SEDAR

— Since 1892 —

RB 16-82 Roller Blind Louvo Elite Wire Free Motorized System®

Technical Document

About this Document

This document is a detailed technical resource for **the RB 16-82 Roller Blind Louvo Elite Wire Free Motorized System®**, offering in-depth specifications to aid engineers, installers, and architects in understanding the product's technical intricacies.

To access additional system documents, please click on the links provided below or scan the accompanying QR code for immediate redirection to the relevant document.

[16-82 Documents](#)   [Roller Blinds Fabric Specifications](#)

For inquiries about **the RB 16-82 Roller Blind Louvo Elite Wire Free Motorized System®** or to utilize our Projects Department's bespoke services, please contact us using the QR code below for guidance in transforming your spaces with innovation and style. Our team is ready to assist with product details, installation, and custom solutions, ensuring your design needs are expertly met.

Email: projects@sedarglobal.com
Projects Hotline: [+971502313453](tel:+971502313453)

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System Description

The **Sedar RB 16-82 Roller Blind Louvo Elite Wire Free Motorized Rail System®** is a versatile solution for residential, commercial, and large venues. The system incorporates a 40 mm pipe with a louvo elite cassette that shields the mechanism from dust and damage, reducing maintenance, and extending system life. This system is remote controlled and automation compatible powered by Somfy Sonesse® 30 WireFree RTS (Li-ion) that allows for wireless radio control of motorized window covering.

This system has a vast selection of fabric choices, offering custom-printed blinds for a personal touch. It is easy to install and compatible with substrates such as concrete, wood, reinforced gypsum, and metal.

This product comes with the following warranties:

Products	Warranties
Sunscreen Fabric	10 years
Blackout Fabric	1 year
Non-Blackout Fabric	1 year
Motor and System	5 years

System Limitations

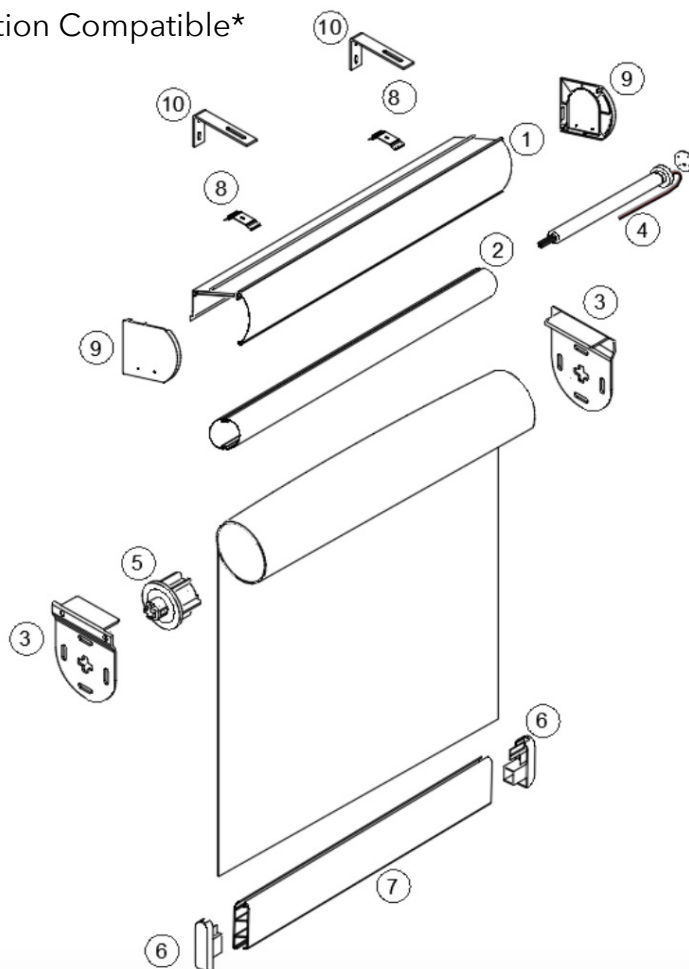| Description	Value
Tube	40 mm
Minimum Width	20 cm
Maximum Width	220 cm
Minimum Height	20 cm
Maximum Height	300 cm

Note: Larger dimensions are allowed through Ultrasonic Welding.

System Drawing

**System:** 16-82 Roller Blind Louvo Elite Wire Free Motorized System

Operation: Remote Controlled and Automation Compatible*

Note: Contact your system integrator for automation system.

Part No.	Description
1	16-82 Louvo Elite Cassette
2	Roller Blinds 40mm Tube - Aluminum
3	Bracket for RB 16-82 System - White (Inside Cassette)
4	Somfy Sonesse® 30 WireFree RTS (Li-Ion) Motor
5	RB 16-82 End Plug - White
6	Bottom Rail End Cap - White
7	Powder Coated Bottom Rail - White
8	Ceiling Brackets
9	Cassette Cover System Plastic One Set (2 pcs)
10	L Clip Brackets

Profile Drawings

Ø 40 mm
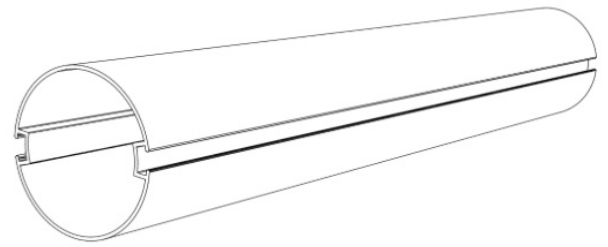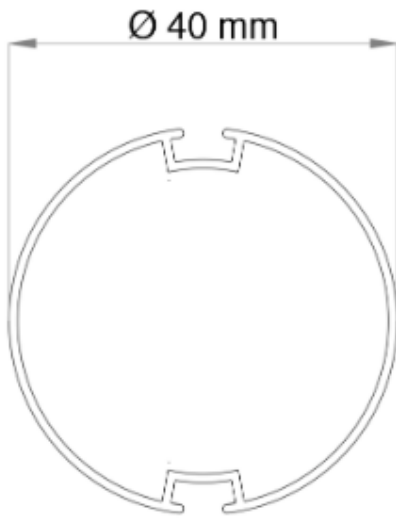
Tube size (40 mm)
Material: Aluminum
Aluminum Grade: 6063 - T6
Thickness: 1.5 mm

