

Retractable Roof Smart Pergola Pro

Sunshade and Rainproof
LED Strip Lighting
Fabric Roof Canopy



Sun Shade



Waterproof



Integrated
Lighting



PVC
Fabric Roof



Drainage
System



Aluminum
Structure



Motorized
Operatio

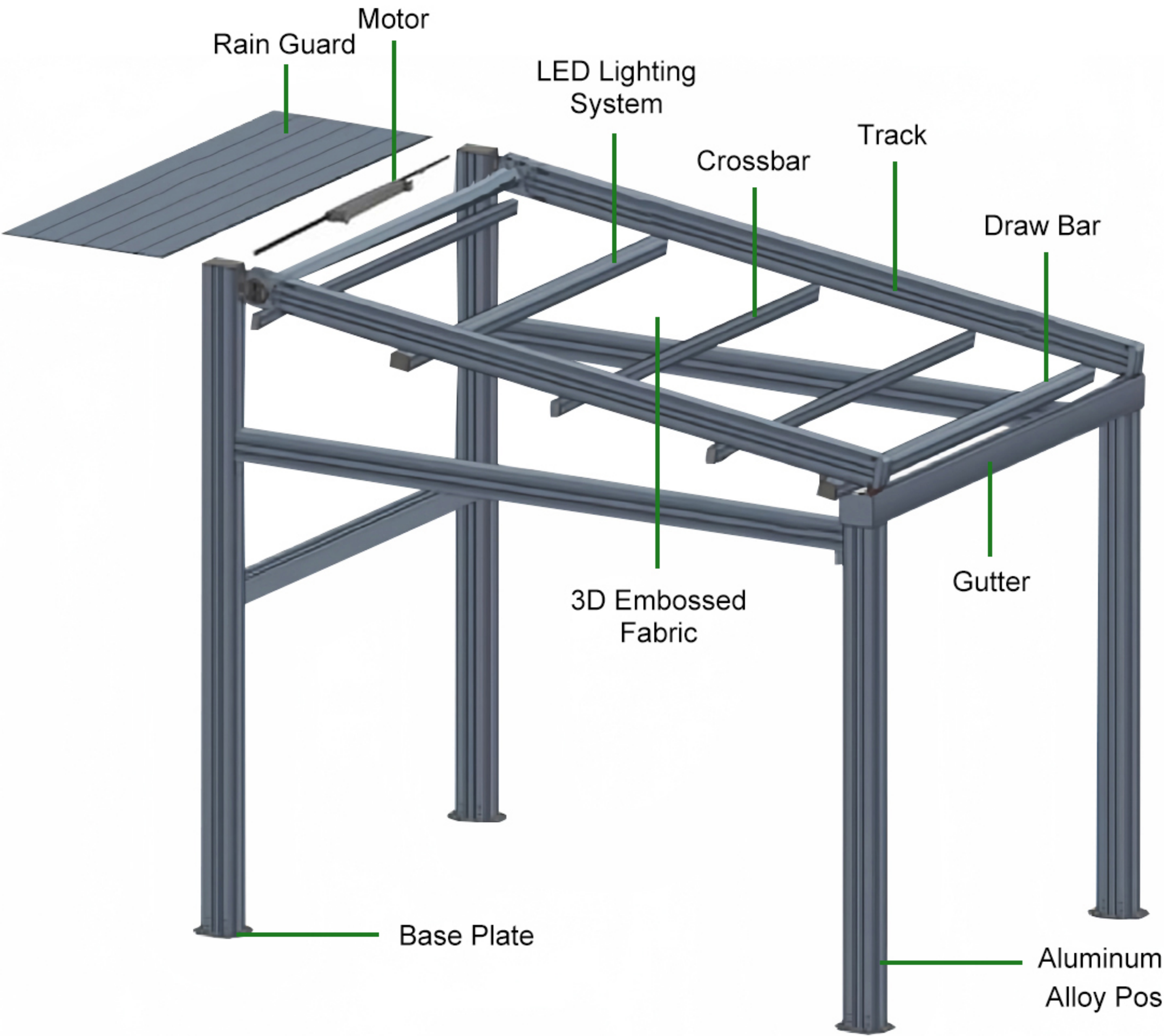


Fully
Customizable

A retractable pergola system that adapts to any weather. Its motorized fabric roof provides adjustable shade and rain protection on demand. Integrated LED lighting creates perfect ambiance day and night. Custom-built to your exact space dimensions. Control it all with one touch - transform your outdoor living instantly.

Retractable Roof Pergola

◆ Exploded View Diagram



CUSTOMIZATION SUPPORTED



Aluminum
Alloy Frame



Outdoor
3D Fabric



Sunshade
Thermal Insulation



Water Diversion
Design



Multiple
Options Available



Electric
Telescopic





SIX STYLES TO CHOOSE FROM

Meet different installation environments



Independent support style



Herringbone slope style



Wall mounted pull style



Unilateral pillar style



Arched style



Card wall style



Retractable Roof Pergola

◆ Application Scenario Display

Unilateral pillar style

Outdoor restaurant scene display

Expand the usage area of the restaurant
not afraid of wind, rain and sun
Light strip can provide illumination



Card wall style

Corridor scene display

Suitable for small venues
a vast expanse of space
Three or five friends, enjoy tea and chat



Arched style

Outdoor activity scene display

Suitable for outdoor use,
capable of producing large areas of shading,
Can be used as a birthday party
and wedding venue



Independent support style

Car shed shading scene

Independent outdoor parking lot
creating a safe haven for your beloved car



Wall mounted pull style

Club Scene Display

Outdoor living room
A wall mounted canopy that effectively
blocks sunlight for you



Herringbone slope style

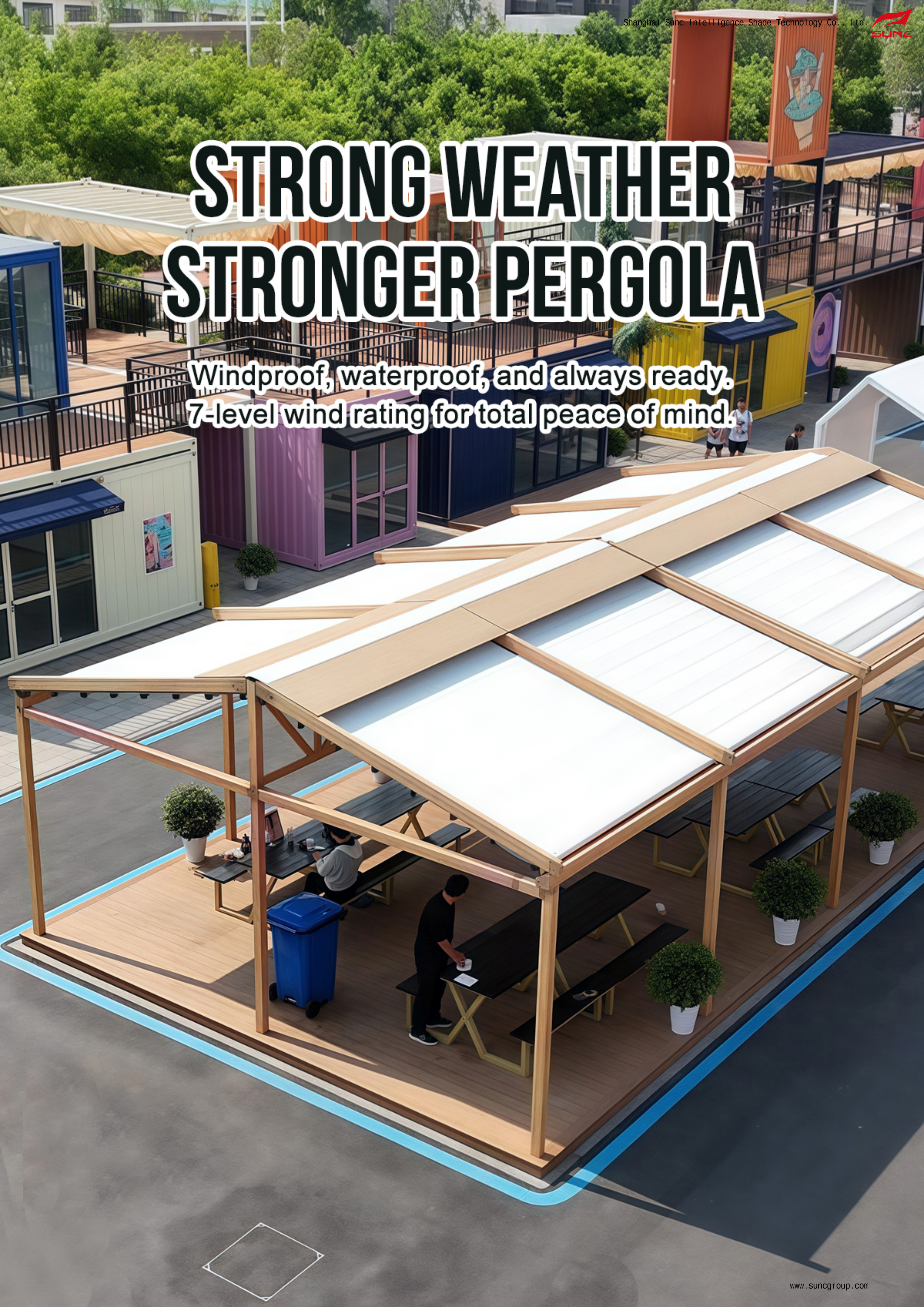
Outdoor scene display

Suitable for outdoor use
capable of producing large-scale shading
Can be used as a birthday party
and wedding venue



STRONG WEATHER STRONGER PERGOLA

Windproof, waterproof, and always ready.
7-level wind rating for total peace of mind.



