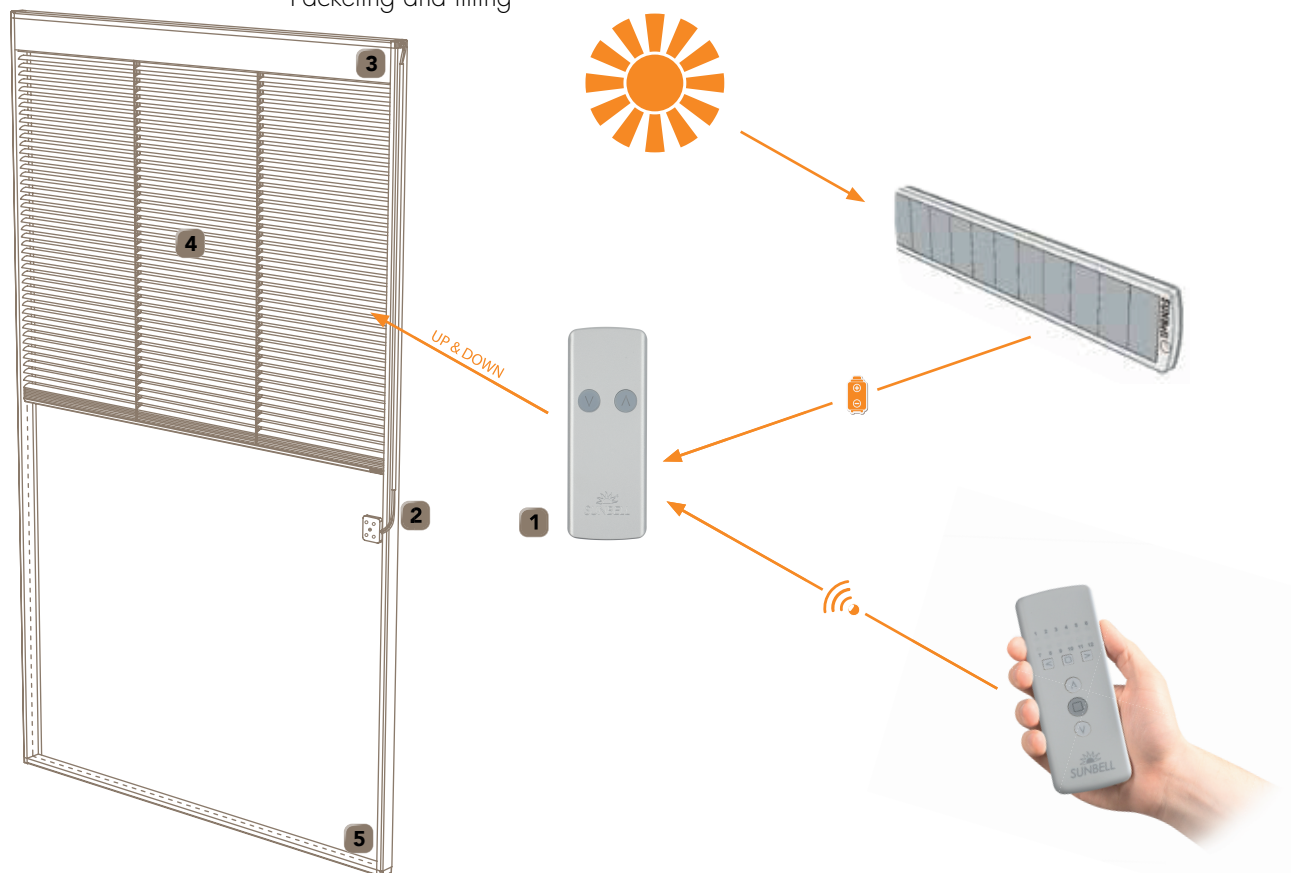


TV27VMB (DOUBLE GLAZING 27 MM) / PHOTOVOLTAIC

Venetian blind (double glazing 27 mm) motorized with a rechargeable battery
Packaging and tilting



FEASIBILITY TABLE (possible measurements)