Perspective

12 mm

40 mm
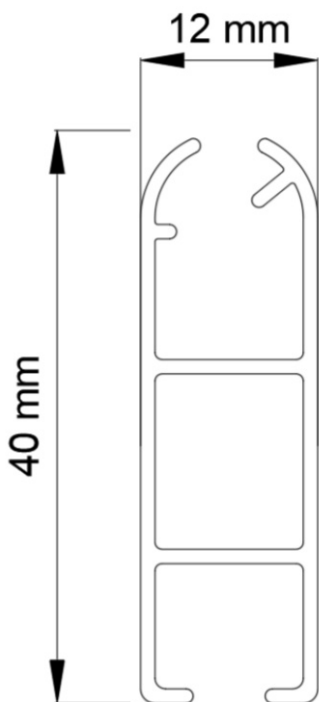
Light Bottom Rail (Standard)
Material: Aluminum
Aluminum Grade: 6063 - T6

Color		
Cream	Gray	White
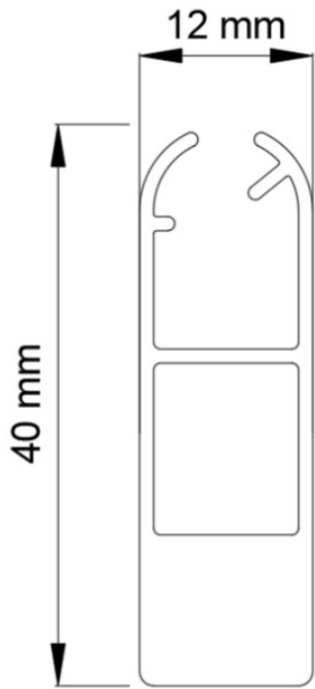
Heavy Bottom Rail (For Request)

Material: Aluminum

Aluminum Grade: 6063 - T6

Color		
Cream	Gray	White
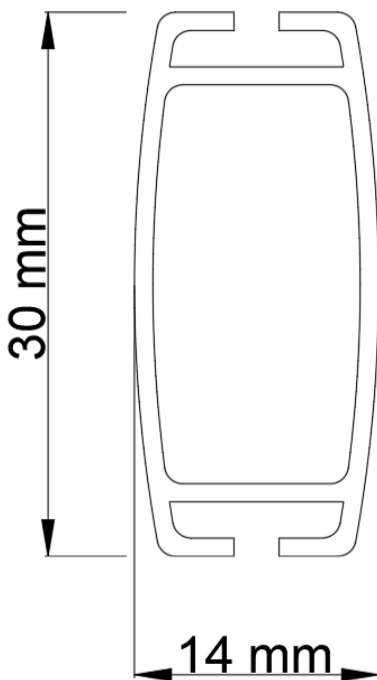
Covered Bottom Rail (For Request)

Material: Aluminum

Aluminum Grade: 6063 - T6

Note: This bottom rail is wrapped with the same fabric material as the blind.

Color		
Cream	Gray	White

Elite Bottom Rail (For Request)
Material: Aluminum
Aluminum Grade: 6063 - T6
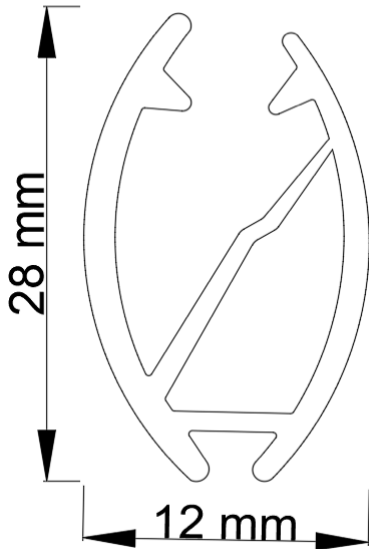
Color		
Silver ⚪	Gold Brushed 🟡	Black ⚫
Rose Brushed 🔴	Copper Brushed 🟠	

28 mm
12 mm

Elite Bottom Rail with their Colors (For Request)

Measurement Diagram
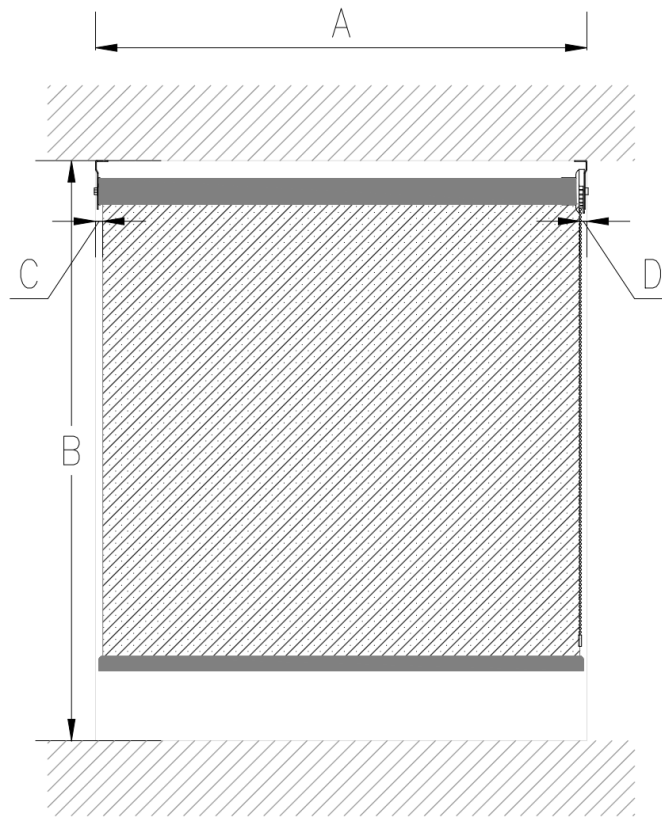
A- System width. If the roller is mounted inside the window frame, reduce the width by 1 cm. For outdoor mounting, we recommend adding 10 cm on each side.
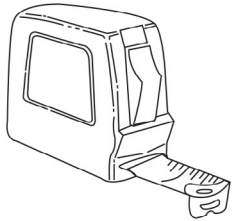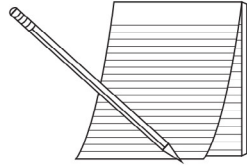
B- System height

