifications**

- Motor located on underside of hardwood headrail on right side
- Available with Standard Roman and Old Stle Roman styles
- Available with multiple shades on one headrail; each panel will have a motor and power source and there will be ½" gap between panels
- Available with 9" standard valance, 9" premiere valance, or 9" deco-trim valance
- Available with: fabric edge banding, hem options, privacy and room-darkening liners
- Available with deco-trim hems and accent gimp
- Available as corner and bay window application
- Available with Wood Cornice and Valance
- Not available with bottom up/top down, cut outs, turned headrail or specialty shapes
- Not available with hold down brackets or side mount brackets

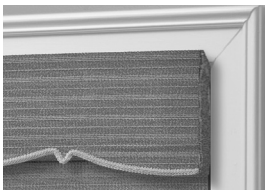
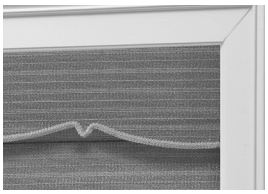
**Control and Power Options**

- Multiple control and power options available; see Z-Wave options for availability

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

**Natural Shades Size Considerations**

| Style | Minimum Width (inches) | Maximum Size | |
|---|---|---|---|
| | | Shade (square inches) | With Liner (square inches) |
| Inan, Lipo, Revelry, Serenity, Toushan II | 18 | 2,755 | 2,333 |
| Denver, Brooklyn, Statside | 18 | 4,493 | 3,466 |
| Chencun, Bellamy | 18 | 5,194 | 3,878 |
| Amour, Boardwalk, Merino, Moniz, Sarto | 18 | 6,058 | 4,330 |
| Beachfront, Freda, Hadley, Kelton, Madeira, Meilin, Oxford, Paralian | 18 | 6,854 | 4,723 |
| Cameron, Havana, Isadora, Rowen, Purcell, Saterra, Selene, Tatum, Terrestrial, Ventura, Zishan | 18 | 9,149 | 5,712 |

| Headrail Dimensions (inches) |  Partially recessed valance in window casing/ molding<br>**Minimum Depth Mount** (inches) |  Fully recessed valance in window casing/ molding<br>**Flush with Casing** (inches) |
|---|---|---|
| ⅝ x 2¼ | ¾ | Standard valance 3³⁄₁₆ |

# Size Considerations

## Artisan Roman Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Product Specifications**

- Motor located on underside of hardwood headrail on right side
- Fabric wrapped headrail for a beautifully finished look; returns are standard on outside mount shades
- Available as pleat 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
- Not available with multiple shades on one headrail, bottom up/top down, turned headrail, balloon shade or blackout lining
- Not available with hold down brackets or side mount brackets

**Control and Power Options**

- Multiple control and power options available; see Z-Wave options for availability

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

**Artisan Roman Shades Size Considerations**

| Width | | Length | |
|---|---|---|---|
| **Minimum** (inches) | **Maximum** (inches) | **Minimum** (inches) | **Maximum** (inches) |
| 24 | 96 | 18 | Classic Flat, Seamless and Relaxed – 120, Looped – 103 |

**Motorized Maximum Shade Area in Square Inches**

| **Shade Group** | **Standard or Water Repellent** (square inches) | **Thermal** (square inches) | **Flannel-Back** (square inches) |
|---|---|---|---|
| 1 | 6,800 | 6,010 | 5,300 |
| 2 | 5,612 | 4,958 | 4,600 |
| 3 | 4,758 | 4,338 | 4,000 |
| 4 | 3,894 | 3,812 | 3,400 |
| 5 | 3,318 | 3,230 | 2,840 |
| 6 | N/A | N/A | N/A |

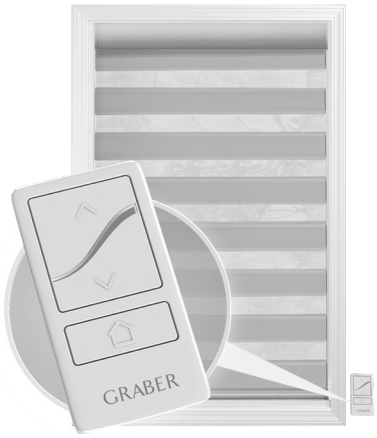
**NOTE:** Area is ordered width x ordered height in square inches.
**EXAMPLE:** 60" wide x 84" high = 5,040 square inches.

| **Headrail Dimensions** (inches) |  Partially recessed headrail in window casing/ molding<br>**Minimum Depth Mount** (inches) |  Fully recessed headrail in window casing/ molding<br>**Flush with Casing** (inches) |
|---|---|---|
| 2¼ D x ⅝ L | ¾ | 2⅞ |

# Size Considerations

## Mezzanine Layered Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Product Specifications**
- Motor located on right or left side; standard is on right
- Fabric wrapped cassette standard and creates a cohesive appearance in the window
- Static-guard is necessary during dry conditions to prevent static build up
- Available as corner and bay window application
- Not available with hold down brackets or side mount brackets
- Not available with Wood Cornice or Valance

**Control and Power Options**
- Multiple control and power options available; see Z-Wave options for availability

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

## Light Gap

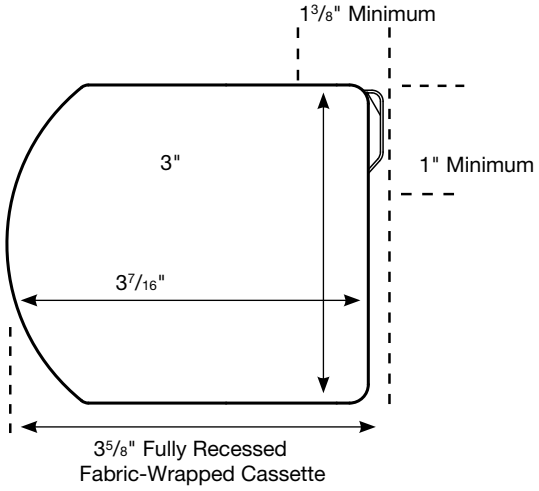
The fabric width is narrower than the finished shade width of the tube and its components. See chart below for light gap.

| Motor End | | Idle End | |
|---|---|---|---|
| **Inside Mount** (inches) | **Outside Mount** (inches) | **Inside Mount** (inches) | **Outside Mount** (inches) |
| 11/16 | 1 | 3/4 | 11/16 |

**Layered Shades Size Considerations**

| **Style Name** | **Maximum Width*** (inches) | **Maximum Height*** (inches) |
|---|---|---|
| Aravalli | 96 | 52 |
| Bernina | 96 | 110 |
| Cordillera | 85 | 75 |
| Crestones | 97 | 84 |
| Culebra | 95 | 110 |
| Glorieta | 98 | 110 |
| Glorieta Sheen | 98 | 110 |
| Herard | 97 | 77 |
| Vanoise | 91 | 95 |
| Venado | 85 | 75 |

Minimum width: 16".
Minimum length: 12".
*If the height is shorter than the maximum, a slightly larger width may be available to order. Maximum width is 102".




