



SUNROOF-THERMO RETRACTABLE SYSTEM CATALOG



SUNROOF THERMO RETRACTABLE ROOF SYSTEM

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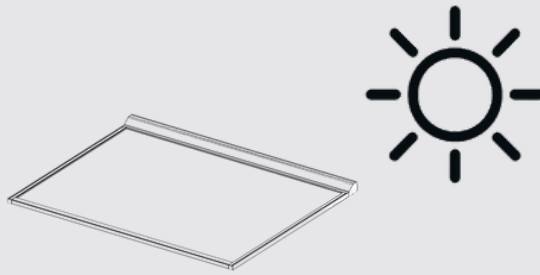
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Elegance, Functionality, and Freedom Combined!



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 THERMO RETRACTABLE ROOF SYSTEM

- **Energy Efficiency:** Thanks to thermal insulation, heat loss in indoor spaces is reduced, lowering heating costs in winter and cooling costs in summer.
- **Year-Round Comfort:** Indoor temperature remains balanced during hot or cold weather, ensuring comfortable use in all seasons.
- **Acoustic Insulation:** Reduces external noise, providing a quiet and peaceful environment, especially in city centers or crowded areas.
- **Water and Air Tightness:** Offers a safe, dry, and protected area against adverse weather conditions such as rain and snow.



ADVANTAGES OF INSULATED RETRACTABLE ROOF SYSTEMS IN RAINY WEATHER

- **Complete Protection:**

The system automatically closes during rainfall, keeping the area perfectly dry.

- **High Insulation Performance:**

Waterproof profiles and special seals ensure full interior protection.

- **Quiet & Comfortable Experience:**

Advanced connection details minimize rain noise for a calm ambiance.

- **Safe for Furnishings:**

Furniture, flooring, and electronic devices remain protected from moisture.

- **Year-Round Usability:**

Offers comfortable and uninterrupted use in all weather conditions.





ADVANTAGES OF INSULATED RETRACTABLE ROOF SYSTEMS IN SUNNY WEATHER

- **Controlled Sunlight:**

Adjustable panels allow the desired amount of natural light to enter.

- **Thermal Insulation:**

Advanced insulation keeps the interior cool even during high temperatures.

- **UV Protection:**

Special glass or panel structures filter harmful UV rays, protecting users and furnishings.

- **Open-Air Comfort:**

The roof can be fully retracted to create a spacious and refreshing atmosphere.

- **Energy Efficiency:**

Natural daylight reduces the need for artificial lighting during the day.

- **Elegant Comfort:**

A perfect combination of modern design and year-round comfort.



ADVANTAGES OF INSULATED RETRACTABLE ROOF SYSTEMS IN SNOWY WEATHER

- **High load resistance:**

The reinforced aluminum profiles and durable glass structure safely carry heavy snow loads.

- **Thermal insulation:**

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

- **Automatic protection:**

The motorized roof system closes tightly to prevent snow accumulation and leakage.

- **Efficient drainage:**

Integrated channels guide melted snow away without leaving residue or stains.

- **Low maintenance:**

Smooth surface profiles reduce cleaning needs after snow or ice.

- **Visual comfort:**

Clear or frosted glass options maintain brightness and outdoor visibility.

