

NOLVANT

EUROPEAN OUTDOOR-LIVING SYSTEMS

WINSOL

Architecture.
Comfort. Precision.

winsol × NOLVANT

PRODUCT + TECHNICAL COLLECTION

SO! ROOFS / SO! COMBI / ZIP / ZIP CUBE

COLLECTION OVERVIEW

One platform. More possibilities.

A visual and technical guide to WINSOL pergolas, roof choices, enclosure options and integrated comfort.



01 / PRODUCT

Start with the roof.

Explore SO! louver, wood and glass roofs, Combi configurations, and Z!P fabric-roof models.

02 / CONFIGURATION

Build the complete space.

Select the structure, side walls, drainage, finishes and controls as a coordinated system.

IN THIS COLLECTION

Model gallery + roof systems

Walls + comfort + controls

Selection + project planning

PAGE GUIDE

03-16 / 25-27

17-24

28-31

Sources: WINSOL technical data, pp. 4, 31-60; English product brochure.

ROOF + MODEL GUIDE

Find your roof expression.

Four SO! roof systems, each with a distinct relationship to light, shelter and architecture.



ADJUSTABLE LOUVERS

SO! Classic

Tilt the roof louvers to change shade and airflow.



TIGHTER LOUVER CLOSURE

SO! Climate

A louvered roof with a tighter closing interface.



FIXED WOOD-FINISHED ROOF

SO! Cocoon

A solid roof with a warm wood-slat interior.



FIXED GLASS ROOF

SO! Crystal

Overhead daylight through laminated glass.

Sources: supplied SO! technical data; official WINSOL model pages. Imagery includes manufacturer renderings.

ROOF + MODEL GUIDE

Combine. Retract. Open up.

Explore a mixed SO! roof or choose a fabric-roof pergola with a different opening experience.



SO! COMBI

A wooden Cocoon roof and louvered roof in one coordinated concept. Define sheltered and adjustable-shade zones together.



Z!P

Pitched retractable-fabric roof; wall-attached with integrated post drainage.



Z!P CUBE

Horizontal retractable-fabric design. A distinct system without built-in roof drainage.

Sources: official WINSOL SO! Combi, Z!P and Z!P CUBE model pages. Availability confirmed at quotation.

MODEL PORTRAIT / FIXED ROOF

SO! Cocoon

A sheltered garden room with the texture of real wood overhead.



WOOD CEILING / INTERIOR



ENCLOSED GARDEN-ROOM CONCEPT

Explore fixed or sliding glazing, wood walls and integrated lighting. The roof combines sandwich panels, a wood-slat ceiling and an EPDM weathering layer. Technical details on page 25.

WINSOL / SO! Cocoon product page | Official manufacturer imagery; options shown vary.

MODEL PORTRAIT / GLASS ROOF

SO! Crystal

See the sky. Keep an architectural roofline.



ROOF + RAFTER VIEW



OVERHEAD GLASS CONFIGURATION

Explore glazing, integrated screens and roof shading as a coordinated selection. Crystal has dedicated glazing, slope and drainage requirements. Technical details on page 26.

WINSOL / SO! Crystal product page | Official manufacturer imagery; options shown vary.

MODEL PORTRAIT / MIXED ROOF

SO! Combi

Different roof experiences within one outdoor environment.



EVENING / LINKED ROOF ZONES



SHELTERED WOOD-CEILING ZONE

Combine Cocoon with a louvered roof to create different uses side by side. Discuss other mixed SO! module arrangements through project-specific configuration review.

WINSOL / SO! Combi product page | Official manufacturer imagery; options shown vary.

MODEL PORTRAIT / RETRACTABLE FABRIC

Pergola Z!P

A pitched fabric roof that retracts toward the house.

**INTEGRATED USER CONTROLS****FRONT-BAR DETAIL**

The wall-attached Z!P has a sloped roof and integrated post drainage. Explore lighting, screens and accessory packs; obtain Z!P-specific dimensions and installation details for the project.

WINSOL / Pergola Z!P product page | Official manufacturer imagery; options shown vary.

MODEL PORTRAIT / RETRACTABLE FABRIC

Pergola Z!P CUBE

A horizontal frame with tightly stretched, retractable fabric.



WALL + FRAME OPTIONS



INTEGRATED PUSHBUTTONS

Explore wood-look accents, decorative walls and lighting. CUBE has no built-in drainage; its rain/snow sensor retracts the fabric in excessive rain. Confirm the sensor package and operating conditions.

WINSOL / Pergola Z!P CUBE [product page](#) | Official manufacturer imagery; options shown vary.

PERGOLA INSPIRATION

Picture the complete environment.

Use the roof, perimeter and lighting to give each outdoor space its own character.



