

Canovelles, June 2026

 The company Mercantil Luz Negra, S.L. with registered office in  
 C/Carles Buhigues 13, Polígono Industrial Can Castells, 08420 Canovelles (Barcelona, Spain)

# CERTIFIES

That the following products described below have carried out the relevant technical tests according to the data:

 Product reference: **05.011- 05.012- 05.026 - 05.013 - 05.014 - 05.025**  
 Product name: **led profile Sophia XL**

Alloy: 6063

### Chemical composition (EN 573-3)

%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Otros	Al
Min.	0.20	-	-	-	0.45	-	-	-	-	-
Max.	0.60	0.35	0.10	0.10	0.90	0.10	0.10	0.10	0.15	resto

(data given by supplier)

### Mechanical properties (EN 755-2)

State	Wall thickness (mm)	Breaking load Rm (N/mm <sup>2</sup> )	Elastic limit Rp0.2 (N/mm <sup>2</sup> )	Elongation A min (%)	Elongation A50mm min (%)	Brinell Hardness (HB)
T5	e ≤ 3	175	130	8	6	65
	3 < e ≤ 25	160	110	7	5	65

(Data given by supplier)

### Typical physical properties at ambient temperature of 20°C

Elastic modulus (N/mm <sup>2</sup> )	Specific gravity (g/cm <sup>3</sup> )	Melting interval (°C)	Coefficient of linear expansion (1/106K)	Thermal conductivity (W/mK)	Electrical resistivity at 20°C-μΩcm	Electrical conductivity %IACS	Dissolution potential (V)
69500	2.70	615 - 655	23.4	209	3.0	52.5	-0.80

(data given by supplier)

### Technological properties:

- Corrosion resistance: Very good
- Weldability: Good
- Conformability: Good
- Suitability for anodising: Very good
- Machinability: Good

### Applications:

Profiles for architectural applications, metal carpentry, handrails, mouldings, trims and similar, resistant elements of truck cargo boxes and the chemical industry.

The product described has been tested according to the standards listed above. It is possible to use the CE marking.

The certificate is issued under the responsibility of the manufacturer (data issued by the manufacturer).

For the record and at request of the interested party, this certificate has been issued.

**CE**

CERTIFICATE

Nuño Téllez  
CEO



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