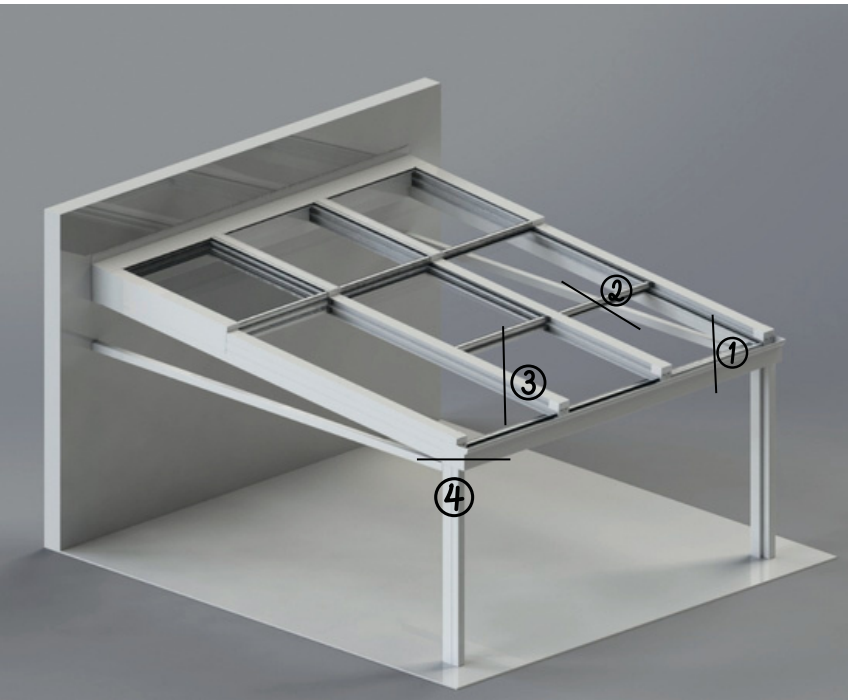
- **All-season durability:**

Designed to perform flawlessly in extreme winter conditions, extending roof lifespan.

- **Quiet environment:**

Sealed profiles and insulated panels absorb outside noise for a calm indoor experience.

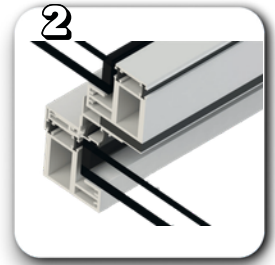
SUNROOF THERMO ALUMINUM DETAIL DRAWINGS



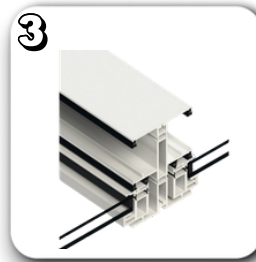
GUTTER DETAIL



MOVABLE PANEL
DETAIL



RAIL DETAIL



DRAINAGE DETAIL



Sunroof Thermo Retractable Roof	Minimum Panel Size	Maximum Panel Size
Width	1100mm	2300mm
Depth	1100mm	1900mm

- **Flexible Use:**

Thanks to its retractable mechanism, it can be used open on sunny days and closed during bad weather conditions.

- **Aesthetic and Modern Design:**

Adds elegance and value to the space, providing visual harmony with custom design options.

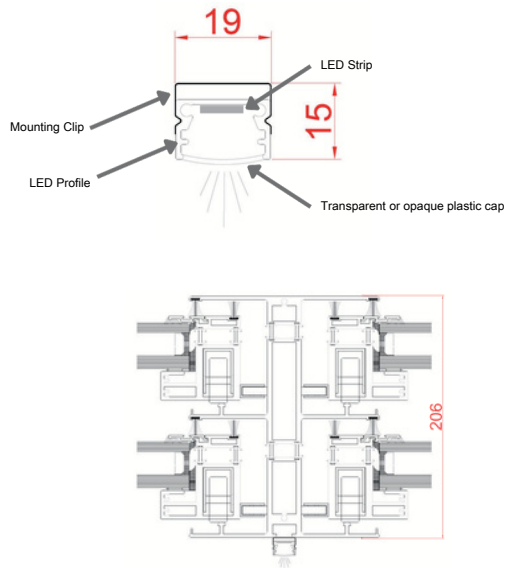
- **Durable and Long-Lasting:**

Made from high-quality materials, ensuring years of trouble-free use.

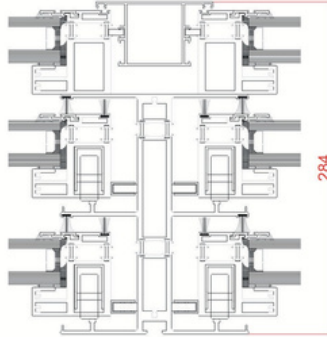
- **Premium Investment:**

Ideal for commercial spaces such as restaurants, cafés, and hotels — enhancing customer experience while increasing property value.