C- Light gap on left side 25 mm

D- Light gap on right side 25 mm

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Measurement Instructions

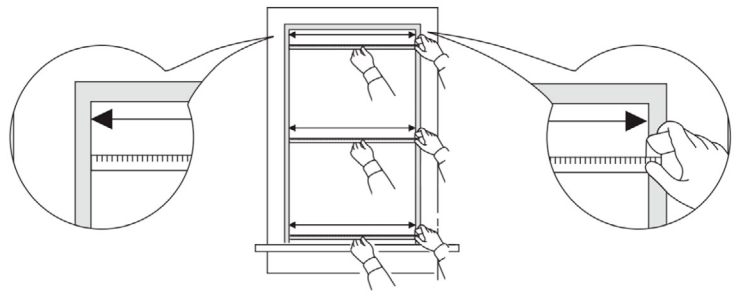## Tools Needed

1. Measuring tape (metal)

2. Pencil and notepad

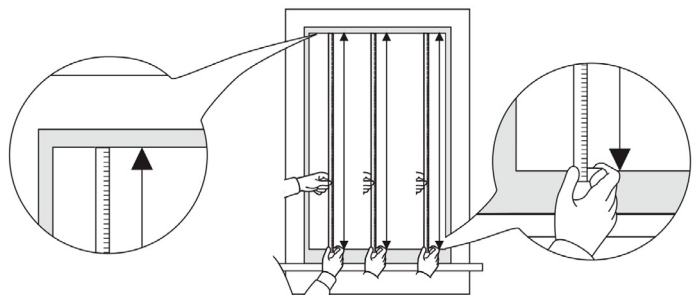3. Step ladder

Inside Mount Roller Blinds Measurement Instructions

Step 1:
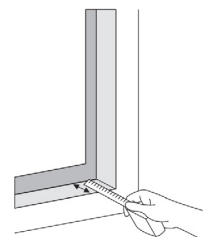
Measure the top, middle, and bottom then record the narrowest.

Step 2:

Measure the left center and right then record the longest height.

Step 3:

Measure and record the depth of the window.

Things to consider

Considerations for Valance:

- Valance measurement should equal the window width.

- Expect gaps (2.5 cm) on the sides.

- Pay attention to door knobs and handles. If they are present, think about opting for an outside mount.

- Note that with the cassette, the blind cannot roll outwards, only inside rolling is possible.

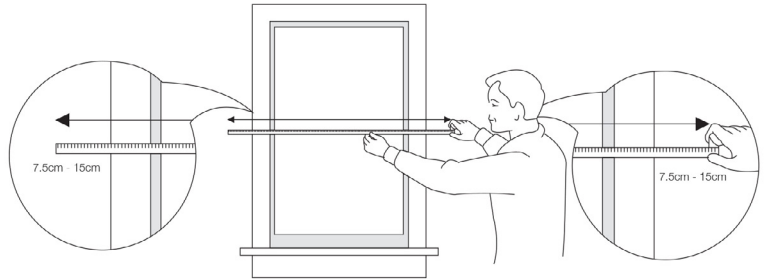- Minimum depth required for valance is 10 cm.

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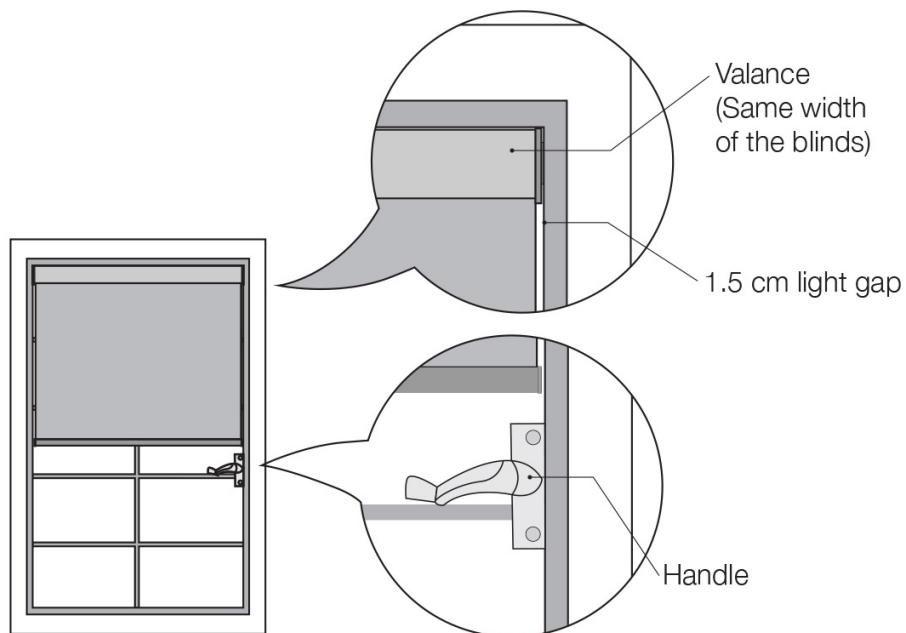
Outside Mount Roller Blinds Measurement Instructions

Step 1:
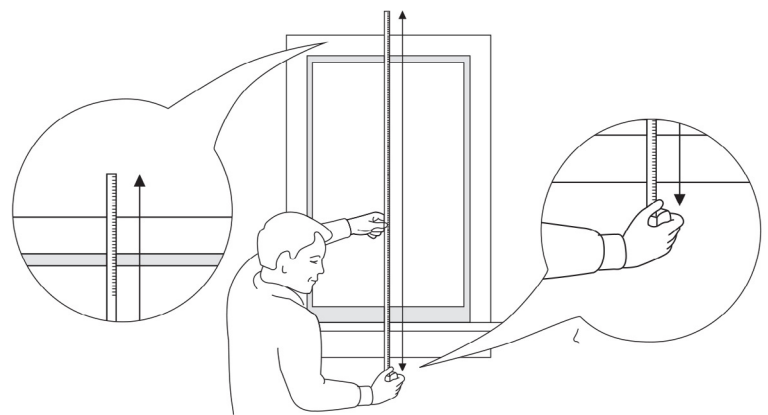
Measure the middle width of the window.