POOL-SIDE LOUNGE



EVENING ENTERTAINING



GLASS + OPEN VIEWS



GARDEN OFFICE / RETREAT

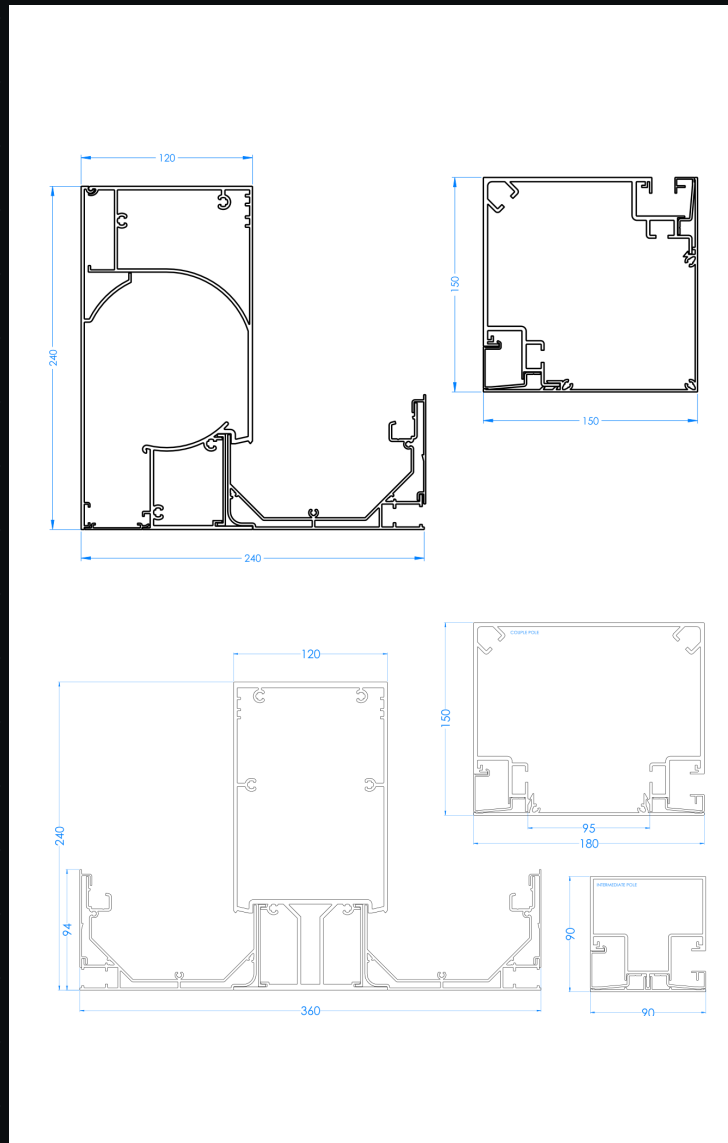
Peranda, pool house, garden office and hospitality settings describe uses and enclosure concepts. Roof selection and technical requirements are resolved separately.

Photography and product renderings: WINSOL. These are application examples, not additional roof models.

STRUCTURE + COMPONENTS

The architecture behind SO!

Integrated profiles organize the roof, gutters, screens and service routes.



01

Main housing

Single housing shown at 240 mm high × 240 mm overall section width; coupling housing is 360 mm wide.

02

Post profiles

150 × 150 mm corner post; 90 × 90 mm intermediate post. Linking posts have a dedicated profile.

03

Integrated details

Housing covers, gutter covers, screen guides and LED covers create a coordinated exterior with concealed functional elements.

MEASURE THE SYSTEM

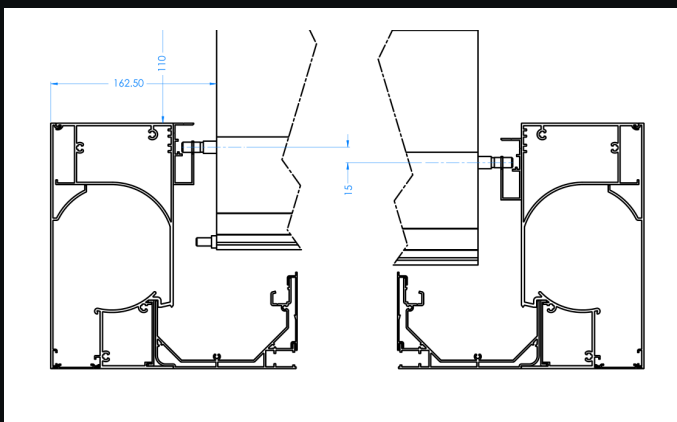
Record overall dimensions, post positions, beam orientation and finished-floor heights before selecting side walls.

Source: WINSOL technical data, pp. 6-8. Manufacturer sections; dimensions in mm; not to scale.

ROOF SYSTEM / 01

SO! Classic

Adjustable aluminum louvers for an outdoor space shaped by sun and shade.



CONTROL THE OPENING

Tilting louvers let the user adjust daylight and ventilation. The manufacturer describes the closed roof as waterproof, but not fully windproof.

