

PVC STRETCH CEILING SYSTEM

Stretch Material
DataSheet

Waterproof · Fire-Retardant · Non-Flammable · EU
Compliant

PRODUCT OVERVIEW

The **Rooflint Stretch Material** is a waterproof, fire-retardant, and non-flammable plastic sheet manufactured from high-quality PVC (Polyvinyl chloride). It functions as a specialized suspended ceiling system composed of two main components: the PVC stretch film and an Aluminum or PVC profile. The material is lightweight, easy to clean, and requires minimal maintenance. It can be easily installed and removed using specialized spatulas, making it ideal for both residential and commercial interior applications.

KEY HIGHLIGHTS

WATERPROOF
100%

FIRE RETARDANT
Non-Flammable

LOAD CAPACITY
195 kg/m²

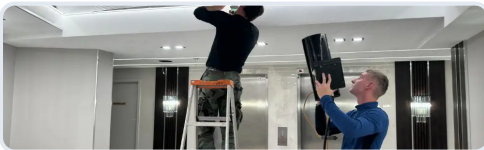
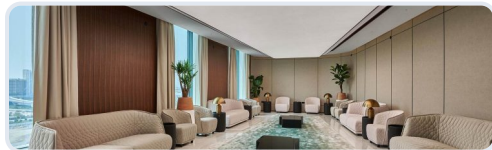
THICKNESS
0.22 mm

TEMP. RANGE
-30 to 65°C

LIFESPAN
15 Years

TECHNICAL SPECIFICATIONS

PROPERTY	SPECIFICATION
Net Weight	240 – 320 g/m ²
Load-Bearing Capacity	195 kg/m ²
Light Transmittance	75% (translucent) · 25–30% (lacquer) · 35–40% (matte) · 10–25% (suede)
Operating Temperature Range	-30°C to +65°C
Ultimate Tensile Strength	Up to 17 MPa
Light Absorption Coefficient	30 N (lengthwise & edgewise)
Shore Hardness	41 ± 2
Hazardous Substances	None — EU No. 305/2011 Compliant
Elongation at Break	262%
Lifespan (Indoor)	15 Years
Installation Method	Non-adhesive; profile system + plastic cover
Thickness	0.22 mm



✓ EU No. 305/2011

✓ Fire Retardant

✓ No Hazardous Substances

+ 15-Year Indoor Warranty

+ IP Rated

ZS SERIES — 60W LED BACK LIGHT

LED Back Light

DataSheet

IP66 · Die-Cast Aluminum · High CRI · 30,000h
Lifespan

PRODUCT OVERVIEW

The **Rooflint ZS Series LED Back Light** is engineered for use with stretch ceiling systems, delivering excellent thermal management for stable and consistent performance. Featuring an aluminum die-cast housing and IP66 protection rating, the ZS Series ensures high reliability, long lifespan, and low maintenance costs. Available in multiple color temperatures to suit any interior design requirement.

KEY HIGHLIGHTS

POWER

60 W

LUMINOUS FLUX

4800 lm

COLOR RENDERING

CRI 96

PROTECTION

IP66

EFFICACY

80 lm/W

LED LIFESPAN

30,000 h

PRODUCT VARIANTS

ITEM DESCRIPTION	POWER (W)	PF	LUMEN (LM)	EFFICACY (LM/W)	CURRENT (MA)	BEAM ANGLE	LED LIFE (H)
ZS-60W-3000K-220V	60	0.95	4800	80	175	120°	30,000
ZS-60W-3500K-220V	60	0.95	4800	80	175	120°	30,000
ZS-60W-4000K-220V	60	0.95	4800	80	175	120°	30,000
ZS-60W-6000K-220V	60	0.95	4800	80	175	120°	30,000
ZS-60W-6300K-220V	60	0.95	4800	80	175	120°	30,000
ZS-60W-6500K-220V	60	0.95	4800	80	175	120°	30,000

DETAILED SPECIFICATIONS

TECHNICAL SPECIFICATIONS

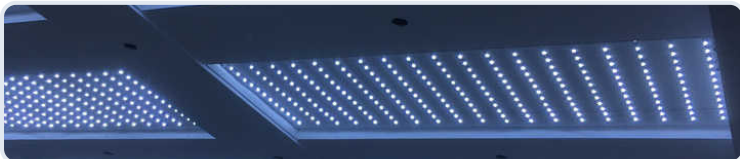
Color Rendering Index (Ra)	96
Dimmable	No
Housing Color	White
IP Rating	IP66
Driver Integrated	No
Unit Weight	0.04 kg

ELECTRICAL SUPPLY

Frequency	60 Hz
Voltage	220 V
AC / DC	AC

MECHANICAL PROPERTIES

Housing Material	Die-casting Aluminum
Optical Material	Tempered Glass



✓ IP66 Waterproof

✓ CRI 96 High Color Fidelity

⊕ 30,000h LED Lifespan

⊕ Die-Cast Aluminum Housing

⊕ 220V AC Input

LED DRIVER / POWER SUPPLY

THICKENED ALUMINUM ALLOY HOUSING

The power supply housing is constructed from high-strength, thickened aluminum alloy. It features a large heat dissipation area for fast heat conduction and optimal air convection, ensuring low temperature rise and long-term stable operation of the LED driver.

