# Motorized FlexShade® 50 DC
## Low-Voltage Motor with High Voltage Performance

> **FLEXSHADE MO**

*Please check all appropriate selections and attach room schedule with verified dimensions.*

## Single Roller Motorized Shade Options

**FABRIC SERIES:** _____

**COLOR NAME / NUMBER:** _____

**OPENNESS FACTOR:** _____

Please visit **Draper Fabric Options** for fabric colors and specifications.

### Select Number of Shades per Unit

- ☐ Single Roller *(Standard)*
- ☐ Dual Roller *(Supplemental Fabric & Hardware Sheet Required)*

> ***Please Note:*** If you are specifying a DUAL ROLLER FLEXSHADE, please complete the options BELOW and attach the **Motorized Dual Roller Fabric and Hardware Planning Sheet**.

### Select Motor Location

As seen from INSIDE the room facing the window. Also indicate on room schedule.

- ☐ Right Side *(standard)*
- ☐ Left Side

### Select 50 DC Motor

- ☐ 50 DC RTS Motor
- ☐ 50 DC 485 Motor

### Coupled Shades

- ☐ Yes *(How Many Fabric Panels?_____)*. Also indicate on room schedule.
- ☐ No

### Select Fabric Orientation

- ☐ Regular Roll *(from back of roller)*
- ☐ Reverse Roll *(from front of roller)*

### Select Fabric Attachment

- ☐ Standard
- ☐ Optional Spline Attachment

### Select Slat Style

- ☐ Closed Pocket - 1" *(25mm)* Elliptical *(standard)*
- ☐ Open Pocket - 1" *(25mm)* Elliptical
- ☐ Small Flat Exposed Hem Bar
- ☐ Large Flat Exposed Hem Bar
- ☐ Round Exposed Hem Bar
- ☐ 1 ³⁄₁₆" *(30mm)* Tube
- ☐ ⅝" *(16mm)* Tube
- ☐ None

## Select Single Roller Hardware

- ☐ Brackets Only
  - ☐ Wall
  - ☐ Ceiling
- ☐ Endcaps Only
- ☐ Endcaps w/Fascia
- ☐ Surface Headbox *(Fascia & Top/Back Cover)*
- ☐ Headbox
  - ☐ Pocket Style Headbox
  - ☐ Type D Pocket w/Tile Lip *(White; not available w/ 3" roller)*
  - ☐ Custom Headbox
- ☐ Wall Clip
  - ☐ With Ceiling Tile Lip
  - ☐ Without Ceiling Tile Lip
- ☐ Closure Panel for Wall Clip, Type D Pocket or Custom Headbox
  - ☐ 1 ½" *(38mm)*
  - ☐ 3" *(76mm)*
  - ☐ 5" *(127mm) (For Wall Clip and Custom Headbox Only)*
- ☐ Light Gap Reduction Hardware
  - ☐ "L" Angle
  - ☐ "U" Channel
  - ☐ "H" Channel
  - ☐ Channel Liners

## Select Hardware Finish *(does not apply to Type "D" Pocket)*

- ☐ Clear Anodized *(standard)*
- ☐ White
- ☐ Bronze
- ☐ Black
- ☐ Ivory
- ☐ Custom *(Contact Draper)*

## Available Sizes:

| WIDTH: | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2' | | | | | | | | | | | | | ▓ |
| 3' | | | | | | | | | | | | | ▓ |
| 4' | | | | | | | | | | | | | ▓ |
| 5' | | | | | | | | | | | | ▓ | ▓ |
| 6' | | | | | | | | | | | | ▓ | ▓ |
| 7' | | | | | | | | | | | ▓ | ▓ | ▓ |
| 8' | | | | | | | | | | | ▓ | ▓ | ▓ |
| 9' | | | | | | | | | | | ▓ | ▓ | ▓ |
| 10' | | | | | | | | | ▓ | ▓ | ▓ | ▓ | ▓ |
| 11' | ▓ | ▓ | ▓ | ▓ | | | | | ▓ | ▓ | ▓ | ▓ | ▓ |
| 12' | ▓ | ▓ | ▓ | ▓ | | | | | ▓ | ▓ | ▓ | ▓ | ▓ |
| 13' | ▓ | ▓ | ▓ | ▓ | | | | | ▓ | ▓ | ▓ | ▓ | ▓ |
| 14' | ▓ | ▓ | ▓ | ▓ | | | | | ▓ | ▓ | ▓ | ▓ | ▓ |

*HEIGHT* (vertical axis)

*\* Sizes requiring large endcaps/brackets will vary according to fabric.*

☐ Small endcaps/brackets and 2" *(51 mm)* roller are recommended.

