



LINDSTRAND BALLOONS LTD

FLIGHT MANUAL SUPPLEMENT NO. 1.19

SPECIAL SHAPED ENVELOPE - LBL BEAR

SECTION 1 - OPERATIONAL LIMITATIONS

1.1.6 Wind Speed

The maximum surface wind speed for take off and landing of the Lindstrand Balloons Ltd Bear special shaped hot air balloon is 10 knots.

1.1.8 Ascent/Descent Speed

The maximum recommended rate of climb and descent for the LBL Bear special shaped balloon is 4.0 m/s (800 ft/min). The parachute vent must not be held open for more than one second when in flight.

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 Bear	2973	105,000	AX8	1050	2310	240	528

1.5.3 Payload Calculation

Calculation of the payload for the LBL Bear 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 7 deflation vents are closed. Two main rip panels are located in the back of the bear. Five deflation vents are located one in each ear, one at the top of each arm and one in the bears' snout.