



SUNROOF STANDARD RETRACTABLE SYSTEM CATALOG



SUNROOF STANDARD RETRACTABLE ROOF SYSTEM

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AUTOMATION SYSTEMS

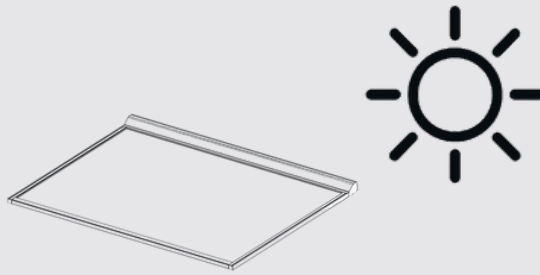
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Elegance, Functionality, and Freedom Combined!



Year-Round Comfort and Protection

Zip Screen and retractable roof systems provide year - round comfort and protection for your living spaces.



Rain and Air Tightness

Thanks to the pressure differences created by wind and rain, as well as integrated drainage channels and sealing gaskets, interior spaces remain unaffected.



Thermal Insulation:

The multi-layer roof design minimizes heat loss, ensuring interior warmth and comfort.



SUNROOF STANDARD RETRACTABLE ROOF SYSTEM

- **Cost-effective solution:** Offers a more economical production and installation alternative compared to insulated models.
- **Modern appearance:** Transparent or opaque panels create a clean, spacious, and contemporary atmosphere.
- **Weather resistance:** Ensures protection from rain and wind.
- **Space efficiency:** The retractable design allows year-round use, either open or enclosed.



ADVANTAGES OF NON-INSULATED RETRACTABLE ROOF SYSTEM IN RAINY WEATHER

- **Efficient water drainage:**

The specially designed sloped roof structure and integrated water channels ensure rapid drainage, keeping the interior space completely dry.

- **Uninterrupted comfort:**

When it starts to rain, the motorized system closes within seconds, allowing users to continue enjoying the area safely without interruption.

- **Reliable protection:**

Furniture, flooring, and electronic equipment stay protected from rain and moisture.

- **Visual openness:**

Transparent or semi-transparent panels allow natural light to pass through even when closed, preventing a dark or confined atmosphere.

- **Quiet operation:**

High-quality connection details and sealed profiles minimize rain noise for a calm and pleasant environment.

- **Year-round usability:**

Provides effective protection against rain, wind, and sun, allowing comfortable outdoor use in every season.

- **Low maintenance requirement:**

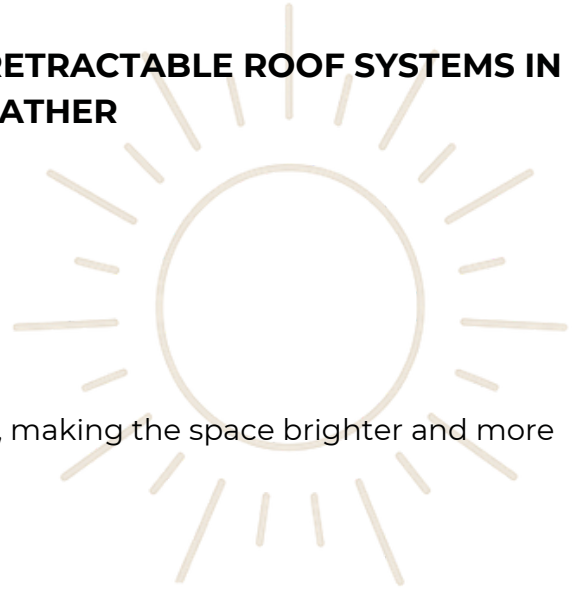
Built-in drainage systems and smooth surfaces reduce cleaning and maintenance needs.

- **Water and Air Tightness:**

During windy weather, the pressure differences created by wind and rain do not affect interior spaces, thanks to integrated drainage channels and sealing gaskets. This system effectively prevents wind and water from entering.



ADVANTAGES OF NON-INSULATED RETRACTABLE ROOF SYSTEMS IN SUNNY WEATHER



- **Natural Light and Spaciousness:**

Large glass surfaces maximize daylight intake, making the space brighter and more spacious.

