

Civil Aviation Authority United Kingdom



TYPE-CERTIFICATE DATA SHEET

UK.TC.BA.00001

for

Cameron Special Shape Hot-Air Balloons

Type Certificate Holder

Cameron Balloons Ltd

St Johns Street

Bedminster

Bristol BS3 4NH

UNITED KINGDOM

UK.21J.0140

Model(s): Cameron Special Shape Hot-Air Balloons

Issue: 8

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Section 1 General (All Types and Variants)

I. General

1. Type / Variant or Model

- a) Type: Cameron Special Shape Type
b) Variant or Model: Refer to Section 2

2. Type Certificate Holder

Cameron Balloons Ltd.
St Johns Street
Bedminster
Bristol BS3 4NH
United Kingdom

3. Manufacturer

Cameron Balloons Ltd.
St Johns Street
Bedminster
Bristol BS3 4NH
United Kingdom

4. Date of Application

Various, refer to Section 2

5. Approval date

Various, refer to Section 2

II. Certification Basis

1. Reference Date for determining the applicable requirements

Various, refer to Section 2

2. UK Certification Basis

Various, refer to Section 2

3. Airworthiness Standards

British British Civil Airworthiness Requirements, Manned Free Balloons, Draft Issue 2 dated May 1978, (‡ in Table 1)
British Civil Airworthiness Requirements, Manned Free Balloons, Draft Issue 3 dated September 1979, (τ in Table 1)
British Civil Airworthiness Requirements, Part 31 issue dated 31/8/84
EASA CS 31HB (final CG9 draft 27 February 2003) (♣ in Table 1).
EASA CS 31HB Issue 1 (€ in Table 1).
EASA CS 31HB Issue 1, Amendment 1 (€€ in Table 1).
(UK) CS.31HB (£ in Table 1)

4.	Special Conditions (SC)	None
5.	Equivalent Safety Findings (ESF)	None
6.	Deviations	None
III. Technical Characteristic		
1.	Type Design Definition	Refer to Section 2
2.	Description	Manned Free Hot Air Balloons not of conventional shape (i.e., natural, semi-bulbous or bulbous profile). Volumes range from 40 000-210 000 ft³ (1 190 to 5 947 m³). Envelopes are fitted with rip panel, parachute, combination, Lock Top or rapid deflation systems. Envelope options include rotation vents (turning vents), pressure scoop, skirt and inflated artwork as required. The envelope is attached to the burner load frame/ basket using stainless steel flying cables. Burners (heaters) are specified in single, double, triple or quadruple configurations dependant on envelope size. Each unit incorporates a main burner, quiet burner and pilot light as a minimum. Baskets are generally of traditional woven cane construction in Open, Single Tee or Double Tee Partitions configurations. The stainless-steel suspension cables of the basket attach to the burner load frame and envelope using Karabiners. Pressurised fuel cylinders, manufactured from Titanium, Stainless Steel or Aluminium, and are available in volumes of 47 to 90 litres. The cylinders have the facility to withdraw the fuel as liquid or vapour as required. Additional equipment is mounted in the basket as required.
3.	Equipment	Equipment is listed in the Approved Cameron Balloons Flight Manual-Issue 9 or later approved revision a) Envelope Refer to Section 2 and Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision. b) Burner Refer to Section 2 and Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision. c) Basket Refer to Section 2 and Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision.

4. Mass

Refer to Section 2

IV. Operating Limitations

1. Envelope Temperature

The envelope temperature must not exceed 120 °C (250 °F).

2. Minimum Crew

One (Pilot)

3. Maximum Occupants

Not to exceed maximum take-off mass and limitations.

Refer to Approved Aircraft Flight Manual, Issue 10 or later approved revision

4. Fuel

Commercial Propane

5. Other Limitations

With the exception of single occupancy balloons, a minimum of two independent cylinders with provision to supply pilot lights (double burner) are required, three such cylinders for a triple burner, four for a quadruple burner. Extra cylinders may be used.

V. Operating and Service Instructions

1. Flight Manual

Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision.

2. Maintenance Manual

Cameron Balloons Maintenance Manual and Supplements-Issue 10 or later approved revision.