A Classic-only fixed-louver option can accommodate a fan; WINSOL recommends a maximum 8 kg load and does not supply the fan.

PRODUCT FIT

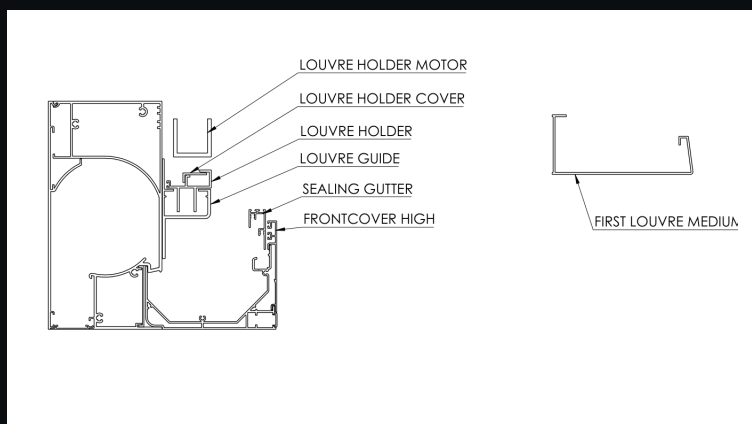
A starting point for open terraces where adjustable shade and airflow are central to the design. Confirm site suitability and selected accessories.

Sources: WINSOL technical data, pp. 31-32, 38. Manufacturer section; not to scale.

ROOF SYSTEM / 02

SO! Climate

A tighter closing interface for more sheltered outdoor settings.



CLOSURE + COMFORT

Climate louvers close more tightly against the gutter. Dedicated guides, sealing gutters and front covers support the closing system.

Optional louver insulation adds sound damping; it does not establish a whole-room thermal rating.

PRODUCT FIT

Explore Climate where tighter roof closure matters, particularly when coordinating a more enclosed terrace with suitable side walls.

Sources: WINSOL technical data, pp. 33-34, 37; English brochure, pp. 28-29. Section not to scale.

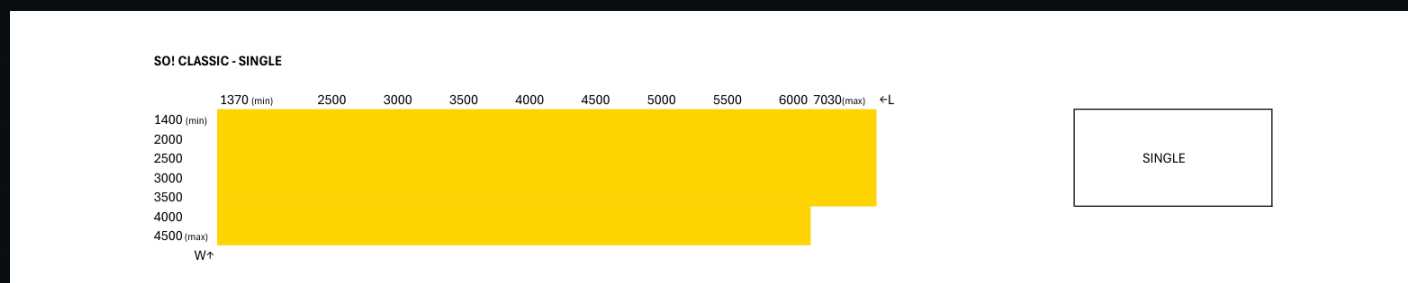
DIMENSIONS + ORIENTATION

Size the roof. Then verify the span.

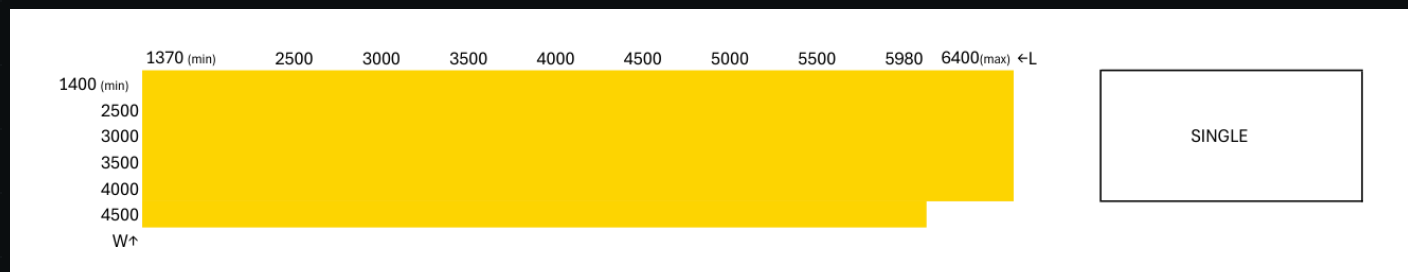
Published single-module limits are an envelope, not a promise that every maximum can be combined.

