

SmartScreen Motorized Recessed

Comprehensive Guide



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Recommendations & Resources

1. Read this guide before first installation.
2. Bookmark these links. Review “SmartScreen Motorized” occasionally as details and specifications are subject to change:
[Technical Resources | Wizard Screens | Premium Retractable Screens for Doors, Windows and Large Openings](#)
[Install Guides | Wizard Screens | Premium Retractable Screens for Doors, Windows and Large Openings](#)
3. Learn about **Somfy Maestria 50 RTS** and **Alpha WSER50 30/21** motors.



Located in the “SharePoint Marketing Folder”, available from your Wizard rep.

DO NOT PROCEED WITH INSTALLATION BEFORE COMPLETING THE ABOVE.

4. Call **1-888-949-3667**
 - a. to schedule an installation training session
 - b. if problems arise during installation
5. Wizard Order Portal
<https://portal.wizardscreens.com/>

Preliminary Planning

Min. width	= 38"
Max. width	= 30'
Max. width (vinyl)	= 25'
Max. height	= 16'

*Maintain communication between builder and architect during the installation process to ensure nothing changes in regards to:

- where and how the u-channel & brackets will be installed;
- cavity remains clear in the specified minimum dimensions; and
- space for a removable access panel (if applicable).

1) Note planned opening size(s) (W x H).

2) Component Table

Selectable					Dimensional Threshold	
Screen Material	Roll-tube	Housing	Motor	Idler	Width	Height
Mesh & Fabric	4"	5 ½"	Maestria 525 or WSER50 30/21	Standard 2 1/8"	38" to 22'6"	& less than 12'
Mesh & Fabric	5 ¾"	7"	Maestria 550	Double 7 ¼"	22'6" to 30'	& 12' to 16'
Vinyl	See "Dim. Thresh."		Maestria 550	See "Dim. Thresh."	38" to 25'	Up to 16'

***NOTE: If size is *beyond* threshold in first row, some/all of first row items will *not* be selectable.**

For more details, see step 5 "ORDERING PROCESS"

3) Cavity Considerations

See "Builder Considerations": [Install Guides](#).

4) Graded floor (I.e., sloped patio)

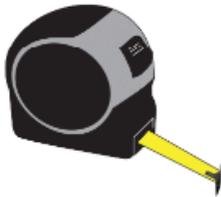
- It can be requested the screen be cut at the bottom to a **maximum 1 ½" grade**.
- Mohair can accommodate an **extra 1" grade**.

*****BRACKETS MUST BE LEVEL!*****

Measurements

1) Tools

Tape Measure



Pencil



2-way Laser Level Kit



Laser Distance Measure



2) Establish **plumb** and **level** marks. Then determine dimensions.

*See “**Standard Comprehensive Guide**”, pages 6 & 7, **left** column.
VERY IMPORTANT PRINCIPLES!

3) Deductions:

a) Width

$\frac{1}{4}$ " Safety = $-\frac{1}{4}$ " **Width Deduction**

This allows some space to shim u-channels plumb and straight.

b) Height

- i. Record **largest** height measurement from **top of future-brackets** to **floor**.
- ii. If floor is *graded*, measure from **top of future-brackets** to **floor** at **left** and **right** sides. Record both measurements.
 - * It can be requested the screen be cut at the bottom to a **maximum 1 ½"** grade.
 - **Mohair can accommodate an **extra 1"** grade.

*****BRACKETS MUST BE LEVEL!*****

Ordering Process

- 1) Dimensions
See “**Standard** Comprehensive Guide”.
- 2) Colors of components
See “**Standard** Comprehensive Guide”.
- 3) Bottom-bar Seals
See “**Standard** Comprehensive Guide”.
- 4) Screen Material
See “**Standard** Comprehensive Guide”.
- 5) Motor
See “**Standard** Comprehensive Guide”.
- 6) Component Table

Selectable					Dimensional Threshold	
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***NOTE:** If size is *beyond* threshold in first row, some/all of first row items will *not* be selectable.

If the project has multiple openings of varied sizes, and some require the larger roll-tube, consider the **screen retraction speed**:

Assume some smaller openings only require 4” roll-tubes and some larger openings require 5 ⅜” roll-tubes.

- A 4” roll-tube will retract faster than a 5 ⅜” roll-tube. Order the 5 ⅜” roll-tube and Somfy Maestria 550 motor for *all* units.

- 7) Remotes
See “**Standard** Comprehensive Guide”.
- 8) Optional Accessories
See “**Standard** Comprehensive Guide”.

- 9) Other Special Requests:
See "**Standard** Comprehensive Guide".