Step 2:

Add 7.5 cm - 15 cm to each side to minimize light penetration.

Step 3:

Measure the height from the middle of the window. The height will depend on your measurement.

Considerations for Valance:

- Cornice and valance measurements will be automatically manufactured 1.5 cm wider than the blinds.

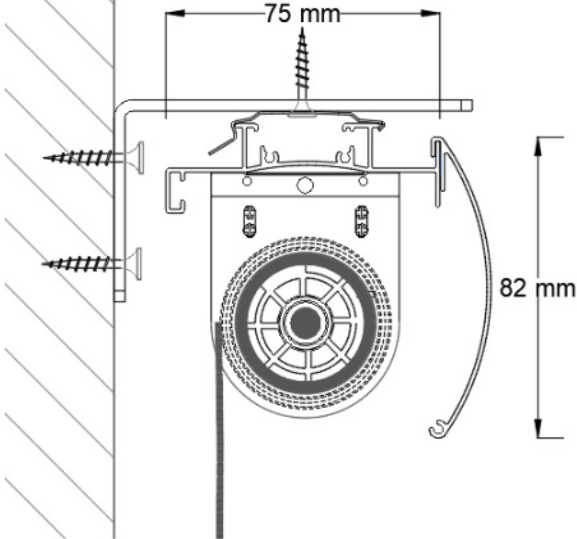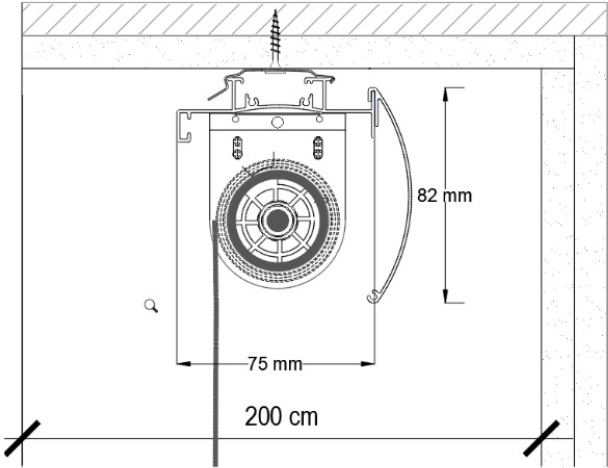- Maintain a minimum of 15 cm above the window for installation.

15 cm
from ceiling
(minimum)

Valance
(1.5 cm longer
than the blinds)
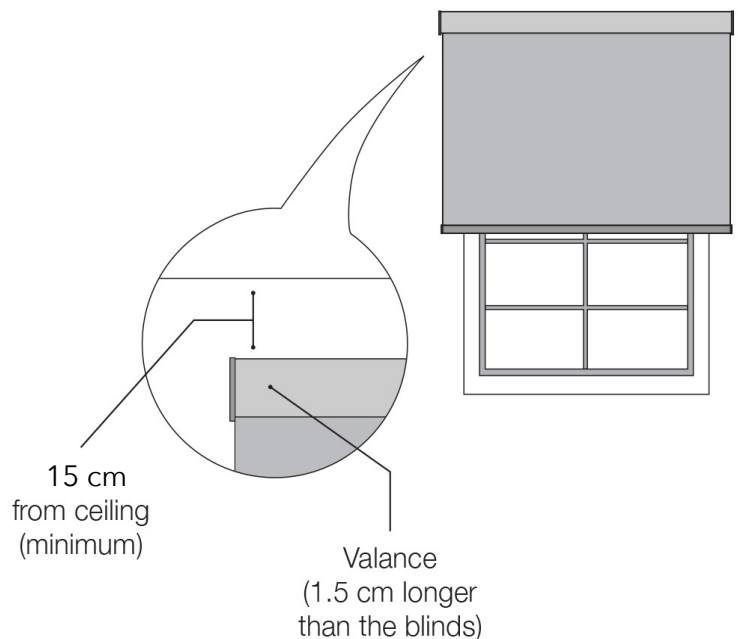
Fitting Techniques

Note: 75 mm clear surface area is required for installation and a drop of 68 mm.
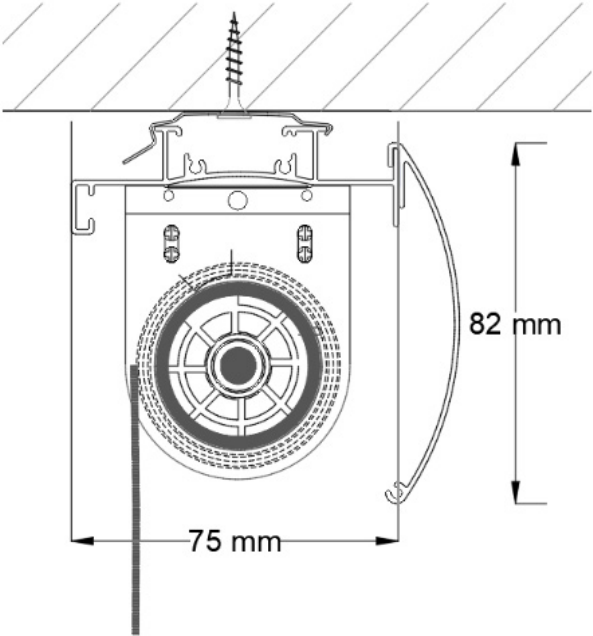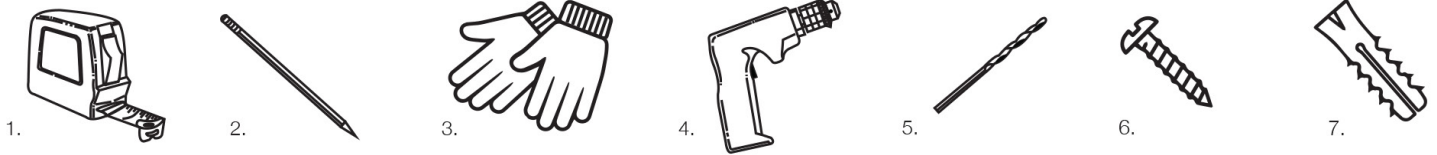