Inspection shall be in accordance with the latest issue of the inspection schedule - Cameron Balloons Maintenance Manual and Supplements-Issue 10 or later approved revision refers.

VI. Notes

Note 1) For the purpose of maintenance and inspection a log book must be maintained with each hot air balloon envelope. If the burner, basket, instruments and/or cylinders are interchanged, they must be listed in the log book of each envelope with which they are used.

Note 2) Where applicable, Special Shape variants are known by their original designation or by generic shape (given in brackets in **Table 1**).

Section 2 Cameron Special Shape Type (42 000-210 000 ft³)

Manned free hot air balloon of irregular shapes with multiple gores between 8 and 32 flying cables. The envelope general assembly is defined by drawing CB1554. The definition of all variants (models) is listed in **Table 1**.

Table 1 Special Shapes: Definitions, Limitations and Eligible Equipment

Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
AX56-Series 1/SP 1	56 000	1 856	AX56-SP1	508	-	A, B	B, C, D, E, F	13-07-78 ‡
House-60	60 000	1 700	CB192	544	-	B	B, C, D, E, F	01-04-81 τ
Colt 56 Satzenbrau Bottle	56 000	1 856	810310-1	508	-	A, B	B, C, D, E, F	06-10-81 τ
Can-60 (Barrel-60)	59 500	1 685	CB356	508	-	B	B, C, D, E, F	06-09-82 τ
Chateau-84 (House-1)	84 000	2 379	CB358	762	-	B	B, C, D, E, F	11-05-83 τ
Burger King (Burger-1)	56 000	1 856	CB404	508	-	B	B, C, D, E, F	28-08-84 τ
Colt Flying Head	69 000	1 954	840927-1	650		B	B, C, D, E, F	28-03-85
Elephant-77	70 000	1 982	CB414	635		B	B, C, D, E, F	15-04-85
Watch-75	75 000	2 123	CB459	572	-	B	B, C, D, E, F	13-02-86
Bear-72	72 000	2 093	CB472	590	-	B	B, C, D, E, F	16-05-86
Mickey-90 (Wimi-1)	90 000	2 549	CB492	816	-	B	B, C, D, E, F	11-10-86
Colt Flying Egg	90 000	2 549	SS-EGG-100	816	-	B	B, C, D, E, F	12-11-86
Egg-89	89 000	2 520	CB517	807	-	B	B, C, D, E, F	28-02-87
Donald-97 (Head-10)	97 000	2 747	CB587	880	-	B	B, C, D, E, F	28-02-87
Golf Ball-76 (Ball-1)	76 000	2 152	CB507	689	-	B	B, C, D, E, F	23-03-87
Colt Ariel Bottle (Bottle-1)	77 000	2 181	SS-1045-1	703	-	B	B, C, D, E, F	21-05-87
Colt Beer Glass	90 000	2 549	870319-1	816	-	B	B, C, D, E, F	03-06-87
Harley-78 (Motor Bike-1)	78 000	2 209	CB478	708	-	B	B, C, D, E, F	03-08-87
Dinosaur-80 (Quadruped-1)	80 000	2 266	CB606	726	-	B	B, C, D, E, F	07-02-88
Truck-56	56 000	1 856	CB383	508		A,B	B, C, D, E, F	24-06-88
Sultan-80 (Standing Figure-1)	75 550	2 139	CB638	685	-	B	B, C, D, E, F	07-07-88
Saucer-80	78 000	2 209	CB639	703	-	B	B, C, D, E, F	15-07-88
Tub-80	62 550	1 771	CB635	567	-	B	B, C, D, E, F	21-07-88
Club-90	68 300	1 934	CB618	620	-	B	B, C, D, E, F	29-07-88
Trivial Pursuit (Box-1)	77 000	2 181	SS-TP-101	703	-	B	B, C, D, E, F	11-08-88
Bus-90	80 000	2 265	CB647	726		B	B, C, D, E, F	16-09-88
RTW-120	120 000	3 398	CB665	1 088		B	B, C, D, E, F	05-01-89
Colt Flying Book (Box-2)	105 000	2 974	SS-FB-101	816	-	B	B, C, D, E, F	29-03-89
Colt Clown	105 000	2 974	SS-CLOWN-100	953	-	B	B, C, D, E, F	12-05-89
Sarotti-105 (Standing Figure-3)	104 000	2 945	CB702	943	-	B	B, C, D, E, F	21-06-89
Bottle-100 (Bottle-2)	100 000	2 832	CB625	907	-	B	B, C, D, E, F	05-05-88
Sphere-105	105 000	2 974	CB693	953	-	B	B, C, D, E, F	08-07-89
Cameron Box 105 (Telefonhäuschen)	105 000	2 974	CB703	953	-	B	B, C, D, E, F	15-08-89
Truck-72	72 000	2 039	CB720	658	-	B	B, C, D, E, F	18-09-89
Colt Jumbo-2	77 000	2 181	SS-JUM2-01	703		B	B, C, D, E, F	06-10-89
Cow-105 (Quadruped-2)	105 000	2 974	CB736	953	-	B	B, C, D, E, F	09-10-89
Cork-116	116 500	3 299	CB723	1057	-	B	B, C, D, E, F	13-10-89
Cork-82	82 600	2 339	CB723	749	-	B	B, C, D, E, F	13-10-89

Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Cheese-82 (Horizontal Cylinder-1)	82 000	2 322	CB721	744	-	B	B, C, D, E, F	10-11-89
Colt Flying Kiwi	77 000	2 181	SS-KIWI-100	703	-	B	B, C, D, E, F	10-01-90
Egg-65	65 000	1 841	CB744	590	-	B	B, C, D, E, F	13-02-90
Cooling Tower-80 (Cylinder-2)	80 000	2 265	CB749	726	-	B	B, C, D, E, F	13-03-90
Colt Flying Whiskey Bottle (Bottle-3)	77 000	2 181	800826-1	703	-	B	B, C, D, E, F	02-04-90
Gosser Mug-90/ Bierkrug-90 (Glass-1)	102 000	2 889	CB774	816	-	B	B, C, D, E, F	20-04-90
N-90 Nail	90 000	2 549	CB476	816	-	B	B, C, D, E, F	25-06-90
S Can-100	98 000	2 775	CB821	888	-	B	B, C, D, E, F	03-07-90
Macaw-90 (Bird-1)	103 890	2 942	CB784	942	-	B	B, C, D, E, F	27-07-90
Carrots-80	78 000	2 209	CB813	708	-	B	B, C, D, E, F	27-07-90
Flying Windmill	90 000	2 549	SS-MILL-200	816	-	B	B, C, D, E, F	07-08-90
Flying Lager Bottle (Bottle-4)	105 000	2 974	SS-LB-001	1 050	-	B	B, C, D, E, F	07-08-90
Colt Flying Mitt	90 000	2 549	SS-WC-100	900	-	B	B, C, D, E, F	07-08-90
Colt Cylinder One	105 000	2 974	PB-100	953	-	B	B, C, D, E, F	09-08-90
Bowler-90 (Hat-1)	84 000	2 379	CB832	762	-	B	B, C, D, E, F	11-08-90
Ball-70	69 000	1 954	CB693	626	-	B	B, C, D, E, F	12-08-90
Wimi Airbus-90 (Wimi-2)	90 000	2 549	CB825	816	-	B	B, C, D, E, F	22-08-90
Doll-90 (Cylinder-3)	84 000	2 379	CB818	762	-	B	B, C, D, E, F	23-08-90
Tiger-90	90 000	2 549	CB645	816	-	B	B, C, D, E, F	28-09-90
Colt Santa Claus (Standing Figure-4)	120 000	3 398	SS-SC-100	1 088	-	B	B, C, D, E, F	24-10-90
4 Pack-90 (Four Pack-1)	77 500	2 195	CB839	703	-	B	B, C, D, E, F	25-10-90
Furness 56 Building	67 000	1 897	CB823	609	-	B	B, C, D, E, F	25-10-90
Ship-90	103 200	2 922	CB706	936	-	B	B, C, D, E, F	21-11-90
Colt Flying Yacht	69 000	1 954	SS-YA-100	690	-	B	B, C, D, E, F	15-01-91
Colt Flying Jeans	90 000	2 549	SS-JN-104	816	-	B	B, C, D, E, F	15-01-91
Colt Flying Hut	105 000	2 974	SS-TH-100	953	-	B	B, C, D, E, F	01-02-91
Flying Beer Glass (Cylinder-4)	105 000	2 974	SS-Beer Glass 105 -100	953	-	B	B, C, D, E, F	10-08-91
Colt Bottle-90 (Bottle-5)	90 000	2 549	SS-PARR-100	816	-	B	B, C, D, E, F	02-09-91
Colt Mickey Mouse (Wimi-3)	90 000	2 549	SS-MICKY-100	816	-	B	B, C, D, E, F	02-09-91
Colt Flying Shuttlecock (Cone-1)	105 000	2 974	SS-SHUT 100	953	-	B	B, C, D, E, F	13-09-91
Rupert Bear-90 (Standing Figure-5)	90 000	2 549	CB940	816	-	B	B, C, D, E, F	26-09-91
Flying Castle	105 000	2 974	CB960	953	-	B	B, C, D, E, F	26-09-91
RX-100	100 000	2 832	CB961	907	-	B	B, C, D, E, F	10-01-92
Colt Bottle-11	90 000	2 549	CHM-100	816	-	B	B, C, D, E, F	13-05-92
Colt Film Can (Cylinder-5)	90 000	2 549	AFC-100	816	-	B	B, C, D, E, F	13-05-92
Brandenburger Tor (Box-3)	96 000	2 718	CB1001	871	-	B	B, C, D, E, F	22-05-92
Battery LR2 (Cylinder-6)	99 000	2 803	CB1006	898	-	B	B, C, D, E, F	03-06-92