Field Preparation

Before installing the SmartScreen Motorized units

1) Tools

- a) Cordless drill
- b) Desired driver bits
- c) Drill bits
- d) Phillips screwdriver
- e) 9-in-1 painter's tool
- f) 2-way laser level
- g) Tape measure
- h) Laser distance measure
- i) Scissors
- j) Needle nose pliers
- k) Reverse action clamping pliers
- l) Duct tape (if floor is graded)
- m) Dry silicone spray
- n) Caulking gun with caulk
- o) Chop saw with non-ferrous blade
- p) Appropriate fasteners. Determine what material the components will be fastened to (e.g. lumber, metal, plywood, etc.) **Min. 2" long.**

2) Contents of Shipment per unit

**Contents may vary depending on type or style ordered*

- a) Assembled roll-tube, motor, pivot (or double idler system), screen, and power cord.
- b) Brackets
- c) Bottom-bar with seal
- d) Probes (x2).
- e) Recessed u-channels (x2).
- f) Recessed tracks with clips (x2).
- g) Remote(s).

3) Package and unit visual inspection

- a) If the **packages** are damaged, the **unit may still be free of damage.**
You must mark the external damage on the waybill.

- b) Report any potential damage to Wizard Screens **immediately** with pictures.

4) Unpackaging

- a) *Carefully* unpackage the contents. **Do not cut screen! Do not scratch components!**



- b) Report any visible damage to Wizard Screens ***immediately*** with pictures.

Installation

*Minimum 2 people recommended.

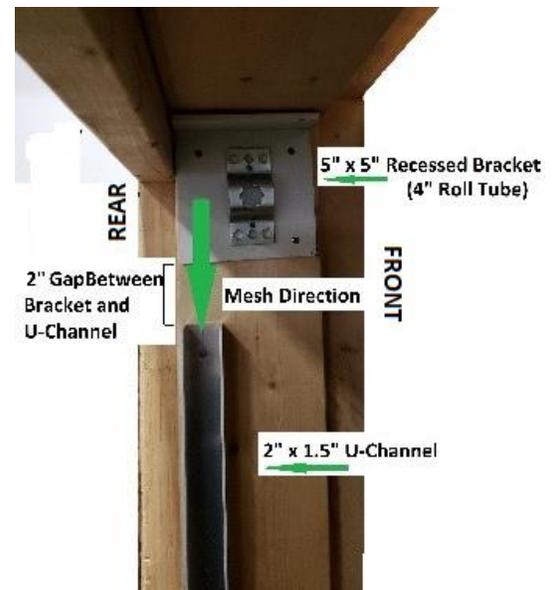
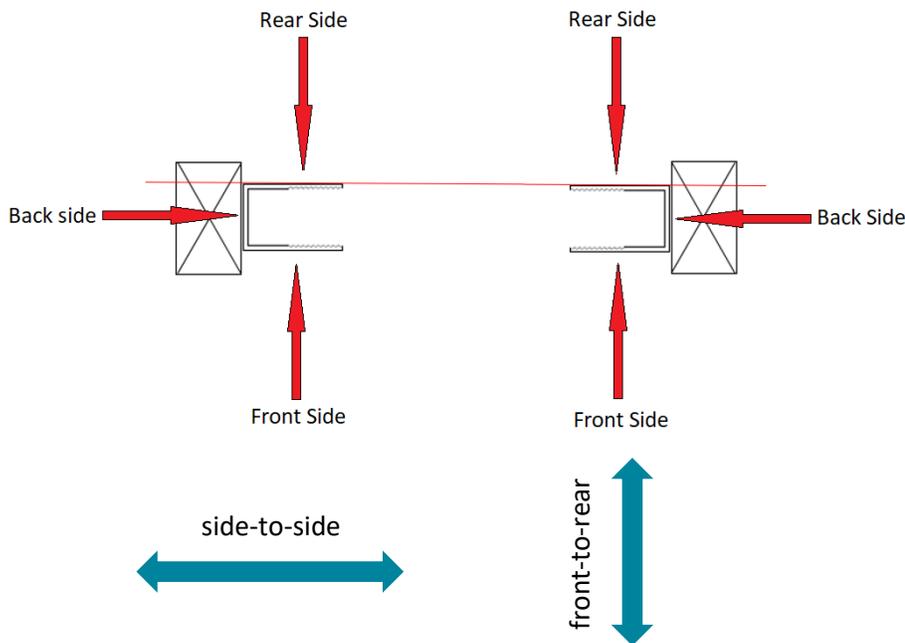
1) Affix brackets

- a) Affix brackets aligned to plumb & level marks established during measurement phase.

*Back-of-bracket to back-of-bracket distance *must be* order width.