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

# Size Considerations

## Overture Sheer Shades Motorized Lift

Order Entry: 12V Z-Wave Motor




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

**Features**
- Motor located on right or left side; standard is on right
- Fabric wrapped cassette standard and creates a cohesive appearance in the window
- Available as corner and bay window application
- Not available with hold down brackets or side mount brackets
- Not available with Wood Cornice or Valance

**Control and Power Options**
- Multiple control and power options available; see Z-Wave options for availability

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

## Light Gap

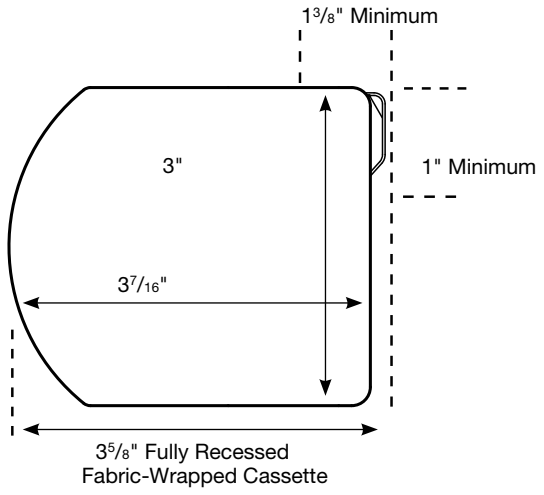
The fabric width is narrower than the finished shade width of the tube and its components. See chart below for light gap.

| Motor End | | Idle End | |
|---|---|---|---|
| **Inside Mount** (inches) | **Outside Mount** (inches) | **Inside Mount** (inches) | **Outside Mount** (inches) |
| 1 | 15/16 | 11/16 | 5/8 |

**Sheer Shades Size Considerations**

| Style Name | Maximum Width* (inches) | Maximum Height* (inches) |
|---|---|---|
| Glessner 2" | 96 | 105 |
| Glessner Sheen 2" | 98 | 110 |
| Glessner Woven 2" | 96 | 110 |
| Glessner 3" | 96 | 105 |
| Glessner Sheen 3" | 98 | 110 |
| Glessner Woven 3" | 96 | 110 |
| Marisco 2" | 94 | 99 |
| Marisco 2¾" | 94 | 98 |
| San Simeon 3" | 96 | 65 |
| Roslin | 94 | 75 |
| Winchester | 97 | 87 |
| Winchester Sheen | 102 | 69 |
| Winchester Woven | 97 | 87 |

Minimum width: 16".
Minimum length: 12" .
*If the height is shorter than the maximum, a slightly larger width may be available to order. Maximum width is 102".




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

# Size Considerations

## Lightweaves® Roller and Solar Shades Motorized Lift

Order Entry: 12V Z-Wave Motor






Inside Mount Light Gap
Refer to Light Gap Chart

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

**Product Specifications**

- Motor located on right or left side; standard is on right
- Available with standard or reverse roll; reverse roll not available with any valance option
- Available with valance styles: cassette, contour, fascia, wood valance and wood cornice
- Available as corner and bay window application
- Available with fabric rotated 90° (width for height) and seaming
- Available with as Dual Shade (integrates two fabrics that can be independently raised and lowered as needed); each shade requires a power source)
- Available with finishing options: scallops, gimp trim, bead trim
- Available with side and sill channels and pocket
- Not available with hold down brackets

**Control and Power Options**

- Multiple control and power options available; see Z-Wave options for availability

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

| Inside Mount Light Gap | |
|---|---|
| **Valance Type** | **Light Gap per Side** (inches) |
| Contour, Fascia, No Valance | 9⁄16 to 1⅛ |
| Cassette – All Sizes | 9⁄16 to 1¼ |
| Dual – No Cassette | 9⁄16 to ⅞ |
| Dual with Cassette | 9⁄16 to 1 |

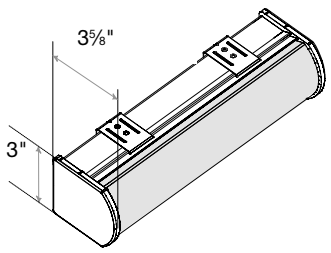
| Size Considerations | | |
|---|---|---|
| **Motor Type** | **Minimum Width** (inches) | **Minimum Height** (inches) |
| 12 Volt | 16 | 13 |

**NOTE:** See size charts on following pages.

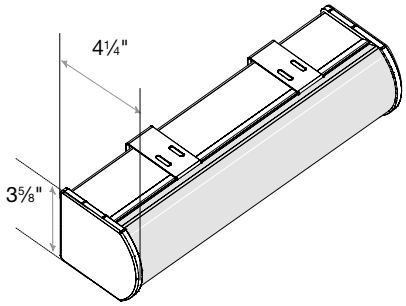
# Size Considerations

## Motorized Lift, and Dual Shade: Mounting Depth Illustrations

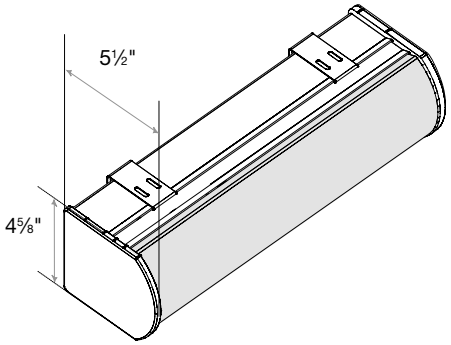
The following diagrams illustrate the mounting depth requirements for shades mounted inside window casements.



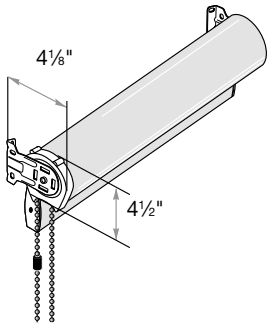

Small Cassette Valance
1⅜" Minimum Inside Mount



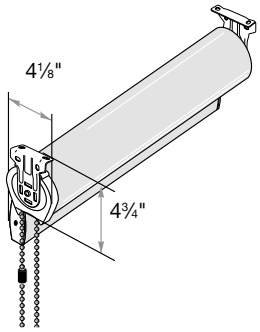

Medium Cassette Valance
1¾" Minimum Inside Mount



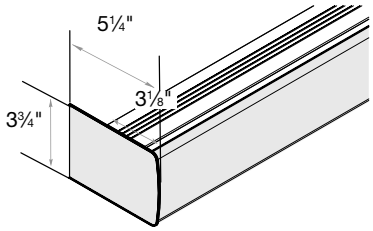

Large/Dual Cassette Valance
1¾" Minimum Inside Mount



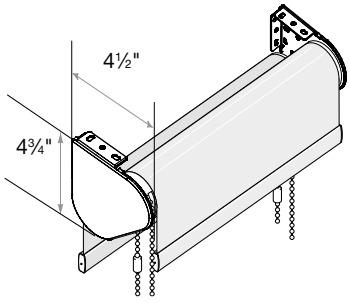

No Valance*
¾" Minimum Inside/Side Mount



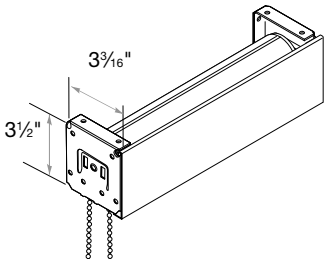

No Valance*
4⅛" Minimum Inside/Top Mount



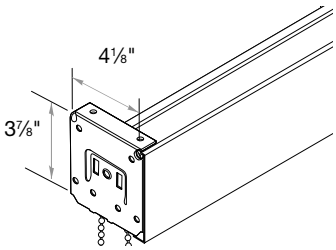

Contour Valance
2⁷⁄₁₆") Minimum Inside Mount
(return can be trimmed)




