



# LINDSTRAND BALLOONS LTD

## FLIGHT MANUAL SUPPLEMENT NO. 1.7

### SPECIAL SHAPED ENVELOPE - LBL FRUIT BOTTLE

#### SECTION 1 - OPERATIONAL LIMITATIONS

##### 1.1.6 Wind Speed

Add the following:

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

##### 1.1.8 Ascent/Descent Speed

Add the following:

The maximum rate of climb and descent for the LBL Fruit Bottle special shaped balloon is 2.5 m/s (500 ft/min).

##### 1.5.1 Maximum Mass

#### TABLE 1

Add the following:

Balloon Type	Nominal Volume		FAI Class	Maximum Mass		Envelope Mass	
	cu.m.	cu.ft.		kg	lbs	kg	Lbs
LBL Fruit Bottle	2973	105,000	AX8	1050	2310	235	517

##### 1.5.3 Payload Calculation

Add the following:

Calculation of the payload for the LBL Fruit Bottle 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.