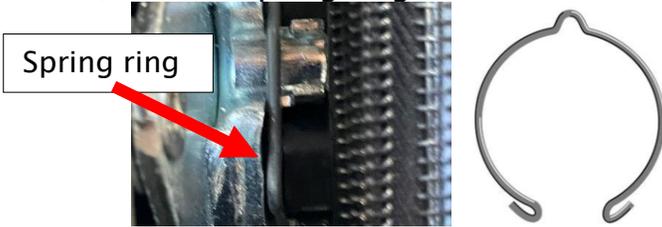
2) Affix recessed U-channels

- a) Mark to desired lengths and cut.
- b) Pre-drill holes 2" from top & bottom. Then every 36" O/C.
- c) Fasten U-channels to surface like illustration.
 - i) Plumb front-to-rear & side-to-side. Shim if necessary.
 - ii) U-channels aligned with back & rear of brackets.



3) Install rolled screen

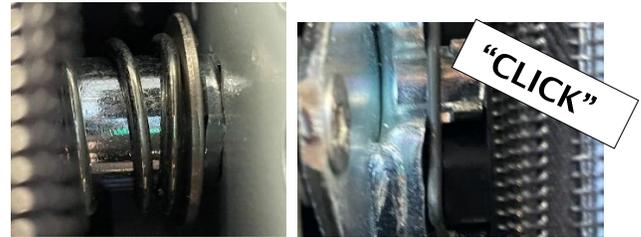
a) Attach spring ring onto crown.



b) Insert the pivot.



c) Compress pivot end, then seat motor end into crown. ***There must be a distinct *click* sound.**



***For Alpha motors, put spring ring onto crown *after* rolled screen is seated.**

4) Motor programming

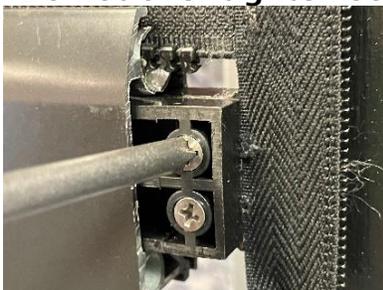
See "**Standard Comprehensive Guide**".

5) Install bottom-bar

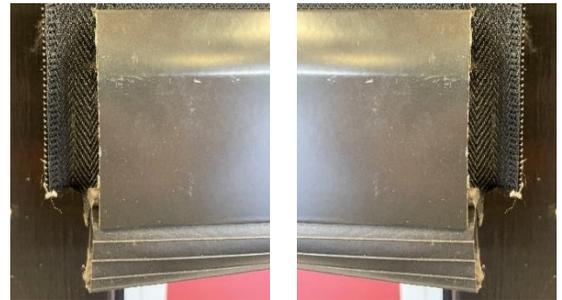
- a) Send screen to comfortable height.
- b) Feed bottom-bar along zipper.



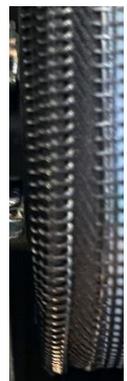
- c) Manually screw probes onto tabs until they pinch fully.
***Do not over-tighten screws.**



- a) Flush seal at one end of bottom-bar and cut excess off at other. Cut excess zippers off just beyond tabs.



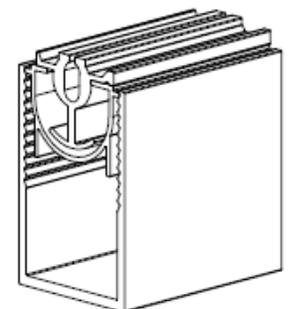
- d) Send screen to upper limit, ensuring zipper stacks well.



6) Tracks

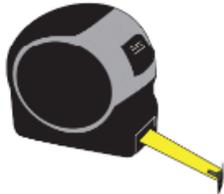
- a) Mark tracks 1" longer than U-channels and cut. Label each track.
- b) Starting with one track:
 - i) Feed track along zipper.
 - ii) Position track in U-channel where zipper lies and plumb.
 - iii) Drop screen to lower limit.
 - iv) If necessary, adjust track to where zipper lies in relation to roll-tube. Ensure plumb.
 - v) Send screen to upper limit, ensuring zipper stacks well.

- c) Install other track.



d) Ensure tracks are **parallel, plumb, and straight.**

Tape Measure



2-way Laser Level Kit



e) Spray dry silicone along zipper grooves.



7) Fine-tune screen limits

See “**Standard Comprehensive Guide**”.

8) Route Cord and Re-attach Plug

See “**Standard Comprehensive Guide**”.

9) Finishing Touches

- a) Affix remote’s wall mount **inside** because it is sensitive to moisture (IP 20 rating).
Hang remote.



*Somfy Telis 1 Channel shown

See “Homeowner Training”:
[Install Guides](#).