

TOMA

Vanguard Solutions

CONTENTS

Product basics

Product installation explanation

Product Introduction

PRODUCT

Product Name: Outdoor aluminum alloy

shading canopy

Application: residential sun room, commercial

lighting roof



➤ Main functions of the product:





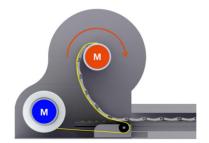


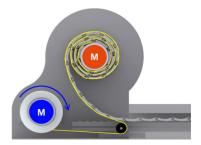
Thermal insulation



Anti-condensation

➤ Operating mechanism principle:





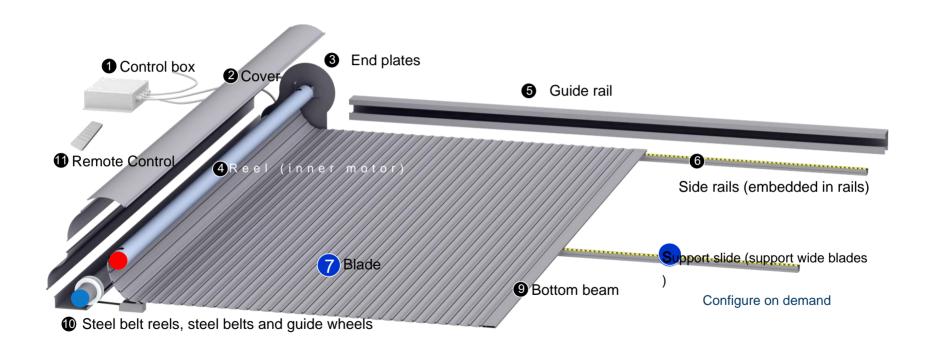
Dual motor push structure (patent protected); Stable operation, durable and quick installation







Product construction



Product detail comparison

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1 Reel

Stainless steel seamless welding reel bending and torsion resistance Closed waterproof, no rust



Galvanized cold rolled reel Resistant to bending and not torsion Easy to crack and rust

2 Guiding institu

Patent-oriented institutions Stainless steel shaft, durable, stable and easy to install



Plastic friction guides Short service life Inconvenient installation, easy to hang the blades

3 Wheel

Reinforced stainless steel shaft pin diameter 10mm



Ordinary steel shaft pin diameter 6mm

4 Bear

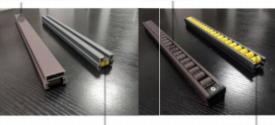
The thickness of the aluminum alloy bottom beam for metal canopy is 12mm, and the built-in stiffener is built-in Bending and wind resistance



Ordinary bottom beam thickness 8mm weak strength

5 Support Rails

Closed-mouth design Firm and convenient fixing Special sealing of the ball of the same color



Open design The fixation is not secure

Flower roller handsealed



Ultra-thick modified nylon housing Double bearings guarantee concentricity of rotation

Ultra-strong and durable steel shaft diameter 20mm



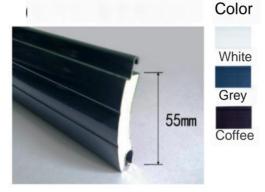
Thin injection molded housing, single bearings with poor concentricity

No dedicated pivot

Product blade series parameters

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55# series full shading blade (aluminum alloy + polyurethane foam)



Production parameters:

- The maximum production area of the single tree: 30m²,
- The maximum production width of
- the single tree: 5 meters,

 The maximum production length of the single tree: 6 meters

38# series "full of stars" blades (Aluminum alloy + polyurethane foam)



production parameters:

- Maximum production area: 25m

 Maximum production width of
 - single tree: 5 meters
- Maximum production length of single tree: 5 meters

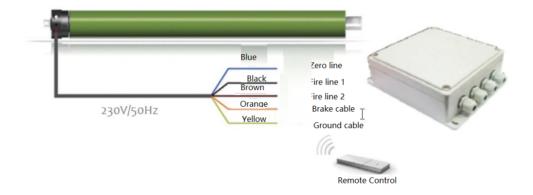
The setting principle of the support slide



- Determination of the count of support slides. First , confirm the number of divisions in the width direction of the lighting roof occupied by a single canopy.
- According to the number of compartments and the selected blade specifications, the table is directly queried.
- Setting principles of support slides: Evenly distributed according to the number of divisions, the evenly distributed spacing is controlled at 2-
- 2.5 meters or less.