Dual Shade—No Cassette Valance
2" Minimum Inside/Top Mount
¾" Minimum Inside/Side Mount




3" Fascia
2¾" Minimum Inside/Top Mount
¾" Minimum Inside/Side Mount




4" Fascia
3¾" Minimum Inside/Top Mount
1½" Minimum Inside/Side Mount

# Size Considerations

Minimum width: 16"
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: 12-Volt Z-Wave 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 Max 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) |
| Allure | 91 | 131 | 91 | 131 | 91 | 131 | 91 | 131 | 91 | 131 | 95 | 98 | 95 | 98 | 95 | 98 | 95 | 98 | 95 | 98 | 95 | 98 |
| Arboretum BO | 87 | 97 | 82 | 131 | 82 | 131 | 82 | 131 | 82 | 131 | 75 | 84 | 75 | 84 | 75 | 84 | 89 | 82 | 75 | 84 | 75 | 84 |
| Arboretum LF | 90 | 136 | 90 | 136 | 90 | 136 | 90 | 136 | 90 | 136 | 82 | 84 | 82 | 84 | 82 | 84 | 96 | 82 | 82 | 84 | 82 | 84 |
| Banquet | 85 | 139 | 85 | 144 | 85 | 144 | 85 | 144 | 85 | 144 | 96 | 74 | 96 | 74 | 96 | 74 | 96 | 74 | 96 | 74 | 96 | 74 |
| Bravado BO | 73 | 93 | 82 | 125 | 82 | 125 | 84 | 111 | 82 | 125 | Not available | | | | | | | | | | | |
| Bravado LF | 79 | 113 | 91 | 131 | 91 | 131 | 91 | 131 | 91 | 131 | Not available | | | | | | | | | | | |
| Broadcast | 71 | 72 | 77 | 111 | 75 | 124 | 81 | 86 | 75 | 124 | 71 | 72 | 77 | 111 | 75 | 124 | 75 | 124 | 81 | 86 | 75 | 124 |
| Cambridge LF 76" (Ivory) | 77 | 144 | 77 | 144 | 77 | 144 | 77 | 144 | 77 | 144 | 86 | 68 | 86 | 68 | 86 | 68 | 101 | 66 | 86 | 68 | 86 | 68 |
| Cambridge LF 92" (Clay, Cocoa Bean, Inkwell, Misty, Off White, White) | 92 | 140 | 92 | 140 | 92 | 140 | 92 | 140 | 92 | 140 | 84 | 84 | 84 | 84 | 84 | 84 | 98 | 82 | 84 | 84 | 84 | 84 |
| Cambridge RD 76" (Ivory) | 77 | 113 | 77 | 144 | 77 | 144 | 77 | 144 | 77 | 144 | 79 | 68 | 79 | 68 | 79 | 68 | 93 | 66 | 79 | 68 | 79 | 68 |
| Cambridge RD 92" (Clay, Cocoa Bean, Inkwell, Misty, Off White, White) | 85 | 113 | 82 | 138 | 82 | 138 | 82 | 138 | 82 | 138 | 76 | 84 | 76 | 84 | 76 | 84 | 90 | 82 | 76 | 84 | 76 | 84 |
| Capri | 71 | 104 | 71 | 144 | 71 | 144 | 71 | 143 | 71 | 144 | Not available | | | | | | | | | | | |
| Chronicles | 85 | 93 | 80 | 125 | 80 | 125 | 80 | 125 | 80 | 125 | Not available | | | | | | | | | | | |
| Complex | 71 | 83 | 77 | 126 | 77 | 126 | 81 | 100 | 77 | 126 | Not available | | | | | | | | | | | |
| Conservancy BO | 57 | 87 | 63 | 126 | 63 | 126 | 65 | 103 | 63 | 126 | Not available | | | | | | | | | | | |
| Conservancy LF | 76 | 82 | 73 | 125 | 73 | 125 | 74 | 113 | 73 | 125 | Not available | | | | | | | | | | | |
| Consummate Silk | 78 | 124 | 78 | 144 | 78 | 144 | 78 | 144 | 78 | 144 | Not available | | | | | | | | | | | |
| Cumulus | 73 | 84 | 80 | 122 | 80 | 122 | 83 | 100 | 80 | 122 | Not available | | | | | | | | | | | |
| Ellington 1% | 74 | 82 | 71 | 106 | 71 | 106 | 71 | 106 | 71 | 106 | 74 | 82 | 71 | 106 | 71 | 106 | 71 | 106 | 71 | 106 | 71 | 106 |
| Ellington 3% | 76 | 85 | 73 | 110 | 73 | 110 | 73 | 110 | 73 | 110 | 76 | 85 | 73 | 110 | 73 | 110 | 73 | 110 | 73 | 110 | 73 | 110 |
| Ellington 5% | 67 | 85 | 63 | 123 | 63 | 123 | 63 | 123 | 63 | 123 | Not available | | | | | | | | | | | |
| Empire | 92 | 141 | 92 | 144 | 92 | 144 | 92 | 144 | 92 | 144 | 84 | 84 | 84 | 84 | 84 | 84 | 99 | 82 | 84 | 84 | 84 | 84 |

**NOTE:** See dual shade section for motorization information.

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.