DUAL-TRACK SLIDING SYSTEM FOR SMOOTH CANOPY RETRACTION

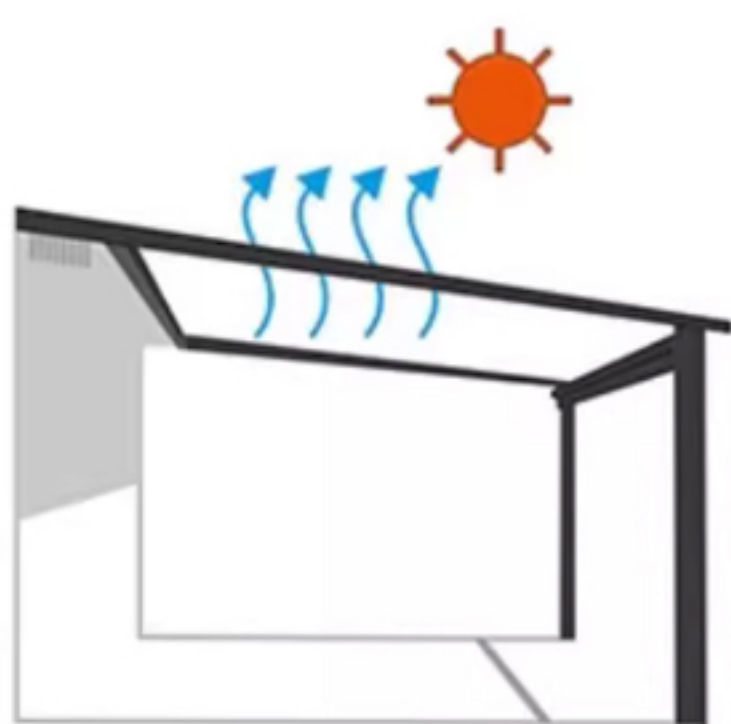
Heavy-duty painted aluminum alloy track ensures exceptionally smooth and effortless operation, proven through rigorous cycle testing.



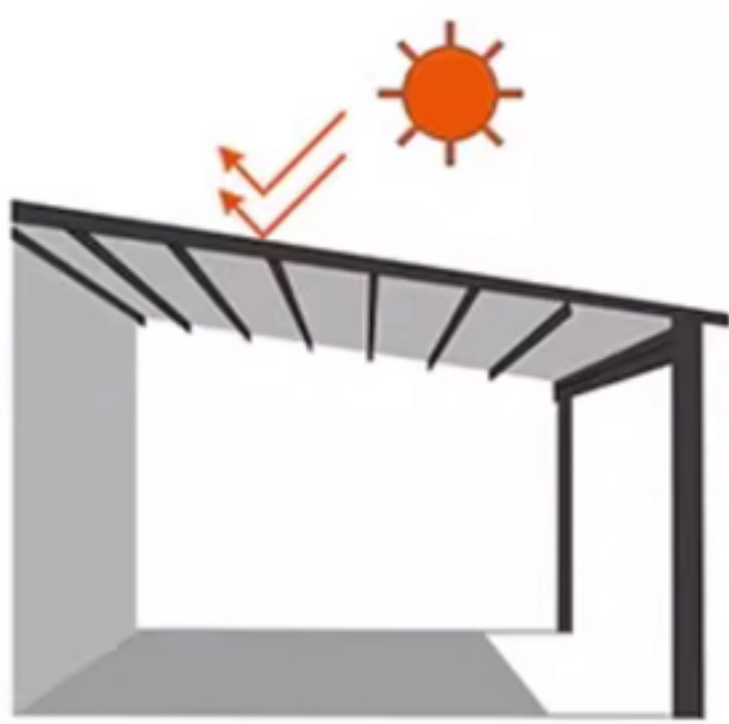


ADJUSTING TEMPERATURE CONTROL SUNLIGHT

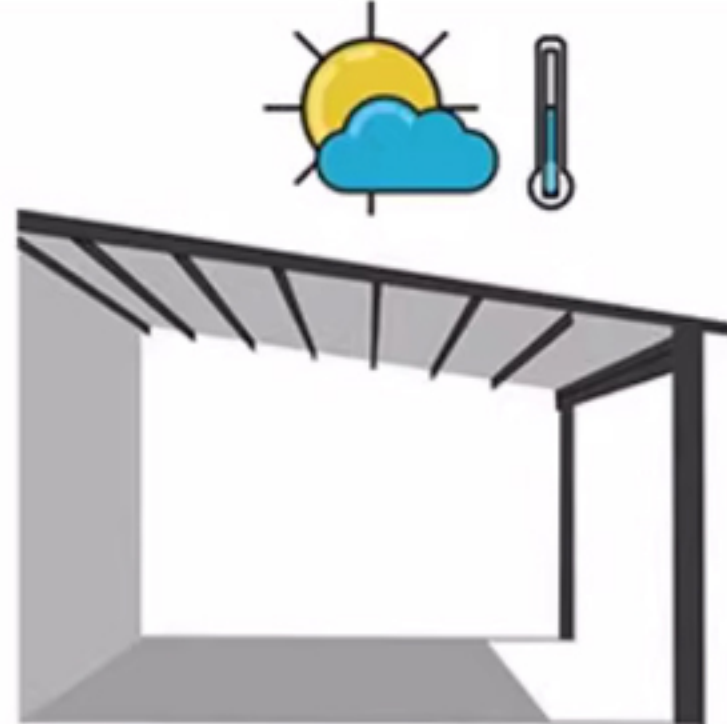
Can easily cope with different climates



Ventilation



UV-Resistant



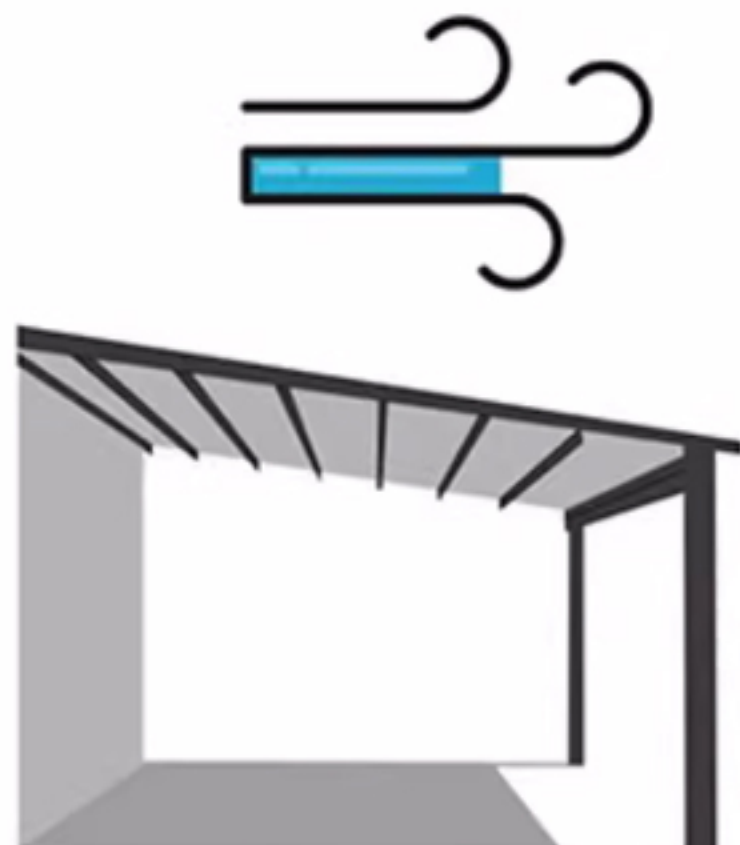
Temperature Regulation



Rainproof / Waterproof



Snow-Resistant



Wind-Resistant



Folded Position



Deployed Position



ENGINEERED DRAINAGE FOR PEACE OF MIND

- Sloped Gutter Design: Ensures optimal water flow for a superior experience.
- Precision-Tested System: Guarantees reliable performance.
- Angled Water Channeling: Directs rainwater into hollow support posts.
- Prevents Water Accumulation: Effectively reduces the risk of pooling.



Gutter Profile



Water Channeling



Post Drainage Outlet



SMART LIVING ONE-TOUCH CONTROL

Command with one touch.

The smart remote eliminates manual effort,
delivering seamless, high-tech convenience.



DUAL DAY & NIGHT FUNCTIONALITY

- **Optional Waterproof LED Strip**

Features energy-efficient 3000K high-luminosity LEDs.