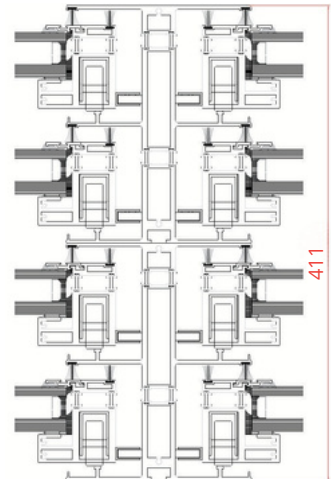
2-Track Detail (1 Fixed 1 Movable)
LED Light Detail



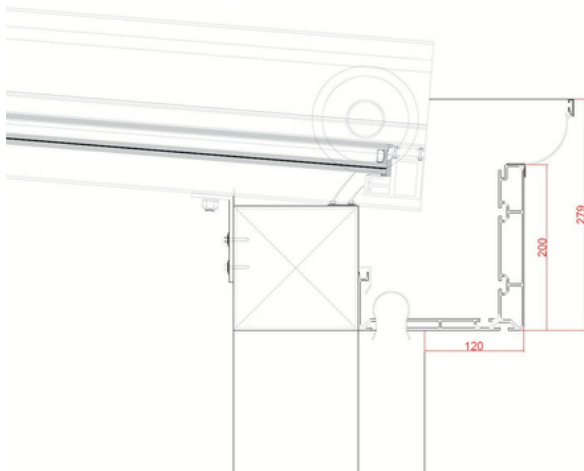
3-Track Detail (1 Fixed 2 Movable)



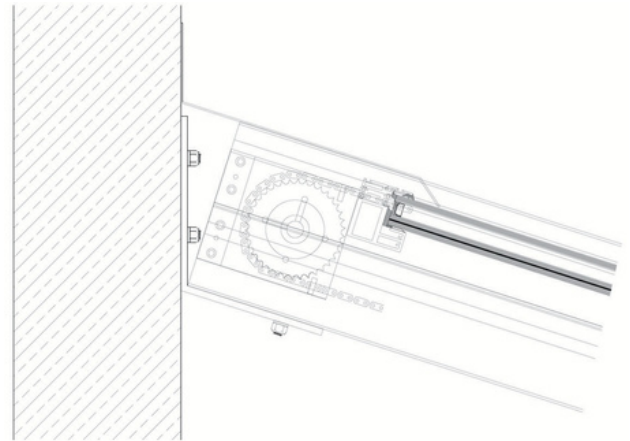
4-Track Detail (1 Fixed 3 Movable)



