

Canovelles, June 2023

The company 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: **16.005 - 16.006 - 16.007**
Product name: **led profile Munich**

Aluminium base for extrusion:

Type: E01, ALLOY 6063/6060, batch 24149 with composition:

Fe	Cu	Mn	Si	Zn	Ti	Mg	Al
0.16	0.02	0.02	0.47	0.01	0.02	0.46	98.84%

(data given by supplier)

Thermal hardening treatment:

Status: T5

Characteristics hardness min. surface		Dureza real
Webster	Brinell	Webster
10	60	10

According to normative UNE EN 755-1 and UNE EN 12020-1

Dimensions and tolerances:

According to drawing UNE EN 755-9 and UNE EN 12020-2

Surface treatment by lacquering:

The indicated profile has received the SN14 finish, which corresponds to L.Negro Ral-9005 textured and has been subjected to the tests established by the current Qualicoat directives:

Test	Normative	Characteristics
Thickness	ISO 1260	>= 60 microns on exposed faces
Adhesion	ISO 2409	0
Drawing test	ISO 1520	>= 5 mm
Crack resistance	ISO 1519	Seamless
Hardness Buchhloz	ISO 2815	>= 80
Acetic salt spray	ISO 9277	>= 1000 hours
Polymerization test	QUALICOAT	3 - 4
Resistance boiling water	QUALICOAT	No detachment
Machu 48 hours	QUALICOAT	Corrosion <0.5mm of the incision
Gloss (lacquered)	ISO 2813	71 - 100 +- 10 units
	ISO 6272	No detachment

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.



CERTIFICATE

Nuño Tellez
CEO



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