- **Air Circulation and Comfort:**

Operable panels provide natural ventilation, allowing fresh air circulation. This ensures a cool environment in summer and a warm, enclosed space in winter.

- **Four-Season Use:**

Thanks to the motorized system, the roof can be easily opened or closed depending on weather conditions. Comfort continues uninterrupted in rain, sun, or wind.

- **Wide Range of Applications:**

Offers aesthetic and functional solutions for areas such as restaurants, cafés, winter gardens, terraces, verandas, and pool covers.

- **Aesthetic Appearance:**

Features a transparent and elegant design that complements modern architecture, enhancing the visual appeal and value of the space.

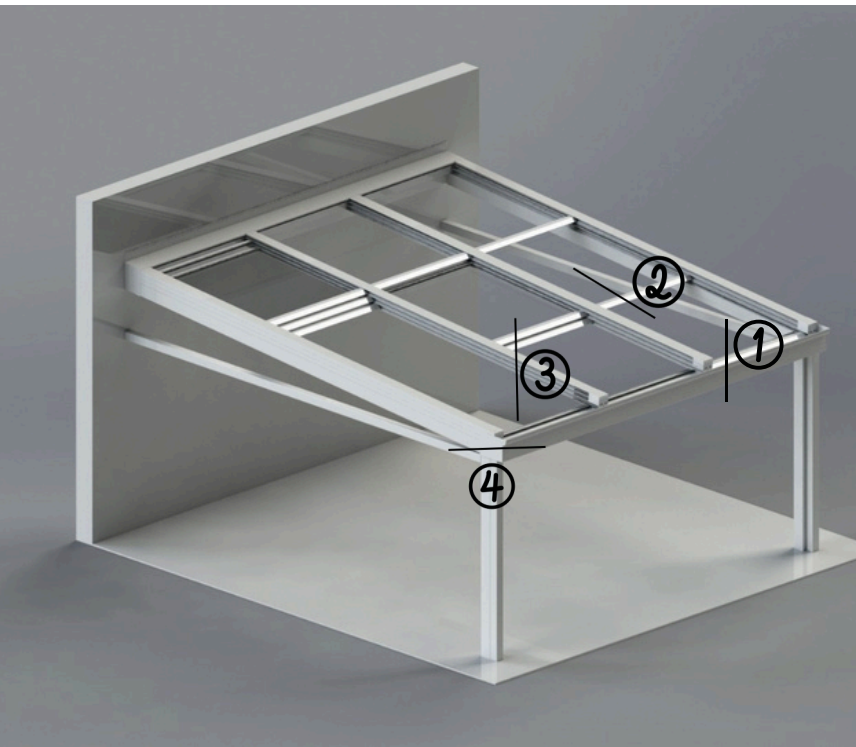
- **Energy Efficiency:**

The use of natural light reduces the need for artificial lighting during the day. UV-protected glass provides heat control, contributing to overall energy savings.

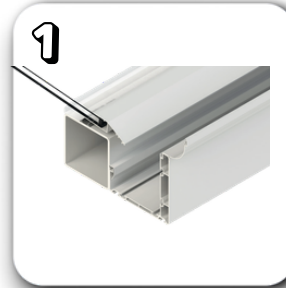
- **Maximum Shading with ZIP Curtain Integration:**

The ZIP screen system effectively filters sunlight, reduces indoor temperatures, and creates a cool and comfortable environment.

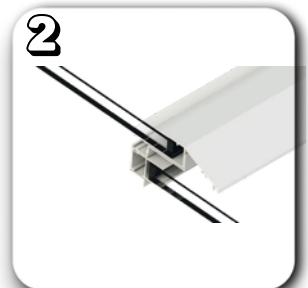
SUNROOF STANDARD ALUMINUM DETAIL DRAWINGS



GUTTER DETAIL



MOVABLE PANEL
DETAIL



RAIL DETAIL



DRAINAGE DETAIL



Sunroof Standart Retractable Roof	Minimum Panel Size	Maximum Panel Size
Widht	1000mm	1300mm
Depth	1000mm	1900mm