- **Silicone-Encapsulated Design**

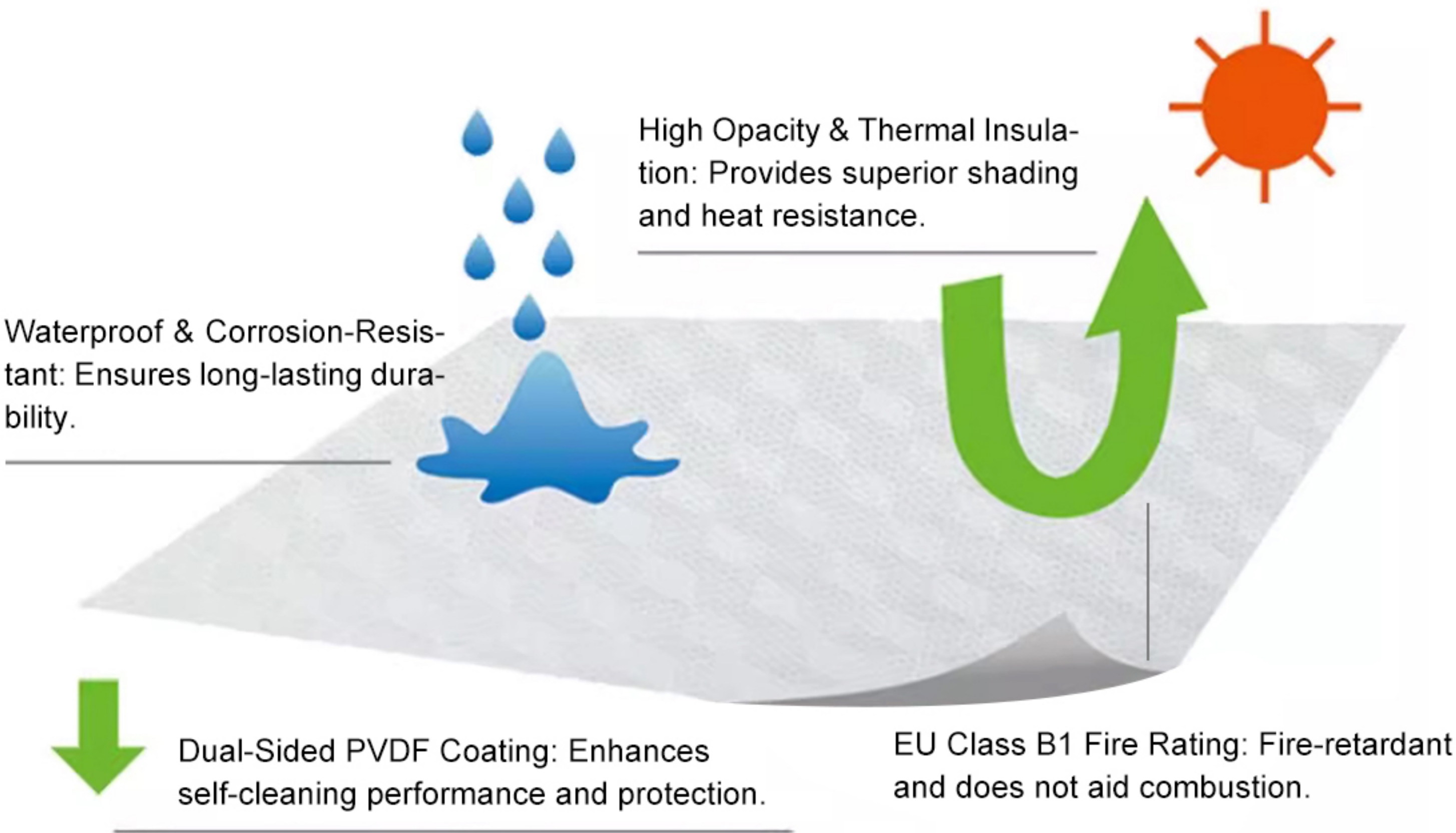
Ensures complete waterproofing and electrical safety.



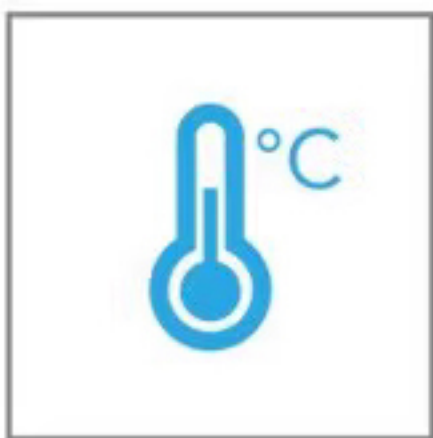


3D EMBOSSED OUTDOOR WATERPROOF PVC FABRIC

Wear resistance, high tear and tensile strength



Thermal insulation
and sun protection



More than 80%
are isolated from solar heat



Over 90%
shading rate

EXCELLENT **RAIN** AND **SUN** PROTECTION FUNCTIONAL OUTDOOR FABRIC



Durable
Knife-Coated
Fabric



850g/sqm
Heavy-Duty PVC
Base Fabric



Anti-Aging Treatment
for extended
service life



Dual-Sided PVDF
Self-Cleaning
Coating



UV-Resistant
Treatment to
prevent degradation

Retractable Roof Pergola

◆ Fabric Specifications

Material Composition:

PVC + Polyester

Fabric Thickness:

0.67 mm

Fabric Weight:

850 g/m²

Tensile Strength:

Warp: 3210 N/5 cm, Weft: 2971 N/5 cm

Flame Retardant Rating:

GB 8624-2012

Tearing Strength:

Warp: 392 N, Weft: 360 N

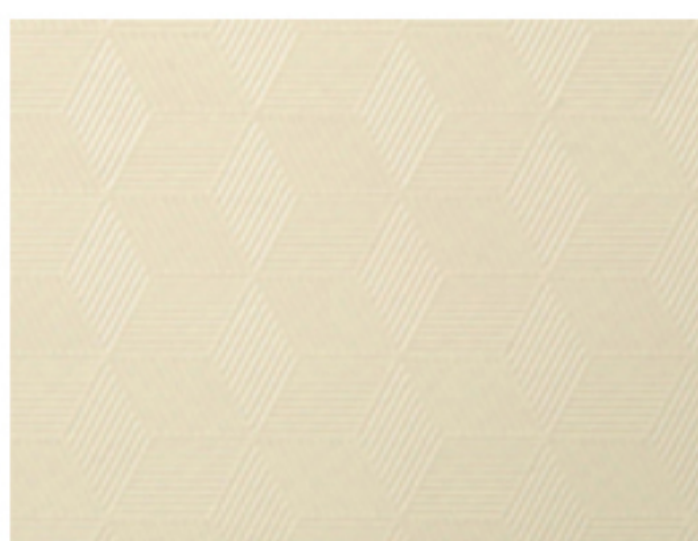
Color Fastness:

UV Resistance Level 4

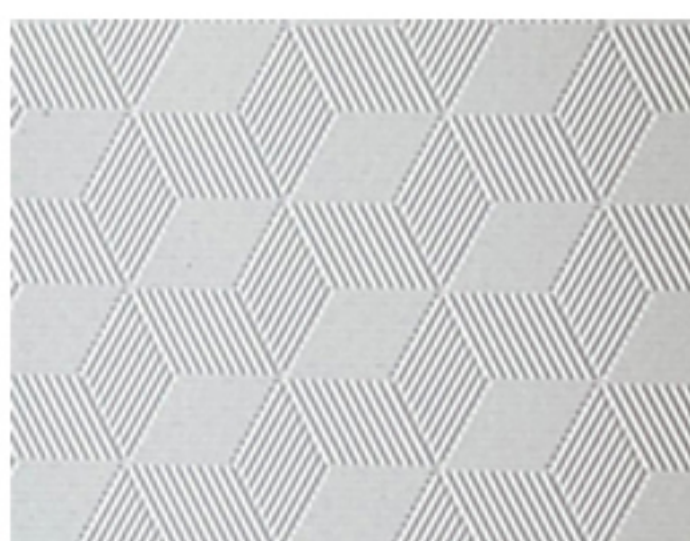


The outdoor 3D fabric has passed the appearance quality inspection according to Q/HFZZ 01-2019 and flame retardancy testing per GB/T 5455-2014, making it professionally suitable for high-end architectural outdoor awnings and other outdoor products.

