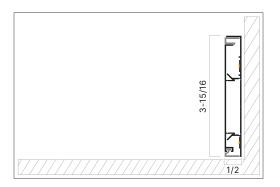
Product Datasheet



Manufacturer	Mox Profile Systems
Document Title	Design and quality: Luceo
Product Name	Luceo
Product Description	Aluminium LED Skirting Board
Item No	LCE
Area of Use	Public, Office, Residential
Material	EN AW 6463 T6, EN AW 6061 T6
Length	8'
Surface	Powder Coated, Anodised, Chrome Plated

Luceo aluminium LED skirting board is mostly preferred in exclusive projects through its decorative lighting feature. It can also be used as a guiding light in dark places. In addition to its illumination feature, it also covers the defects in floor and wall joints. It prevents dirt accumulation and harmful organisms to provide hygienic and healthy use for many years. With the hollow area in its design, it collects the telephone, electricity and internet cables to organize your environment. It is extremely durable and long-lasting since it is produced from high quality raw material and has thick walls. Unlike its competitors, it stands out with its coating thickness and quality of anodizing, and with its pretreatment application that provides resistance to corrosion in electrostatic powder painting. Luceo has a plain and minimal appearance with its slim form. With its built-in or basic application methods, it can be flush to wall or used as a traditional skirting board. Luceo aluminium LED skirting board can be easily installed by fixing the rear profile to the wall with screws and installing the LED strips to the grooves then the driver. Application will be completed by mounting the front cover profile with its snap lock system along with the diffusers. According to the application area, LED strips can be used inside both grooves, top groove or bottom groove separately. For flush with wall application, wood planks, drywall or ceramic platings can be placed on the top of the product. Corners can be assembled by cutting the profile to 45 degrees. Special covers can be used to block the unwanted light in corner edges. Luceo aluminum LED skirting board has matte anodized, bright anodized, satin chemical bright anodized and electrostatic powder painting options. While silver, yellow, inox, bronze and black anodized color coatings are available, it can also be painted to the desired RAL code with electrostatic powder painting.





Warranty

This product is under warranty for 5 years from the date of receipt except for the user errors as listed below:

Damage caused by impact

Damage caused by scratching

Damage caused by abrasive substance or chemical cleaning agents contact

Damage caused by prolonged contact with water Damage caused by exposure to intense temperature Damage caused by montage













ALLOY DATASHEET EN AW 6463 T6 [AlMq0.7Si]

Place Of Use

The alloy EN AW-6463 is a widely used extrusion alloy, suitable for applications where only modest strength properties are required. Parts can be produced with a good surface quality, suitable for many coating operations. Typical application fields are furniture, finishing materials, windows and doors, car body finishing, facade construction, lighting columns and flagpoles.

Chemical composition according to EN573-3 (weight%, remainder Al)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
0,20 - 0,60	Max 0,15	0,2	Max 0,5	0,45 - 0,9	-	Max 0,05	Max 0,1	Rest

Mechanical properties according to EN755-2

Temper*	Wall Thickness e***	Yield Stress Rp0,2 min Mpa	Tensile Strength Rm min Mpa	Elongation Min A50mm % - Max A %	Brinell Hardness
T4	e≤50	75	125	14 - 12	46
T5 T6	e≤50 e≤50	150 195	110 160	8 - 6 10 - 8	60 74

^{*} Temper designation according to EN515: T4-Naturally aged to a stable condition, T5-cooled from an elevated temperature forming operation and artificially aged, T6-Solution heat treated, quenched and artificially aged,

Physical properties (approximate values, 20°C)

Density (kg/m³) 2700	Melting range (°C) 585-650	Electrical conductivity (MS/m) 28-34	Thermal conductivity (W/m.K) 200-220	Co-efficient of thermal expansion 10-6/K 23.4	Modulus of elasticity (GPa) ~70
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Weldability¹

Gas: 3 TIG: 2 MIG: 2

Typical filler materials (EN ISO18273): SG-AIMg5Cr(A) or AISi5, and AIMg3 when the product has to be anodised. Due to the heat input during welding the mechanical properties will be redured by approximately 50% (ref. EN1999-1).

Machining characteristics¹: T4 Temper 3 / T5, T6 Temper 2

Coating properties¹ Hard/protective anodising: 1 / Decorative / bright / colour anodising: 2

Corrosion resistance¹ General: 1 Marine: 2

¹Relative qualification ranging from 1-very good to 6-unsuitable

^{**} Hardness values are for indication only,

^{***} For different wall thicknesses within one profile, the lowest specified properties shall be considered as valid for the whole profile cross section.

Pvc Transparent Led Diffuser Strip

Saw Tolerances					Measuring tape, no angle test		S	Saw Tole	Measuring tape, no angle test						
<500	>500	>1000	>1500	>2000	>3000	>4000	>4500	<500	>500	>1000	>1500	>2000	>3000	>4000	>4500
±0.3	±0.5	±1.0	±1.5	±2.0	±3.0	±4.0	±0.1%	±0.3	±0.5	±1.0	±1.5	±2.0	±3.0	±4.0	±0.1%

DIN 16941:2021-11	Toler	rance of th	ne circula	r diamete	r and chan	nfer heights	DIN 16941:2021-11		4 Distortion tolerance TV					
Tolerance Series	3	3-6	6-10	10-18	30-50	50-80	>50	Tolerance Line	<30	30-60	60-120	120-180	180-250	>250
2A & 2B	±0.5	±20%	±18%	±15%	±15%	±12%	±10%	2A, 3A, 4A	5°	4°	3°30′	3°	2°30′	2°

DIN 16941:2021-11		Nominal Size Range (mm)														
Tolerance Series	Tolerance of wall thickness							Tolerances of length measurements								
	1.2	1.2-2.5	2.5-4	4-6.5	6.5-10	>10	<3	3-6	6-10	10-18	18-30	30-50	50-80	80-120	120-250	250-400
2A & 2B	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8%	±0.3	±0.4	±0.5	±0.6	±0.7	±0.8	±1.0	±1.2	±2.0	±3.0

