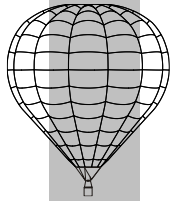


LIST OF APPROVED REVISIONS

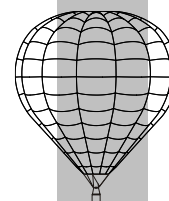


0 REVISIONS / CONTENTS

Rev	Description	Approval	
		Date	Reference
1	Sup. 3, 4, 5 added	17/Sep/03	DGAC - Spain
2	Sup. 6, 7 added	18/Oct/03	DGAC - Spain
3	Sup. 9 added; V-25 model added; Section 8 amended	14/Feb/06	EASA BA.C.01011
4	Sup. 10 added	14/Feb/06	EASA BA.C.01011
5	Sup. 6 amended; Sup. 11 added	14/Feb/06	EASA BA.C.01011
6	Sup. 12 added	31/Jul/06	EASA BA.A.01001
7	Sup. 13, 14 added; Section 5.6 added	31/Jul/06	EASA BA.A.01001
8	Sup. 8 added	03/Mar/08	EASA BA.C.01028
9	Sup. 13 amended; Page 5.8 amended; Sup. 15, 16 added	31/May/07	EASA BA.A.01004
10	FAA requirements added; Section 8 amended; Sup. 19, 20 added	08/Feb/08	EASA BA.A.01010
11	Sup. 17, 18 added	21/Dec/07	EASA BA.C.01067 EASA BA.C.01068
12	Sup. 21 added; Sup.15 amended	18/Apr/08	EASA BA.A.01014
13	Sup. 22 added; Sup. 6, 9, 17, 18, 19 amended; Other minor modifications	29/Apr/08	DOA 21J.351 PD1-05 002
14	Sup. 25 added; Other minor modifications	23/Jul/08	EASA BA.A.01015
15	Sup. 23, 26 added; Other minor modifications	27/Jan/09	DOA 21J.351 PD1-05 009
16	Section 0, 2, 5, 6, 8, 9 amended; Sup. 8, 19, 26 amended; Sup. 27, 28, 34, 36 added	08/Sep/09	DOA 21J.351 PD1-05 012
17	Section 0, 4, 9 amended; Sup. 37, 38, 39 added	19/Jul/11	EASA 0010035791
18	Section 0, 1, 2, 5, 8, 9 amended; Appendix A, B amended; Sup. 24, 42 added; Sup. 4, 6, 19, 34, 39 amended	20/Jan/12	EASA 0010038120
19	Section 5 amended	12/Jun/12	EASA 0010016389
20	Sup. 22, 38, 39 amended	08/Mar/13	EASA 0010016416
21	Sup. 8, 38 amended; Other minor modifications	20/May/13	DOA 21J.351 PD1-05 023
22	Section 0, 2, 4, 5, 8, 9 amended; Appendix C amended; Sup. 47 added; Sup. 4, 6, 12, 13, 24 deleted	29/Nov/13	DOA 21J.351 PD1-05 024
23	Section 0, 1, 4, 5, 6 amended; Appendix B amended; Sup. 2, 10, 19, 22, 39 amended; Sup. 46, 48, 49 added	21/Jan/15	DOA 21J.351 PD1-05 028
24	Minor revisions to sections 0, 1, 2, 4, 5, 6, 9, Appendixes B, C and D.	21/Dec/15	DOA 21J.351 PD1-05 034
25	Minor revisions to sections 0, 1, 2, 3, 4, 5, 6 and 7	29/Apr/20	DOA 21J.351 PD1-05 062
26	Minor revision to sections 2.14, 4.8.2.2, 4.13, 6.2.2.5, Appendix B and Appendix E	09/Oct/20	DOA 21J.351 PD1-05 063
27	Embodiment of Suppl. 34, 52, 56, 62, 72 & 73. Corrections, format adjustment.	15/Dec/23	DOA 21J.351 PD1-05 099
	N-550 envelope & C-15 basket addition.		EASA Project 60087942
28	Editorial updates and corrections	11/Jan/24	DOA 21J.351 PD1-05 100
29	Section 2.12 update – MK-32 Quad volume range extension.	28/Jan/2025	EASA Project 60093254
	Temporary Revision 001 Iss.1 added. Typo corrections and disambiguations. Embodiment of contents from Sup. 10 & 80. Appendix B update.	28/Feb/2025	DOA 21J.351 PD1-05 110 & 122
30	N-210 & T-210 with C-6 compatibility extension	21/07/2025	DOA 21J.351