◆ Available Fabric Colors



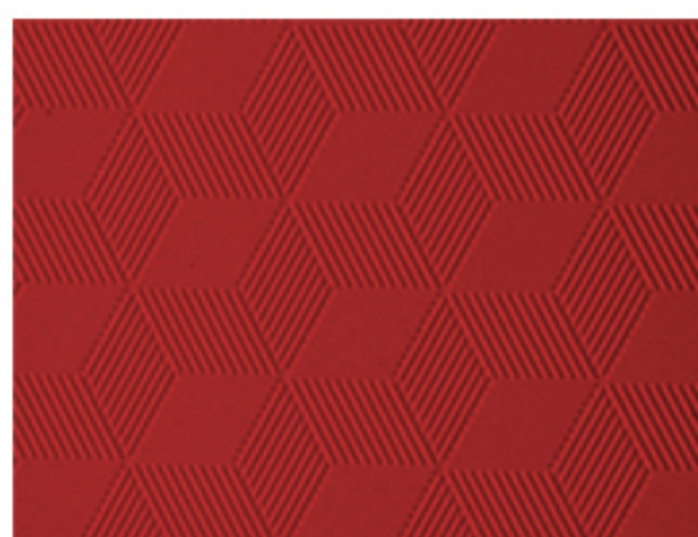
Beige



White



Gray



Red



Blue



Transparent

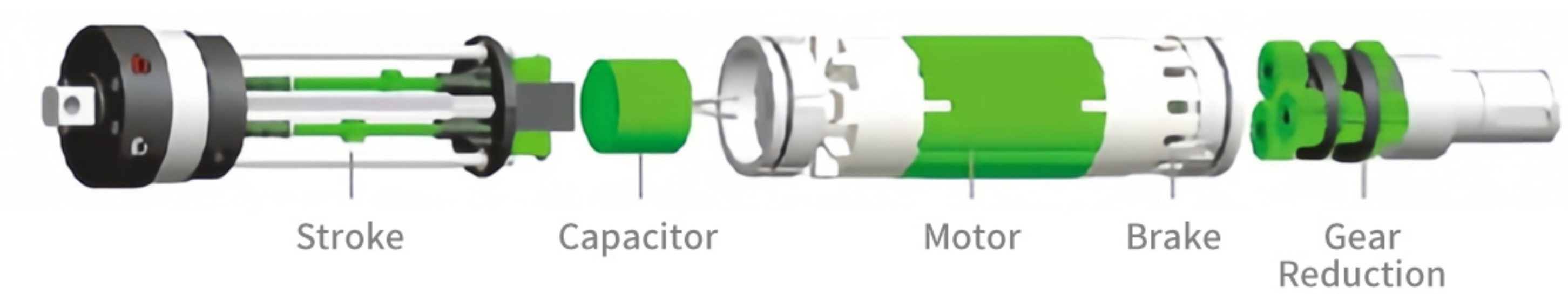
Retractable Roof Pergola

◆ Motor Specifications

Motor Name	Standard Tubular Motor		
Motor Model	DM59S-80/15	Rated Voltage	230 (V)
Outer Tube Diameter	59 (mm)	Frequency	50 (Hz)
Rated Torque	80 (N.m)	Rated Power	330 (W)
Output Speed	15 (rpm)	Rated Current	1.43 (A)
Continuous Operating Time	4 (min)	Protection Class	IP44
Maximum Limit Turns	22 (turn)	Product Length L1/L2	599/584 (mm)