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Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Football-120 (Sphere-120)	120 000	3 398	SS-BALL-100	1 088	544	B	B, C, D, E, F	11-06-92
Chicken-105 (Bird-2)	105 000	2 974	CB1008	953	-	B	B, C, D, E, F	08-07-92
Katalog-82 (Box-4)	82 000	2 322	CB1009	744	-	B	B, C, D, E, F	08-07-92
Colt Bottle-10	90 000	2 549	WWB-100	816	-	B	B, C, D, E, F	17-07-92
Shoe-90 (Shoe-1)	90 000	2 549	CB1005	816	-	B	B, C, D, E, F	22-07-92
Dude-90	90 000	2 549	CB1011	816	-	B	B, C, D, E, F	28-08-92
Cabin	120 000	3 398	CB1010	1 088	544	B	B, C, D, E, F	11-09-92
Clown (Standing Figure-6)	120 000	3 398	CB1014	1 088	-	B	B, C, D, E, F	09-11-92
Raindrop-77	79 500	2 252	CB1013	721	-	B	B, C, D, E, F	11-11-92
Pot-90	90 000	2 549	CB1018	853	-	B	B, C, D, E, F	12-01-93
Nissan Micra (Car-1)	84 000	2 380	CB1015	762	-	B	B, C, D, E, F	12-01-93
Colt Flying Open Book (Box-5)	90 000	2 549	SS-OPB-001	816	-	B	B, C, D, E, F	26-01-93
Bunch-100	95 500	2 705	CB1019	866	-	B	B, C, D, E, F	29-01-93
Sonic-90 (Figure 1)	94 500	2 678	CB1016	857	-	B	B, C, D, E, F	02-02-93
Bunny-90 (Standing Figure-7)	90 000	2 549	CB1021	816	-	B	B, C, D, E, F	18-03-93
Orange-120	121 500	3 436	CB1017	1 102	551	B	B, C, D, E, F	08-04-93
Horse-90 (Quadruped-3)	90 000	2 549	CB1020	816	-	B	B, C, D, E, F	08-04-93
Bottle-77 (Bottle-6)	77 500	2 190	CB1026	703	-	B	B, C, D, E, F	08-04-93
Pylon-80 (Figure-2)	80 690	2 286	CB1023	732	-	B	B, C, D, E, F	12-05-93
Cart (Box-6)	80 000	2 266	CB1027	726	-	B	B, C, D, E, F	14-05-93
Film Can-90 (Cylinder-7)	90 000	2 549	CB1024	816	-	B	B, C, D, E, F	10-06-93
Dragon (Quadruped-4)	100 000	2 832	CB1030	907	-	B	B, C, D, E, F	26-06-93
Cow-110 (Quadruped-5)	210 000	5 947	CB669	1 905	953	C, D	F, G, H, I, J	08-07-93
Colt Bottle -12	90 000	2 549	SS-GGIN-100	816	-	B	B, C, D, E, F	16-07-93
Flying Coffee Jar (Cylinder-8)	90 000	2 549	SS-COFF-100	816	-	B	B, C, D, E, F	20-08-93
Peacock-90 (Bird-3)	90 000	2 549	CB1036	816	-	B	B, C, D, E, F	12-08-93
Cider Bottle-120 (Cylinder- 9)	120 000	3 398	CB1038	1 088	544	B	B, C, D, E, F	14-09-93
Colt Flying Pig (Quadruped-6)	90 000	2 549	SS-PIG-100	816	-	B	B, C, D, E, F	23-09-93
Doll-105 (Standing Figure-8)	105 300	2 982	CB1039	953	-	B	B, C, D, E, F	30-11-93
Colt Bottle-13	90 000	2 549	SS-KAIS-100	816	-	B	B, C, D, E, F	13-04-94
Can-77 (Cylinder-10)	77 500	2 180	CB1054	703	-	B	B, C, D, E, F	01-06-94
Flying Piggy Bank (House-2)	105 000	2 975	SS-PBANK-100	953	-	B	B, C, D, E, F	13-07-94
Eagle-95 (Bird-4)	98 000	2 775	CB1055	889	-	B	B, C, D, E, F	15-08-94
N-120 Fox	120 000	3 398	CB1049	1 088	544	B	B, C, D, E, F, G	16-08-94
Flying Ice Cream Cone (Cone-2)	105 000	2 974	SS-ICE-100	953	-	B	B,C,D,E,F	31-08-94
Colt World-90	90 000	2 549	SS-DHL-100	816	-	B	B,C,D,E,F	31-08-94
Hex Glass-84 (Glass-2)	98 600	2 793	CB976	894	-	B	B,C,D,E,F	09-09-94
Bulb-65 (Light Bulb-1)	65 000	1 841	CB1073	590	-	B	B,C,D,E,F	07-02-95