PUBLISHED AXIS LIMIT	CLASSIC / SINGLE	CLIMATE / SINGLE
L axis	1,370-7,030 mm Approx. 4.49-23.06 ft	1,370-6,400 mm Approx. 4.49-21.00 ft
W axis	1,400-4,500 mm Approx. 4.59-14.76 ft	1,400-4,500 mm Approx. 4.59-14.76 ft
Overall height range	750-3,000 mm Approx. 2.46-9.84 ft	750-3,000 mm Approx. 2.46-9.84 ft

CLASSIC / SINGLE-MODULE ENVELOPE



CLIMATE / SINGLE-MODULE ENVELOPE



L beams are perpendicular to the louvers; W beams are parallel. Shaded chart regions define permitted dimension combinations. Metric dimensions govern; imperial figures are approximate.

Sources: WINSOL technical data, pp. 8, 32, 34. Dimension charts reproduced from the manufacturer.

LAYOUTS + COUPLING

Scale with connected modules.

Choose the arrangement around the architecture, circulation and usable outdoor area.



01

Freestanding

Create an independent outdoor destination. Coordinate foundations, outlets and utilities at each post.

02

Wall-attached

Relate the roof to the building. Resolve connection height, facade interfaces and rainwater details.

03

Linked modules

Connect in the L or W direction using dedicated coupling housings and linking posts.

COUPLING RULE

Integrated screens are possible at the outside perimeter, not within a coupling beam. Drainage can use corner and connecting posts.

Sources: WINSOL technical data, pp. 16-17; English brochure, pp. 46-47.

WATER MANAGEMENT

Drainage is part of the design.

Plan the water route from roof to discharge before the terrace and enclosures are finalized.



General louver-roof detail:
50 mm drain pipes through selected posts. Provide one outlet per 15 m² of roof area.

Special horizontal or vertical outlet arrangements are described for supported roof-only configurations.

ROOF TYPE	DRAINAGE COORDINATION
Classic / Climate	Prefer posts on the lower side. Coordinate the final discharge route with site grading.
Cocoon	Always provide two drainage points on the selected low side.
Crystal	Two posts on the low side; manufacturer recommends two drains per 15 m². No horizontal housing drain or direct vertical gutter drain.

15 m² ≈ 161.5 ft². 50 mm ≈ 1.97 in. Crystal and Cocoon have distinct roof details; do not apply a generic louver-roof arrangement to them.

Sources: WINSOL technical data, pp. 18-22, 51, 58. Conceptual flow; roof-specific details govern.

SIDE WALL / 01

SolFix integrated screens

Retractable fabric shading with the bottom bar concealed in the structure when retracted.



TECHNICAL ITEM	PUBLISHED DETAIL
Maximum overall width	6,000 mm / approx. 19.69 ft
Maximum overall height	3,000 mm / approx. 9.84 ft
Fabric openness options	1%, 5% or 10% in the supplied brochure
Future screen installation	Select "Solfix retrofit" when ordering the structure

Screen dimensions are based on overall pergola measurements. Confirm fabric and motor availability. The documented sensor setting rolls screens up at winds of 50 km/h or more; this is a control threshold, not a structural wind rating.

Sources: WINSOL technical data, pp. 16, 73, 83; English brochure, pp. 32-33.

SIDE WALL / 02

Glazing that preserves the view

Compare openable glass solutions by panel movement, thermal intent and the terrace interface.



SYSTEM	PRODUCT CHARACTER	PLAN FOR
Sliding glass	10 mm glass panels; optional steel-look appearance.	Track count, stack position and a level floor.
Perspective	Motorized lifting wall; upper sections open vertically above a fixed lower panel.	Opening height, views and coordination with the floor edge.
Insulating glazing	Fixed or sliding double-glazed aluminum window systems.	Whole-enclosure design and compatible adjoining walls.

The technical data specifies 3-, 4- or 5-rail sliding glass arrangements. The 5-rail arrangement is not compatible with a screen. Insulating walls do not by themselves make the complete pergola a conditioned room.

Sources: WINSOL technical data, pp. 90-99; English brochure, pp. 36-37, 42-45.

SIDE WALL / 03

Ambiente vertical louvers

Architectural privacy with adjustable light and airflow.



01 / OPERATION

Manual or motorized

Motorized louvers rotate up to 142°. Standard motor control operates through the app; automatic and intelligent roof control modes do not apply to Ambiente.

02 / APPEARANCE

Color, texture and light

Explore RAL finishes, wood-look options and integrated LED lighting. Select rotation direction and opening dimensions with the wall configuration.

OPENING COORDINATION

A partial wall uses intermediate posts and the manufacturer's "perfect opening" dimensions. Filler profiles are limited to sides without intermediate posts.

Sources: WINSOL technical data, pp. 84-89; English brochure, pp. 38-39.

SIDE WALL / 04

Bring warmth to the perimeter

Wood, textile and curtains offer distinct ways to shape the character of the outdoor room.