Control system

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- Brand: Duya or Senfu

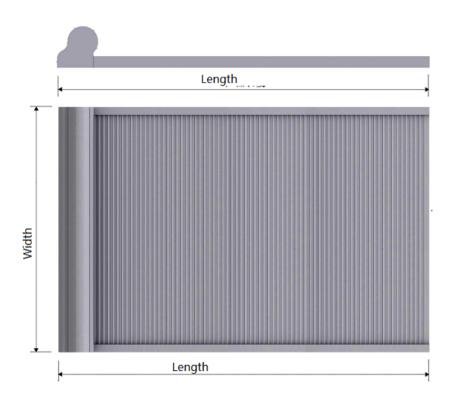
- FTS special motor 2 sets/set

- Rated torque: 40N.m - Rated power: 255W/set

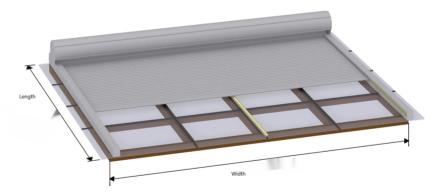


Definition of product width and length

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In general, the flow direction (from high to low) at the top of the sun room is the length direction of the product.



Product length and size of the shutter box

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1#:0 < L 2.2M , A=260mm;B=275mm

2#: 2.2 < L ≤ 3.2M, A=310mm; B=310mm

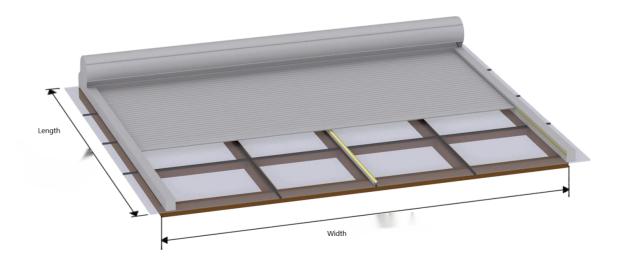
 $3#: 3.2 < L \le 5.2M$, A=370mm;B=355mm

4#: 5.2 < L ≤ 7.5M, A=430mm; B=425mm



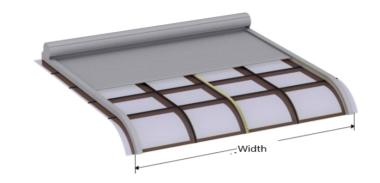
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A. Measurement method for flat tops
Product length = total glass length (flow direction)
Product width = overall width of the outer mouth of the top
frame (load-bearing)

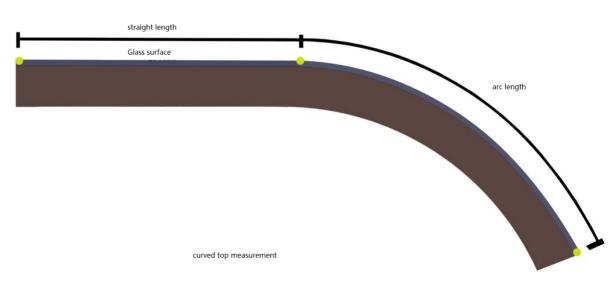


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B. Measurement method of arc top Product length = straight length + arc length Product width = overall width of the outer mouth of the top frame

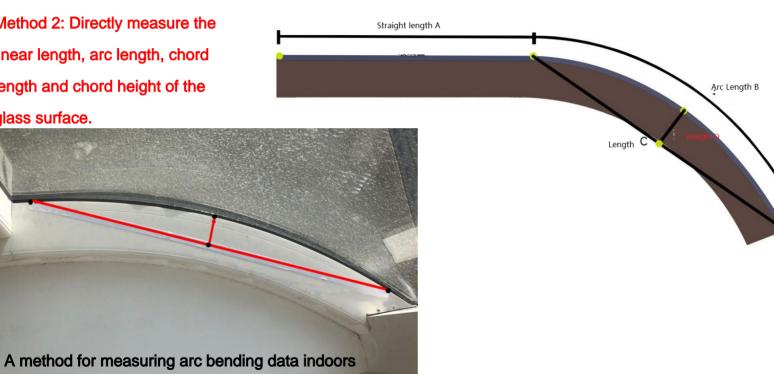


Measure arc length
Method 1: Direct on-site lofting,
trace the contour line of the
glass surface, and measure the
straight length and arc length
of the glass surface.



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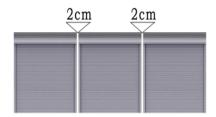
Method 2: Directly measure the linear length, arc length, chord length and chord height of the glass surface.