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Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Otti-34	42 000	1 190	CB1116	381	-	A	A, B	23-03-95
Eagle -110 (Bird-5)	110 000	3 115	CB1098	998	-	B	B, C, D, E, F	01-04-95
Fire-90 (Cylinder-11)	90 000	2 549	CB1104	816	-	B	B, C, D, E, F	18-05-95
Cola Can-90 (Cylinder-12)	90 000	2 549	CB1102	816	-	B	B, C, D, E, F	20-06-95
Inverted Balloon-78	78 000	2 208	CB1114	708	-	B	B, C, D, E, F	14-08-95
Mug-90 (Cylinder-13)	90 000	2 549	CB1103	816	-	B	B, C, D, E, F	24-08-95
Thunder Forklift-90	90 000	2 549	CB1109	816	-	B	B, C, D, E, F	29-08-95
Grand Illusion	124 820	3 535	CB1111	1 132	-	B	B, C, D, E, F	30-08-95
Shopping Bag-120 (Box-7)	120 000	3 398	CB1145	1 088	-	B	B, C, D, E, F	05-12-95
N-120SP (Robijn)	120 000	3 398	CB1151	1 088	544	B	B, C, D, E, F, G	24-11-95
Loco-105 (Locomotive-1)	95 000	2 690	CB1154	862	-	B	B, C, D, E, F, G	19-02-96
Kookaburra-120 (Bird-6)	120 000	3 398	CB1160	1 088	-	B	B, C, D, E, F, G	11-04-96
Coffee Jug-90 (Jug-1)	90 912	2 574	CB1163	825	-	B	B, C, D, E, F	10-05-96
TV-80 (Box-8)	80 000	2 266	CB1170	726	-	B	B, C, D, E, F	19-06-96
Bradford & Bingley-90 (Box-9)	90 000	2 549	CB1167	816	-	B	B, C, D, E, F	19-06-96
Monster Truck-105	105 000	2 974	CB1165	953	-	B	B, C, D, E, F	20-06-96
Sports Car-110 (Car-2)	120 000	3 398	CB1182	1 088	-	B	B, C, D, E, F	09-07-96
Maple Leaf-95	90 000	2 549	CB1173	816	-	B	B, C, D, E, F	25-07-96
Calling Card-110 (Box-10)	110 000	2 974	CB1190	998	-	B	B, C, D, E, F	26-09-96
Grolsch-105 (Bottle-7)	105 000	2 974	CB1198	953	-	B	B, C, D, E, F	26-09-96
Apple-90	90 000	2 549	CB1169	816	-	B	B, C, D, E, F	15-10-96
Sign-90 (Box-11)	90 000	2 549	CB1183	816	-	B	B, C, D, E, F	01-11-96
Startac-105	105 000	2 974	CB1191	953	-	B	B, C, D, E, F	11-11-96
Pipe-105 (Standing Figure-9)	120 000	3 398	CB1201	1 088	-	B	B, C, D, E, F	30-01-97
Spaceship-110	110 000	3 115	CB1203	998	-	B	B, C, D, E, F	31-01-97
AML-105	105 000	2 974	CB1204	953	-	B	B, C, D, E, F	27-03-97
Bertie Bassett-90 (Standing Figure-10)	90 000	2 549	CB1196	816	-	B	B, C, D, E, F	20-05-97
Ronald-105 (Standing Figure-11)	105 000	2 974	CB1216	953	-	B	B, C, D, E, F	16-06-97
Hard Hat-90 (Hat-2)	89 500	2 535	CB1218	814	-	B	B, C, D, E, F	16-06-97
Frog-90 (Quadruped-7)	90 000	2 549	CB1231	816	-	B	B, C, D, E, F	24-06-97
Waving Flag-90	90 000	2 549	CB1224	816	-	B	B, C, D, E, F	30-06-97
Parachutist-110 (Figure-4)	110 000	3 115	CB1221	998	-	B	B, C, D, E, F	11-07-97
Home Special-105 (House-3)	105 000	2 974	CB1217	953	-	B	B, C, D, E, F	16-07-97
Douglas-110 (Figure-5)	125 000	3 541	CB1220	1 136	-	B	B, C, D, E, F	22-08-97
Britannia Pig-90 (Quadruped-8)	98 500	2 790	CB1223	893	-	B	B, C, D, E, F	04-09-97
Baltika-77 (Cylinder-14)	77 000	2 180	CB1249	699	-	B	B, C, D, E, F	02-10-97
Colt Golf Ball-90 (Ball-2)	90 000	2 549	CB1219	816	-	B	B, C, D, E, F	13-10-97
Sparkasse Box-90 (Box-12)	90 000	2 549	CB1250	816	-	B	B, C, D, E, F	22-10-97

Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Anderson Bottle (Bottle-8)	120 000	3 398	CB1252	1 088	-	B	B, C, D, E, F	10-11-97
Saturn-110 (Sphere-110)	120 000	3 398	CB1257	1 088	-	B	B, C, D, E, F	10-11-97
Bibendum -110 (Standing Figure-12)	115 000	3 256	CB1262	1 043	-	B	B, C, D, E, F	29-12-97
Thomas-110 (Locomotive-2)	110 000	3 115	CB1274	998	-	B	B, C, D, E, F	29-01-98
Colt Can-110 (Cylinder -15)	110 000	3 115	CB1266	998	-	B	B, C, D, E, F	27-02-98
PM-80 (Bottle-9)	80 000	2 266	CB1270	727	-	B	B, C, D, E, F	12-03-98
Unox -110 (Hat-3)	113 083	3 203	CB1283	1 026	513	B	B, C, D, E, F	15-05-98
Smurf-2 (Head-11)	100 000	2 832	CB1273	907	-	B	B, C, D, E, F	20-05-98
Mountie-120 (Quadruped-9)	120 000	3 398	CB1294	1088	-	B	B, C, D, E, F	08-06-98
EB-90 (Glass-3)	90 000	2 549	CB1287	816	-	B	B, C, D, E, F	30-06-98
N120MW	120 000	3 398	CB1308	1 088	544	B	B, C, D, E, F	22-09-98
Wine Box-90 (Box-13)	90 000	2 549	CB1306	816	-	B	B, C, D, E, F	02-10-98
Colt Bottle-14	106 000	3 002	CB1320	961	-	B	B, C, D, E, F	09-12-98
LTSB-90 (Box-14)	92 500	2 620	CB1329	839	-	B	B, C, D, E, F	25-01-99
Rugby-90 (Ball-3)	90 000	2 549	CB1341	816	-	B	B, C, D, E, F	19-02-99
Printer-105 (Box-15)	105 000	2 974	CB1338	953	-	B	B, C, D, E, F	01-04-99
Double Cow-110 (Quadruped-10)	110 000	3 115	CB1343	998	-	B	B, C, D, E, F	28-04-99
Can-120 (Cylinder-16)	120 000	3 398	CB1344	1 088	544	B	B, C, D, E, F	14-05-99
N-90 Nivea	90 000	2 549	CB1357	816	-	B	B, C, D, E, F	06-06-99
Bic Chic-90 (Figure-6)	90 000	2 549	CB1333	816	-	B	B, C, D, E, F	07-06-99
Van-110	110 000	3 115	CB1354	998	-	B	B, C, D, E, F	21-07-99
Heart-120	120 000	3 398	CB1382	1 088	544	B	B, C, D, E, F	21-09-99
RX-105	105 000	2 974	CB1379	953	-	B	B, C, D, E, F	30-09-99
Colt Flying Lager Bottle 2	105 000	2 974	CB1384	953	-	B	B, C, D, E, F	01-12-99
Freddo-105 (Standing Figure-13)	105 000	2 974	CB1403	953	-	B	B, C, D, E, F	22-12-99
Newspaper-90 (Cone-3)	90 000	2 549	CB1390	816	-	B	B, C, D, E, F	05-01-00
Lips-90	90 000	2 549	CB1413	816	-	B	B, C, D, E, F	31-01-00
RX-120 Replica	120 000	3 398	CB1408	1 088	544	B	B, C, D, E, F	04-02-00
Kindernet Dog-100 (Standing Figure-14)	100 000	2 832	CB1410	907	-	B	B, C, D, E, F	08-05-00
Sugar Box-90 (Box-16)	90 000	2 549	CB1417	816	-	B	B, C, D, E, F	01-06-00
Cockerel-130 (Bird-7)	130 000	3 681	CB1421	1 179	-	B	B, C, D, E, F	05-06-00
Cup-90 (F.A.)	120 000	3 398	CB1407	1 088	-	B	B, C, D, E, F	10-06-00
Snacpac-90	92 999	2 633	CB1414	843	-	B	B, C, D, E, F	04-07-00
Tissue Pack-100 (Four Pack-2)	100 000	2 832	CB1409	907	-	B	B, C, D, E, F	11-07-00
Orange Box-115 (Box-17)	115 000	3 257	CB1426	1 043	-	B	B, C, D, E, F	13-07-00
Flying Cow-110 (Quadruped-11)	106 280	3 010	CB1436	963	-	B	B, C, D, E, F	01-08-00