[illegible]

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1. PRODUCT DESCRIPTION

01:01 Product identification

Venetian Blind TV27VMB motorized thanks to the rechargeable battery actuator for assembly in an insulating window

01:02 Description

First patented system of Venetian blinds in double glazing with magnetic transmission wireless actuator. This extremely innovative system works through a battery actuator which can be recharged using the special battery charger. In addition, the presence of the photovoltaic panel helps recharge the battery pack of the actuator. No electrical wiring required. By placing this actuator on the respective magnetic connector fixed to the window or frame, the up or down impulse can be transmitted in the fast automatic function or in the slow manual function keeping the arrow buttons on it pressed.

2. TECHNICAL FEATURES

02:01 Product identification

Motorized Venetian blind made up of:

- rechargeable battery actuator
- battery charger
- wiring with magnetic connector
- reduction gear
- aluminium slats
- various extruded aluminium profiles
- cord
- terylene ladder braid
- various metal and plastic components
- photovoltaic panel

1 Battery actuator

Rechargeable lithium battery actuator with electronics for blind movement operation and endblocks. Management of fast automatic function until endblocks or to the desired level and slow manual function for tilting slats. Software system with tamperproof function and motor power supply protection, red LED when battery is flat, green LED when charging and functioning. Safety management in case of accidental blockage of blind. Also available in the version with radio receiver.

2 Wiring with magnetic connector

Plate with four cables and Amp connector for connection to blind and magnetic connector, easy to apply to window or to frame. Connector dimensions 27 x 30 x 5 mm high with one tapered hole for fixing to frame and specific biadhesive for sticking to glass.

3 Reduction gear

Micro-reduction gear with diam. 18 mm, placed in a special plastic support inside the aluminium profile. This micro-reduction gear is controlled by a special 12V motor, controlled by the actuator. Transmission ratio R=231.

Slow shaft speed -30/40RPM. Max. current absorbed 1A. Precise broached steel body (degree 7). M0.40 high precision gears, in treated steel, mechanically machined. Slow shaft supported by 2 ball bearings diam. 8/16 H5.

4 Aluminium slats

The main alloy used for the slats is alloy AA 6011. Dimensions; width 12.5 mm, thickness 0.21 mm. The chemical composition of this alloy is made following the directives of the Aluminium Association and has been chosen for its remarkable mechanical properties and their stability. This material is particularly suitable for uses requiring NO-FOGGING properties as in the case of insertion in double-glazing. All the layers of the laminate of the slat are cold pre-treated to guarantee perfect and lasting adhesion of the paint and considerable resistance against conditions of high humidity. This thermotop treatment means that the slats, made of these layers, behave exactly as a heat regulator. The slat, chemically pre-treated, is supplied with a finish suitable for indoor applications. The decorative finish usually consists of a single coat of polyester. This finishing process is subject to stringent controls on the line. The process and final quality selection ensures that the material is free of fogging. 9 colours of slats available. All the tests are performed in conformity with EN standards and others that include internationally accepted specifications and testing methods.

5 Extruded aluminium profiles

The extruded profiles are made from aluminium alloy EN AW 6060 with a chemical composition defined by standard EN 573-3. The metallurgical state of supply is T5 unless otherwise specified, according to the standard UNI EN 515, with mechanical characteristics according to standard UNI EN-755-2. Box and back powder coated to match the colour of the slats. Dimensions of box: 22x44.90 (part with flap)/39.90 (part without flap) mm. Dimension of back: 11x12,60 mm

6 Cords and ladder braids

Cords made from 100% polyester with 100% 280/2x3 entwined polyester core- Entwinding: 16 ends - diameter: 1 mm Traction resistance: 120-200N - treatment: stabilized - colour tests: Xenon test 6 - ladder braids: Made from 100% polyester- construction of ladder braid: 2 cables without distance - resistance to traction on both sides: 240N - colour test: Xenon test 6 - pitch: 10 mm - diameter: 1 mm - Traction resistance: 120-200N - treatment: stabilized - colour tests: Xenon test 6

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