

INTERNALLY ILLUMINATED GUIDANCE SIGNS

RELATED STANDARDS

ICAO: Signs are in accordance with Annex 14, Volume 1, Para 5.4 and Appendix 4

FAA: Signs are in accordance with AC 150/5345-44G

APPLICATIONS

On civil or military airports as;

- Mandatory Instruction Signs
- Information Signs
- VOR Check Point Signs
- Runway Distance Remaining Signs
- Arresting Barrier Signs



IMPORTANT FEATURES

- Complies with the requirements of ICAO Annex 14, for luminance and chromaticity
- Economical to run and easy to maintain; low power demand, long lamp life, vertical panels keep dirt from accumulating
- Low weight, yet rigid construction due to aluminum extrusions and parts
- Frangibility compliance to ICAO and FAA requirements
- Stainless steel hardware
- Reliable operation between -20°C to +55°C.
- Re-lamping is fast and easy with removable parts
- Multiple lamps ensure signal availability in case of partial lamp failure.
- 24W fluorescent lamps used in all size with over 10000 hours of average rated lamp life and 75 lm/watt efficiency. The 6000K light source also improves color contrast and sign legibility.
- Seamless polycarbonate message panels resistant UV, abrasion and high temperatures. The 4mm thick panels provide improved resistance to jet blasts and strong winds.
- High power factor



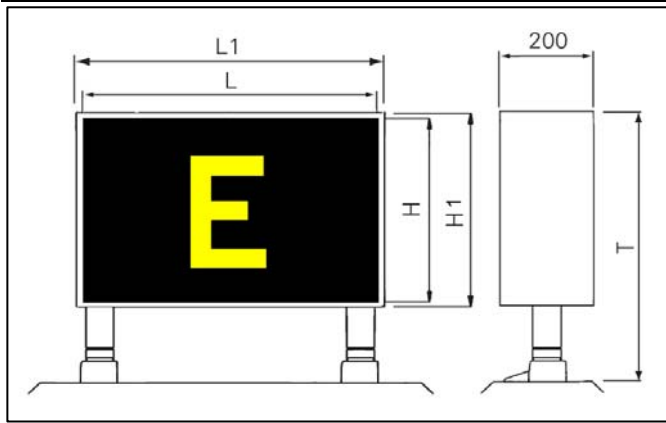
MATERIALS AND FINISH

- Body: Aluminum extrusions, panels, corner leg supports and mounting legs
- Panel: long-life polycarbonate, UV. and abrasion resistant
- Stainless steel hardware
- White colored baked polyester powder coating

ELECTRICAL SUPPLY

Series 2.8 to 6.6A

DIMENSIONS



| | | | | |
|---------|------|------|------|------|
| L (mm) | 700 | 900 | 1100 | 1300 |
| L1 (mm) | 750 | 950 | 1150 | 1350 |
| L (mm) | 1500 | 1700 | 1900 | 2100 |
| L1 (mm) | 1550 | 1750 | 1950 | 2150 |
| L (mm) | 2300 | 2500 | 2700 | 2900 |
| L1 (mm) | 2350 | 2550 | 2750 | 2950 |

H = 400, 600 or 800 mm Legend Height = H/2

T = 650, 850, or 1050 mm

PHOTOMETRIC PERFORMANCE

Lamp(s) : 24 W, U-shaped fluorescent, 10000 hours.

AVERAGE SIGN LUMINANCE

Calculated as per ICAO Annex 14, Appendix 4, FIG. 4.1.

| Color | Luminance(Cd/m ²) | Min. ICAO Requirement RVR<800m |
|--------|-------------------------------|-----------------------------------|
| Red | 79 | 30 |
| Yellow | 325 | 150 |
| White | 560 | 300 |

- Red/White ratio: 1/7 (Specification 1/5<Ratio<1/10)

- Uniformity factor: 5/1 between maximum and minimum values over total sign area

COLORIMETRY AT NIGHT CONDITIONS

According to CIE no 39-2 (TC - 1,6) 1983 Fig. 4

| Color | x | y |
|--------|-------|-------|
| Red | 0,672 | 0,318 |
| Yellow | 0,515 | 0,480 |
| White | 0,344 | 0,360 |

Illuminant : internal source

CIE 1931 2. Standard Colorimetric Observer.

POWER CONSUMPTION

| Qty of Lamps | Series Supply | | | | | |
|--------------|----------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|
| | 4.8 to 6.6 A | | 2.8 to 6.6 A | | 6.6 A Fix | |
| | Ema Series Transformer (W) | CCR Load at 6.6A (VA) | Ema Series Transformer (W) | CCR Load at 6.6A (VA) | Ema Series Transformer (W) | CCR Load at 6.6A (VA) |
| 1 | 100 | 130 | 100 | 130 | 100 | 100 |
| 2 | 100 | 160 | 100 | 165 | 100 | 100 |
| 3 | 100 | 160 | 200 | 280 | 150 | 200 |
| 4 | 200 | 300 | 200 | 300 | 150 | 200 |
| 5 | 200 | 320 | 300 | 400 | 200 | 320 |
| 6 | 200 | 340 | 300 | 430 | 200 | 320 |