# Size Considerations

Minimum width: 16"
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: 12-Volt Z-Wave 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 Max 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) |
| Empirical | 93 | 123 | 93 | 123 | 93 | 123 | 93 | 123 | 93 | 123 | Not available | | | | | | | | | | | |
| Emporium (All Others) | 74 | 114 | 85 | 132 | 85 | 132 | 85 | 132 | 85 | 132 | Not available | | | | | | | | | | | |
| Emporium (Bookplate White) | 88 | 118 | 87 | 131 | 87 | 131 | 87 | 131 | 87 | 131 | Not available | | | | | | | | | | | |
| Emporium (Sepia Snapshot) | 73 | 111 | 82 | 144 | 82 | 144 | 82 | 140 | 82 | 144 | Not available | | | | | | | | | | | |
| Essential | 70 | 144 | 70 | 144 | 70 | 144 | 70 | 144 | 70 | 144 | 80 | 124 | 80 | 124 | 80 | 124 | 80 | 124 | 80 | 124 | 80 | 124 |
| Exposition | 75 | 66 | 82 | 102 | 79 | 124 | 71 | 92 | 79 | 124 | Not available | | | | | | | | | | | |
| Gleam | 76 | 106 | 75 | 119 | 75 | 119 | 75 | 119 | 75 | 119 | Not available | | | | | | | | | | | |
| Guildhall | 68 | 97 | 77 | 123 | 77 | 123 | 78 | 115 | 77 | 123 | Not available | | | | | | | | | | | |
| Harmony | 91 | 132 | 91 | 133 | 91 | 133 | 91 | 133 | 91 | 133 | Not available | | | | | | | | | | | |
| Herald | 92 | 141 | 92 | 144 | 92 | 144 | 92 | 144 | 92 | 144 | 84 | 84 | 84 | 84 | 84 | 84 | 99 | 82 | 84 | 84 | 84 | 84 |
| Merit | 75 | 93 | 73 | 108 | 73 | 108 | 73 | 108 | 73 | 108 | Not available | | | | | | | | | | | |
| Momentum | 73 | 79 | 80 | 119 | 79 | 127 | 84 | 94 | 79 | 127 | Not available | | | | | | | | | | | |
| Monticello | 71 | 70 | 77 | 107 | 75 | 125 | 82 | 83 | 75 | 125 | 71 | 70 | 81 | 86 | 81 | 86 | 81 | 86 | 82 | 83 | 81 | 86 |
| Opulent | 88 | 133 | 88 | 133 | 88 | 133 | 88 | 133 | 88 | 133 | Not available | | | | | | | | | | | |
| Paradigm | 75 | 79 | 82 | 121 | 82 | 123 | 86 | 94 | 82 | 123 | Not available | | | | | | | | | | | |
| Paragon | 76 | 89 | 73 | 109 | 73 | 109 | 73 | 109 | 73 | 109 | Not available | | | | | | | | | | | |
| Plexus 1% | 68 | 72 | 74 | 109 | 74 | 109 | 78 | 86 | 74 | 109 | 68 | 72 | 74 | 109 | 74 | 109 | 74 | 109 | 78 | 86 | 74 | 109 |
| Plexus 3% | 69 | 76 | 75 | 112 | 75 | 112 | 78 | 91 | 75 | 112 | 69 | 76 | 75 | 112 | 75 | 112 | 75 | 112 | 78 | 91 | 75 | 112 |
| Plexus 5% | 68 | 84 | 75 | 122 | 75 | 122 | 78 | 100 | 75 | 122 | 68 | 84 | 75 | 122 | 75 | 122 | 75 | 122 | 78 | 100 | 75 | 122 |
| Prairie | 90 | 123 | 89 | 132 | 89 | 132 | 89 | 132 | 89 | 132 | Not available | | | | | | | | | | | |
| Prodigy | 56 | 72 | 61 | 111 | 60 | 122 | 64 | 86 | 60 | 122 | Not available | | | | | | | | | | | |
| Providence BO | 68 | 82 | 63 | 126 | 63 | 126 | 64 | 117 | 63 | 126 | Not available | | | | | | | | | | | |
| Providence LF | 75 | 97 | 73 | 127 | 73 | 127 | 73 | 127 | 73 | 127 | Not available | | | | | | | | | | | |
| Quintessence | 65 | 93 | 73 | 122 | 73 | 122 | 74 | 111 | 73 | 122 | Not available | | | | | | | | | | | |
| Reaction | 85 | 93 | 80 | 125 | 80 | 125 | 80 | 125 | 80 | 125 | Not available | | | | | | | | | | | |
| Renaissance | 92 | 140 | 92 | 140 | 92 | 140 | 92 | 140 | 92 | 140 | Not available | | | | | | | | | | | |
| Resolve | 71 | 100 | 80 | 127 | 80 | 127 | 81 | 119 | 80 | 127 | Not available | | | | | | | | | | | |
| Riverbend | 72 | 77 | 72 | 117 | 72 | 144 | 72 | 106 | 72 | 144 | Not available | | | | | | | | | | | |

**NOTE:** See dual shade section for motorization information.

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.

# Size Considerations

Minimum width: 16"
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: 12-Volt Z-Wave 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 Max 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) |
| Rujin | 72 | 32 | 72 | 59 | 72 | 119 | 72 | 46 | 72 | 96 | Not available | | | | | | | | | | | |
| Sabine | 84 | 89 | 79 | 123 | 79 | 123 | 79 | 123 | 79 | 123 | Not available | | | | | | | | | | | |
| Salutation | 79 | 118 | 93 | 123 | 93 | 123 | 93 | 123 | 93 | 123 | Not available | | | | | | | | | | | |
| Sanguine | 70 | 82 | 77 | 120 | 77 | 120 | 79 | 97 | 77 | 120 | Not available | | | | | | | | | | | |
| Santorini | 77 | 135 | 77 | 144 | 77 | 144 | 77 | 144 | 77 | 144 | Not available | | | | | | | | | | | |
| Sedona | 72 | 109 | 72 | 144 | 72 | 144 | 72 | 144 | 72 | 144 | 99 | 62 | 99 | 62 | 99 | 62 | 99 | 62 | 99 | 62 | 99 | 62 |
| Shadow | 84 | 97 | 80 | 123 | 80 | 123 | 80 | 123 | 80 | 123 | Not available | | | | | | | | | | | |
| Sheffield | 95 | 101 | 91 | 135 | 91 | 135 | 91 | 135 | 91 | 135 | Not available | | | | | | | | | | | |
| Standard Weave 1% | 82 | 89 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 | 82 | 89 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 |
| Standard Weave 3% | 83 | 89 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 | 83 | 89 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 |
| Standard Weave 5% | 83 | 97 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 | 83 | 97 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 |
| Standard Weave 10% | 84 | 101 | 81 | 120 | 81 | 120 | 81 | 120 | 81 | 120 | 84 | 101 | 81 | 120 | 81 | 120 | 81 | 120 | 81 | 120 | 81 | 120 |
| Suburban II | 72 | 144 | 72 | 144 | 72 | 144 | 72 | 144 | 72 | 144 | 100 | 62 | 100 | 62 | 100 | 62 | 100 | 62 | 100 | 62 | 100 | 62 |
| Tableaux | 72 | 60 | 79 | 92 | 74 | 122 | 68 | 83 | 74 | 122 | Not available | | | | | | | | | | | |
| Thesis | 70 | 90 | 70 | 137 | 70 | 144 | 70 | 124 | 70 | 144 | Not available | | | | | | | | | | | |
| Vanguard 1% | 82 | 89 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 | 82 | 89 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 | 77 | 125 |
| Vanguard 3% | 83 | 89 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 | 83 | 89 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 | 78 | 124 |
| Vanguard 5% | 83 | 97 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 | 83 | 97 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 | 79 | 124 |
| Venture | 62 | 88 | 71 | 104 | 71 | 104 | 71 | 104 | 71 | 104 | Not available | | | | | | | | | | | |
| Wayfarer | 92 | 144 | 92 | 144 | 92 | 144 | 92 | 144 | 92 | 144 | Not available | | | | | | | | | | | |
| Whitcomb | 90 | 118 | 89 | 132 | 89 | 132 | 89 | 132 | 89 | 132 | Not available | | | | | | | | | | | |
| Whitehall | 87 | 106 | 82 | 144 | 82 | 144 | 82 | 144 | 82 | 144 | 77 | 84 | 77 | 84 | 77 | 84 | 91 | 82 | 77 | 84 | 77 | 84 |

**NOTE:** See dual shade section for motorization information.

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.

