



9.2.7 Balloon System and Description

9.2.7.12 Equipment list

9.2.7.12.1 Envelope list

TABLE 5 - Kavanagh Special Shape Envelopes

Model	Burner	Basket	Load Frame	GCW (Kg)
Box-90	B	A,B	A,B	902

NOTE: *The above basket options may be of a lower GCW than the envelope. This is allowable provided the GCW is reduced to that of the basket. Always refer to section 5.3 of the Flight Manual, loading system.*



9.2 Special Shape Envelopes

9.2.1 Approval details

Approved By _____

Civil Aviation Safety Authority Australia

Approval Date _____

9.2.1.1 General Information

This supplement covers Kavanagh Special Shape Envelopes.

This supplement should be inserted in the Flight Manual and the List of Supplements updated accordingly.

Information in this supplement, or in the case of conflict, supersedes information in the Flight Manual. Consult the Flight Manual for any and all limitations, procedures or performance data not contained in this supplement.

Issue 1 of this supplement has 4 pages

9.2.1.2 Certification Basis

The types of balloon to which this manual is applicable have been approved by the Civil Aviation Safety Authority of Australia, in accordance with CASR Part 31, under the following Type Certificates:

Table 1 - Type Certificates and applicable models

Type Certificate	Model	From serial No.
VL508	Box-90	405



9.2.2 Limitations

9.2.2.1 Gross Certificated Weight

Table 2 - Active Volume and GCW for each model

Model	Active Volume		CGW(KG)
	Ft ³	m ³	
Box-90	90,000	2195	902

9.2.2.2 Envelope temperature

No change

9.2.2.3 Rate of Climb and Descent

Table 3 - Rate of climb for each model

Model	Max rate of climb	Max rate of descent
Box-90	600fpm	600fpm

9.2.2.4 Meteorological conditions

- Table 4 gives model specific wind speed limitations for free flight and tether operations.
- Meteorologic conditions including surface wind speeds must be monitored during tether operations to ensure the limitations are not exceeded.
- If during tether operations surface conditions cause the balloon to become unstable, it must be deflated immediately.



Table 4 - Meteorological conditions

Model	Free flight	Tether operations
Box-90	10kts	5kts

9.2.2.6 Minimum burner requirements

Refer to table 4 in section 9.2.7.12.1 of this supplement for type specific burner requirements.

9.2.2.8 Baskets

- Where the basket exceeds the length to width ratio of 1.6:1, rotation vents must be fitted to the envelope.

9.2.3 Emergency Procedures

No Change

9.2.4 Normal Procedures

No Change

9.2.5 Performance

No Change

9.2.6 Weights

No Change