

## QUALITY CERTIFICATE

Our Quality Department registered as Luz Negra S.L., with address in C/ Carles Buigues, 13 Polígono Industrial Can Castells 08420 Canovelles (Barcelona)

### CERTIFIES

That the Luz Negra range of aluminum profiles “ Led Profile” complies with CE regulations in accordance with European directives and the following required standards:

#### ALUMINIUM BASE FOR EXTRUSION:

Profile 13445 Type:E01, ALLOY 6063/6060, batch 54624 from ALUMINIO ESPAÑOL, S.A. with composition:

| Fe   | Cu   | Mn   | Si   | Zn    | Ti    | Mg   | Al    |
|------|------|------|------|-------|-------|------|-------|
| 0,19 | 0,01 | 0,03 | 0,47 | 0,003 | 0,012 | 0,41 | 98,83 |

(Data given by supplier)

#### THERMAL HARDENING TREATMENT

Status: T4

| Characteristics hardness min. surface |         | Real hardness |
|---------------------------------------|---------|---------------|
| Webster                               | Brinell | Webster       |
| 10                                    | 60      | 10            |

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

#### DIMENSIONS AND TOLERANCES:

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

#### SURFACE TREATMENT ANODISED:

The profile in question has received S55 finishing which corresponds to silver anodising (10 Microns) and the corresponding testing has been carried out according to QUALANOD Edition 01/07/2010:

| TEST                     | NORMATIVE       | CHARACTERISTICS                    |
|--------------------------|-----------------|------------------------------------|
| Thickness                | UNE-EN-ISO 2360 | Int. (5-10) y Ext. (15-25) microns |
| Weight loss              | UNE-EN-12373-7  | $\leq 30$ mg/dm <sup>2</sup>       |
| Testing with colour drop | UNE-EN-12373-4  | 0 -2                               |

And for the record and at the request of the interested party, this certificate is issued, in Canovelles on September 26, 2020.