# Size Considerations

This table provides the maximum shade size available by fabric, control type, and valance style. Fabric turned width for height (railroaded) may curl along its edge. This is not a defect in the product.

Only the large cassette valance is available for the dual shade. Small and medium cassette valances are not available.

## Lightweaves® Roller and Solar Shades: Dual Shades Maximum Shade Size 12-Volt Z-Wave Motor

| | Normal Fabric Orientation | | | | Fabric Turned Width For Height (railroaded) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Valance Type** | **12 Volt Motor No Cassette/ No Valance** | | **12 Volt Motor Large Cassette** | | **12 Volt Motor No Cassette/ No Valance** | | **12 Volt Motor No Cassette/ No Valance at Max Width** | | **12 Volt Motor Large Cassette at Max Length** | | **12 Volt Motor Large Cassette at Max Width** | |
| **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) |
| Allure | 91 | 131 | 91 | 131 | 95 | 98 | 95 | 98 | 95 | 98 | 95 | 98 |
| Arboretum BO | 72 | 108 | 73 | 101 | 75 | 84 | 89 | 82 | 75 | 84 | 89 | 82 |
| Arboretum LF | 90 | 136 | 91 | 121 | 82 | 84 | 96 | 82 | 82 | 84 | 96 | 82 |
| Banquet | 85 | 134 | 85 | 119 | 96 | 74 | 96 | 74 | 96 | 74 | 96 | 74 |
| Bravado BO | 74 | 90 | 75 | 82 | Not available | | | | | | | |
| Bravado LF | 79 | 110 | 80 | 99 | Not available | | | | | | | |
| Broadcast | 71 | 70 | 73 | 63 | 71 | 70 | 88 | 56 | 73 | 63 | 90 | 49 |
| Cambridge LF 76" (Ivory) | 77 | 144 | 77 | 144 | 86 | 68 | 101 | 66 | 86 | 68 | 101 | 66 |
| Cambridge LF 92" (Clay, Cocoa Bean, Inkwell, Misty, Off White, White) | 92 | 140 | 92 | 127 | 84 | 84 | 98 | 82 | 84 | 84 | 98 | 82 |
| Cambridge RD 76" (Ivory) | 77 | 109 | 72 | 114 | 79 | 68 | 93 | 66 | 79 | 68 | 93 | 66 |
| Cambridge RD 92" (Clay, Cocoa Bean, Inkwell, Misty, Off White, White) | 86 | 109 | 88 | 96 | 76 | 84 | 90 | 82 | 76 | 84 | 90 | 82 |
| Capri | 71 | 101 | 71 | 91 | Not available | | | | | | | |
| Chronicles | 85 | 89 | 71 | 98 | Not available | | | | | | | |
| Complex | 71 | 82 | 72 | 74 | Not available | | | | | | | |
| Conservancy BO | 57 | 84 | 59 | 74 | Not available | | | | | | | |
| Conservancy LF | 64 | 97 | 65 | 88 | Not available | | | | | | | |
| Consummate Silk | 78 | 119 | 78 | 106 | Not available | | | | | | | |
| Cumulus | 73 | 82 | 74 | 74 | Not available | | | | | | | |
| Ellington 1% | 61 | 97 | 62 | 88 | 61 | 97 | 75 | 79 | 62 | 88 | 77 | 69 |
| Ellington 3% | 77 | 82 | 64 | 91 | 77 | 82 | 77 | 82 | 64 | 91 | 79 | 72 |
| Ellington 5% | 68 | 82 | 56 | 91 | Not available | | | | | | | |
| Empire | 92 | 136 | 92 | 121 | 84 | 84 | 99 | 82 | 84 | 84 | 99 | 82 |
| Empirical | 93 | 123 | 93 | 123 | Not available | | | | | | | |

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.

# Size Considerations

This table provides the maximum shade size available by fabric, control type, and valance style. Fabric turned width for height (railroaded) may curl along its edge. This is not a defect in the product.

Only the large cassette valance is available for the dual shade. Small and medium cassette valances are not available.

## Lightweaves® Roller and Solar Shades: Dual Shades Maximum Shade Size 12-Volt Z-Wave Motor

| Valance Type | Normal Fabric Orientation | | | | Fabric Turned Width For Height (railroaded) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 Volt Motor No Cassette/ No Valance | | 12 Volt Motor Large Cassette | | 12 Volt Motor No Cassette/ No Valance | | 12 Volt Motor No Cassette/ No Valance at Max Width | | 12 Volt Motor Large Cassette at Max Length | | 12 Volt Motor Large Cassette at Max Width | |
| **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) |
| Emporium (All Others) | 74 | 114 | 75 | 104 | Not available | | | | | | | |
| Emporium (Bookplate White) | 89 | 113 | 74 | 125 | Not available | | | | | | | |
| Emporium (Sepia Snapshot) | 73 | 111 | 74 | 103 | Not available | | | | | | | |
| Essential | 70 | 144 | 70 | 144 | 80 | 124 | 80 | 124 | 80 | 124 | 80 | 124 |
| Exposition | 76 | 64 | 77 | 58 | Not available | | | | | | | |
| Gleam | 77 | 102 | 79 | 90 | Not available | | | | | | | |
| Guildhall | 70 | 87 | 70 | 85 | Not available | | | | | | | |
| Harmony | 92 | 124 | 92 | 112 | Not available | | | | | | | |
| Herald | 92 | 136 | 92 | 121 | 84 | 84 | 99 | 82 | 84 | 84 | 99 | 82 |
| Merit | 76 | 88 | 63 | 97 | Not available | | | | | | | |
| Momentum | 74 | 76 | 75 | 69 | Not available | | | | | | | |
| Monticello | 72 | 68 | 73 | 61 | 72 | 68 | 89 | 54 | 73 | 61 | 91 | 47 |
| Opulent | 88 | 133 | 88 | 133 | Not available | | | | | | | |
| Paradigm | 76 | 76 | 77 | 69 | Not available | | | | | | | |
| Paragon | 76 | 85 | 63 | 95 | Not available | | | | | | | |
| Plexus 1% | 69 | 70 | 70 | 63 | 69 | 70 | 85 | 56 | 70 | 63 | 87 | 49 |
| Plexus 3% | 69 | 74 | 71 | 66 | 69 | 74 | 86 | 59 | 71 | 66 | 88 | 52 |
| Plexus 5% | 69 | 82 | 71 | 72 | 69 | 82 | 85 | 66 | 71 | 72 | 87 | 58 |
| Prairie | 90 | 119 | 92 | 106 | Not available | | | | | | | |
| Prodigy | 56 | 70 | 58 | 63 | Not available | | | | | | | |
| Providence BO | 56 | 97 | 57 | 88 | Not available | | | | | | | |
| Providence LF | 76 | 93 | 77 | 82 | Not available | | | | | | | |
| Quintessence | 65 | 90 | 66 | 82 | Not available | | | | | | | |
| Reaction | 85 | 89 | 71 | 98 | Not available | | | | | | | |
| Renaissance | 92 | 140 | 92 | 133 | Not available | | | | | | | |
| Resolve | 71 | 97 | 73 | 87 | Not available | | | | | | | |
| Riverbend | 72 | 74 | 72 | 67 | Not available | | | | | | | |
| Rujin | 72 | 31 | 72 | 27 | Not available | | | | | | | |
| Sabine | 85 | 85 | 71 | 91 | Not available | | | | | | | |

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.