Ceiling Mount

Wall Mount

Recess Mount

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Installation Instructions

Tools needed

1. Measuring tape (metal)
2. Pencil (for marking)
3. Work gloves
4. Drill Machine
5. Drill Bit
6. Screws
7. Wall Plug (Wall Anchor)

The requirement for each type of installation to provide strength and corrosion resistance in various types of installation surface applications:
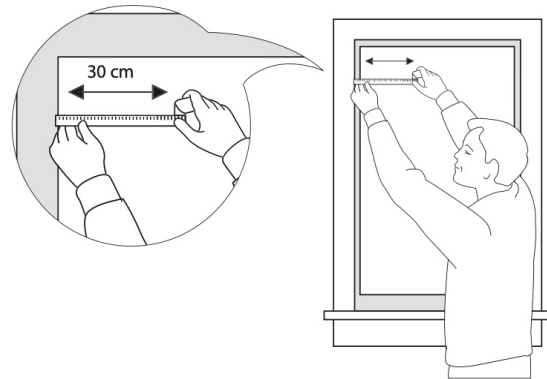
1. Aluminum - Stainless steel self-drilling screws.
2. Concrete - 6 mm screws and plugs are required for installation.
3. Gypsum - Special butterfly screws and plugs are required for installation.
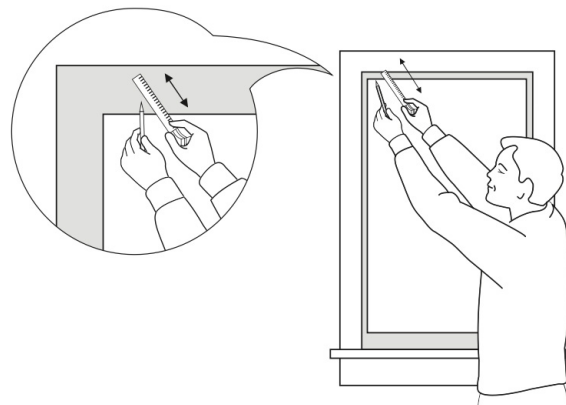
Installation Steps (Inside Mount):

Step 1:

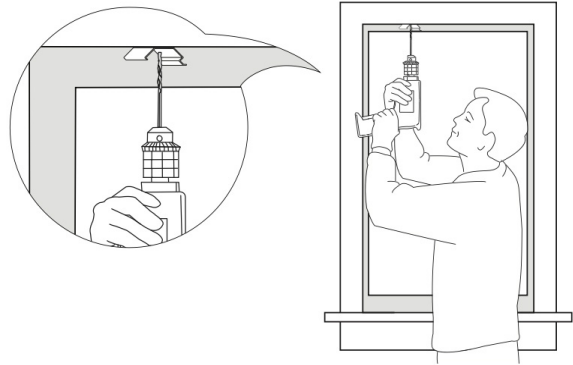Measure the wall or ceiling for the first bracket position 30 cm from the edge.

Step 2:

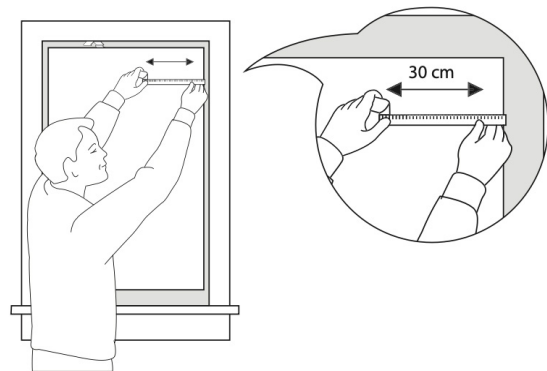Mark the position of the first bracket 5 cm depth.

Step 3:

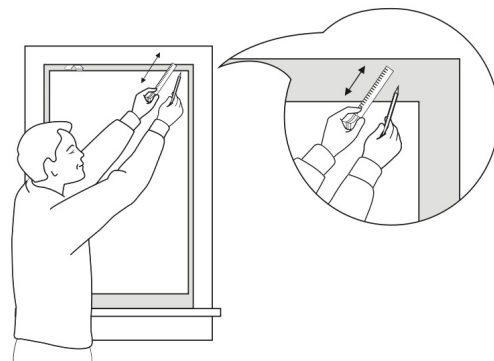Fix the first bracket using a drill or screwdriver.

Step 4:

Measure the wall for the second bracket. Make sure the position is exactly aligned to the first bracket.
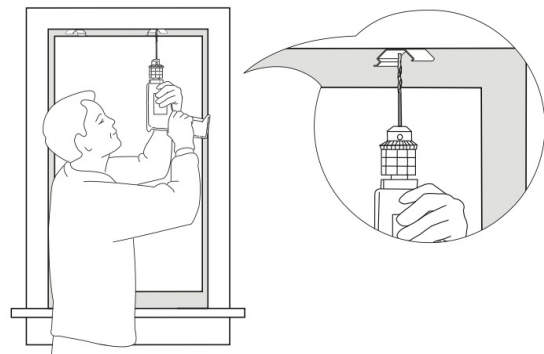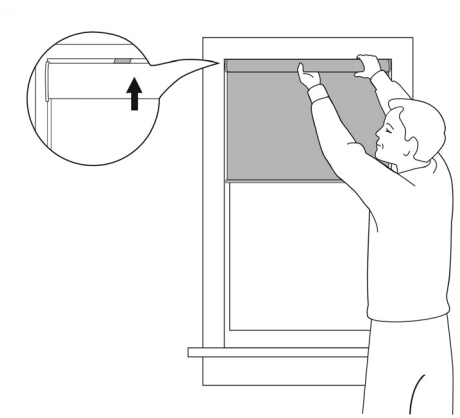
30 cm

Step 5:

Mark the second bracket.