01

Thermowood

Sliding wood panels bring a natural finish. The brochure also describes a wood-and-screen-fabric arrangement.

02

Verso-Tex

Sliding frames with screen fabric on both faces create filtered enclosure and additional privacy.

03

Curtains

Outdoor curtains soften the space and add a flexible layer of shade and privacy.

FIXED WALLS

Fixed wood walls are also documented. Their layout and stabilization conditions differ from movable screens and curtains; coordinate adjoining sides and foundation details.

Sources: English brochure, pp. 34-35, 40-41, 44-45; WINSOL technical data, pp. 92, 102.

INTEGRATED COMFORT / LIGHTING

Light the architecture.

Combine ambient, task and accent lighting within the roof and perimeter.



LIGHTING OPTIONS

Dimmable direct white or tunable-white strips

Indirect RGB accents and integrated spots

Starlight points distributed across the louvers

PLAN THE CIRCUITS

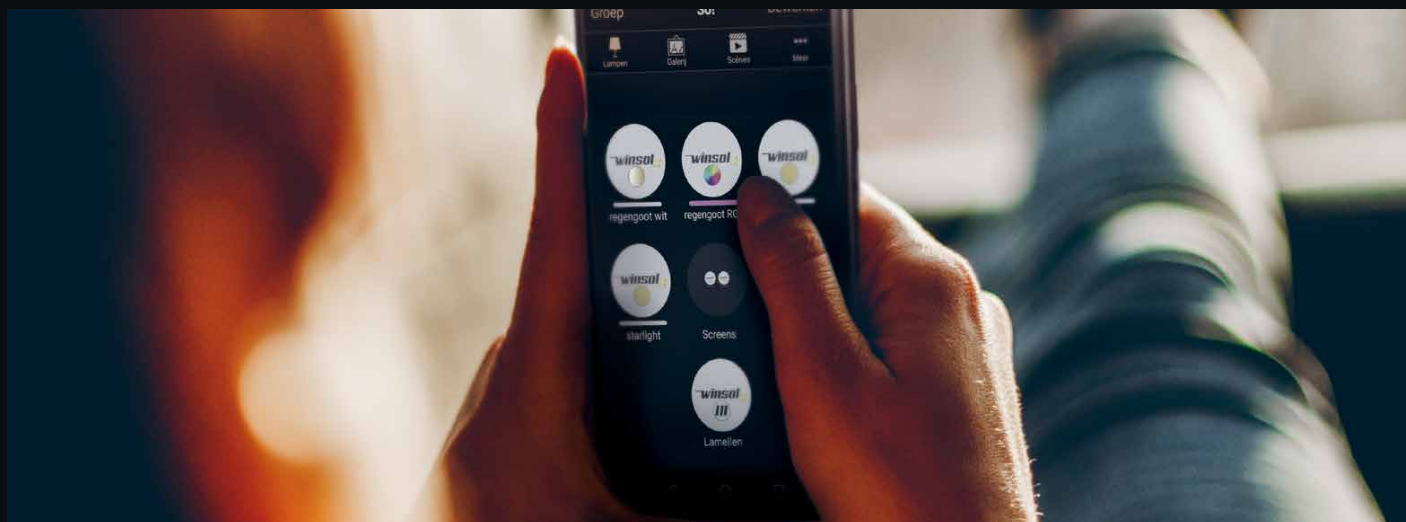
Define zones, dimming preferences and fixture locations during configuration. On Crystal, eligible rafters can carry LED strips or up to three integrated spots per rafter.

Sources: WINSOL technical data, pp. 37, 52, 59-60; English brochure, pp. 12-13, 22-23, 48-49.

CONTROL + AUTOMATION

Three ways to control the roof

Select the control behavior before deciding which sensors and user interfaces to include.



CONTROL	HOW IT WORKS	USER CHOICE
Standard	The user sets the roof-louver angle.	Direct position control.
Automatic	The system follows the sun through the day.	Choose sun, shade or an intermediate setting.
Intelligent	Uses sun, presence and temperature inputs to select louver behavior.	Set the desired comfort preference.