Insulated Gutter Detail



Wall Detail Insulated



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

Side-Section Example

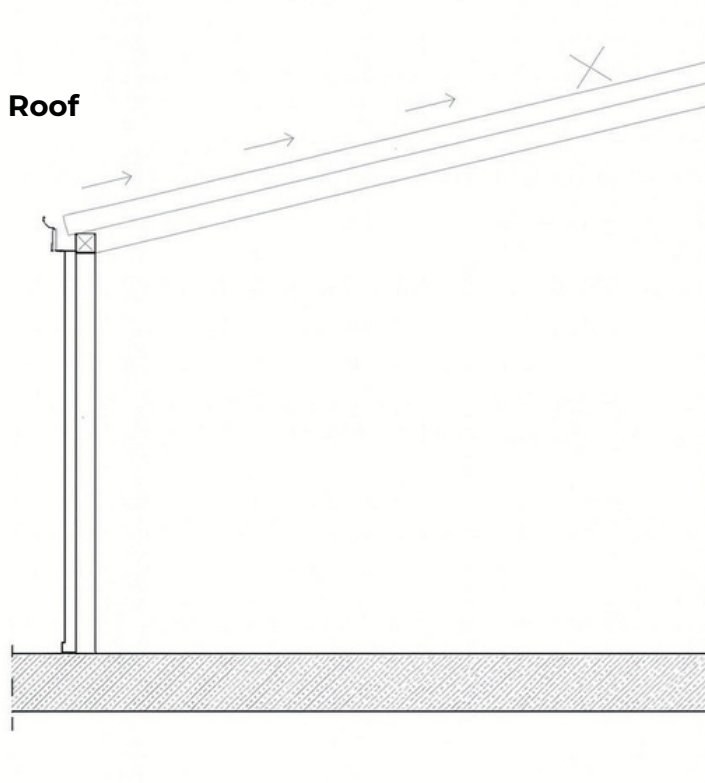


- An aluminum carrier system is used for depths up to 6 m (inclusive).
- Steel construction is required for depths greater than 6 m.

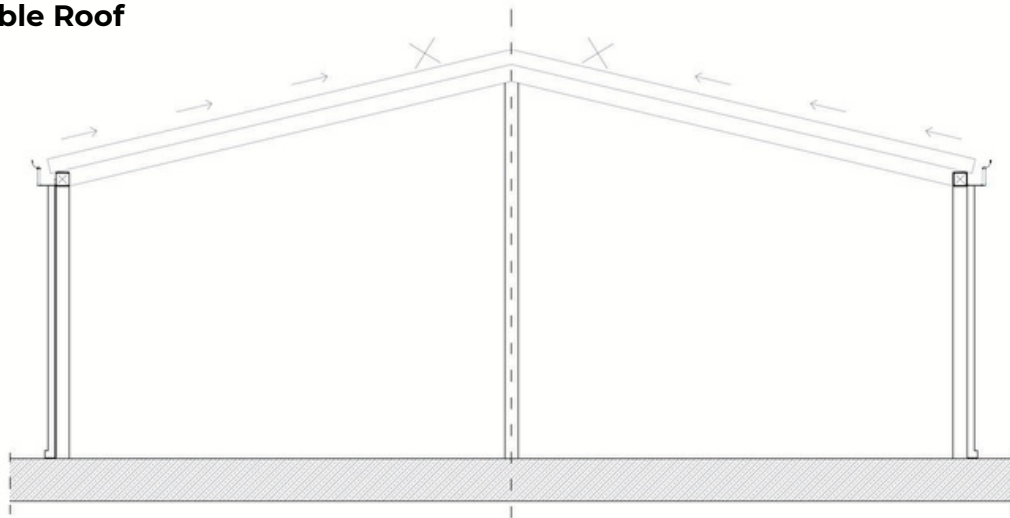
SUNROOF MODELS

"Roof pitch min - max. : 5° - 20°"

Single Pitched Roof



Gable Roof



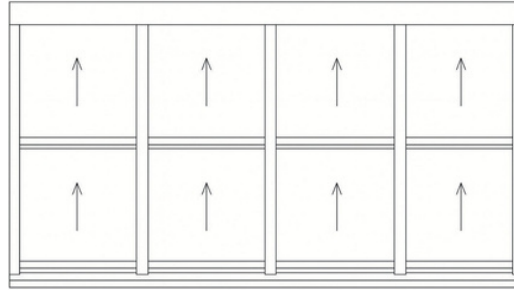
- * With aluminum profiles depth of 9,000 mm can be achieved while steel structure reinforcement allows spans up to 15,000 mm.
- * Standard roof posts measure 150 x 150 x 3 mm. Depending on structure calculations, steel reinforcement can be applied to enhance the system's strength.