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Measurement Notes:

a. When the multi-canopy is side by side, leave a gap of 2cm in the width direction.



b. Pay attention to whether the width and length direction of the product have the influence of eaves.







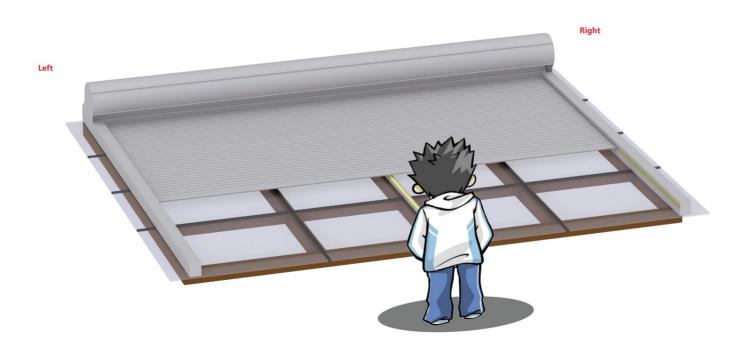
Notes:

- 1, The default width size of the order is the size including the side decorative cover,
- 2, Because there is a decorative cover on the side, when multiple pairs of sky curtains are rowed, the gap between the middle guide rails is 30MM, not the guide rail is close to the guide rail;
- 3. When encountering the left and right sides of the roll box against the wall, it is necessary to deduct 10MM measurement on the basis of the net size of the measurement to prevent it from being put in.

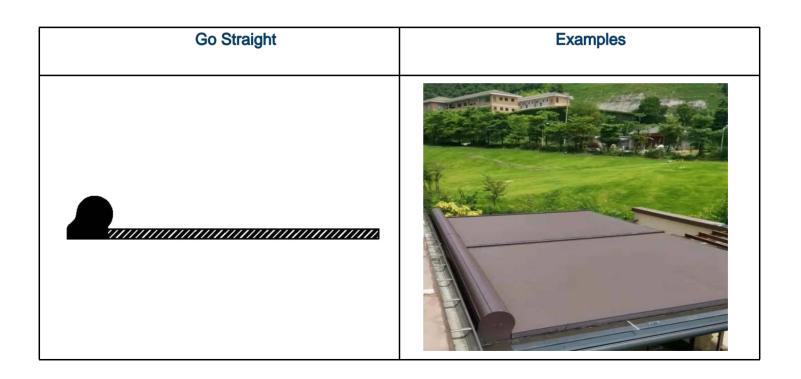
Power direction

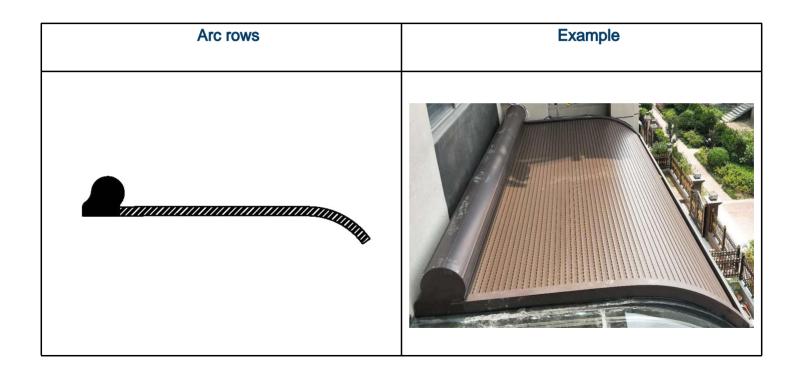
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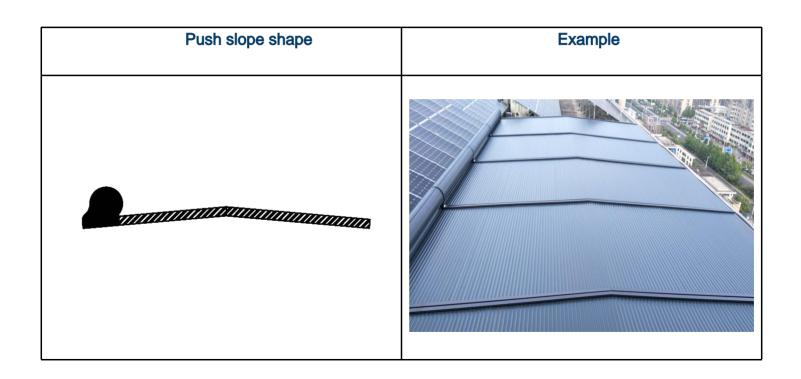
■The principle of identifying the direction of the power supply: define the left and right sides of the surveyor facing the canopy.