Step 6:

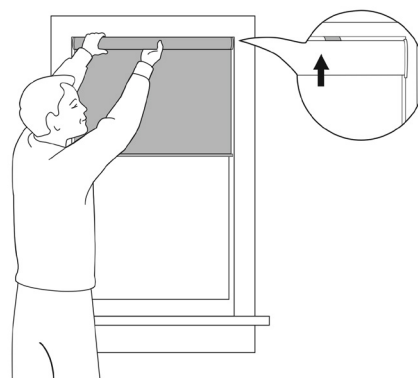Fix the second bracket using a drill or screwdriver.

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Step 7:

Fix the roller shades on one side.

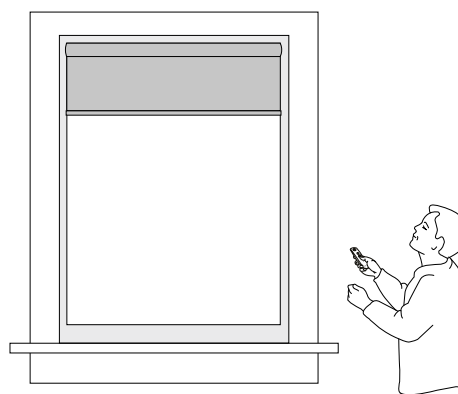## Step 8:

Fix the roller shade on the other side.

Step 9:

Test if the roller shades is installed properly. Do not exert too much pressure.

Step 10:

Check if it's working correctly using the Somfy remote control.
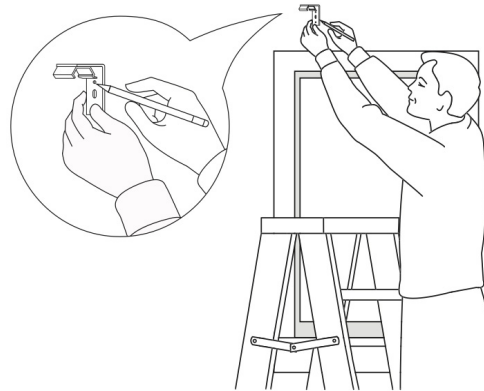
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Installation Steps (Outside Mount):

Step 1:

Measure the wall or ceiling for the first bracket position 30 cm from the edge.
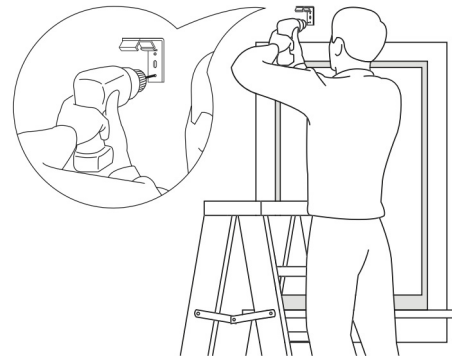
Step 2:

Mark the position of the first bracket.

Step 3:

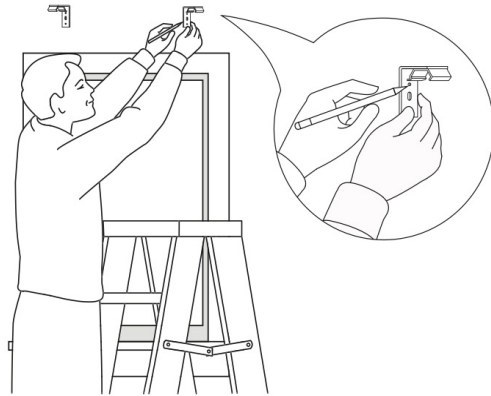Fix the first bracket using a drill or screwdriver.

Step 4:

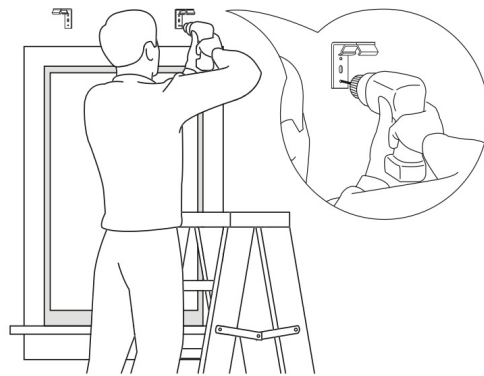Measure the wall for the second bracket. Make sure the position is exactly aligned to the first bracket.

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Step 5:

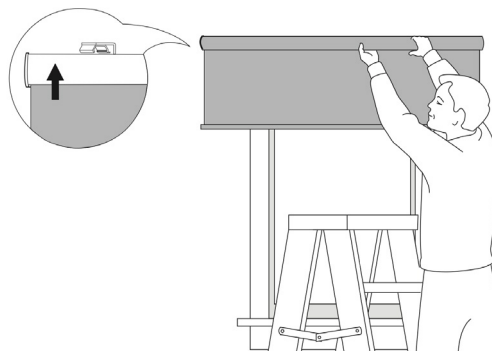Mark the second bracket.

Step 6:

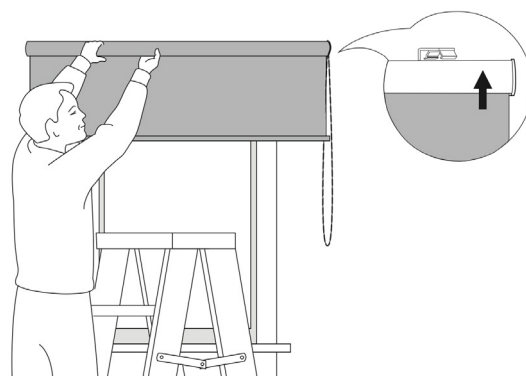Fix the second bracket using a drill or screwdriver.

Step 7:

Fix the roller shade on one side.