TYPES OF OPENING

Standard-Thermo Systems

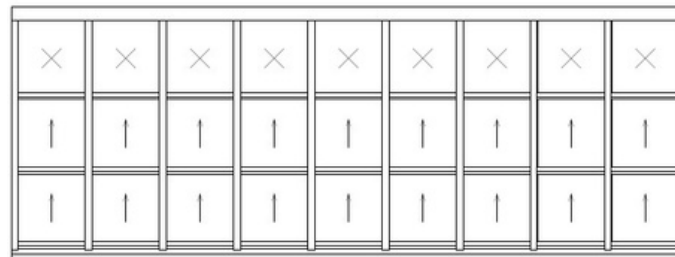
50% Opening mechanism

Depth Min: 2000 mm - max : 3800 mm



66 % Opening mechanism

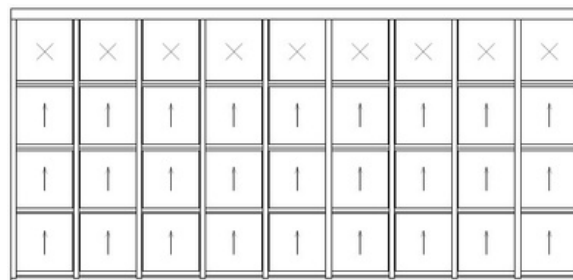
Depth Min: 3000 mm



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



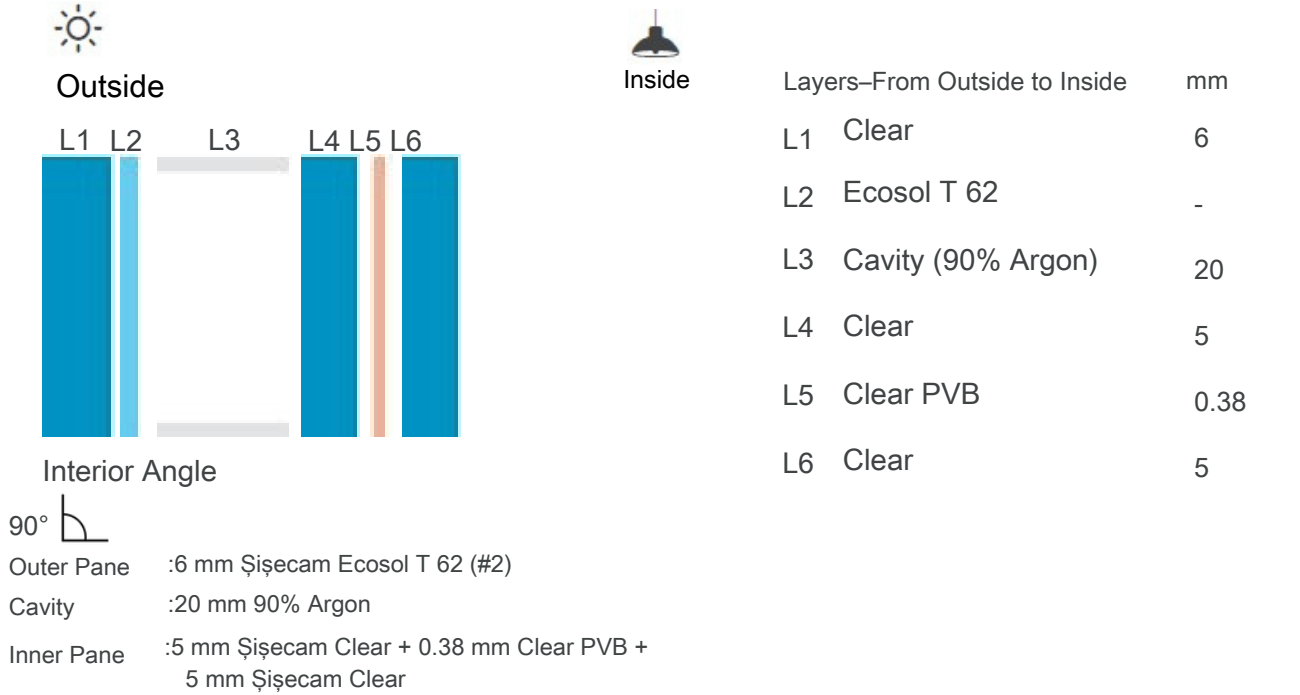
While a maximum depth of 5000 mm can be achieved with aluminium profiles, depths of up to 7600 mm can be provided with steel structure reinforcement.