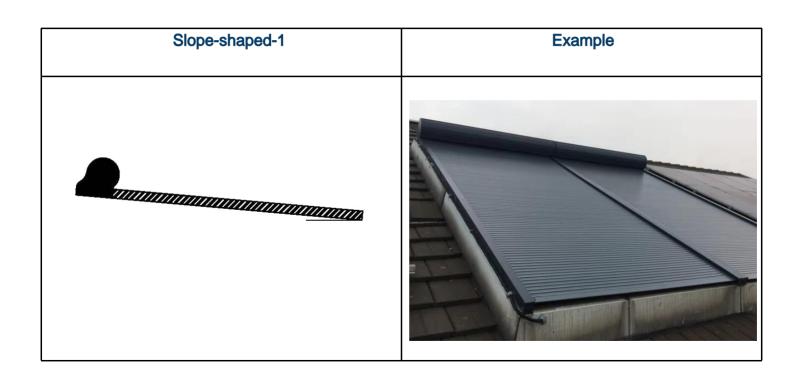






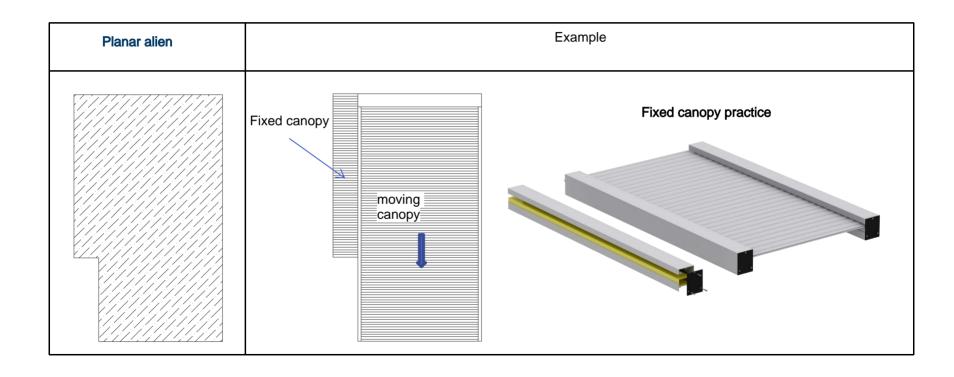


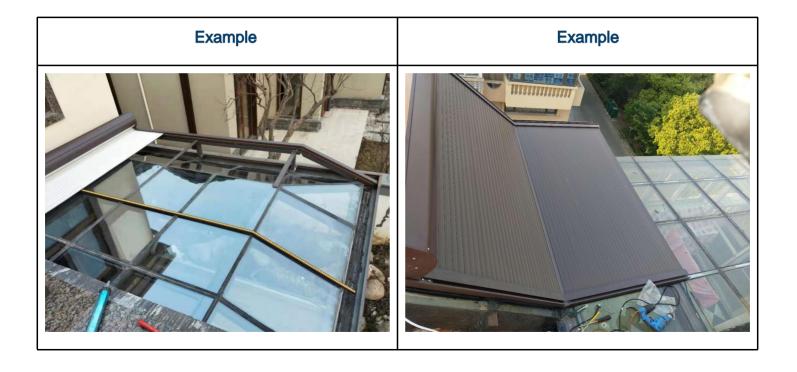






Special-shaped crafting scheme





Special production schemes



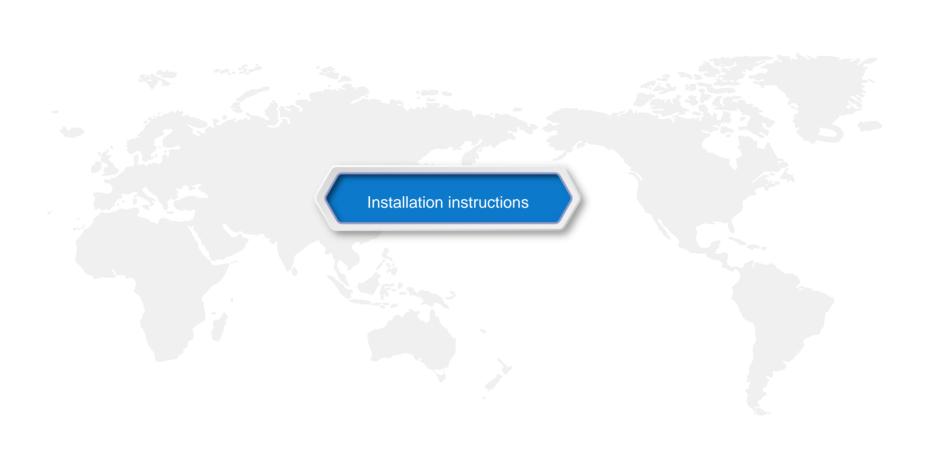
Wind protection measures

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Wind and rain controller

Windproof bracket





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Arrival specifications

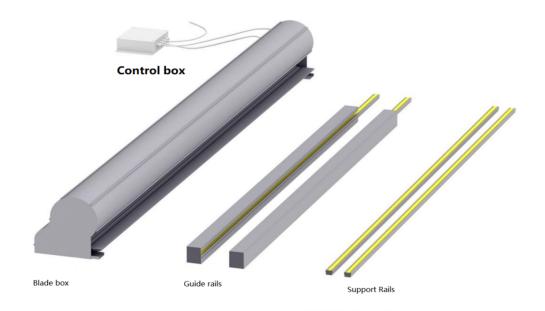


Accessories details





Product arrival form



Straight canopy arrives at the main part

Product arrival form



The curved canopy arrives at the main part



Recommended Use: 995 Neutral Silicone Structural Adhesive

Model: 995

Name: Neutral silicone structural

adhesi ve

Brand: unlimited (choose local

common products packaging: flexible

packagi ng

Use parts: roller shutter box base, U-shaped fixed code bottom, guide rail and glass surface contact edge seam reference dosage: about 2 pieces for a pair of canopies; About 3 canopies are used for two pairs.



The curing process of silicone glue is developed from the surface inward, and within 5~10 minutes after the glue surface is applied, it is necessary to place the shutter box in time for bonding. 995 structural adhesive, the conventional complete setting time is 2 ~4 days, and the outer layer of 3mm has been cured within 24 hours. The aluminum alloy canopy can be used normally 24 hours after the installation is completed.