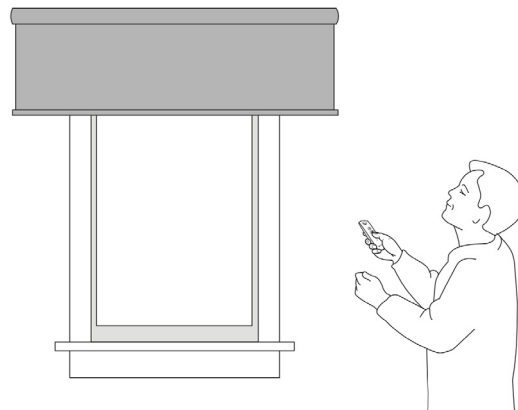### Step 8:

Fix the roller shade on other side.

Step 9:

Test if the roller shades is installed properly. Do not exert too much pressure.

Step 10:

Check if the roller shades is working correctly using the Somfy remote control.

Tips

- Alignment of brackets should be exact to avoid damaging the product.
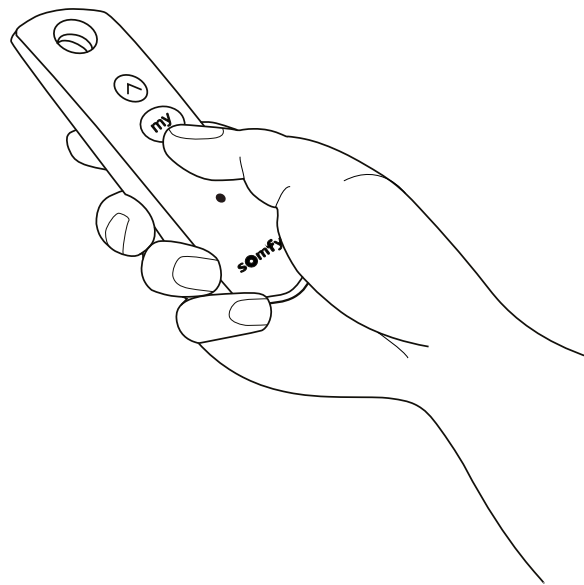
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Operation/Control

Raising or Lowering:

Step 1: Press the 'down' button on your Somfy remote control to close the blind.
Step 2: Press the 'up' button on your Somfy remote control to open the blind.

You can press the "My" buttons on your Somfy remote

Product Maintenance and Cleaning

- Regularly dust with a feather duster or soft cloth.

- For thorough dust removal, use a hand-held vacuum with low suction.

- CAUTION: Avoid harsh detergents.

Side Channel Option

A side channel is a vertical guide installed on either side of a window to slot the edges of the blind fabric, enhancing functionality and aesthetics.

The set includes an aluminum cassette, side channel profiles, and a bottom bar in standard white, cream, or beige finishes.

The fabric edges are secured with a dual brush insert, and operation is through a stainless steel ball chain.

Single Side Channel

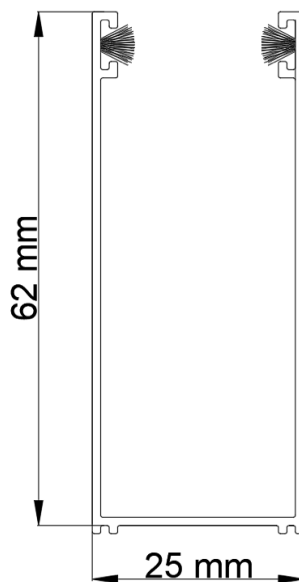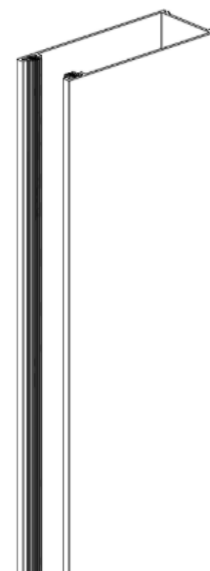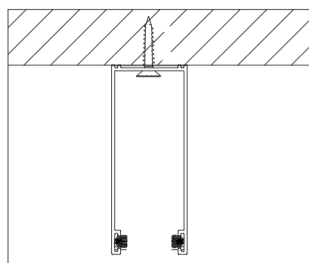**Material:** Aluminum

Aluminum Grade: 6063 - T6

Thickness: 1.5 mm

Color	
Cream	Gray
White	Mill Finish

Profile   **Perspective**

Screw mounting technique   **Double-sided tape mounting technique**
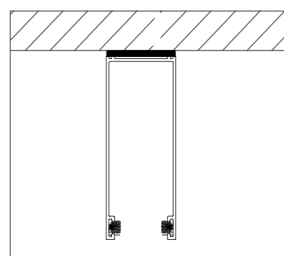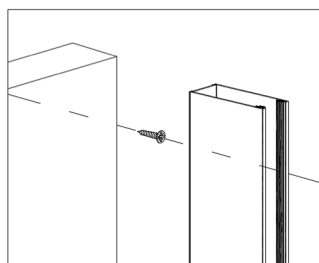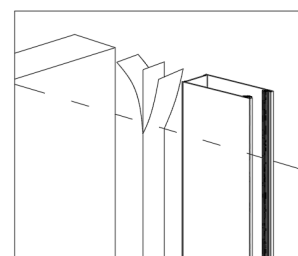
Double Side Channel

Material: Aluminum

Aluminum Grade: 6063 - T6

Thickness: 1.5 mm

Color		
Mill Finish	Gray	White
⬤	⬤	◯

Secure two or more sequential roller blinds on aluminum surfaces for light-blocking purposes and enhanced aesthetics, utilizing either double-sided tape or adhesive.
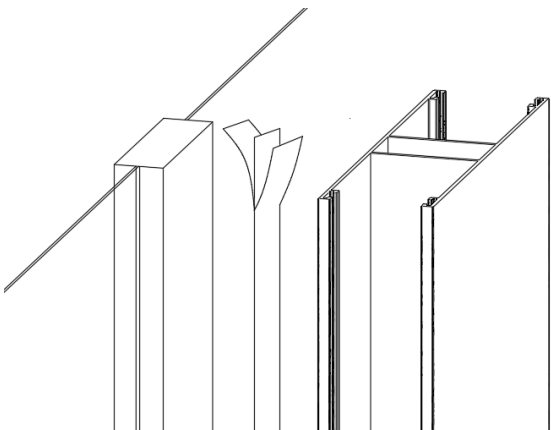
Installing on aluminum using double sided tape

Valance

A valance improves roller blinds by concealing the top pipe and hardware. It shields the mechanism from dust and damage, reducing maintenance and extending system life.