▓ Large endcaps/brackets and 3" *(76mm)* roller may be required.

**PROJECT:**_____

_____

**ARCHITECT:**_____

**CONTRACTOR:**_____

**SUPPLIER:**_____

**DATE:** _____ **REVISED:** _____

## Specifications

**EQUIPMENT**

**SONESSE ULTRA 50 RS485 24V DC INTELLIGENT TECHNOLOGY ELECTRIC OPERATOR:** Drive unit inside roller, instantly reversible, lifetime lubricated. Right-hand motor location standard; left-hand available. Limit switches adjustable using Limit Setting Tool *(C156.241)* or dry contact closure. Regulated power supply required. Sound level: ≤ 38 dBA. Draws 1.5 amps.

**SONESSE ULTRA 50 RTS 24V DC RADIO TECHNOLOGY ELECTRIC OPERATOR:** Drive unit inside roller, instantly reversible, lifetime lubricated. Right-hand motor location standard; left-hand available. Built-in radio receiver. Limit switches adjustable using wall switch or remote control. Regulated power supply required. Sound level: ≤ 38 dBA. Draws 1.5 amps.

**HARDWARE**

**ROLLERS:** Extruded aluminum or steel. Roller assembly easily removable.

**OPTIONAL FABRIC ATTACHMENT:** Fabric attached to roller tube with spline fabric attachment method. Allows for removal of fabric panel without removal of roller assembly.

**MOUNTING BRACKETS:** 1018 plated steel stamping. 2 SIZES: 1 ⅝" *(41mm)* and 2 ¼" *(57mm)*. Styles for mounting to wall, ceiling, or jamb. Brackets do not require additional adapters.

**ROLLER IDLER ASSEMBLY:** Type ⅚ injected molded nylon and a zinc-plated cold rolled steel pin. Sliding pin for easy installation and removal of the roller.

**SLAT:** Aluminum, min. ⅛" x 1" *(3 x 25mm)*, encased in heat seamed hem.

**ENDCAPS:** 1028 steel stamping. 2 SIZES: 3¼" x 3¾" *(83x95mm)* and 4½" x 4½" *(114x114mm)*. Complete with adapter roller bracket. Installs to wall, ceiling, or jamb. Accepts fascia or headbox.

**ENDCAP COVERS:** Plastic covers snap onto endcaps. Available in silver, ivory, bronze, black, or white to match fascia.

**FASCIA:** "L" cover of extruded aluminum, .060 *(1.5mm)* wall. Fascia snaps onto endcaps. Clear Anodized *(standard)*, black, white, ivory, or bronze powder coat finish available. Continuous fascia available with coupled units.

**SURFACE HEADBOX:** Consists of fascia, L-shaped back/top cover. Endcaps slide into extrusion without exposed fasteners.

**POCKET HEADBOX:** Optional, for pocket installation, includes a U-shaped back/top/front cover with removable bottom closure panel. SMALL SIZE: 3 ⅞" x 3 ¹⁵⁄₁₆" *(98x100mm)*. LARGE SIZE: 4 ¹¹⁄₁₆" x 4 ¹¹⁄₁₆" *(119x119mm)*. Some exposed fasteners required.

**TYPE D POCKET:** Type D Shade Pocket, to be fabricated of steel for perimeter installation. Accepts FlexShades installed with ceiling brackets. Finished in white paint. 5" x 5 ⅜" x .125" *(127x136x3mm)* with ⅞" *(22mm)* tile support lip & removable bottom closure.

**LIGHT GAP REDUCTION HARDWARE:** Extruded Aluminum. Accepts edges of fabric, prevents light gaps. Interior of channel provides for use of flat head screws.
"L" ANGLE: ¾" x 1" x 12'3" *(1.9x2.5x373cm)*; 1" x 2¾" x 16' *(2.5x7x488cm)* or cut to length.
"U" CHANNEL: 1" x 2½" x 16' *(2.5x6.3x488cm)* or cut to length.
"H" CHANNEL: 1" x 5" x 16' *(2.5x12.7x488cm)* or cut to length.

**COUPLER ASSEMBLY:** Zinc plated steel Coupler Shafts shall be retractable into coupler assembly for ease of installation and to lock units in place. Zinc plated steel coupler brackets shall have spherical OD bearings allowing for misalignment of the mounting brackets of up to 1.25-degrees. One motor or crank operator to drive additional shade rollers.

**DOWNLOADABLE 3-PART SPECIFICATIONS:** available at www.draperinc.com.

*Please note:* Dimensions of rollers, operators, and hardware at manufacturer's discretion.