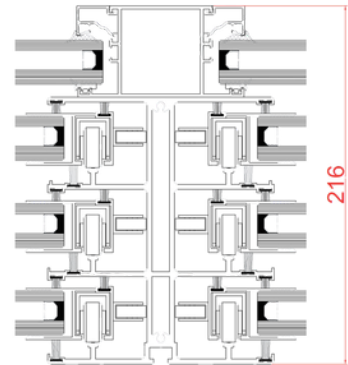
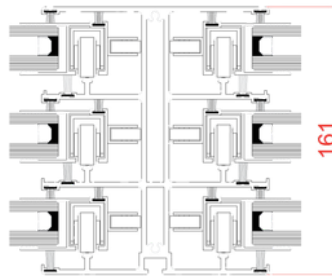
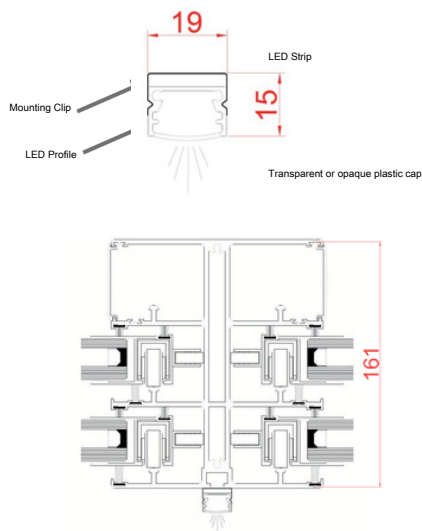
- Integrated gutter system for efficient drainage with concealed connection design.
- Precision sliding mechanism with non-thermally insulated system and weather sealing.
- Modular high-load aluminum rail system for structural stability.
- Hidden drainage channels for efficient water flow and leak-proof design.

2-Track Detail (1 Fixed 1 Movable)

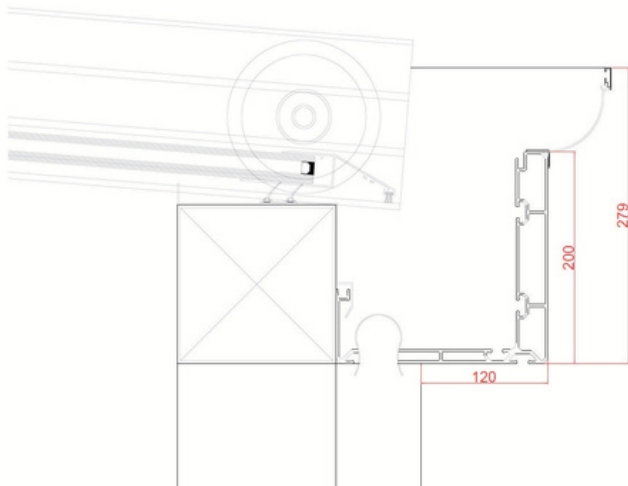
3-Track Detail (1 Fixed 2 Movable)

4-Track Detail (1 Fixed 3 Movable)

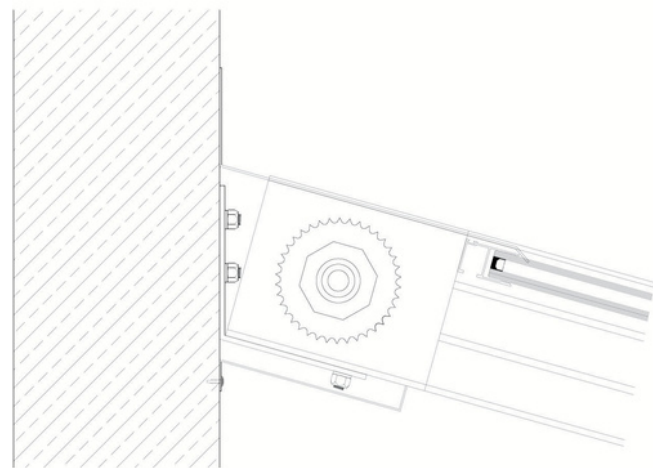
LED Light Detail



Gutter Detail



Wall Detail



- The posts are standard 150x150x4mm aluminum profiles.
- The drainage pipes are standard 80x80x2mm aluminum.