Outline



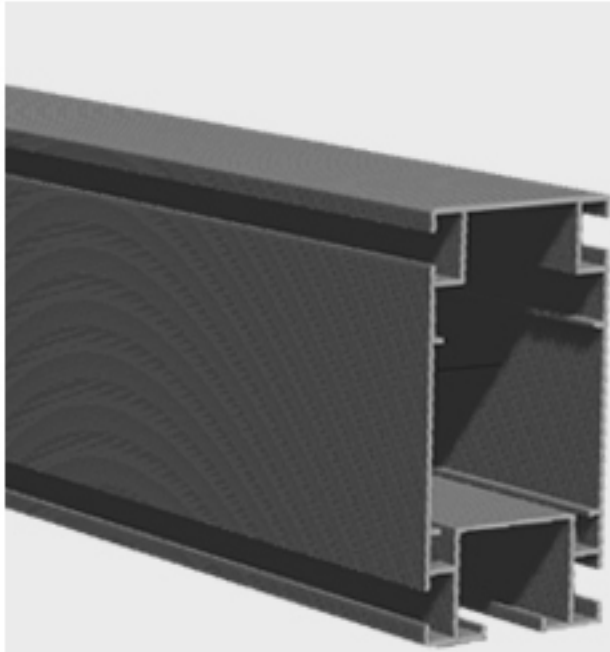
Inner Structure Picture



Dimension Drawing

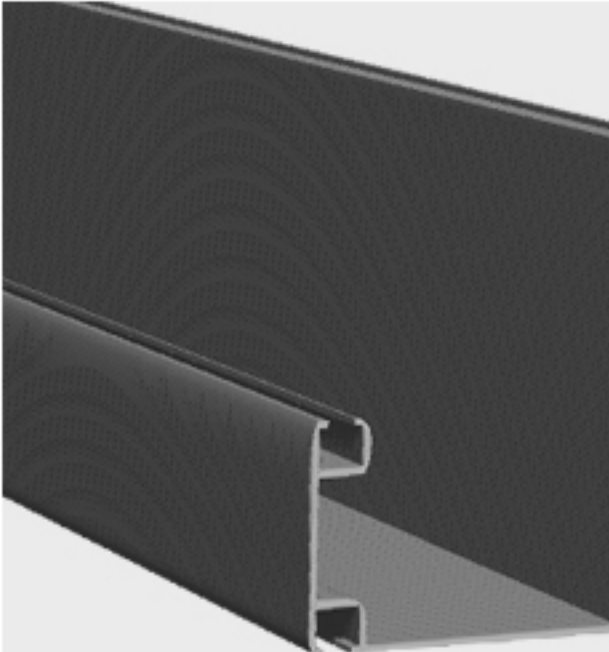
Retractable Roof Pergola

◆ Profile Parameters



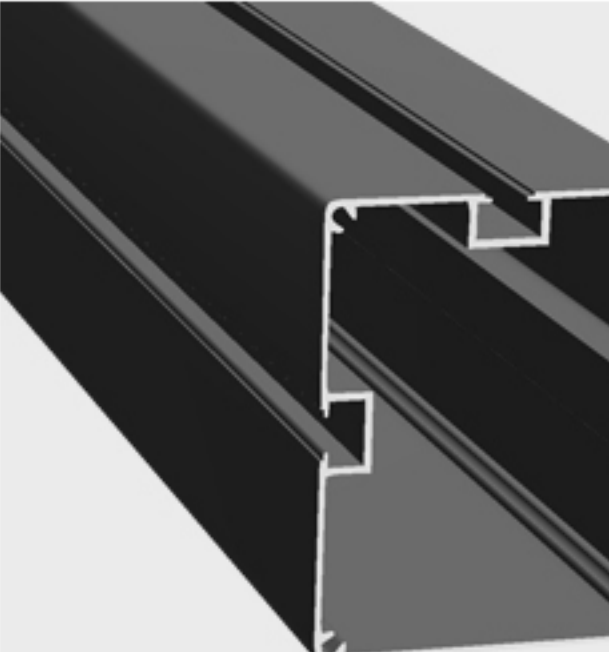
Track

Width 70mm × Height 130mm
Wall Thickness 1.8mm



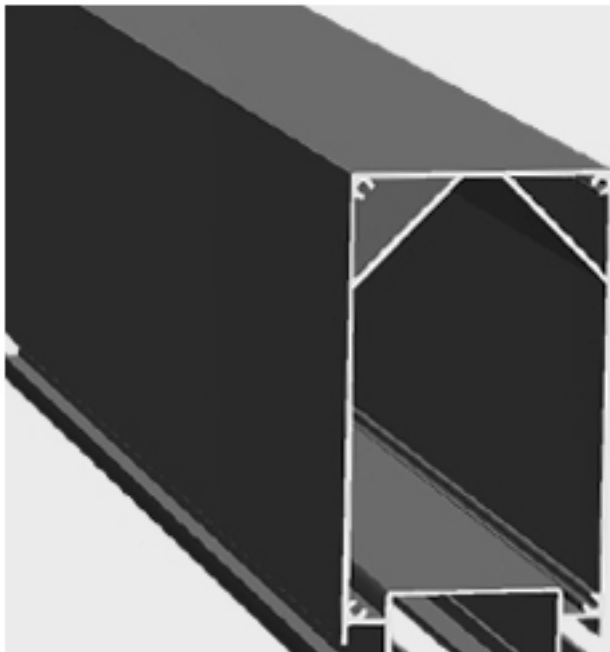
Gutter

Width 115mm × Height 115mm
Wall Thickness 1.6mm



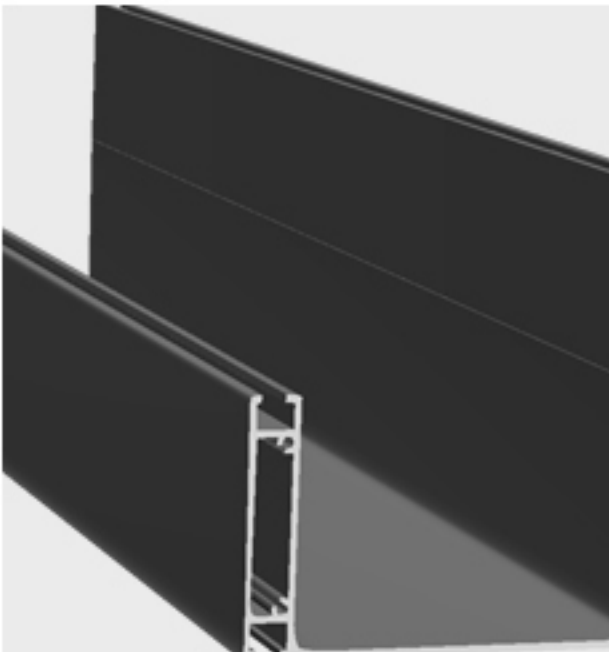
Column/Post

Width 100mm × Height 125mm
Wall Thickness 1.6mm



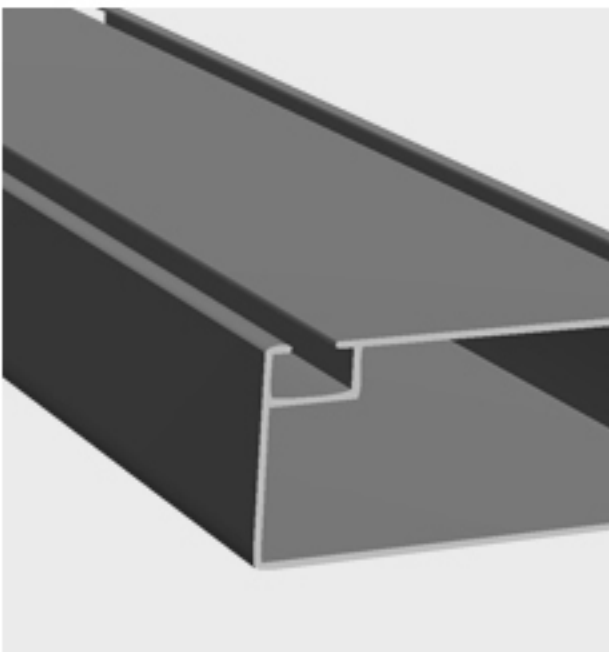
Large Track

Width 90mm × Height 170mm
Wall Thickness 2.0mm



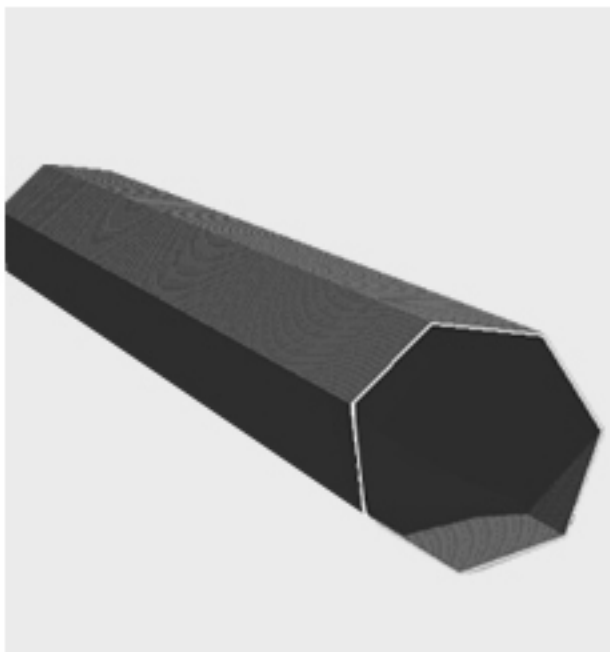
Large Gutter

Width 157mm × Height 150mm
Wall Thickness 2.2mm



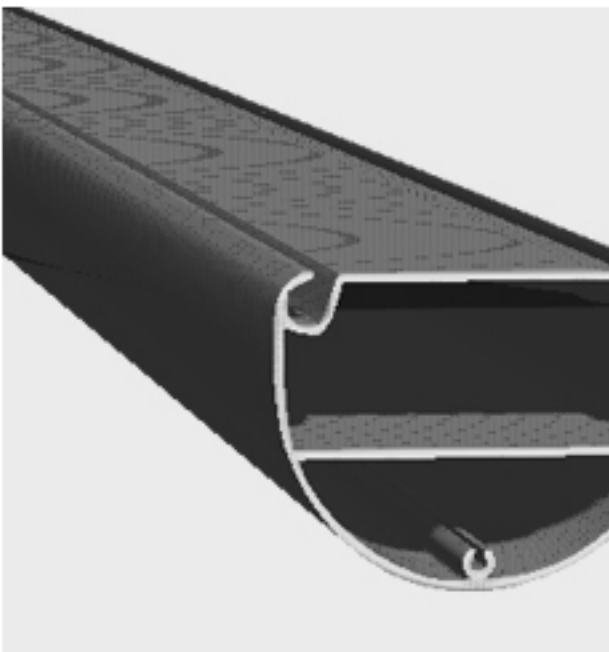
Secondary Beam

Width 129mm × Height 50mm
Wall Thickness 1.6mm



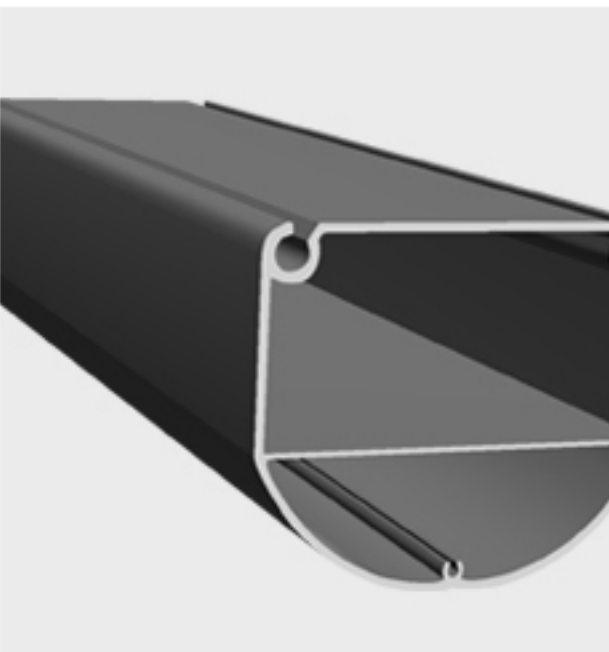
Drive Tube

Width 73mm × Height 73mm
Wall Thickness 0.9mm



Small Pull Rod

Width 85mm × Height 60mm
Wall Thickness 1.6mm



Large Pull Rod

Width 105mm × Height 90mm
Wall Thickness 2.0mm



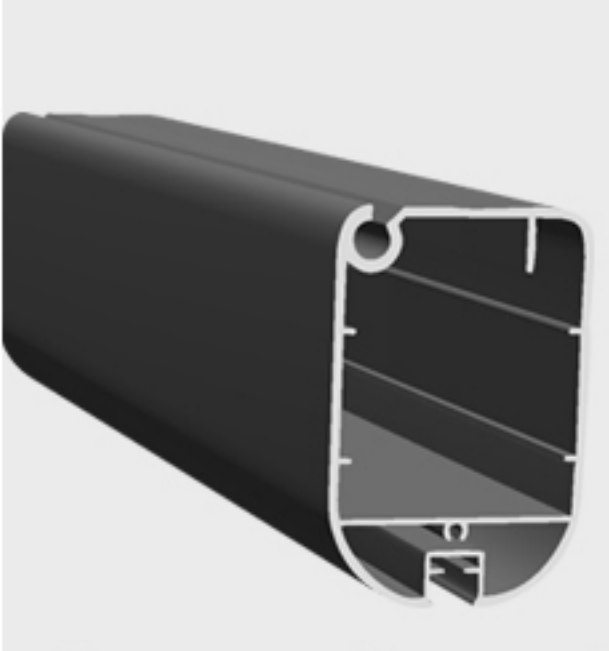
Crossbar
without Light

Width 36mm × Height 60mm
Wall Thickness 1.5mm



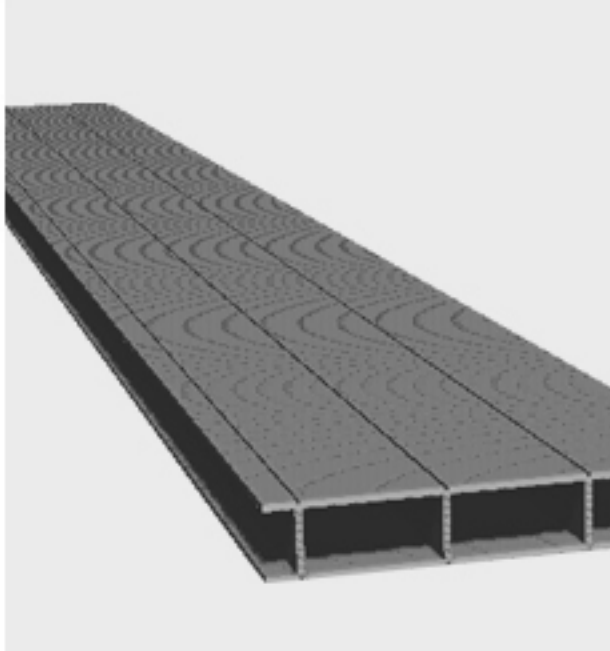
Crossbar
with Light

Width 36mm × Height 60mm
Wall Thickness 1.5mm



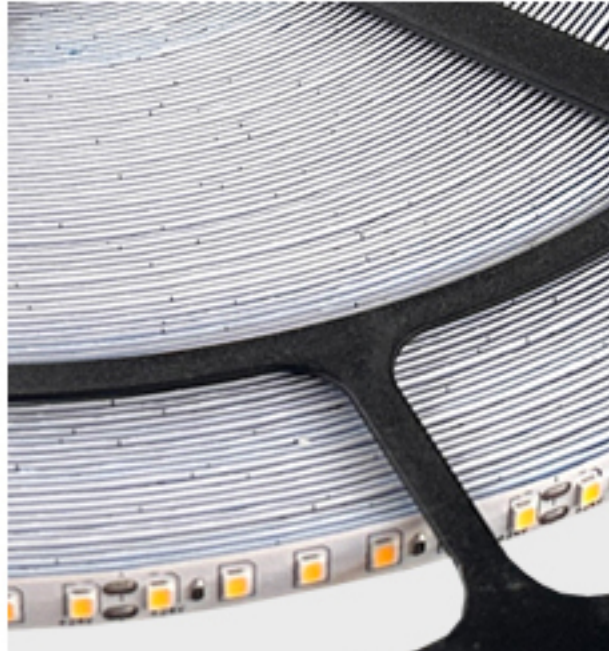
Large Crossbar
with Light

Width 60mm × Height 90mm
Wall Thickness 2.0mm



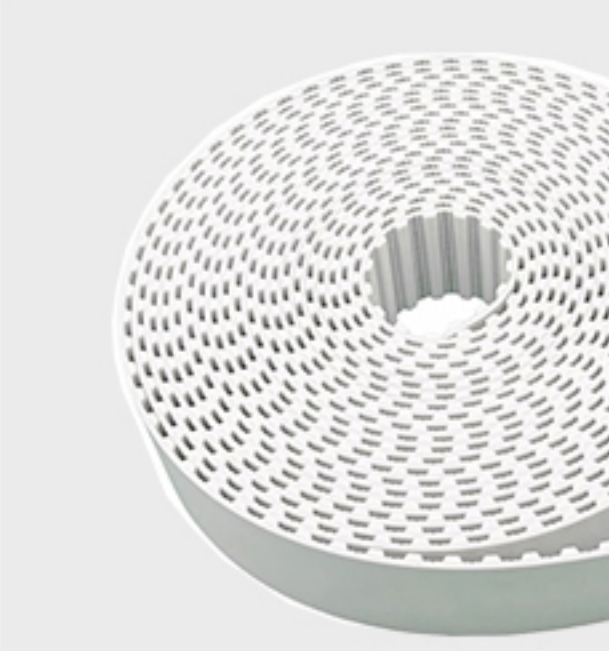
Weather Shield

Width 110mm × Height 22mm
Wall Thickness 0.7mm



LED Strip Light