## Hardware Selections

*Please Note:* Brackets and endcaps have the attachment points for mounting a Motorized FlexShade. Optional fascia and headbox have a thickness of ¹⁄₁₆" *(1.5mm)*.
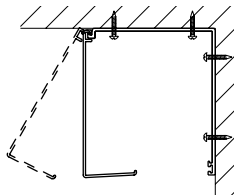
**Wall Mounting Bracket**

**Ceiling Mounting Bracket**

**Fascia with Ceiling / Wall Mounting Endcaps**
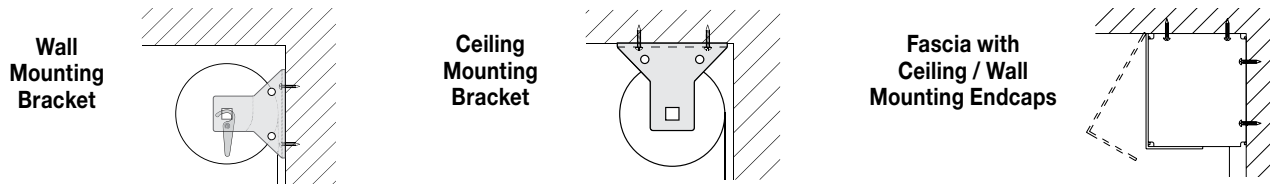
## Headbox Installation Options
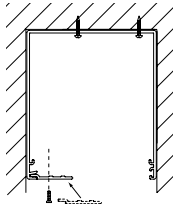
**Surface Headbox**
Consists of:
• Fascia,
• Back/Top Cover
• Ceiling/Wall Endcaps

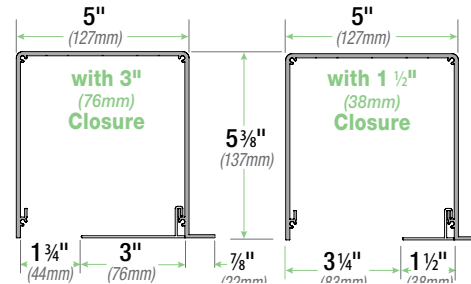**Pocket Style Headbox**
Consists of:
• Extruded pocket
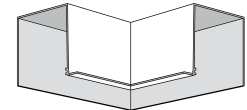• Bottom closure panel
• Ceiling/Wall Endcaps

**Type D Pocket**
Consists of:
• Extruded aluminum pocket.
• A lip supports lay-in ceiling.
• Pre-welded corners and ends available.
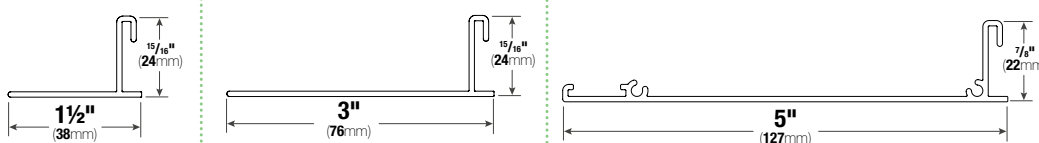• Ends with or without tile support lip.

