

- **Product Name** : Single Face LED Airport Guidance Sign Boards
- **Model** : SE-AGS-LED-1F
- **Product Type** : Airport Guidance Sign Boards
- **Features** :
 - Designed and developed as per ICAO Annex 14 and FAA Standards.
 - Virtually eliminates runway shutdowns due to LED light source.
 - Direct replacement for existing sign.
 - Creates a highly uniform distribution of light, eliminating hot spots and shadows.
 - Operates on ferroresonant or thyristor CCRs that are designed in compliance with FAA / ICAO-ANNEX-14 requirements.
 - Operates on 3-step, 5-step and 6.6A series circuits.
 - Eliminates re-lamping expenses and reduces on-going maintenance costs.
 - Improved safety — low, regulated DC voltage inside sign.
 - Sign lumen maintenance of 70% (L70) minimum for greater than 5 years (assuming sign operates an average of 12 hours per day)
- **Applications:**
 - L-858Y—Direction, Destination, and Boundary (Informational Sign)
 - L-858R—Mandatory Sign
 - L-858L —Runway/Taxiway Location Sign
 These signs are designed to guide pilots to a particular point on the field, identify holding positions, identify taxiway and runway intersections, and prohibit aircraft entry into designated areas.
 - L-858B—Runway Distance Remaining Sign
 The L-858B is used at 1,000-foot intervals adjacent to the runway edge in order to provide runway distance remaining information to pilots during takeoff and landing operations.
- **Specifications:**
 - 1) **Type of Sign Illumination** : Trans illuminated signage with retro reflective sheets / regular sheets.
 - 2) **Lamp Type** : LED.
 - 3) **Sign Power Input** : Style-3 signs designed for operation from an airport series lighting circuit with a current range of 2.8 to 6.6 amperes or a current range of 8.5 to 20 amperes using Isolation Transformer In-between. (As per FAA - AC No: 150/5345-44F - Clause 4.1.4 – Sign Power.)
 - 4) **Wind Load and Frangibility** : Legs provided with breakable coupling for frangibility; As per FAA - AC No: 150/5345-44F - Clause 4.8.3.2
 Wind Load and Frangibility Test can withstand wind speed of and jet blast of 90 m/s. As per ICAO Annex 14 Ch. 11 Clause: 11.7.6.
 - 5) **Water Ingress Protection** : As per FAA - AC No: 150/5345-44F - Clause - 4.8.4.5 Rain Test.
 - 6) **Low Temperature Tolerance** : As per FAA - AC No: 150/5345-44F - Clause - 5.6.2.3 Low Temperature Test.
 - 7) **High Temperature Tolerance** : As per FAA - AC No: 150/5345-44F - Clause - 5.6.2.4 High Temperature Test.
 - 8) **Luminance Ratio** :
 - Between red and white elements: 1:5 to 1:10 (For Mandatory Signs) (As per ICAO Annex 14 – Appendix-4 Clause: 5).
 - Between adjacent grid points: not more than 1.5:1 (for grid spacing 7.5 cm) (As per ICAO Annex 14 – Appendix-4 Clause: 8).
 - Between adjacent grid points: not more than 1.25:1 (for grid spacing 15 cm) (As per ICAO Annex 14 – Appendix-4 Clause: 8).
 - Maximum and Minimum Luminance over whole sign face: not more than 5:1(As per ICAO Annex 14 – Appendix-4 Clause: 8).
 - 9) **Arithmetic Average Value of Sign Luminance of** (As per ICAO Annex 14- Appendix-4 Clause:4 (a))
 - Red Background : 30 cd/m²
 - Yellow Background : 150 cd/m²
 - White Background : 300 cd/m²
 - 10) **Sign Board Frame Work** : Signage frame work contains thick anodized 2 mm thick aluminium profile work with stiffening support.
 - 11) **Sign Board Back Cover** : 2 mm thick Aluminium sheet Back cover.
 - 12) **Sign Board Face** : The signage face is made of 4mm thick poly carbonate glass with computerized cutting and pasting of regular vinyl or Retro-reflective vinyl of make 3M or equivalent.
 - 13) **Emergency Change Over** : Signage Board with Built in Change over Circuit for Main and Stand-by C.C.R for automatic change over operation in case of Line / C.C.R Fault.
 - 14) **Operating Temperature** : Temperature: -40°F to +131°F (-40°C to +55°C)