Side-Section Example

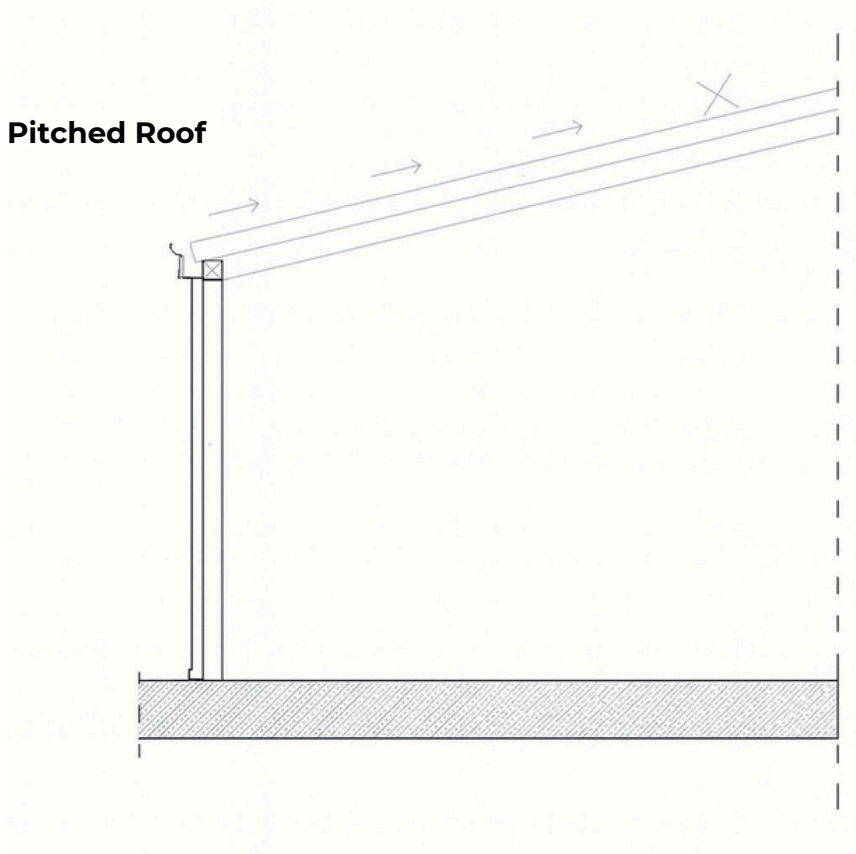


- An aluminum carrier system is used for depths up to 5 m (inclusive).
- Steel construction is required for depths greater than 5 m.

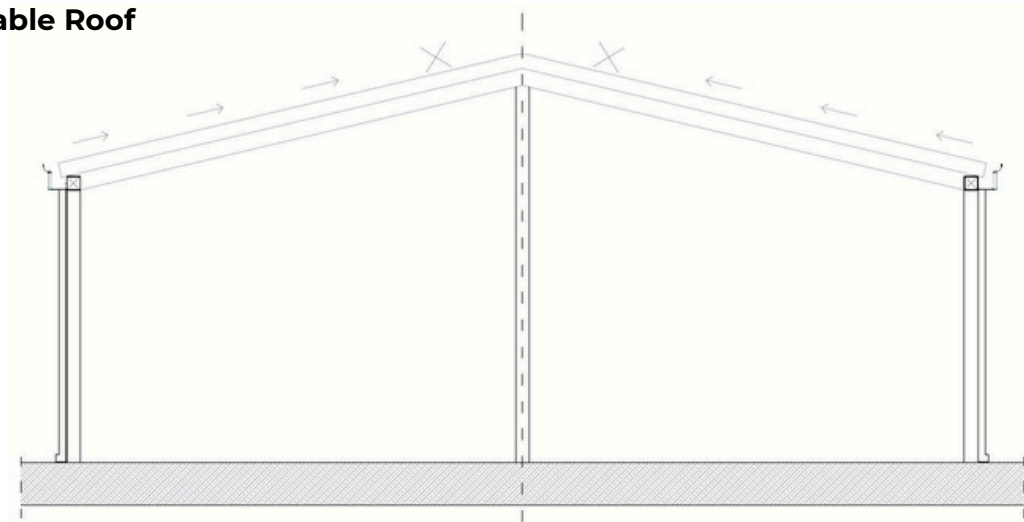
SUNROOF MODELS

"Roof pitch min - max. : 5° - 20°"