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Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Whisky Bottle-90 (Bottle-6)	90 000	2 549	CB1422	816	-	B	B, C, D, E, F	04-08-00
Light Bulb-110 (Light Bulb-2)	110 000	3 115	CB1424	998	499	B	B, C, D, E, F	15-08-00
Monster-110 (Head-12)	110 000	3 115	CB1442	998	-	B	B, C, D, E, F	18-01-01
Fork Lift-105	105 000	2 974	CB1453	953	-	B	B, C, D, E, F	05-06-01
Bull-110 (Quadruped-12)	110 000	3 115	CB1441	998	-	B	B, C, D, E, F	21-06-01
Waving Flag-105	112 000	3 175	CB1446	1 016	-	B	B, C, D, E, F	22-06-01
Pack-130 (Box-18)	130 000	3 681	CB1451	1 179	590	B	B, C, D, E, F	18-07-01
Colt Pils Bottle (Bottle-12)	90 000	2 549	CB1452	816	-	B	B, C, D, E, F	18-07-01
Colt Beetle-105 (Car-3)	105 000	2 974	CB1457	953	-	B	B, C, D, E, F	20-09-01
Krush Bottle-105 (Bottle-7)	105 000	2 974	CB1456	953	-	B	B, C, D, E, F	01-10-01
Ball-77 (Ball-4)	77 500	2 195	CB1475	703	-	B	B, C, D, E, F	04-12-01
Flame-95	95 000	2 690	CB1480	862	-	B	B, C, D, E, F	12-03-02
Onion-105	105 000	2 974	CB1481	953	-	B	B, C, D, E, F	14-05-02
Graz Box-110 (Box-19)	110 000	3 115	CB1490	998	-	B	B, C, D, E, F	30-07-02
Mikey-90 (Head-13)	90 000	2 549	CB1492	816	-	B	B, C, D, E, F	03-09-02
Van Gogh-110 (Head-14)	110 000	3 115	CB1501	998	-	B	B, C, D, E, F	28-05-03
Robijn N-133	133 000	3 767	CB1512	1 206	603	B	B, C, D, E, F	29-10-03
Nudie-90 (Standing Figure-15)	90 000	2 549	CB1517	816	-	B	B, C, D, E, F	19-02-04 ♦
Beer Crate-120 (Box-20)	120 000	3 398	CB1515	1 088	-	B	B, C, D, E, F	23-02-04 ♦
Paint Can-115 (Cylinder-17)	115 000	3 257	CB1525	1 043	522	B	B, C, D, E, F	22-06-04 ♦