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

***GLASS PERFORMANCE
VALUES***

SUNROOF THERMO - INSULATED (DOUBLE) GLASS

Performance Calculation Results



Daylight Properties (EN 410)

Daylight Transmittance	: 62%
Daylight Reflectance Outdoor	: 24%
Daylight Reflectance Indoor	: 20%
Color Rendering Index (Ra)	: 94

Solar Energy Properties (EN 410)

Total Solar Energy Transmittance	: 42%
Solar Energy Direct Transmittance	: 36%
Solar Energy Reflectance Outdoor	: 33%
Solar Energy Absorption	: 31%
Shading Coefficient	: 0.49
UV Transmission	: 2%

Thermal Conductivity (EN 673)

U Value W/(m²K) : 1.1

Sound Insulation Values

Rw (C, Ctr) : 39 dB (-1, -5)

Notes:

- The 36 mm thick glass used in the Sunroof Thermo system is heat-resistant and has its heat transfer minimized through a special coating and argon gas application.

* 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

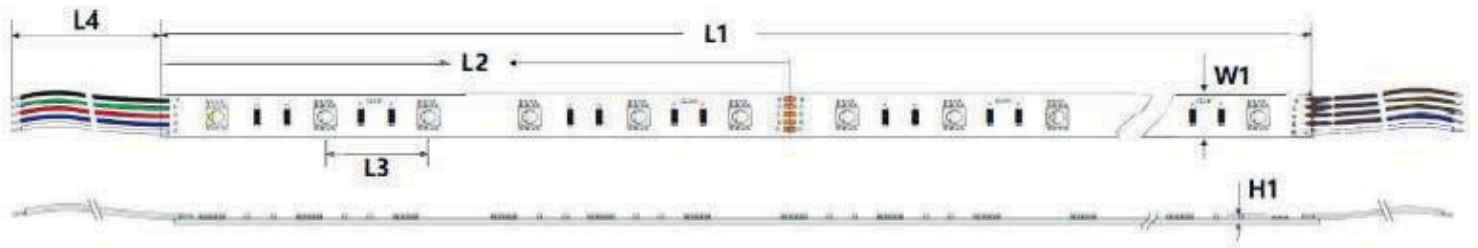
DAY LIGHT LED LIGHTING

- 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

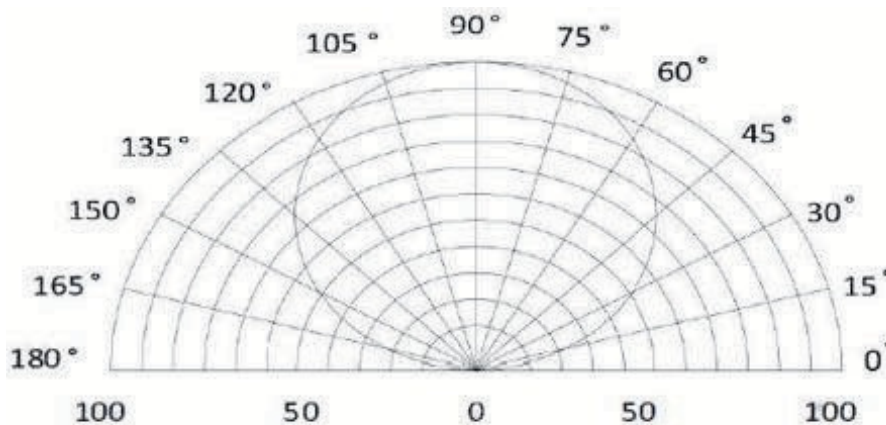
Objects	Measurements	Tolerance
L1(mm)	5004	± 10
L2(mm)	100	± 1
L3(mm)	16.7	$\pm$
L4(mm)	360	0.2
W1(mm)	12	± 5
H1(mm)	2,1	± 0.1

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° / +50°

Storage Temperature (°C) -30° / +80°

Voltage Range(V dc) 23 ~25

Reverse Voltage (V dc) 25

Note

[illegible]



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