When selecting glue, the name should have the word "XXX structural adhesive", pay attention to the difference between ordinary weather-resistant sealant. In addition to the characteristics of weather-resistant sealant, neutral silicone structural adhesive also has stronger bonding properties than weather-resistant sealant, mainly plays a bonding role, and is used for structural and non-structural assembly bonding of various curtain walls. The simple weather-resistant sealant is mainly used for sealing caulking between materials, mainly for waterproof sealing of joints. The two are not used in one place.

Note: 995 neutral silicone structural adhesive is a commonly used structural adhesive, users can also choose better performance structural adhesive, the choice is based on the use of structural adhesive warranty life, the longer the better.

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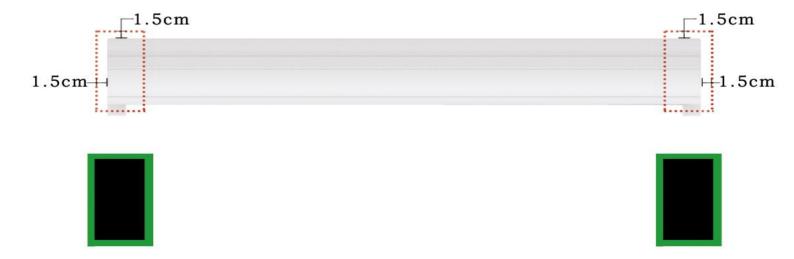
1. Review the product and top layout dimensions, and make a position layout. Clean the glass top and let it dry to prevent slipperyness.



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2. The roller shutter box is fixed in place:

A. Place the gluing lofting template provided with the box in the installation part of the base of the end plate of the roller shutter box, place it in the following figure, and paste masking paper along the edge of the template after placement. After the masking paper is applied, remove the template and apply it evenly within the masking area. Tear off the masking paper about 5 minutes after the application is complete and put the shutter box in place.



