

# TRANSIT LF



The Transit LF Lighting system is manufactured using specially designed anodized aluminum extrusions, attached to custom-formed aluminum composite panels. This unique design provides access along the length of the system. Fluorescent lighting is positioned to focus light onto the seated passenger's reading plane and reduce window glare. Environmentally friendly low mercury fluorescent tubes are standard.

*We design innovative bus interiors.*

# TRANSIT LF

## LAMP FIXTURE

The lamp fixture shall consist of anodized, extruded aluminum light housing with an integral semi-parabolic reflector, configured to focus light onto the reading plane of seated passengers. One side of the light housing shall accommodate a slotted/vented duct panel to provide air conditioning to the seated passenger. A continuous interlocking hinge shall be integral to the opposite side of the light housing and shall engage with a matching hinge that is attached to the advertising panel. Grommets shall be provided where all wires pass through light housings.

## ADVERTISING PANEL

The advertising panel shall be constructed of polyester coil coated aluminum composite material, attached to an anodized aluminum hinge. This hinge shall engage with the integral hinge of the light housing. The advertising surface shall accommodate and retain standard 11 inch tall advertising cards. When hinged open, the advertising panels shall not disengage from the light housing. The advertising panel shall be removable by unhooking at the continuous hinge. All fasteners used shall be captive fasteners. Plastic or composite backing strips shall be provided to interconnect the advertising panels. The complete lamp fixture and HVAC duct system shall be designed for the specific bus model and so configured to provide optimum HVAC performance.

## AIR DUCT

An HVAC ducting system shall be integral to this light system and be constructed of aluminum composite material and anodized aluminum light housing with matching continuous hinge.

## LENS

Lenses are to be ribbed, clear, extruded, and fire retarding polycarbonate material designed to snap fit into the light housings providing a tamper resistant assembly, not requiring mechanical fasteners. Lenses are to be of symmetrical design with internal diffuser prisms to minimize light reflection off the side windows. Lenses are to be easily removable for cleaning and shall be sealed against dust and insects.

## BALLAST

Individual electronic inverter type ballast provided shall be a part of each light fixture. Ballast shall be non-potted design, rebuildable and enclosed in a fireproof metal housing. Ballast shall operate at above 22,000 Hz. frequency with a maximum 205 ma. RMS current output. Components shall have conformal coating against environmental air pollution, moisture and humidity with an operating temperature range of -20 deg. to +55 deg. C. All electrical circuits shall be short circuit, thermal and reverse polarity protected by means of an integral ATO fuse, accessible inside the light housing without ballast removal. The ballast shall feature a diagnostic LED, visible through the light lens. All ballast shall be tested utilizing individual Hi-pot tests at 1,300vac and be rebuildable.



## RECYCLABILITY

All materials used in the construction of light housings, advertising panels and HVAC ducting shall be of known recyclable material construction. ( i.e.. aluminum and plastics )

## FIRE RETARDANCY

All components used in the construction shall meet or exceed the following standards:

FMVSS 571-302, ASTM E-162 Surface Flammability Is. 0.90, Fs. 1.03 and ASTM E-662 Smoke Generation max. Ds. = 48. Docket 90-A.

## CONSTRUCTION

Anodized aluminum extrusions and polyester coil coated aluminum composite panels.

## MECHANICAL PROPERTIES

|  |           |
|--|-----------|
| Tensile Strength (PSI.) Al.                                | 41,500    |
| Yield Strength (PSI.) Al.                                  | 31,000    |
| Shearing Strength (PSI.) Al.                               | 22,000    |
| Flexural Modulus (PSI.) Ac.                                | 4,590,000 |
| Thermal Conductivity "K" Ac.<br>(BTU/in./hr./Deg.F/sq.ft.) | 1.587     |
| Vibration Dampening Factor DIN 53440 Ac.                   | 0,0048    |
| Water Absorption ASTM – C272                               | 0,01%     |

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**PRETORIA**  
Transit Interiors, Inc.