3000K Warm White /
6000K Cool White



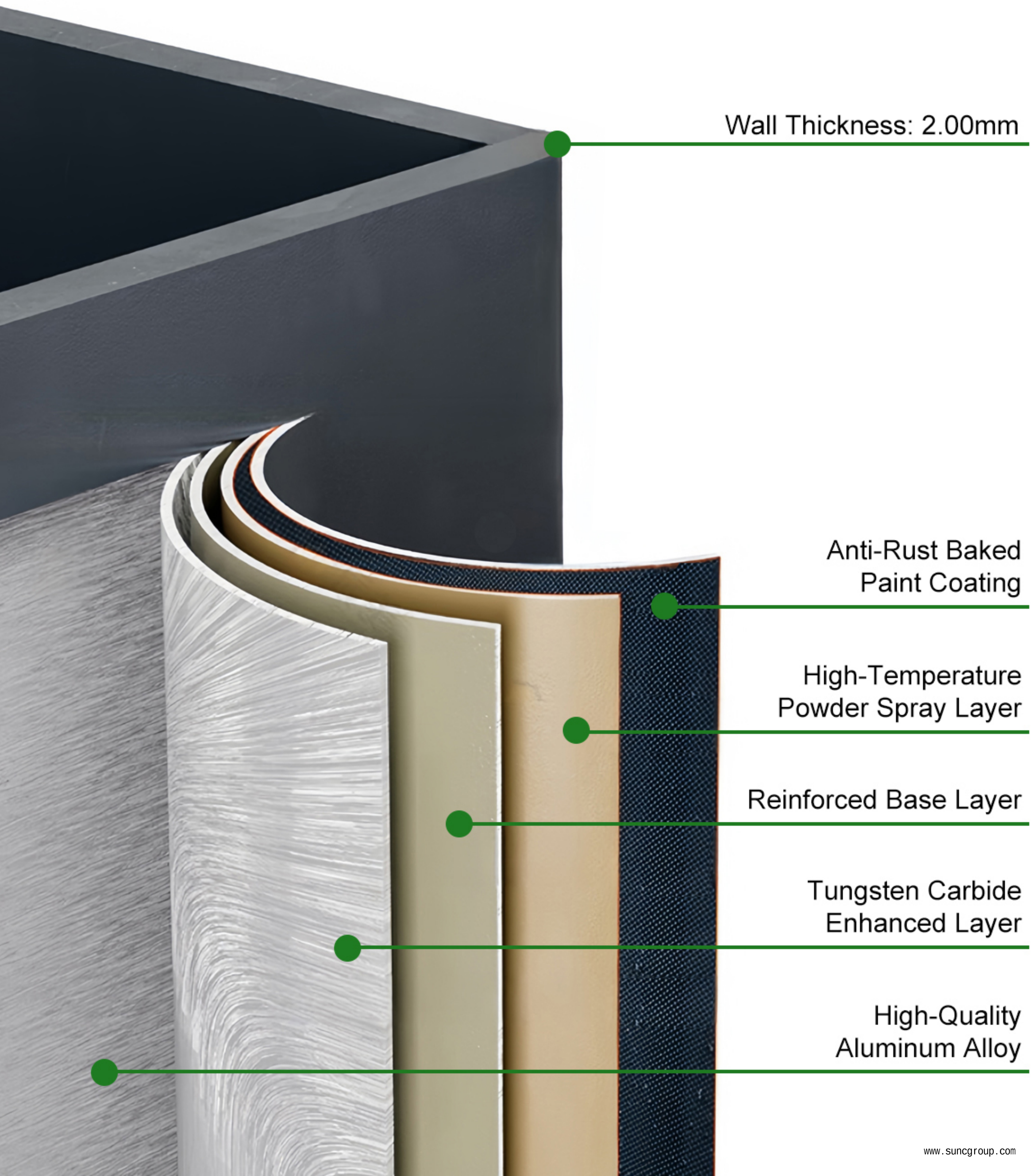
Synchronous Belt

Embedded with
14 steel wires

Retractable Roof Pergola

◆ Professional Outdoor Spray Coating Process

A sturdy and durable construction ensures a long service life. The thickened and reinforced aluminum alloy profiles feature a galvanized and baked paint finish, providing excellent water resistance and corrosion protection.



WHY CHOOSE US?

"YISITE — The Difference in Quality"

We dare to compare because of our superior quality!

Advantages in Profile Details

Ordinary Brand

Hardness Comparison



- ✓ High-strength stainless steel sheet offers excellent mechanical properties, with significantly higher yield strength and tensile strength than conventional steel. It effectively resists external forces and maintains outstanding shape stability.

- ✗ Common iron sheets have relatively low strength indicators and are prone to noticeable plastic deformation under load.

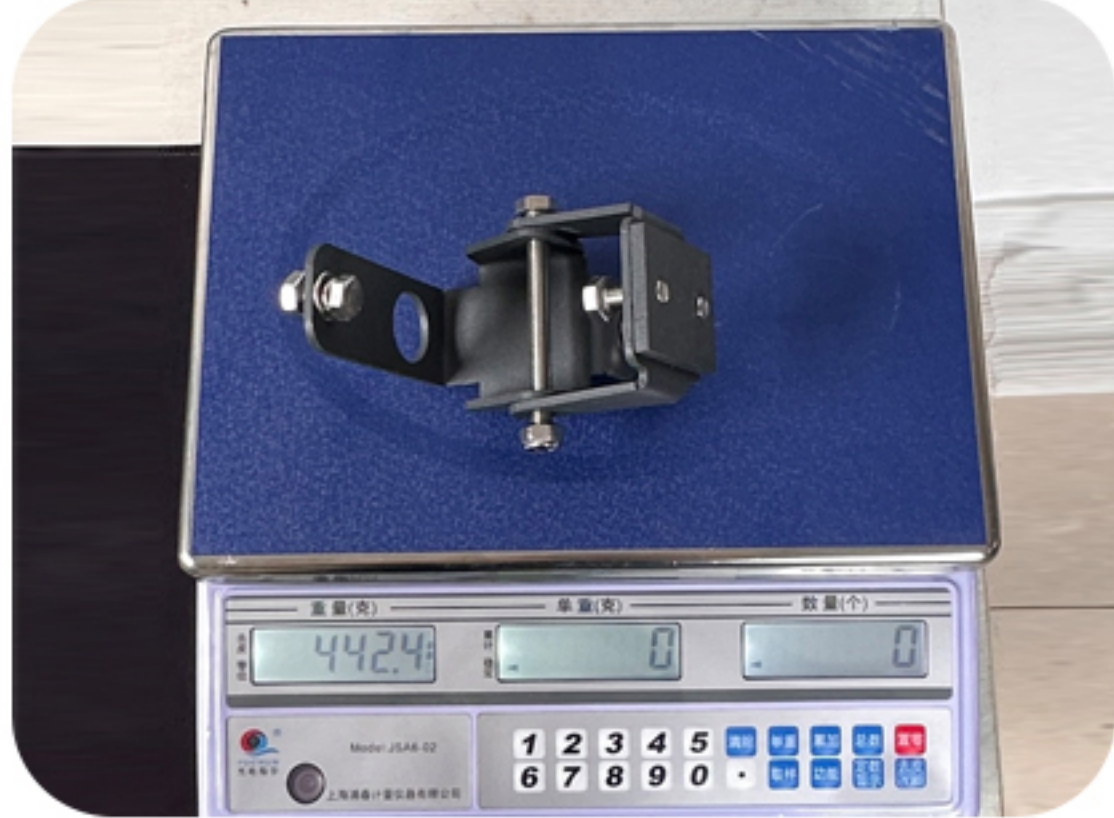
Forming Process Comparison



- ✓ Stainless steel sheets formed using an integrated molding process offer excellent impact resistance and structural integrity. This effectively avoids fatigue fracture issues common with traditional welded joints during long-term use.

- ✗ Welded joints in iron sheets suffer from uneven material properties. The heat-affected zone often experiences weakened mechanical properties such as AVE, BRE, and PME, becoming a performance bottleneck in the overall structure.