Single Pitched Roof



Gable Roof



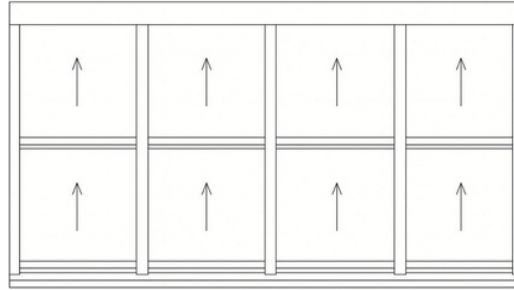
- * With aluminum profiles depth of 9,000 mm can be achieved while steel structure reinforcement allows spans up to 15,000 mm.
- * Standard roof posts measure 150 x 150 x 3 mm. Depending on structure calculations, steel reinforcement can be applied to enhance the system's strength.

TYPES OF OPENING

Standard-Thermo Systems

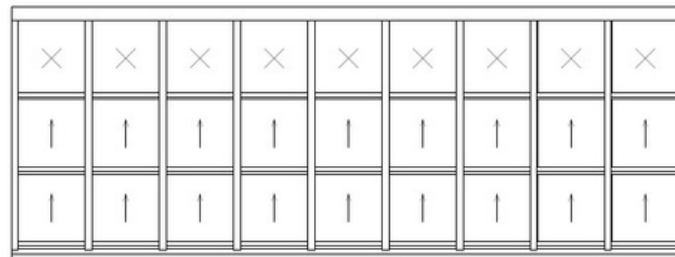
50% Opening mechanism

Depth Min: 2000 mm - max : 3800 mm



66 % Opening mechanism

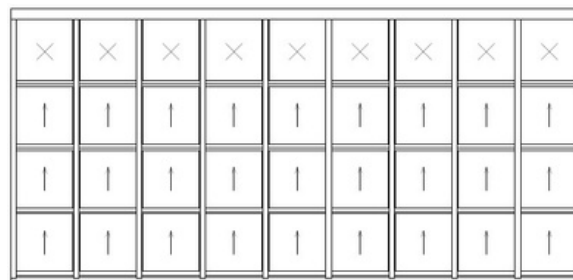
Depth Min: 3000 mm



While a maximum depth of 4500 mm can be achieved with aluminium profiles, depths of up to 5700 mm can be provided with steel structure reinforcement.

75% Opening mechanism

Depth Min: 4000 mm

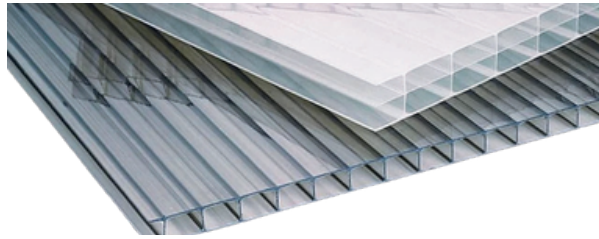


While a maximum depth of 5000 mm can be achieved with aluminium profiles, depths of up to 7600 mm can be provided with steel structure reinforcement.

"Retractable roofs up to 10 meters can be constructed with single-slope steel support."

***GLASS -POLICARBONATE
PERFORMANCE VALUES***

POLYCARBONATE OPTIONS



Sunroof Standard 16 mm Polycarbonate Option

Thickness	16 mm
Weight (Area Density)	~2.6 kg/m ²
Light Transmission (Clear 1099)	~49 %
Light Transmission (Opal White 1146)	~40 %
Total Solar Energy Transmission (g-value)	0.48 (clear) / 0.42 (opal)
Thermal Transmittance (U-value)	~1.4 W/m ² ·K
Thermal Expansion Coefficient	0.065 mm/m·°C
Maximum Service Temperature	120 °C
Sound Reduction Index (Rw)	~18 dB
Fire Classification	B-s1, d0
UV Protection	Co-extruded UV layer
Standard Sheet Widths	980 / 1200 / 2100 mm
Standard Sheet Lengths	up to 12,000 mm
Colors Available	Clear, Opal, Bronze, IQ-Relax
Typical Applications	Winter gardens, skylights, façades, roofs,