# Size Considerations

This table provides the maximum shade size available by fabric, control type, and valance style. Fabric turned width for height (railroaded) may curl along its edge. This is not a defect in the product.

Only the large cassette valance is available for the dual shade. Small and medium cassette valances are not available.

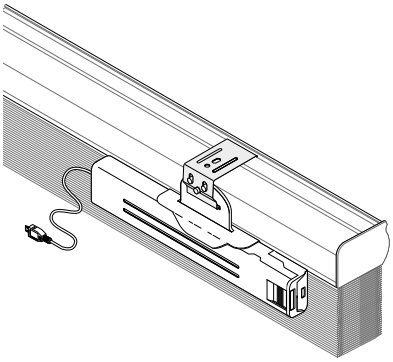
## Lightweaves® Roller and Solar Shades: Dual Shades Maximum Shade Size 12-Volt Z-Wave Motor

| Valance Type | Normal Fabric Orientation | | | | Fabric Turned Width For Height (railroaded) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 Volt Motor No Cassette/ No Valance | | 12 Volt Motor Large Cassette | | 12 Volt Motor No Cassette/ No Valance | | 12 Volt Motor No Cassette/ No Valance at Max Width | | 12 Volt Motor Large Cassette at Max Length | | 12 Volt Motor Large Cassette at Max Width | |
| **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) |
| Salutation | 80 | 114 | 81 | 104 | Not available | | | | | | | |
| Sanguine | 71 | 79 | 72 | 71 | Not available | | | | | | | |
| Santorini | 77 | 135 | 77 | 132 | Not available | | | | | | | |
| Sedona | 72 | 105 | 72 | 95 | 99 | 62 | 99 | 62 | 99 | 62 | 99 | 62 |
| Shadow | 84 | 93 | 71 | 97 | Not available | | | | | | | |
| Sheffield | 78 | 120 | 80 | 108 | Not available | | | | | | | |
| Standard Weave 1% | 83 | 85 | 70 | 89 | 83 | 85 | 83 | 85 | 70 | 89 | 85 | 75 |
| Standard Weave 3% | 84 | 85 | 71 | 87 | 84 | 85 | 84 | 85 | 71 | 87 | 86 | 75 |
| Standard Weave 5% | 83 | 93 | 70 | 99 | 83 | 93 | 83 | 93 | 70 | 99 | 86 | 82 |
| Standard Weave 10% | 84 | 98 | 71 | 100 | 84 | 98 | 84 | 98 | 71 | 100 | 86 | 86 |
| Suburban II | 72 | 144 | 72 | 144 | 100 | 62 | 100 | 62 | 100 | 62 | 100 | 62 |
| Tableaux | 73 | 58 | 74 | 52 | Not available | | | | | | | |
| Thesis | 70 | 87 | 70 | 79 | Not available | | | | | | | |
| Vanguard 1% | 83 | 85 | 70 | 89 | 83 | 85 | 83 | 85 | 70 | 89 | 85 | 75 |
| Vanguard 3% | 84 | 85 | 71 | 87 | 84 | 85 | 84 | 85 | 71 | 87 | 86 | 75 |
| Vanguard 5% | 83 | 93 | 70 | 99 | 83 | 93 | 83 | 93 | 70 | 99 | 86 | 82 |
| Venture | 62 | 87 | 63 | 79 | Not available | | | | | | | |
| Wayfarer | 92 | 144 | 92 | 144 | Not available | | | | | | | |
| Whitcomb | 91 | 113 | 76 | 125 | Not available | | | | | | | |
| Whitehall | 88 | 102 | 73 | 113 | 77 | 84 | 91 | 82 | 77 | 84 | 91 | 82 |

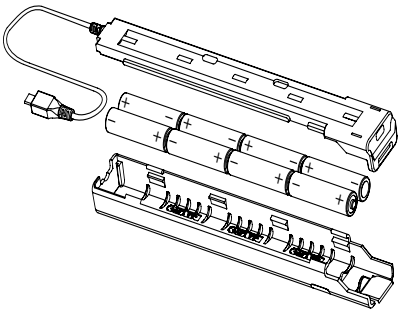
Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Options

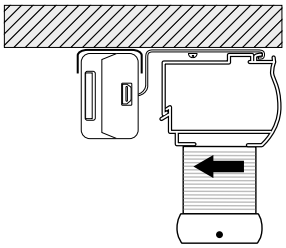
## Z-Wave Power Considerations



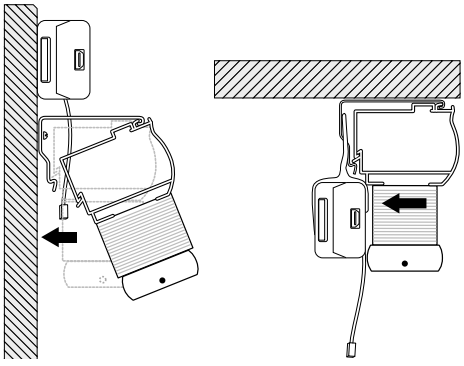
Cellular and Pleated
Battery Consideration



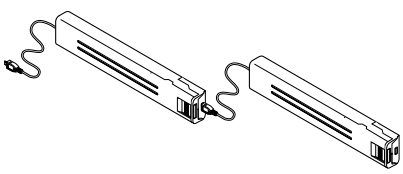
Battery Case (non-rechargeable solution)



Ceiling/Inside Mount



Outside Mount Inside Mount



Dual Battery Cases

Motors can be powered by non-rechargeable AA lithium batteries, rechargeable battery pack, plug-in transformer, or multi-motor power supply. Each shade requires a motor and appropriate power source.

**Power Considerations**
Larger shades consume more power while operating. When choosing the appropriate power source based upon the shade size we recommend the following power sources for the best performance.

| **Shade Size** square inches | **Non-Rechargeable Recommended Power Source** | **Rechargeable Battery Pack Estimated Battery Life Before Recharge* Single Pack Only** |
|---|---|---|
| 0 to 3,600 | Batteries (single or dual), plug-in, or multi-motor power supply | ~12 Months |
| 3,600 to 7,200 | Dual battery cases, plug-in, or multi-motor power supply | ~6-12 Months |
| >7,200 | Plug-in or multi-motor power supply only | ~6 Months or Less |

Dual battery cases are recommended for larger shades (over 3,600 square inches to extend battery life when using non rechargeable solutions.

Transformer power is recommended for larger shades (over 7,200 square inches to provide the best experience with regular shade operation.

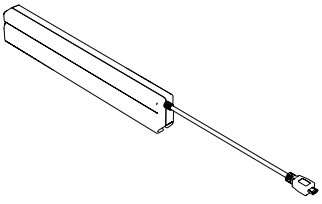
**Battery Case Considerations**
**Battery power recommended for maximum of 10 shades for best battery performance.**
Battery cases are installed in space outside of the product and can be a challenge to hide in some windows.