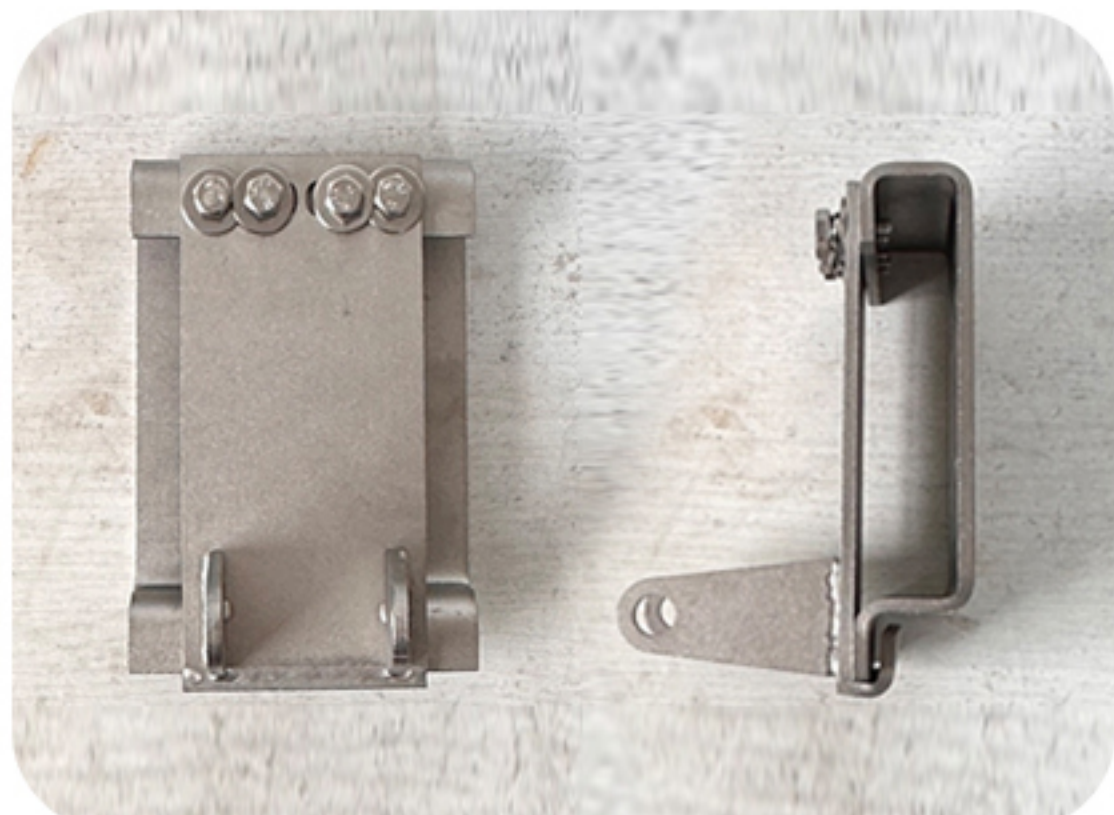
Density Comparison



- ✓ High-density stainless steel sheets provide outstanding wear resistance, excellent high-temperature stability, and superior oxidation and corrosion resistance.

- ✗ Iron sheets have lower density, insufficient wear resistance, and are prone to oxidation and rust.

Fixed Bracket Comparison



- ✓ Stainless steel fixed brackets use an integrated molding process, offering excellent mechanical strength and impact resistance. Their high toughness ensures long-term use without breakage, along with outstanding corrosion resistance for lasting durability.

- ✗ Aluminum brackets have limited load-bearing capacity, are prone to breakage under long-term loads, and suffer from insufficient toughness and poor corrosion resistance.

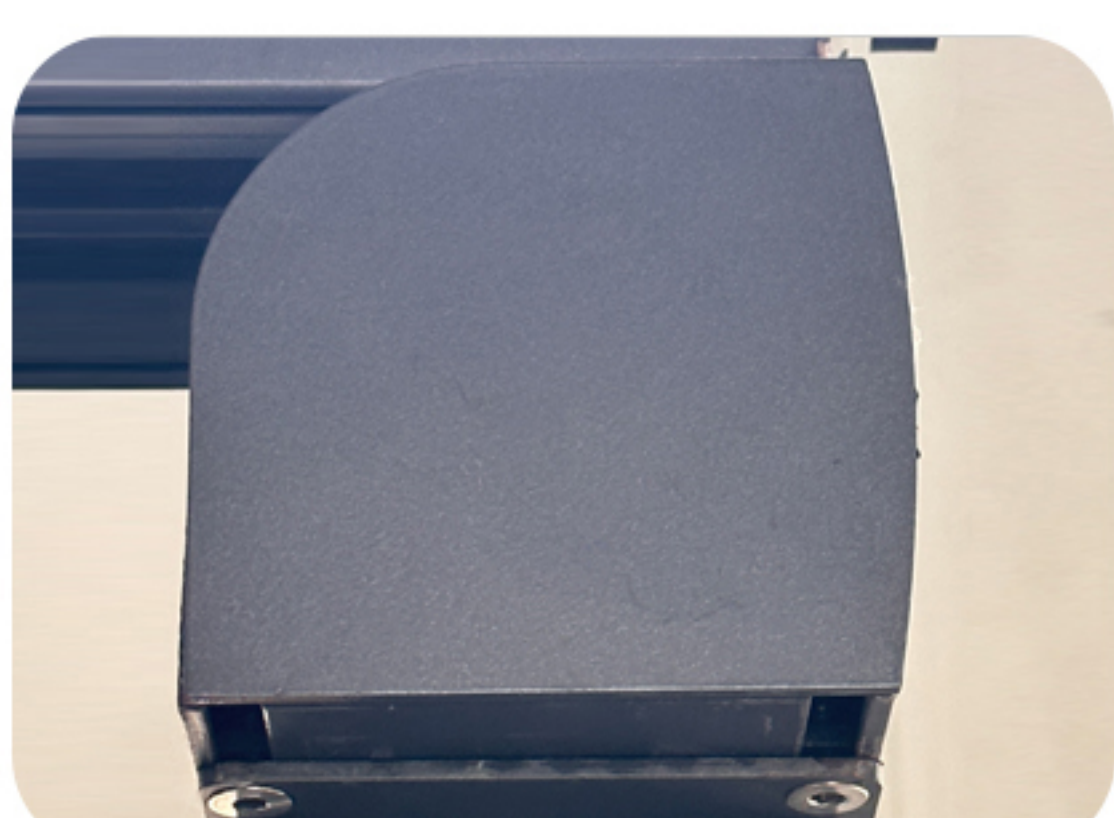
Drive Box Comparison



- ✓ The main drive box features a dual-side bearing design, with gears that operate with low resistance, smoother rotation, and lower energy consumption.

- ✗ The main drive box uses a PVC friction transmission structure on both sides, resulting in higher operational resistance and less smooth rotation.

Water Gutter Comparison



- ✓ The gutter is made of high-quality aluminum alloy with a tensile strength of 290MPa, ensuring sturdy and durable construction. Paired with 304 stainless steel screws, it provides rust and corrosion resistance for a longer service life.

- ✗ Iron sheets are prone to deformation, and paired iron screws are susceptible to rust and corrosion, leading to a shorter lifespan.

Appearance & Texture



- ✓ Wide-body iron ground brackets offer stronger support and greater stability. The aluminum alloy cover design provides dual protection: corrosion resistance + high aesthetics, ensuring long-lasting durability.