App / buttons / integration

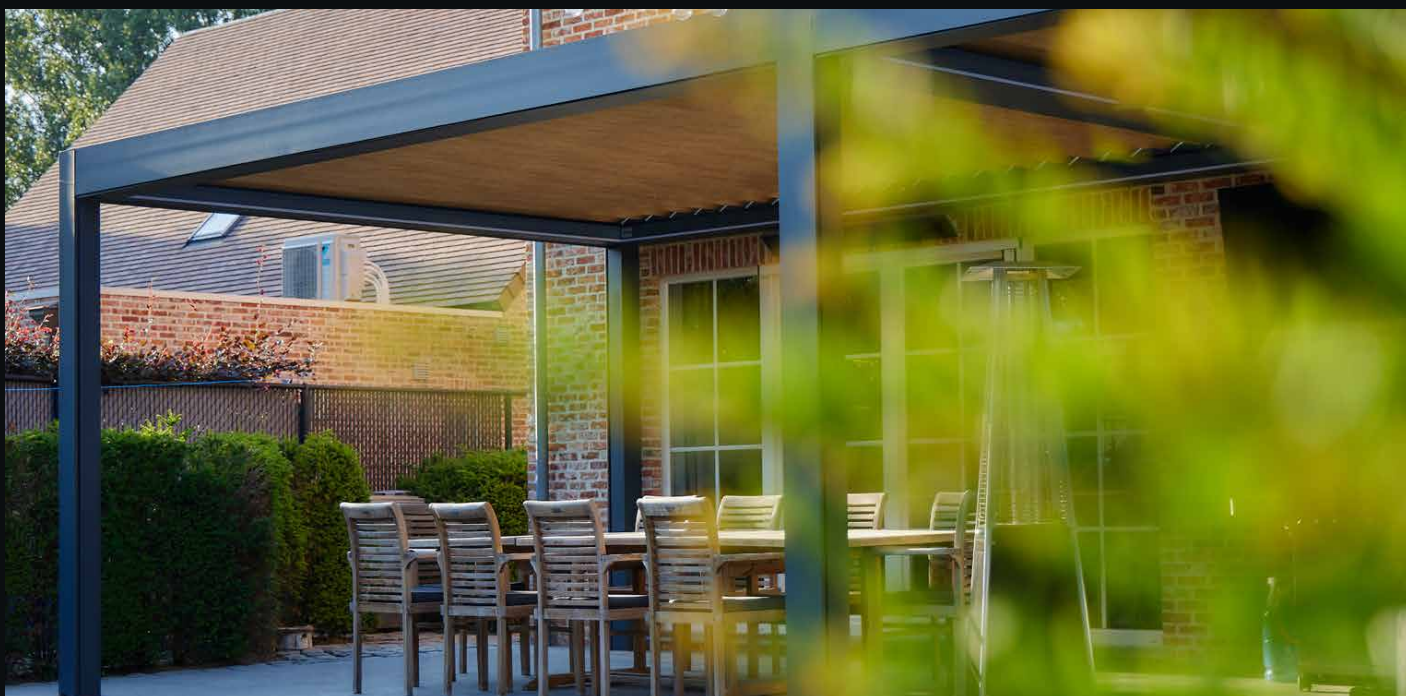
The supplied documentation describes Bluetooth/app operation, optional integrated buttons and a home-control interface. Confirm the ordered control platform, sensor set and enabled functions; package names alone do not establish every included feature.

Sources: WINSOL technical data, pp. 42-45, 68-74; English brochure, pp. 24-27.

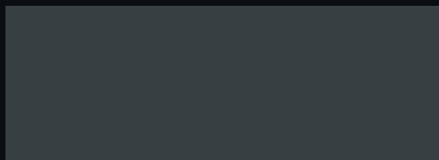
FINISHES + MATERIALS

A coordinated architectural palette

Specify the frame, louvers and side walls as one material composition.

**Signal white**

RAL 9016 ST

**Anthracite grey**

RAL 7016 ST

**Jet black**

RAL 9005 ST

01

Wood-look louvers

Oak nature, oak light grey and oak dark brown are shown in the supplied collection.

02

Custom color direction

Explore other RAL colors for the frame or louvers and confirm the final finish schedule.

Source: English brochure, pp. 20-21, 38-39. Swatches are illustrative; use physical samples.

INTEGRATED COMFORT / ACCESSORIES

Build the experience around use

Coordinate electrical accessories, service access and equipment placement early.



ACCESSORY	TECHNICAL COORDINATION
Heating	2025 sheet lists Standard 3,000 W and Design 2.0 2,500 W units. It does not recommend them with more than one permanently open side.
Bluetooth audio	Integrated speakers and audio controls; confirm speaker count and routing.
Projection	Holder/screen solution; projector not included in the options section. Technical sheet recommends at least 5,000 lm and 350 × 250 mm maximum size.
Power + charging	The supplied literature describes USB and 230 V accessories. Confirm the actual electrical package for the destination market.