**For Inside Mounts**
- The cleanest and simplest method available for cellular and pleated shades is the integrated battery case hanger; this hanger attaches directly to a shade bracket to support the battery case while allowing the case to be removed for battery changes; additional recessed space will be needed

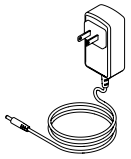
**For Outside Mounts**
- For outside mounts, battery cases can be installed above or to the side of the shade

**NOTE:** For best performance with non-rechargeable solutions, use only AA lithium batteries.

| | |
|---|---|
| Battery case dimensions: | 9¼" x 1¼" x ⅞" |
| Dual battery cases installed end-to-end: | require 21" of space (including connectors) |
| Battery case minimum recessed space (installed with bracket): | product minimum recessed space + ¾" |
| Rechargeable Battery Pack dimensions: | 8⁹⁄₁₆" x 1⁷⁄₁₆" x ¹⁵⁄₁₆" |



Rechargeable Battery Pack

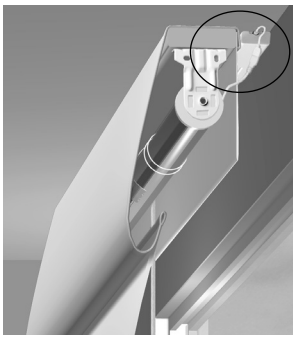


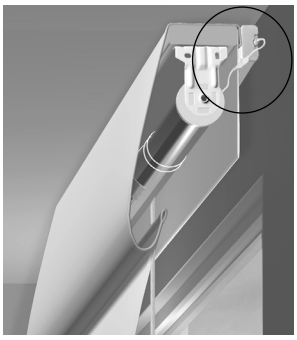
Li-Ion Charger

# Options

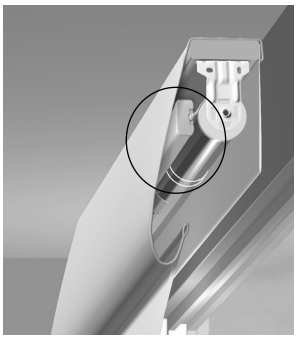
## Z-Wave Power Considerations

**Solar/Roller, Natural Shades, Artisan Roman, Layered, and Sheer Shade Battery Considerations**

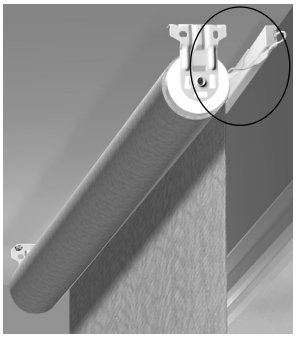




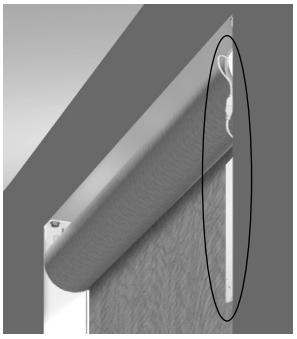
Artisan Roman/Natural Shades
Battery Pack
Mounted Behind



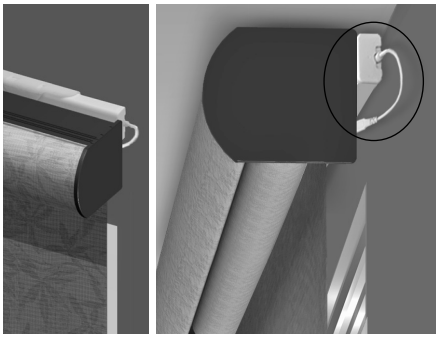
Artisan Roman/Natural Shades
Battery Pack
Mounted on Headrail



Solar Shades
Outside Mount
Battery Pack



Solar Shades
Inside Mount Battery Pack



Solar, Layered, and
Sheer Shades with Cassette
Battery Pack

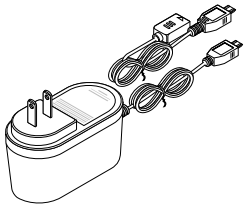
**Transformer power recommended for shade systems of any quantity.**

**DC Plug-in Transformer Considerations**

**A power outlet must be within cord length to power motor.**
Transformer includes 72" power cord and a 96" extension cable (power cord and extension cord cannot be cut to length or trimmed).

**A transformer is recommended on all shades over 7,200 square inches.**
Transformer dimensions
3¼" wide x 2" deep (not including plug) x 1½" tall (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.



DC Plug-In Transformer

**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.

**12 Volt:** 10-motor power supply available for all Graber® products and includes connectors.
**Dimensions:** 12" wide x 6" deep x 12" high.



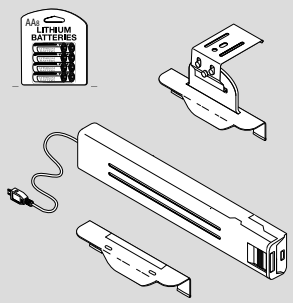
Multi-Motor Power Supply

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

# Options

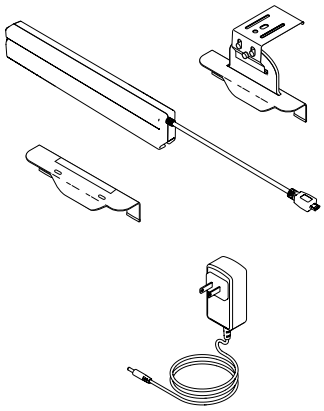
## Z-Wave Power Components

**NOTE: These power supplies are not compatible with Radio Technology Somfy motors.**



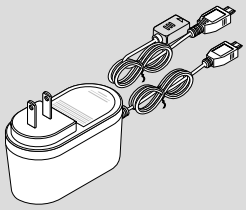

**Reloadable Battery Case**

- Reloadable: available with or without batteries
- Multiple mounting options provided
- Simple case design allows for easy battery replacement
- Recommend shades greater than 3,600 square inches utilize two single battery cases (dual cases) to extend battery life
- For shades exceeding 7,200 square inches we recommend a plug-in transformer
- For best performance, use only AA lithium batteries (each case requires 8 AA lithium batteries)
- 48" and 96" extensions available, maximum of 2 per motor
- Battery power recommended for maximum of 10 shades for best battery performance



**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
- Lithium-Ion charger cable is 6 feet
- Lithium-Ion charger has an LED that turns red to indicate charging and green to indicate fully charged
- Fully charging the rechargeable battery pack takes an average of 5 hours

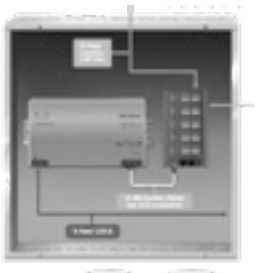


**Plug-In Transformer**

- Eliminates the need for batteries
- Small plug profile
- Cord can be concealed behind curtains or along trim
- 72" power cord and 96" extension cable (power cord and extension cable cannot be cut to length)
- 48" and 96" extensions available, maximum of 2 per motor
- We recommend shades greater than 7,200 square inches utilize a transformer to eliminate changing batteries frequently
- Available in white only

**Transformer Dimensions**

- 3¼" wide x 2" deep (not including plug) x 1½" tall (as you look at the plug in the outlet)
- Wire management components are not included with your motorized shade system
  - Refer to 12 volt power considerations for further details



**Multi-Motor Power Supply**

- Used when direct wiring the motorized window coverings
- Each motor is “home run” wired back to the multi-motor power supply using 16 gauge 2 conductor wire (must be purchased locally; Graber® does not supply)
- Power supply includes connectors
- Must be mounted indoors, NEMA rated
- Dimensions: 12" wide x 6" deep x 12" high
- Input: 100-120v AC / 200-240V AC at 3.3 amps
- Output: 10 amps; each shade port – 2 amp fused

# Z-Wave Control Options

## Z-Wave Radio Frequency (RF) Controls

**NOTE: These controls are not compatible with Radio Technology Somfy motors.**




**Z-Wave Standard Remote**

The standard remote is meant to control an individual shade (one to one). This helps assure simple, reliable control as well as simplifying the process of readjusting pre-set positions should it become necessary—without removing power from adjacent shades. However, the standard remote can be paired to multiple shades to provide group control (onsite programming step).

