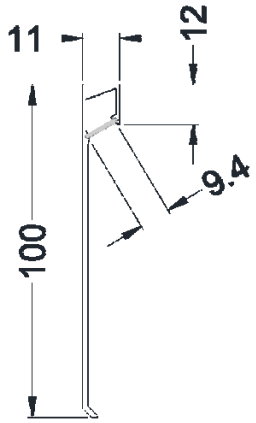
Technical Data sheet - Lightning Skirt

SKLD Series



Lightning Skirt Series

Designed to create a border of low-level light which encapsulates the room. finishes with frosted polycarbonate diffuser for optimum light dispersion.

Aluminium Details	
European Standard	EN573-3
British Standard	BS1474
American Standard	ASTM B221
Australian Standard	AS/NZ1866
Alloy	6063
Temper	T5
Composition : Si%	0.2-0.6
Composition : Fe%	0.35
Composition : Cu%	0.1
Composition : Mn%	0.1
Composition : Mg%	0.45-0.90
Composition : Zn%	0.1
Composition : Ti%	0.1
Composition : Cr%	0.1
Composition : Al%	Balance
Tensile Strength <3mm (N/mm²)	175
0.2% Proof Stress <3mm (N/mm²)	130
Elongation <3mm (%)	8
Flammability	Solid Aluminium is non-combustible material. Does not burn, does not give off smoke when exposed to fire and does not emit sparks on impact.

Polycarbonate (Lexan 153) Details		
Description	**Test Methods**	**Typical Values**
Melt Flow Rate	ASTM D1238	2.5 gm/10 min
Density	ASTM D1505	1.2 gm/cm3
Tensile Strength @ Yield	ASTM D638	65 MPa
Tensile Strength @ Break	ASTM D638	110 MPa
Flexural Strength	ASTM D790	93 MPa
Flexural Modulus	ASTM D790	2343 MPa
Izod Impact (notched @23°C)	ASTM D256	29.7 kJ/m^2
Heat Deflection Temp @ 0.45 MPa	ASTM D648	137 °C
Vicat Softening Temp, Rate B	ASTM D1525	157 °C
UL94HB Flame Class Rating	UL94	1.6 mm
Water Absorption at 3.2mm	ASTM D570	0.15 %
Mould Shrinkage	ASTM D955	5 -7 $^{-3}$mm/mm

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SKLD100

Laboratory Test Details		
Toxicity and Heavy Metal (RoHS)	ISO 3613	**Passed**
Toxicity and Heavy Metal (RoHS)	US EPA 3052 & 6010B	**Passed**
Salt Spray (Corrosion Test)	ASTM B 117-03	**240 Hrs**
Accelerated Weathering test	ASTM G154	**1,000 Hrs**
Water Splash Resistant	Rated IPX4 under IEC standard 60529	**Passed**

Maintenance

Alusite Series utilizes 6063 aluminium alloy commonly used for building material. As with any finished building material, anodized aluminum requires reasonable care prior to and during installation and periodic cleaning and maintenance after installation. Although anodized aluminum possesses exceptional resistance to corrosion, discoloration, and wear, its natural beauty can be marred by harsh chemicals, rough conditions or neglect. Such conditions usually affect only the surface finish and do not reduce the service life of the aluminum. However, scratching and wear and may be damaged by tile adhesive, mortar, or grouting material. Therefore, setting materials must be removed with a sponge and warm water immediately.

Precautions

Remove and clean adhesive or grout residue from visible surfaces immediately. Avoid using aggressive alkaline or acid cleaners on aluminum finishes. Do not use cleaners containing trisodium phosphate, phosphoric acid, hydrochloric acid, hydrofluoric acid, fluorides, or similar compounds on anodized aluminum surfaces. Strong solvents or abrasive cleaners can cause damage to painted surfaces. Always follow the cleaner manufacturer's recommendations as to the proper cleaner and concentration. Test-clean a small area first. Different cleaners should not be mixed.

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