5" *(127mm)*  with 3" *(76mm)* Closure

5" *(127mm)*  with 1 ½" *(38mm)* Closure

5⅜" *(137mm)*

1¾" *(44mm)*  3" *(76mm)*  ⅞" *(22mm)*

3¼" *(83mm)*  1½" *(28mm)*

**Typical pre-welded corner section** *(not to scale)*

## Closure & Wall Clip Options

**Closure Options**

1½" *(38mm)*  ¹⁵⁄₁₆" *(24mm)*

3" *(76mm)*  ¹⁵⁄₁₆" *(24mm)*

5" *(127mm)*  ⅞" *(22mm)*

**Wall Clip Options**

**With Tile Lip**
³⁄₁₆" *(5mm)*  ⅞" *(22mm)*  1¾" *(44mm)*

**Without Tile Lip**
³⁄₁₆" *(5mm)*  1¾" *(44mm)*
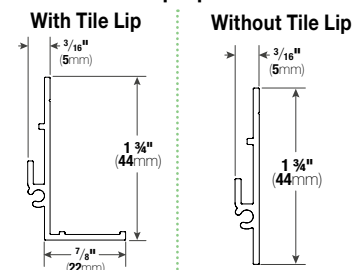
**Spline Fabric Attachment**
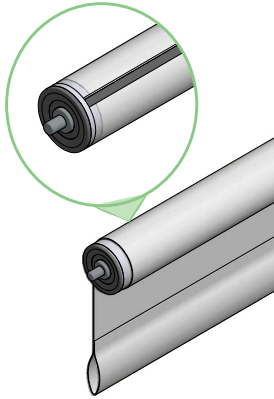
**Endcap Covers**
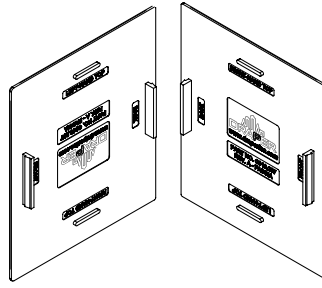
**"U" Channel**
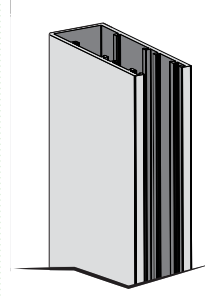
**"L" Angle**

**"H" Channel**

## Motorized FlexShade Dimensions

Fascia Overall Width includes plastic endcap covers. Pair adds ⅛" (3mm) to Overall Width of Small Hardware; ³⁄₁₆" (5mm) to Overall Width of Large Hardware).
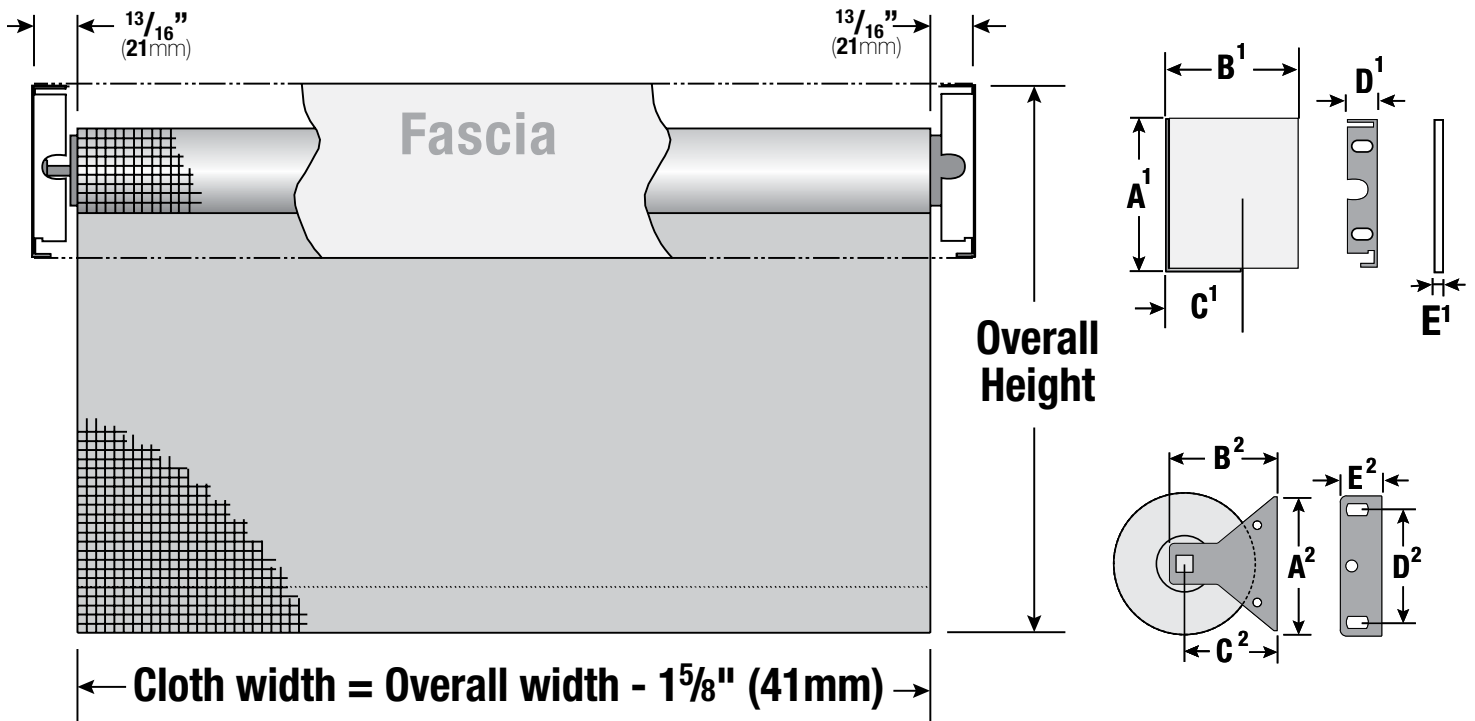
$13/16$" (**21**mm)