Sunroof Standard 25 mm Polycarbonate Option

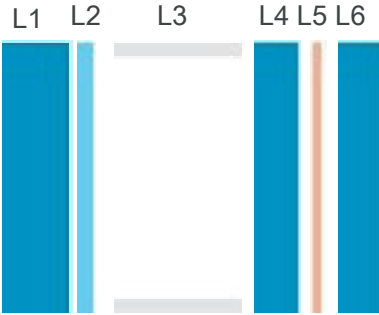
Property	Typical Value
Thickness	25 mm
Structure Type	5-wall
Weight (Area Density)	~3.4 kg/m ²
Light Transmission (Clear 1099)	~49 %
Total Solar Energy Transmission (g-value)	0.48 (clear) / 0,42 (opal)
Thermal Transmittance (U-value)	~1,4 W/m ² ·K '0,42 opal
Thermal Expansion Coefficient	0,065 mm/m·°C
Maximum Service Temperature	120°C
Sound Reduction Index (Rw)	~18 dB
Fire Classification	Co-extruded UV layer
Standard Sheet Widths	980 / 1200 / 2100 mm
Standard Sheet Lengths	up to 12,000 mm
Colors Available	Clear, Opal, Bronze, IQ-Relax

SUNROOF STANDARD - INSULATED (DOUBLE) GLASS

Performance Calculation Results



Outside



Inside

Layers-From Outside to Inside

Layers-From Outside to Inside	mm
L1 Clear	-
L2 Ecosol T 62	12
L3 Cavity (90% Argon)	4
L4 Clear	0.38
L5 Clear PVB	4
L6 Clear	

Interior Angle



Outer Pane

:6 mm Şişecam Ecosol T 62 (#2)

Cavity

:12 mm 90% Argon

Inner Pane

:4 mm Şişecam Clear + 0.38 mm Clear PVB +
4 mm Şişecam Clear



Daylight Properties (EN 410)

Daylight Transmittance	: 63%
Daylight Reflectance Outdoor	: 24%
Daylight Reflectance Indoor	: 20%
Color Rendering Index (Ra)	: 94



Solar Energy Properties (EN 410)

Total Solar Energy Transmittance	: 43%
Solar Factor / g	: 36%
Solar Energy Direct Transmittance	: 33%
Solar Energy Reflectance Outdoor	: 30%
Solar Energy Absorption	: 0.49
Shading Coefficient	: 2%
UV Transmission	



Thermal Conductivity (EN 673)

U Value W/(m²K) : 1.3



Sound Insulation Values

Rw (C, Ctr) : 38 dB (-1, -5)

Notes:

- This glass, used in standard sunroof roofs, has insulation performance thanks to the heat insulation coating and argon gas applied between two glasses.
- Its U-value is lower than standard glass, providing higher energy efficiency.
- * For different glass combinations, please consult your sales representative.

AUTOMATION SYSTEMS

SOMFY STANDARD 60 RTS 120/12 ENGINE FEATURES

TECHNICAL SPECIFICATIONS



It is an RTS receiver motor designed for use with motorized roof systems or smart home automation systems.

Product Type	Retractable Roof
Nominal Voltage/Frequency	230V - 50Hz
Radio Frequency	RTS 433,38 MHz
Cable Type	VVF
Thermal Time	4 mn
Protection Index	IP 44
Limit Switch Unit Type	Electronic

Somfy Standard RTS Engine Compatible Controls and Features

- **Telis 16 RTS (16 Channels)**



It is a 16-channel RTS remote control.

It is used to control applications or application groups with RTS receivers
It has the feature of setting a favorite location with the my button

- **Situo 5 RTS (5 Channels)**



It is a 5 channel RTS remote control.

It is used to control applications or application groups with RTS receivers
It has the feature of setting a favorite location with the my button

- **Situo 1 RTS (1 Channel)**



It is a single channel RTS remote control.