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B. The roller shutter box is fixed in place



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Rail fixation:

A. Size review, draw reference lines

B. Fixed code installation (first use a drill to punch a small hole, and then use a self-tapping screw to enter at one time)

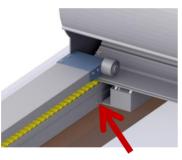


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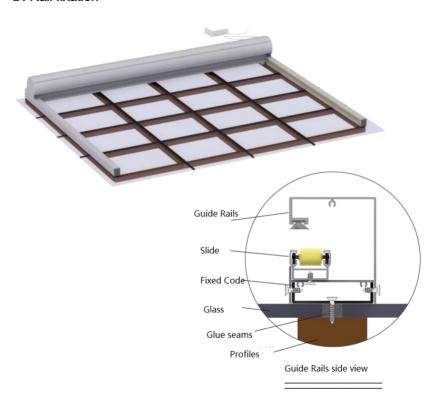
C. Rail plugging







D. Rail fixation

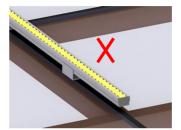


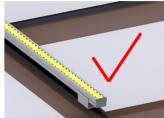
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4. Support slide rail fixation

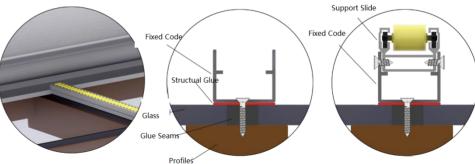
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Note: The U-shaped fixed code position of the tail should not be too far from the end, and it is advisable to be about 5cm away from the end.



Schematic diagram of the straight end of the support slide

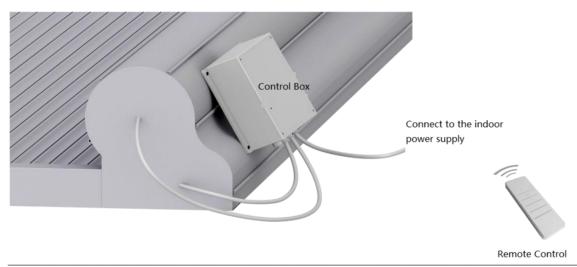
Fixed code fastening

Support slide diagram

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5. Wiring, power on, debugging, complete installation.





Note:

The control box should be placed in a sheltered place or fixed behind the shutter box, the fixing screw should not be too long, otherwise it will damage the blade and affect the blade rotation. Never place the control box in a place where water is likely to accumulate.



Notes:

- 1. When wiring, the power cord should be protected with PVC line pipe or threaded pipe;
- 2. Before operation, check whether the power supply is energized and whether the wiring is loose:
- 3. During the first operation, the handheld remote control first presses the run and stop buttons to test a short section of operation, and then presses the run to run directly, if there is an abnormal situation during operation, stop at any time, and run the whole operation once after troubleshooting to complete debugging.

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1. Guide rail comparison cutting:



A. Alignment cutting curved ends



B. Alignment cut straight ends

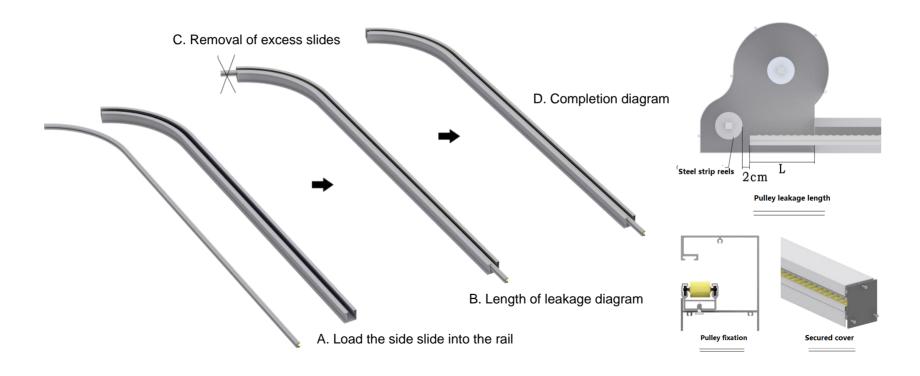


C. Alignment cut complete

Curved rail assembly

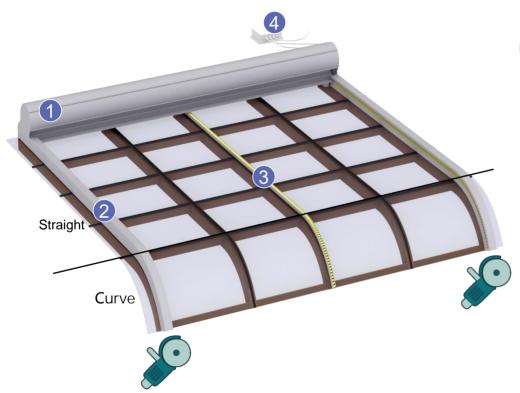
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2. Slide rail cutting assembly:



Installation summary

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Main steps:

1. Fix the roller shutter box

2. Fixed rails

- 3. Fixed the support ra
 - 4. The wiring is energized and the debugging is over

