



Sunshade篷 Product Technical Manual

1. Product Line Overview

model B04 Full-box Sunshade (Lightweight) B02 Heavy-duty Sunshade

Fixed position Compact Protective Design Large-span load-bearing solution

Maximum dimensions Width $\leq 6\text{m}$, overhang $\leq 3\text{m}$ Width $\leq 28\text{m}$, overhang $\leq 5\text{m}$
(width > overhang length)

Core Features All-aluminum alloy housing protection 5.0mm double-chain curved arm with ultra-high load-bearing capacity

II. Comparison of Core Parameters

1. Skeleton Construction

Assembly	B04	B02
Main profile	6063-T5 aluminum alloy	6063-T5 aerospace aluminum alloy (thickness 5.0mm)
Crank arm	304 Stainless steel chain	304 Stainless steel double chain
Weight capacity	200kg	350kg+

Wind-resistant design: Concealed drainage front pipe + thickened spring 40×60×2.0mm hot-dip galvanized double-sided pipe fixing

2. Fabric Properties

LUXDOOR

type	Recasens, Spain	Germany Swela	Domestic polyester
Color fastness	5 years (actual duration: 4-6 years)	10 years	2-3 years
Anti-tear	Longitudinal direction: 130 daN/5 cm, Latitudinal direction: 78 daN/5 cm	Equally excellent	Lower
Special techniques	Dyeing acrylic fibers	Self-cleaning of nano-coatings	Basic waterproof and sun protection
Feel	Relatively soft	Moderate	Relatively hard

Note: The grammage of imported fabrics is uniformly 300g/m² ±5%, with UV resistance ≥80UV+.

III. Key Technical Details

► B04 Full Box Edition Core Design

Full-shell protection: Fully wraps the fabric when retracted to withstand harsh weather conditions

Joint reinforcement: 304 stainless steel tweezers rod pin + bulletproof protective sleeve

Arm optimization: Heightened tail piece reduces friction, corrugated carbon steel coil fabric pipe (plating 0.8g, rust-proof for 5 years)

► B02 Heavy-Duty Core Design

Double-chain load-bearing: 5.0mm aviation aluminum curved arm (single support weight 23.35 kg), collapse-resistant design

Motor requirements: Minimum configuration 80N tubular motor (required for 5-meter extension)

Installation base: Solid load-bearing wall (wall size 137 × 107mm)



IV. Installation and Optional Features

project	General Configuration	Value-added options
Drive mode	Standard remote control electric (on/off/Stop)	Manual version (cost reduction)
Inductor	—	Wind, rain, and sun will automatically turn off. You can set the range value.
Lighting system	Standard includes lamp	Can be canceled (price reduced)
Applicable wall surface	Solid wall/concrete beam	Lifting (requires structural reinforcement)

5. Application Scenario Guide

Scene type	Recommended model	Typical size	Case
Villa/Café	B04	Width!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!	Outdoor dining bar, courtyard
Hotel/Club	B02	Width 15-25m, overhang 4-5m	Pool shading, outdoor restaurant
Logistics Center/Parking Lot	B02	Width> 20m, overhang ≥ 4m	Storage shading and vehicle protection

VI. Competitive Advantage Comparison

B04 End Cover: Full-box design > Competitor's open structure



B02 Curved Arm: Double chains + 5.0mm aerospace-grade aluminum> Competitor's single-arm tube connection (high collapse risk)

Coating process: Carbon steel coating of 0.8g (5-year rust resistance)> Competitor's 0.4-0.6g

Appendix: Key Points

- 1、 The extension length **must not exceed the width**(applicable to both B04 and B02)
- 2、 When extending 5 meters, **an 80N or higher motor must be used.**
- 3、 Non-solid walls require reinforcement or replacement with hoisting systems