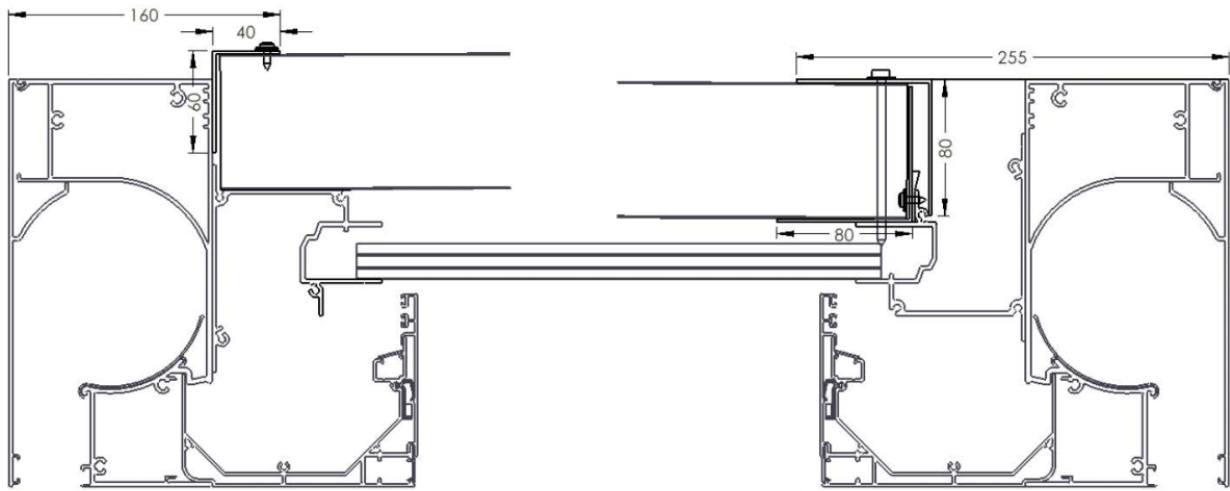
European electrical specifications are product-reference data, not a U.S. wiring specification. Confirm voltage, listed equipment and installation requirements for the quoted system.

Sources: WINSOL technical data, pp. 28-29, 38, 66-71; English brochure, pp. 48-49.

ROOF SYSTEM / 03

SO! Cocoon

A fixed roof with a wood-finished interior for a warmer architectural expression.



COMPONENT / LIMIT	PUBLISHED DETAIL
Roof construction	Sandwich panels; interior wood slats; EPDM sheet above for weather protection.
Published width limit	4,000 mm / approx. 13.12 ft. If slats run parallel to L, the same limit applies to L.
Interior slat length	3,700 mm net / approx. 12.14 ft.
Drainage	Two drainage points on the low side; wood slats run perpendicular to the gutter side.

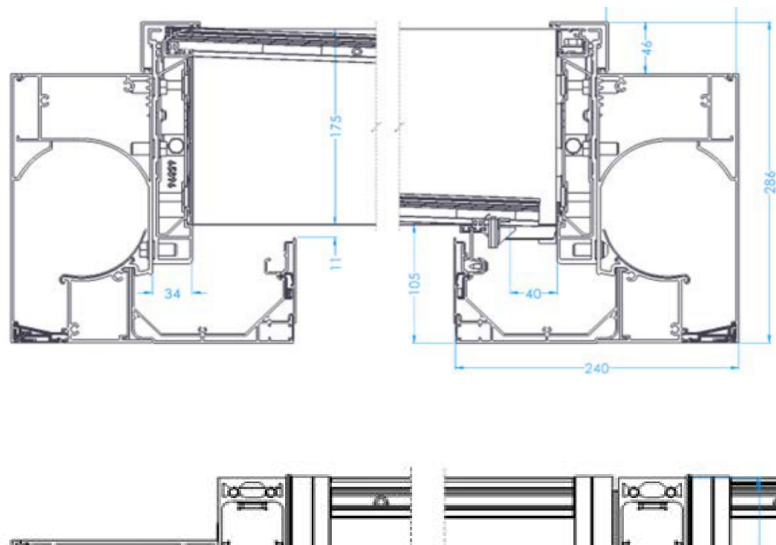
Explore integrated LED strips, spots and Starlight. The manufacturer also documents accessory anchor points; confirm the permitted attachment arrangement and load for the selected roof.

Sources: WINSOL technical data, pp. 49-53. Manufacturer section; not to scale.

ROOF SYSTEM / 04

SO! Crystal

A glass-roof option within the SO! platform, with dedicated glazing and rafter details.



TECHNICAL ITEM	PUBLISHED DETAIL
Laminated glass 55.2	10.76 mm; 25 kg/m ² ; clear or matte.
Laminated glass 66.2	12.76 mm; 30 kg/m ² ; matte.
Rafter spacing	Maximum 960 mm center-to-center; visible gap up to 870 mm.
Lighting	Eligible rafters: total rafter count minus two. Up to three integrated spots per eligible rafter.

Roof pitch, glazing selection, structure and drainage must be resolved together. The Crystal system has its own size envelopes and drainage rules; do not substitute Classic or Climate details.

Sources: WINSOL technical data, pp. 54-60. Manufacturer component drawing; not to scale.

THE SO! UNIVERSE

Combine functions within one concept

Explore roof types around how each part of the terrace will be used.



ZONE INTENT	ROOF DIRECTION TO EXPLORE
Adjustable shade	Classic or Climate louvered roof.
A warm ceiling expression	Cocoon fixed roof with interior wood slats.
Overhead daylight	Crystal glass roof with coordinated shading as required.
Different adjacent uses	A combined-roof concept subject to WINSOL configuration review.

