



# LINDSTRAND BALLOONS LTD

## FLIGHT MANUAL SUPPLEMENT NO. 1.21

### SPECIAL SHAPED ENVELOPE - LBL SALOON CAR

#### SECTION 1 - OPERATIONAL LIMITATIONS

##### 1.1.6 Wind Speed

The maximum surface wind speed for take off and landing of the Lindstrand Balloons Ltd Saloon Car special shaped hot air balloon is 5 knots.

##### 1.1.8 Ascent/Descent Speed

The maximum recommended rate of climb and descent for the LBL Saloon Car special shaped balloon is 2.0 m/s (400 ft/min).

##### 1.5.1 Maximum Mass

TABLE 1

Balloon Type	Nominal Volume		FAI Class	Maximum Mass		Envelope Mass	
	cu.m.	cu.ft.		kg	lbs	kg	Lbs
LBL Saloon Car	2550	90,000	AX8	900	1980	235	517

##### 1.5.3 Payload Calculation

Calculation of the payload for the LBL Saloon Car special shaped balloon is identical to the procedure described. The conversion of the lift per unit volume figure, found from the load charts, into a gross lift figure is achieved by multiplying by the nominal volume given above.

##### 2.2.2 Cold Inflation

Ensure that the 11 deflation vents are closed. One main rip panel is located in the top of the car. Four deflation vents are located one in each wheel and three vents are located in the front and rear underbody areas.