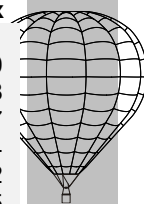
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Model	Basket	Pv	Lmax	Model	Basket	Pv	Lmax	Model	Basket	Pv	Lmax
G-90	C-3	215	878	T-180	C-5	422	1 754	N-450	C-14	954	4 140
	C-1	203	878		C-6	336	1 412		C-12	878	3 878
	C-2	198	878		C-7	352	1 640		C-11	777	3 457
	C-4	236	878		C-8	405	1 754		C-9	706	2 914
	C-10	231	878		C-9	515	1 754		C-5	613	2 182
S-105	C-4	255	1 032	N-180	C-5	421	1 754	N-500	C-8	641	2 435
	C-1	222	1 032		C-6	335	1 411		C-12	865	3 813
	C-3	234	1 032		C-7	351	1 639		C-14	1055	5 000
	C-10	250	1 032		C-8	404	1 754		C-15	1170	5 000
V-105	C-4	269	1 032	T-210	C-9	514	1 754	N-550	C-12	1018	4 018
	C-1	236	1 032		C-8	437	2 070		C-14	1103	5 000
	C-3	248	1 032		C-5	454	2 023		C-15	1220	5 000
	C-10	264	1 032		C-6	393	1 469				
M-105	C-4	254	1 032		C-7	384	1 672	Pv = Empty Weight (no cylinders) [kg] Lmax = Maximum Lift [kg]			
	C-1	221	1 032	C-9	547	2 070					
	C-3	233	1 032	C-11	618	2 070					
	C-10	249	1 032	N-210	C-8	438	2 064				
M-120	C-4	265	1 173		C-5	455	2 024				
	C-1	232	1 173		C-6	394	1 470				
	C-3	244	1 173		C-7	385	1 673				
	C-5	357	1 173	C-9	548	2 064					
	C-6	271	1 173	C-11	619	2 064					
	C-7	287	1 173	N-250	C-8	478	2 272				
	C-10	260	1 173		C-5	495	2 064				
S-130	C-4	281	1 365		C-9	588	2 408				
	C-1	248	1 280	C-11	659	2 408					
	C-3	260	1 365	N-300	C-9	623	2 831				
	C-5	373	1 365		C-5	530	2 099				
	C-6	287	1 363		C-8	513	2 307				
	C-7	303	1 365		C-11	694	2 924				
	C-10	276	1 276	C-12	795	2 924					
M-130	C-4	276	1 365	N-355	C-9	654	2 862				
	C-1	243	1 275		C-5	561	2 130				
	C-3	255	1 365		C-8	544	2 338				
	C-5	368	1 365		C-11	725	3 405				
	C-6	282	1 358	C-12	826	3 450					
	C-7	298	1 365	N-370	C-12	858	3 450				
	C-10	271	1 271		C-11	757	3 405				
M-145	C-6	297	1 373		C-9	686	2 862				
	C-3	270	1 436	C-8	621	2 338					
	C-4	291	1 436	C-5	593	2 130					
	C-5	383	1 436	N-390	C-5	627	2 196				
	C-7	313	1 436		C-8	663	2 457				
	C-10	286	1 286		C-9	728	2 936				
	T-150	C-3	280		1 465	C-11	810	3 490			
C-10		296	1 296	C-12	911	3 795					
C-4		301	1 465	N-415	C-5	632	2 201				
C-5		393	1 465		C-8	668	2 462				
C-6		307	1 383		C-9	733	2 941				
C-7		323	1 465		C-11	815	3 495				
S-160		C-5	391	1 569	C-12	916	3 916				
	C-4	299	1 569	C-14	1002	3 950					
	C-6	305	1 381	N-425	C-12	860	3 860				
	C-7	321	1 569		C-11	759	3 439				
	C-10	294	1 294		C-9	688	2 896				
M-160	C-5	394	1 569		C-5	595	2 164				
	C-4	302	1 569	C-8	578	2 372					
	C-6	308	1 384	C-14	948	4 140					
	C-7	324	1 569								
	C-10	297	1 297								



5 LOADING

		BASKETS							BURNERS												OTHER					
		C-6	C-7	C-5	C-8	C-9	C-11	C-12	MK-10 Double	MK-21 Double	BMK-008 Double	MK-32 Double	MK-2 Triple	MK-10 Triple	BMK-050 Double	MK-21 Triple	MK-32 Triple	MK-2 Quad	MK-10 Quad	BMK-050 Triple	MK-21 Quad	MK-32 Quad	FDS	Rotation Vents	Min Cylinders	
Envelope Model	T-180																							STD	STD	2
	N-180																							STD	STD	2
	T-210																							STD	STD	2
	N-210																							STD	STD	2
	N-250																							STD	STD	3
	N-300																							STD	STD	3

Envelope Model	BASKETS							BURNERS						OTHER		
	C-5	C-8	C-9	C-11	C-12	C-14	C-15	MK-2 Quad	MK-10 Quad	BMK-050 Triple	MK-21 Quad	MK-32 Quad	BMK-050 Quad	FDS	Rotation Vents	Min Cylinders
N-355														STD	STD	4
N-370														STD	STD	4
N-390														STD	STD	4
N-415														STD	STD	4
N-425														STD	STD	4
N-450														STD	STD	4
N-500														STD	STD	4
N-550														STD	STD	4

5.5. Minimum Take off Mass

The total take off mass must never be less than that specified in the following table. This applies to all balloons of Volume greater than 90,000 ft³.

Explanation note: These values provide for an appropriate internal pressure of the envelope which results in less vulnerability to envelope deformation (loss of hot air) by gusts.

Volume [ft ³]	Volume [m ³]	Maximum TOM [kg]	Minimum TOM [kg]
25,000	708	250	n/a
31,000	900	307	n/a
42,000	1 200	414 (M-42) 416 (H-42)	n/a
50,000	1 415	500	n/a
56,000	1 650 (V-56) 1 590 (All others)	549 (V-56/M-56Z/H-56) 550 (M-56/M-56C)	297 (M-56Z only)
60,000	1 700	588	299
65,000	1 840	635 (M-65C) 636 (M-65Z) 638 (M-65/V-65/H-65)	303 (M-65Z only)

