

Issue 5 to Supplement 8.57 is approved  
by CAA under approval number UK.MAJ.00015 on 03 June 2021

## 8.57 NEW ENVELOPES

### 8.57.1 GENERAL INFORMATION

This supplement shall be inserted in the Flight Manual, in Section 8: 'Supplements' with the revisions record sheet amended accordingly.

Information contained herein supplements, or in the case of conflict supersedes that contained in the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Hot Air Balloon Flight Manual.

Issue 5 of this supplement consists of 4 pages.

#### 8.57.1.2 Certification Basis

The model of balloon for which this supplement is applicable have been approved under the following Type Certificates.

Model	Type Certificate
Z-340HL, A-370, Z-370, Z-420LW, Z-450S and Z-500	EASA.BA.013
Sport-105 and Z-550	UK.TC.BA.00002

### 8.57.2 LIMITATIONS

Table 2 (additional): Envelope Weight Limits and Volumes

Variant	Volume		Standard MTOM		Reduced MTOM		MLM		FAI Class AX
	ft <sup>3</sup>	m <sup>2</sup>	kg	lb	kg	lb	kg	lb	
105	105 000	2974	952	2100	952	2100	476	1050	8
340HL	340 000	9629	3084	6800	2699	5951	1542	3400	12
370	370,000	10479	3357	7400	2699	5951	1678	3700	12
420LW	420,000	11895	3662	8075	2699	5951	1831	4037	12
450S	450 000	12744	4082	9000	2699	5951	2041	4500	13
500	500 000	14160	4536	10000	2699	5921	2268	5000	13
550	550 000	15574	4990	11000	2699	5951	2495	5500	13

### 8.57.3 EMERGENCY PROCEDURES

No change.

### 8.57.4 NORMAL PROCEDURES

No change.

## 8.57.5 WEIGHT CALCULATIONS

**Table 3 (additional): Total Permitted Lift (kg)**

Balloon Size	Lift (lb) Per 1000 cu.ft										
	10	11	12	13	14	15	16	17	18	19	20
105	476	524	572	619	667	714	762	810	857	905	952
340HL	1542	1696	1850	2005	2159	2313	2467	2621	2776	2930	3084
370	1678	1846	2014	2182	2350	2517	2685	2853	3021	3189	3357
420LW	1905	2096	2286	2477	2667	2858	3048	3239	3429	3620	3662
450S	2041	2245	2449	2653	2857	3061	3265	3469	3673	3878	4082
500	2268	2494	2721	2948	3175	3401	3628	3855	4082	4309	4536
550	2495	2744	2994	3243	3493	3742	3992	4241	4491	4740	4990

**Table 4 (additional): Total Permitted Lift (lb)**

Balloon Size	Lift (lb) Per 1000 cu.ft										
	10	11	12	13	14	15	16	17	18	19	20
105	1050	1155	1260	1365	1470	1575	1680	1785	1890	1995	2100
340HL	3400	3740	4080	4420	4760	5100	5440	5780	6120	6460	6800
370	3700	4070	4440	4810	5180	5550	5920	6290	6660	7030	7400
420LW	4200	4620	5040	5460	5880	6300	6720	7140	7560	7980	8075
450S	4500	4950	5400	5850	6300	6750	7200	7650	8100	8550	9000
500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
550	5500	6050	6600	7150	7700	8250	8800	9350	9900	10450	11000

## 8.57.6 BALLOON AND SYSTEMS DESCRIPTION

No change.

## 8.57.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.57.9 EQUIPMENT LIST

Table 5 (additional): Envelopes

<b>Envelope Type</b>	<b>Drawing Number</b>	<b>Applicable Burners</b>	<b>Applicable Baskets</b>
Cameron Sport-105	CB1808	B	B,C,D,E,F,G,H,I,J,K
Cameron Z-340HL	CB1791	D	L,M,N,O,P,Q
Cameron A-370	CB1802	D	M, N, O, P, Q
Cameron Z-370	CB1801	D	M, N, O, P, Q
Cameron Z-420LW	CB1800	D	N, O, P, Q
Cameron Z-450S	CB1780	D	O,P,Q,R
Cameron Z-500	CB1777	D	P,Q,R
Cameron Z-550	CB1809	D	P,Q,R

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