It is used to control applications with RTS receivers

There is a feature to set a favorite location with the my button

LED STRIP OPTION

Strip Led RGBW



Product Features

- 24V 19,2W/M 60
- LEDs per meter
- IP20
- 2 YEAR WARRANTY

Other Technical Details

Features

- Led Type : SMD 2835
- Length(Meters) :5

Lumens per meter

Color Temperature (CCT)

	R620-625nm	120lm
	G520-520nm	330lm
	B587-595nm	60lm
	3000K	330lm

LED OPTIONS

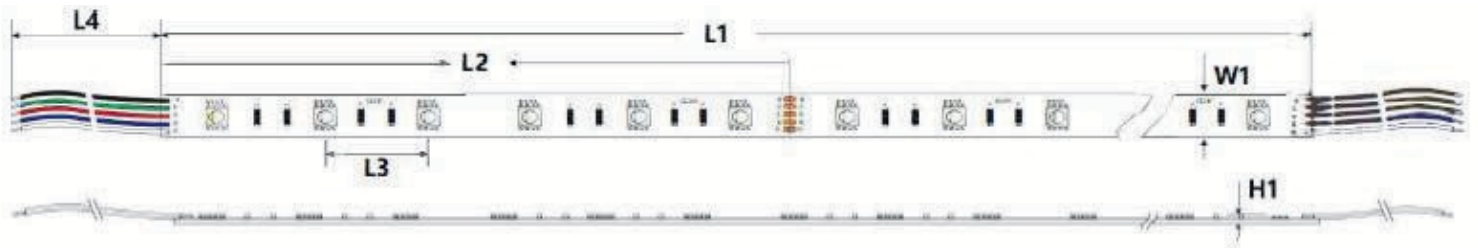
DAY LIGHT LED LIGHTING

- Fixed white light (3000-6000K)
- Homogeneous illumination, high CRI
- Shop window, office, home use

COLORFUL LED LIGHTING

- RGB or RGBW color changing
- Remote / system controlled
- Cafes, hotels, outdoor lighting
- Decorative Effects

DIMENSIONS



Explanations

Objects	Measurements	Tolerance
L1(mm)	5004	± 10
L2(mm)	100	± 1
L3(mm)	16.7	$\pm$
L4(mm)	360	0.2
W1(mm)	12	± 5
H1(mm)	2,1	± 0.1

Objects: The objects are named according to the measurements given in the drawing: L1, L2, L3, L4, W1, and H1.

Measurements: Technical

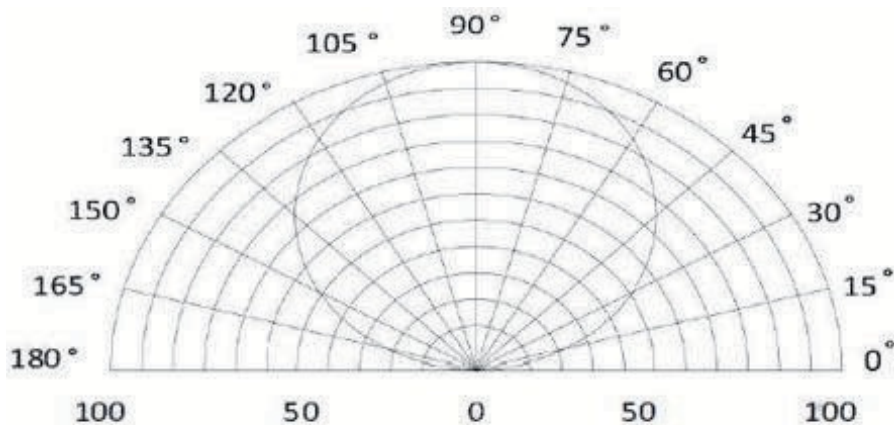
measurements

including tolerances.

Tolerance: A parameter that accounts for

the

possible discrepancies in technical measurements.



Working Conditions

Working Temperature (°C) $-20^{\circ} / +50^{\circ}$

Storage Temperature (°C) $-30^{\circ} / +80^{\circ}$

Voltage Range(V dc) 23 ~25

Reverse Voltage (V dc) 25

Note

[illegible]



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