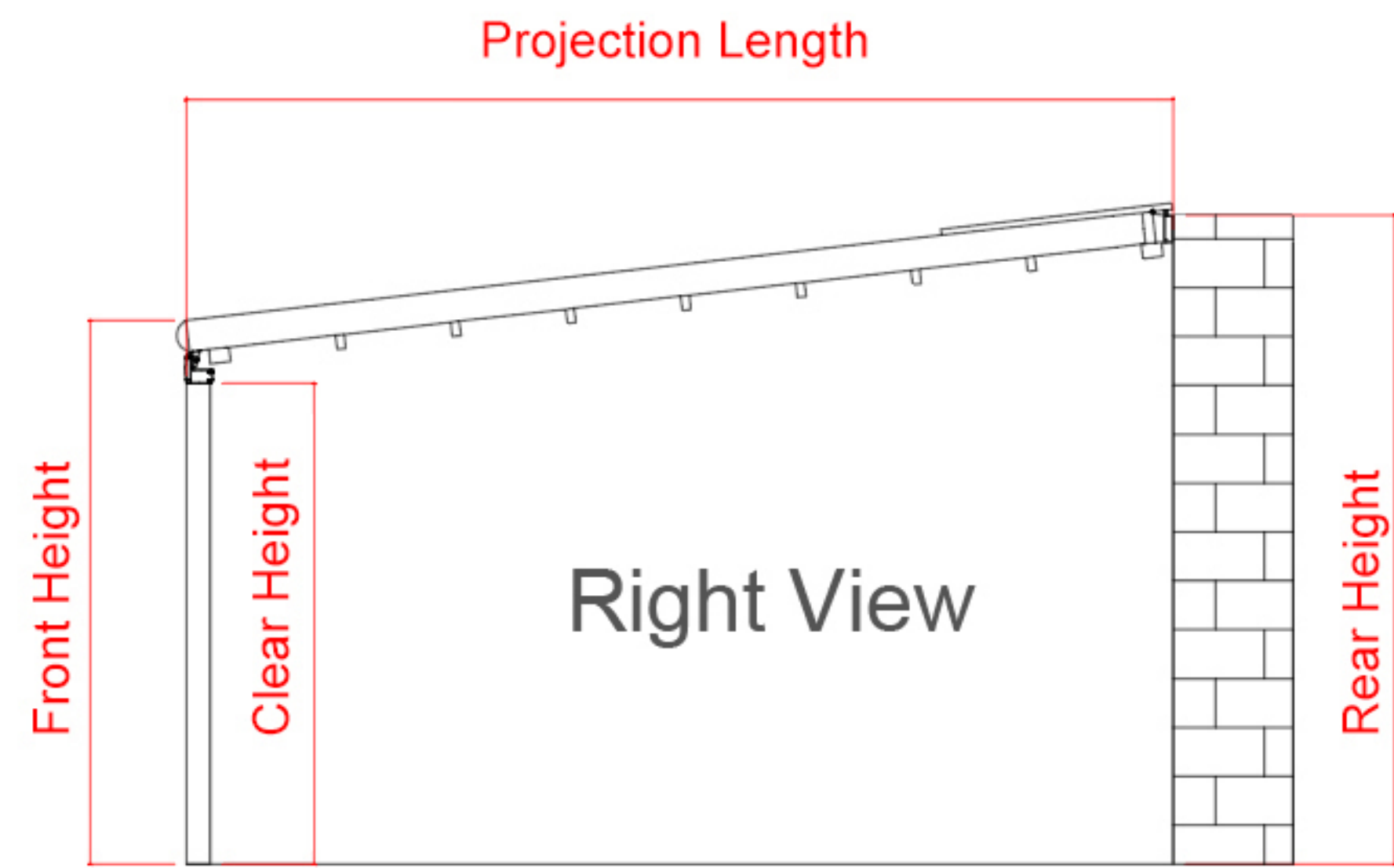
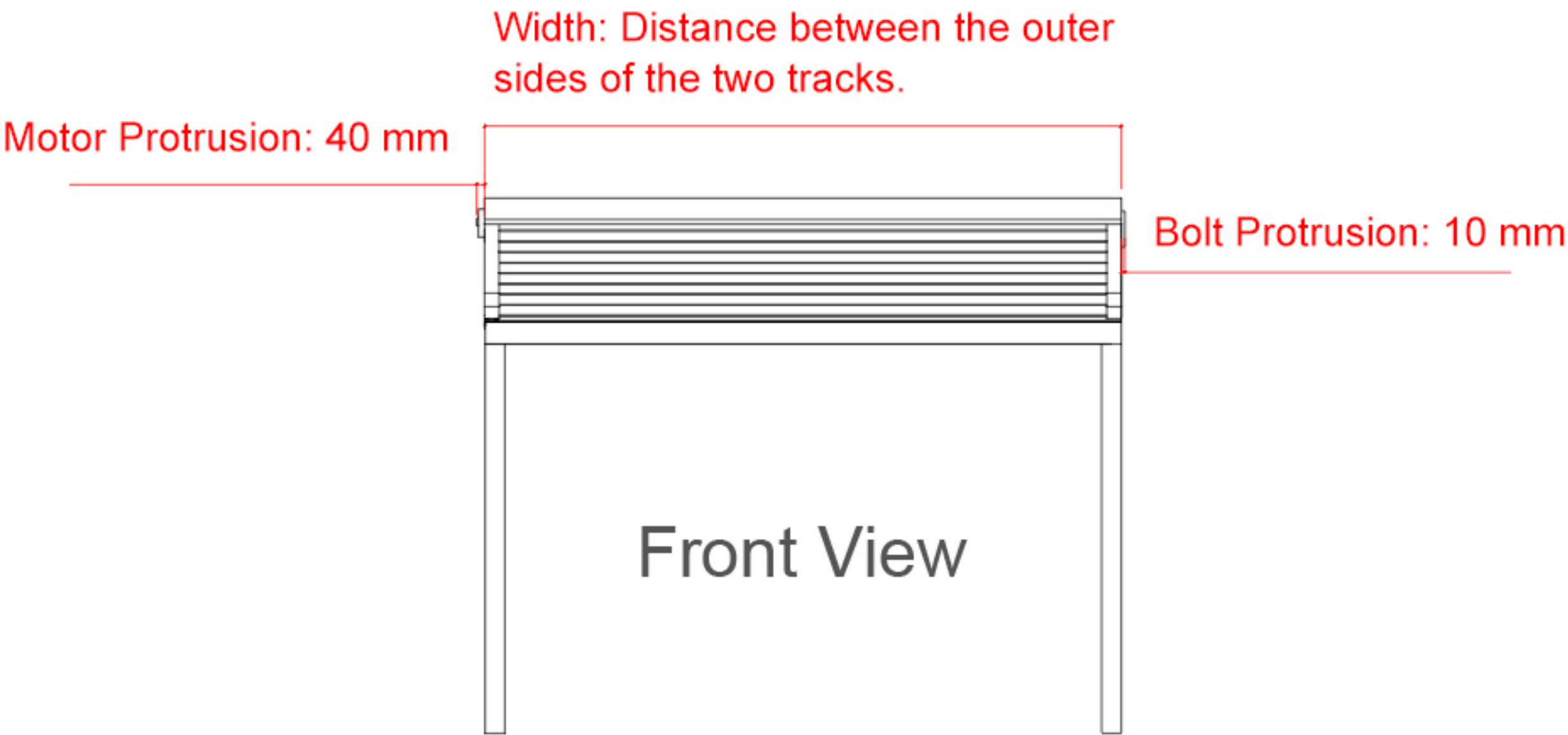
- ✗ Ordinary ground brackets have a narrow support surface, poor stability, and are prone to corrosion.

Retractable Roof Pergola

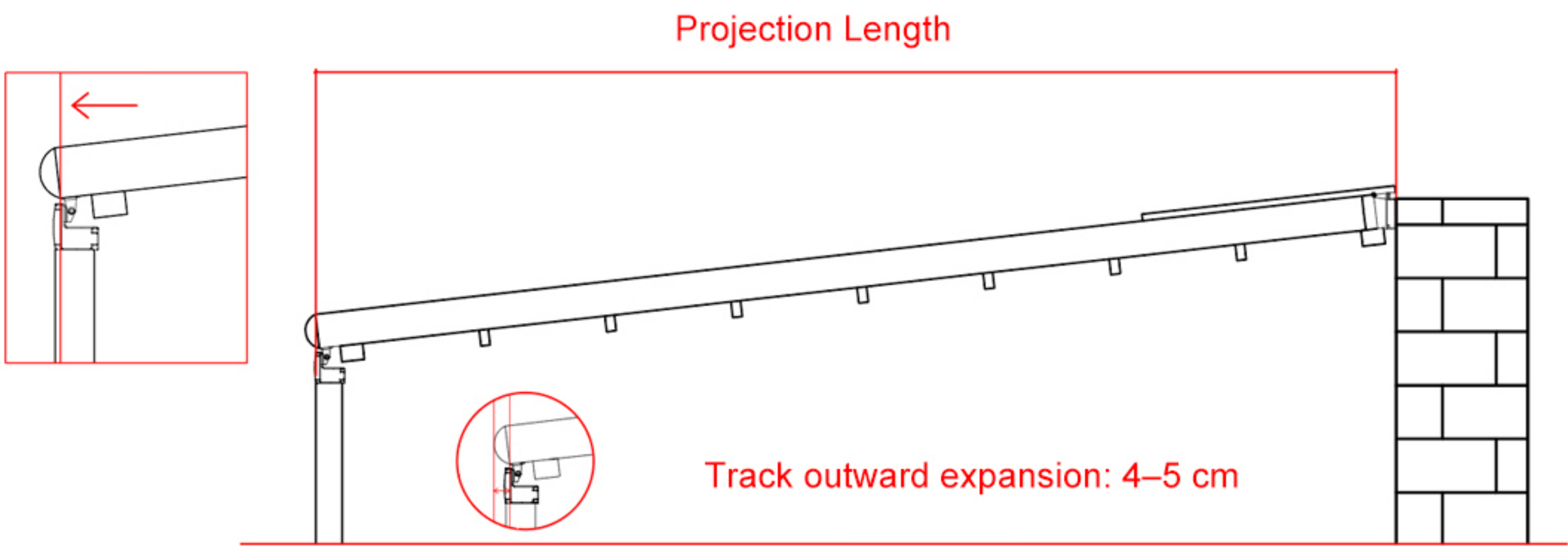
◆ Size Specifications

When ordering a Retractable Roof, five key dimensions must be provided: Front Height, Rear Height, Width, Projection Length, and Clear Height.

- Front Height:** distance from the base to the top of the track.
- Clear Height:** Height of the front column/post.
- Rear Height:** Distance from the base to the top (at the rear).
- Projection Length:** Horizontal distance from the wall bracket to the front column/post, not the length of the track.



$\text{Front Height} - \text{Clear Height} = 280 \text{ mm}$



Retractable Roof Pergola

◆ Professional Sunshade Products Manufacturer

10

Dedicated
Production
Lines



Your Full-Service Partner

- Manufacturing
- Fabrication
- Custom Solutions



15+ Years
Professional
Manufacturing
Expertise



200
Partnering
Enterprises
And Merchants



3000m²

Modern
Production
Facility

www.suncgroup.com



INDUSTRY SOLUTIONS

Custom-designed sliding canopy for a restaurant patio, enabling seamless transition between open and covered spaces.



Motorized awning system at a boutique hotel terrace, creating a versatile all-weather lounge area for guests.



A modern retractable pergola installed in a residential backyard, providing shade and rain protection for outdoor dining.



Integrated retractable shading and lighting system in a corporate atrium, enhancing employee wellbeing with nature-connected design.



Large-scale retractable roof system covering a community plaza, providing adaptable shelter for public events and daily gatherings.