- Not available for sheer or layered shades
- Includes convenient mounting hardware
- Battery included—CR2430
- Available in white



**Z-Wave Plus Remote**

- Used to control single shades or a group of shades simultaneously
- Set and use an intermediate position for your shades
- Includes convenient mounting hardware
- Battery included—CR2430
- Available in white



**Z-Wave Plus Remote Decorator Wall Plate Kit (single-channel remote sold separately)**

- Provides attractive mounting option to match look of existing light switches
- Locates the remote where most convenient for the user
- Helps prevent misplacing of remote when not in use
- Mounts flush to wall with included anchors, no cutting of drywall needed
- Available in white




**Z-Wave Premium Remote** (12-channel)

- 12-channel remote, controls up to 24 shades
- Control single shades on each channel or group shade performing the same function
- Shades are added to the remote fro the manufacture. Channel assignment will need to be done at time of install.
- Convenient display provides easy programming
- Set and use an intermediate position for your shades
- Includes mounting wall plate and hardware; mounts to wall with anchors (see multi-channel remote mounting options)
- Batteries included—2 AAA
- Available in white






**Graber Motorization App and Gateway**

- Controls up to 30 Z-wave devices (shade motors and remotes)
- Average Home Coverage: appox. 2,500 square feet depending on a variety of factors including number of walls and material of walls
- Mulitple gateways can be added to an account on the Graber Motorization App to extend coverage and number of devices
- Control single shades individually with the abiltiy to group shades in rooms for additional functionality
- Integrate directly with Amazon Alexa and Google Assistant for voice control
- Create routines to control multiple shades with the ability to also set timers
- Set and use favorite positions
- Advanced settings allow for easy control of limits and roll direction
- Graber Motorization app downloadable for free from the App Store and Google Play
- Compatible with Apple and Android devices
- Gateway and Adapter (shown in the image to the left) are sold together. The gateway and adapter must be plugged into a constant source of power
- Requires a 2.4Ghz, password protected, Wi-Fi network
- Multiple users can be added to an account with the option to assign different permission levels

GRABER®

Graber is a brand of Springs Window Fashions, the Best Experience Company

Graber and the Graber logo are registered trademarks of Springs Window Fashions, LLC.

(08/20)|S20-88015

GRABER

**Graber Z-Wave Motorization**

DESIGNER US Price List — Effective FEBRUARY 2020

# Z-Wave Motorization

See product information guide for illustrations of power and control items listed below. Select motor package and add to price of shade.

## Motor Package Pricing

### Includes motor, power source, and standard remote

Order Entry: 12V Z-Wave Motor with Remote

Motor packages include the Standard Remote for all shade types excluding sheer and layered shades. The Plus Remote single-channel is supplied with sheer and layered shade packages.

| | |
|---|---|
| **Standard Remote and Rechargeable Battery Pack (charger sold separately)** | 658 |
| **Standard Remote and Single Non-Rechargeable Reloadable Battery Case (filled)** (Includes 8 AA lithium batteries) | 582 |
| **Standard Remote and Single Non-Rechargeable Reloadable Battery Case (empty)** | 518 |
| **Standard Remote and DC Plug In Transformer (includes 96" (243.8 cm) extension cable)** | 582 |
| Dual cases recommended for shades over 3,600 square inches to extend battery life. | |
| **Standard Remote and Dual Non-Rechargeable Reloadable Battery Case (filled)** (Includes 16 AA lithium batteries) | 692 |
| **Standard Remote and Dual Non-Rechargeable Reloadable Battery Case (empty)** | 563 |

## Z-Wave Motor Pricing

See options section for descriptions and illustrations of items listed below.

For motorized lift dual shades, one (1) motor, and one (1) power source are required for each motorized shade (total of two motors and two power sources if both shades of the dual shade are motorized lift).

### A. Z-Wave Motor Pricing

**Add price of motor to blind or shade price.**

Order Entry: 12V Z-Wave Motor without Remote

| Motor Options | |
|---|---|
| **Cellular, Pleated, and Classic Roman Shades** | 384 |
| **Roller, Solar, Layered, Artisan Roman and Sheer Shades** | 384 |
| **Natural Shades*** | 384 |

*Motor on a natural shade is priced per panel and can be ordered with multiple shades on one headrail.

**NOTE:** For all other non-motorization options, see individual price list for specific blind or shade.

## B. Z-Wave Motorization Power Sources

**Choose one (1) battery option or one (1) transformer per motor.**

| 12-Volt Power Options | |
|---|---|
| **Battery Cases** | |
| **Single Non-Rechargeable, Reloadable Battery Case (empty)** | 45 |
| **Single Non-Rechargeable, Reloadable Battery Case (filled)** (Includes 8 AA lithium batteries) | 109 |
| Dual cases recommended for shades over 3,600 square inches (2.3 square meters) to extend battery life. | |
| **Dual Non-Rechargeable, Reloadable Battery Case (empty)** | 90 |
| **Dual Non-Rechargeable, Reloadable Battery Case (filled)** (Includes 16 AA lithium batteries) | 219 |
| **Other Power Options** | |
| **48" (121.9 cm) Extension Cable** | 20 |
| **96" (243.8 cm) Extension Cable** | 24 |
| **12 Volt DC Plug-In Transformer (includes 96" (243.8 cm) extension)** | 109 |
| **Multi-Motor Power Supply Kit** (Up to 10 motors per power supply) | 1122 |
| **12-Volt Rechargeable Power Options** | |
| **12-Volt Rechargeable Battery Pack** | 165 |
| **12-Volt 6 foot (1.9 m) Li-ion Charger** | 20 |

**NOTE:** For woven wood shades, surcharge is per panel.

## C. Z-Wave Motorization Controls

**Choose one or more remotes per order. Controllers are wire-free, battery and mounting hardware is included. App & Gateway are wire-free and do not require batteries.**

| Radio Frequency Remote Controls | |
|---|---|
| **Standard Remote** | 89 |
| **Plus Remote Single Channel** | 112 |
| **Plus Remote Decorator Wall Plate** | 17 |
| **Premium Remote Multi-Channel (includes wall mount and hardware)** | 245 |
| **Graber Motorization App and Gateway** | 300 |