$13/16$" (**21**mm)

Fascia

$B^1$

$D^1$

$A^1$

$C^1$

$E^1$

**Overall Height**

$B^2$

$E^2$

$A^2$
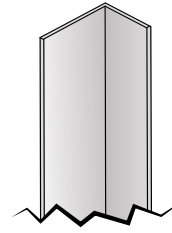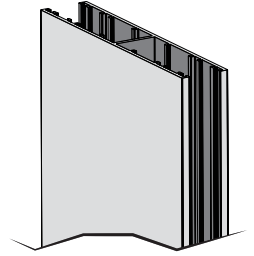
$D^2$

$C^2$

**Cloth width = Overall width - 1⅝" (41mm)**

| HEADBOX WITH ENDCAPS* | SMALL | | LARGE | |
|---|---|---|---|---|
| $A^1$ | 3 ¹⁵⁄₁₆" | 100mm | 4 ¹¹⁄₁₆" | 119mm |
| $B^1$ | 3 ⁷⁄₈" | 87mm | 4 ¹¹⁄₁₆" | 119mm |
| $C^1$ | 1 ½" | 38mm | 1 ⅝" | 41mm |
| $D^1$ | ⅝" | 16mm | ⅝" | 16mm |
| $E^1$ | ¹⁄₁₆" | 1.6mm | ³⁄₃₂" | 2.4mm |

| ENDCAPS WITH FASCIA | SMALL | | LARGE | |
|---|---|---|---|---|
| $A^1$ | 3 ⅞" | 98mm | 4 ⅝" | 117mm |
| $B^1$ | 3 ⅜" | 86mm | 4 ⅝" | 117mm |
| $C^1$ | 1 ½" | 38mm | 1 ⅝" | 41mm |
| $D^1$ | ⅝" | 16mm | ⅝" | 16mm |
| $E^1$ | ¹⁄₁₆" | 1.6mm | ³⁄₃₂" | 2.4mm |

| BRACKETS | SMALL | | LARGE | |
|---|---|---|---|---|
| $A^2$ | 2½" | 64mm | 3 ¼" | 83mm |
| $B^2$ | 2" | 51mm | 2 ⅝" | 67mm |
| $C^2$ | 1⅝" | 41mm | 2 ¼" | 57mm |
| $D^2$ | 2" | 51mm | 2⅝" | 67mm |
| $E^2$ | ¾" | 19mm | ¾" | 19mm |

*For Fascia, Subtract ¹⁄₁₆" (1.6mm) from dimensions A and D*

## FlexShade Components

**Motorized FlexShade®
with DC50 24V DC Operator**

DC50
Motor
Plate

Brackets
Only (R)

**Endcap
Cover (R)**

DC50
Motor

**Endcap (R)
for Fascia**

**Retainer Clip**

**Brackets
Only (L)**

**Endcap (L)
for Fascia**

**Fascia**

**Endcap
Cover (L)**

## Wiring Diagrams

**Controls & System Overview**
Sonesse 485 - 24V DC Motors

Multiple Motors

24V MOTOR   24V MOTOR   24V MOTOR

RS485
Intelligent
Switch

24V
10 Motor
Power Panel

Bus Power
Supply

110-120V Line

110V
Outlet

| | Maximum Wiring Distance | |
|---|---|---|
| | 240 ft with 14/2AWG | |
| 14/2 Power 24V DC | 150 ft with 16/2AWG | |
| | 100 ft with 18/2AWG | |

Data Bus 22/2
Twisted Pair

**Dashed Wiring
by Electrician**

**Controls & System Overview**
Sonesse RTS 24V DC Motors

Single Motor

24V MOTOR

Telis 1
RF Remote

DecoFlex
Wire Free Keypad

24V
Transformer

110V
Outlet

Multiple Motors

24V MOTOR   24V MOTOR   24V MOTOR

Situo
RF Remote

DecoFlex
Wire Free Keypad

24V
Power Panel
5, 10, 15, 20

110-120V Line

| | Maximum Wiring Distance | |
|---|---|---|
| | 240 ft with 14/2AWG | |
| 14/2 Power 24V DC | 150 ft with 26/2AWG | |
| | 100 ft with 18/2AWG | |

**Dashed Wiring
by Electrician**

**Data Cable Pin-Out - RJ45 Connector**

1 - ORANGE/WHITE
2 - ORANGE
3 - GREEN/WHITE
4 - BLUE
5 - BLUE/WHITE
6 - GREEN
7 - BROWN/WHITE
8 - BROWN

**WARNING: DO NOT use Pass-Through Connectors!**

**DRAPER®**