ORGANIC SILICONE ENCAPSULATION

The interior is fully potted with imported, environmentally friendly organic silicone. This provides exceptional durability, moisture resistance, high-temperature tolerance, and superior waterproof performance.



Environmental protection Organic Irrigation Plastic closures
 The inside of power supply is filled with imported environmentally friendly organic silicone.
 Hardy, Moisture resistant, High temperature resistance, Waterproof performance is more superior.



DRIVER VERIFICATION & RELEASE RECORDS

Before product release, verify the supplied driver against its model-specific documentation: rated input, output voltage/current, thermal behaviour, dielectric safety and final enclosure sealing. Retain the signed inspection record with the delivered batch. The descriptive features above are not a substitute for a driver datasheet or a finished-product test report.

PHOTOMETRIC TEST REPORT — LED CHIP

Source measurement scope — LED chip only: the following spectral and optical parameters were recorded using a calibrated photochromic electricity test system on **2023-04-18**, at **23°C** and **50% RH**. These values relate to the tested LED chip at 60 mA and do not, by themselves, certify the complete 60 W luminaire or every listed colour-temperature variant.

SPECTRAL PARAMETERS	
Dominant Wavelength	583.2 nm
Peak Wavelength	639.6 nm
Half-Wave Width	151.1 nm
Color Purity	0.664
Correlated Color Temp.	2698 K
Color Rendering Index	97.5
SDCM	114.05
DUV	0.0034

OPTICAL PARAMETERS	
Luminous Flux	15.524 lm
Light Efficiency	84.370 lm/W
Optical Power	61.07 mW
Test Current	60.0 mA
Forward Voltage	3.060 V
Power	0.184 W
Leakage Current	0.0

COLOR RATIO	
Red (R%)	59.7%
Green (G%)	31.9%
Blue (B%)	8.4%
Kred	24.90%
Kgreen	71.82%
Kblue	3.28%

CRI R-VALUES (R1-R15)	
R1 / R2 / R3	98.3 / 98.8 / 96.4
R4 / R5 / R6	94.8 / 97.1 / 96.9
R7 / R8 / R9	98.9 / 98.4 / 95.3
R10 / R11 / R12	98.0 / 97.0 / 94.4
R13 / R14 / R15	98.2 / 97.3 / 98.3

TEST INFORMATION							
Product Number	27	Test Date	2023-04-18 09:17	Ambient Temp.	23°C	Humidity	50%

PRODUCT-LEVEL VERIFICATION & ACCEPTANCE CHECKS

The following checks are a practical factory or project acceptance plan for the finished ZS Series luminaire. They are **not reported test results**; retain the measured values and signed test records for the delivered batch.

VERIFICATION	TEST CONDITION / METHOD	ACCEPTANCE RECORD
Rated input & start-up	Energize at the declared input (220 V AC / 60 Hz) and cycle the product.	Record voltage, current, power and PF; normal start-up with no abnormal noise or flicker.
Photometric performance	Test the complete luminaire after thermal stabilization for the selected CCT.	Record luminous flux, CCT, CRI (Ra), SDCM, beam pattern and ceiling uniformity; compare with the applicable model specification.
Thermal endurance	Operate for at least 2 h at rated input in a representative ceiling cavity.	Record ambient, driver/case temperature and output stability; no flicker, odour, visible damage or shutdown.
Electrical safety	Perform dielectric-withstand and earth-continuity tests where the final safety class requires them.	Use the applicable local standard and retain the completed safety test report.
Ingress protection	Verify the final sealed enclosure, cable entry and assembly configuration.	State IP66 only where the final product configuration has valid supporting evidence or certification.
Burn-in & final inspection	Conduct an 8-hour burn-in followed by a visual and wiring inspection.	No light instability, damaged lens, loose connection, abnormal noise or signs of moisture ingress.

Important: Product claims should be released only against current, model-specific test reports. The listed chip measurement is retained as source data and should not replace finished-luminaire verification.