Manufacturer concept image. Not every roof type, wall or accessory combination is interchangeable. Confirm module interfaces, levels, drainage and control compatibility.

Sources: WINSOL technical data, p. 4 and roof-system sections; English brochure, pp. 52-53.

PRODUCT SELECTION

Choose the system by priority

Use this guide to begin selection, then confirm the complete configuration with NOLVANT.

ROOF	ROOF CHARACTER	DESIGN PRIORITY	COORDINATE
Classic	Tilting aluminum louvers	Adjustable sun and airflow	Roof orientation; openness; accessories
Climate	Tighter louver-to-gutter closure	A more sheltered roof condition	Wall strategy; acoustic option; span
Cocoon	Fixed sandwich-panel roof with wood interior	A warm, solid overhead finish	Slat direction; EPDM; low-side drains
Crystal	Laminated glass roof	Overhead light and views	Glass; rafters; slope; solar control

01**Define the perimeter.**

Select screens, glass, louvers, wood or curtains for the experience and project requirements.

02**Then add the comfort.**

Specify lighting, controls, sensors, audio and heating as coordinated options.

Selection guidance synthesized from the supplied WINSOL product and technical literature.

PROJECT CONFIGURATION CHECKLIST

Make the request technically complete

Capture the information needed for a product configuration and coordinated quotation.

01 / SITE

Project address, intended use, photos, site plan and approximate installation timing.

02 / STRUCTURE

Roof type; freestanding, wall-attached or linked layout; L and W dimensions; individual post heights.

03 / ORIENTATION

Louver direction, roof orientation, motor side and any nearby roof overhangs or obstructions.

04 / PERIMETER

A wall selection for each side, opening direction, clear access width and finished-floor levels.

05 / DRAINAGE

Designated drain posts or approved alternative outlets, discharge points and terrace grading.

06 / EQUIPMENT

Frame and louver colors, lighting zones, controls, sensors, screens, audio, heating and power needs.

Include requested future upgrades, especially SolFix retrofit preparation, at the initial order stage.

Based on the WINSOL SO! order checklist and measurement conventions, technical data pp. 8, 105.

STRUCTURAL + INSTALLATION COORDINATION

Product limits need project context

Dimensions, walls, exposure and anchorage affect the final installation.

01

Structural review

The manufacturer's load tables vary with dimensions. The stated wind values concern pressure and suction on louvers and do not apply to pergolas with one or more walls.

02

Foundations + anchorage

Published values are conditional on floor plates and chemical anchoring into a suitable substrate. Establish the actual foundation and anchorage design for the site.

03

Terrace + thresholds

Record finished levels, slopes and drainage paths. Sliding glass requires a completely horizontal floor at the system; coordinate its track and water-management details.

04

Controls + handover

Confirm supplied sensors and their configured behavior. Record safe operating procedures, maintenance access and the final equipment schedule.

READ LIMITS WITH THEIR CONDITIONS

A sensor threshold is not a wind rating. A roof-load value is not a universal snow-depth allowance. Confirm the selected system using the current manufacturer documents and project requirements.

Final drawings, local approvals, electrical design and structural verification belong in the project-specific technical package.

Sources: WINSOL technical data, pp. 8-18, 39-41, 75-99. No site-specific engineering is provided here.

TECHNICAL REFERENCE + PARTNERSHIP

A clear route from product to project

NOLVANT connects U.S. market development and trade with WINSOL product expertise.

**WINSOL****Manufacturer + product partner**

Product systems, technical documentation and configuration information for the SO! collection.

NOLVANT**Market development + trade**

A connection point for product exploration, dealer opportunities and the project configuration discussion.

Document basis

SO! Technical Data 2025

Supplied file: SO!_SPECS_2025-00-1.pdf

Revision printed in document: November 17, 2025.

WINSOL Pergola SO! English brochure

Supplied file: 1 Winsol_Brochure_Pergola-SO_EN-1.pdf

Product photography, feature descriptions and lifestyle examples.

NOLVANT Marketing Kit v2 + WINSOL online product gallery

Original NOLVANT identity; official WINSOL model imagery and descriptions for Cocoon, Crystal, Climate, Combi, Z!P and Z!P CUBE. Model-page links appear in the gallery.

Where the supplied documents differ, detailed product data in this brochure follows the 2025 technical sheet.

Photographs may show optional equipment. Metric figures are authoritative; imperial conversions are approximate. This is a product guide, not a fabrication or construction document.

Reference basis: supplied PDFs and official WINSOL product pages. Confirm availability and specifications at quotation.

NOLVANT

PRODUCTS WITH PURPOSE.

A better outdoor space starts with the right system.

Explore the WINSOL pergola collection with NOLVANT.

START A PRODUCT CONSULTATION

Share your site photos, dimensions, preferred roof system and desired features. Discuss project configuration or dealer opportunities with your NOLVANT representative.



ARCHITECTURE / COMFORT / PRECISION