Louvo Elite

Material : Aluminum

Aluminum Grade: 6063 - T6

Color		
Silver	Gold	Black
Rose		Copper

Perspective

75 mm

82 mm

Profile

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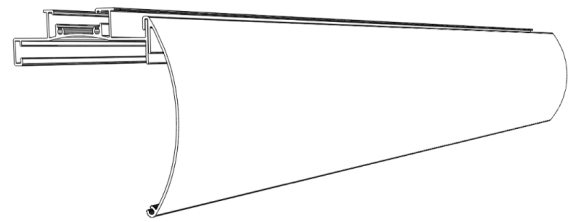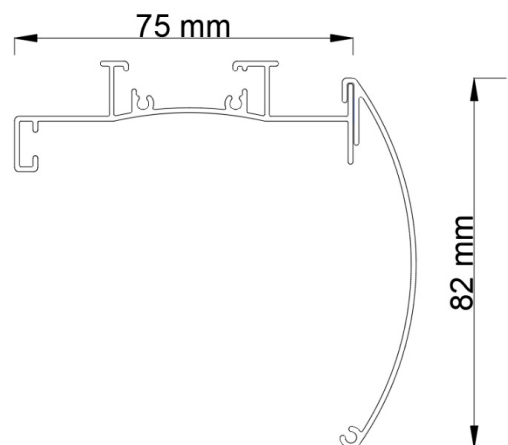
Double Bracket

The **RB 16-82 Roller Blind Louvo Elite Wire Free Motorized Rail System®** doesn't have the double bracket feature. Use the QR code or the link below to see our product options that offer the double bracket feature.

RB 16-11 Roller Blind Manual System 40

RB 16-12 Roller Blind Manual System 45

Motorization

The **RB 16-82 Roller Blind Louvo Elite Wire Free Motorized Rail System**® is powered by Somfy Sonesse® 30 WireFree RTS (Li-Ion).

The Somfy Sonesse® 30 WireFree RTS (Li-Ion) is a motor designed for interior window coverings, known for its quiet operation and ease of use, powered by a built-in rechargeable battery. The system supports Radio Technology Somfy (RTS), an exclusive remote control protocol used to operate and control wirelessly.

Technical Features

Voltage Supply	12V DC
Index Protection Rating	IP 30 (for indoor use only)
Limit Switch Type	Electronic
Temperature Working Range	0°C to 60°C
Temperature Storage Range	-20°C to 60°C
Insulation Class	Class III
Antenna	15 cm wire length must not be cut or lengthened. For greatest RF range, it must not be exposed and should not come in contact with metal surfaces. RF wire may need to be repositioned for optimal performance.

Specifications

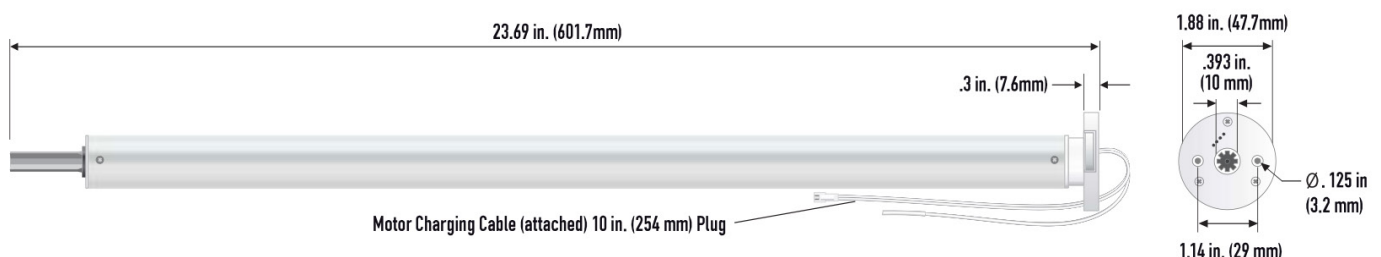|	
Nominal Torque	2 Nm
Nominal Speed	20 rpm (Sonesse Noise Performance)
Adjustable Speed	10-28 by increment of 1-2 rpm
Sound Level	44 dBa (at nominal speed)
Battery Lifetime	Nominal 10 months
Charging Time	<4,5 Hours
Power Supply	Li-ion embedded battery (12V 2600mAh)

23.69 in. (601.7mm) — .3 in. (7.6mm) — 1.88 in. (47.7mm) — .393 in. (10 mm) — Ø .125 in (3.2 mm) — 1.14 in. (29 mm)

Motor Charging Cable (attached) 10 in. (254 mm) Plug

For more information, you can visit: https://www.somfy.com/en-en/

General Safety Instructions

Ensure adults adhere to these safety guidelines provided by Sedar:

- If the blind is not raised or lowered evenly, it can become damaged.

- If the fabric is not level as it rolls, it may wrap around the tube incorrectly, leading to wrinkles and could tear over time.

- Never immerse the motor in liquid.

- Never drill holes in the motor.

- Do not drop the motor and avoid impacts.

- Follow safety standards during product installation and maintenance.

Other Relevant Documents

To further explore **the RB 16-82 Roller Blind Louvo Elite Wire Free Motorized Rail System®**, please click the links below or scan the QR codes. These will direct you to our System Brochure and Technical Summary, offering in-depth information and visual guides to assist in your project planning.

16-82 Documents

Roller Blinds Fabric Specifications

Projects and Professionals Contact Information

For inquiries about **the RB 16-82 Roller Blind Louvo Elite Wire Free Motorized Rail System®** or to utilize our Projects Department's bespoke services, please contact us. Our team is ready to assist with product details, installation, and custom solutions, ensuring your design needs are expertly met. Contact us using the QR code below for guidance in transforming your spaces with innovation and style.

Email: projects@sedarglobal.com
Projects Hotline: +971502313453