Ikea-120 (Heart & Box-120)	120 000	3 398	CB1524	1 088	-	B	B, C, D, E, F	23-06-04 ♦
Head-90 (Head-15)	90 000	2 549	CB1537	816	-	B	B, C, D, E, F	25-05-05 ♦
Modified Sugar Box-90 (Box-21)	90 000	2 549	CB1566	816	-	B	B, C, D, E, F	14-11-05 ♦
Racing Car-110 (Car-4)	110 000	3 115	CB1568	998	499	B	B, C, D, E, F	17-02-06 ♦
Turtle-120 (Quadruped-13)	120 000	3 398	CB1572	1 088	544	B	B, C, D, E, F	22-06-06 ♦
Buddy-90 (Figure-7)	90 000	2 549	CB1575	816	-	B	B, C, D, E, F	17-10-06 ♦
Head One-105	105 000	2 974	CB1580	953	-	B	B, C, D, E, F	15-03-07 ♦
Condom-105 (Cylinder-18)	105 000	2 974	CB1583	953	-	B	B, C, D, E, F	23-07-07 ♦
Cup-110 (Urn-1)	110 000	3 115	CB1589	998	499	B	B, C, D, E, F	17-12-07 ♦
Egg-120	120 000	3 398	CB1595	1 088	544	B	B, C, D, E, F	31-07-08 ♦
Inverted Balloon-105	105 000	2 974	CB1614	953	-	B	B, C, D, E, F	03-06-09 €
Fire Truck-100	115 000	3 257	CB1615	1 043	522	B	B, C, D, E, F	25-06-09 €
TR-84S1	84 000	2 379	CB1620	762	-	B	B, C, D, E, F	03-07-09 €
F.R. Ball	90 000	2 549	CB1092	816	-	B	B, C, D, E, F	29-09-09 €
Super FMG-100	100 000	2 832	CB1636	907	-	B	B, C, D, E, F	13-07-10 €
Obelix-90 (Figure-8)	90 000	2 549	CB1638	816	-	B	B, C, D, E, F	12-08-10 €
TR-84S2	84 000	2 379	CB1639	762	-	B	B, C, D, E, F	12-08-10 €
Cork-105	105 000	2 974	CB723	953	-	B	B, C, D, E, F	14-06-11 €
Sim Card-120	120 000	3 398	CB1657	1 088	544	B	B, C, D, E, F	28-11-11 €
Cube-105	105 000	2 974	CB1668	953	-	B	B, C, D, E, F	14-08-12 €€
Skywhale-110	110 000	3 115	CB1673	998	499	B	B, C, D, E, F	04-04-13 €€
Minion-105 (Cylinder 19)	105 000	2 974	CB1674	953	-	B	B, C, D, E, F	10-04-13 €€

Model	Vol (ft ³)	Vol (m ³)	Dwg	MTOM (kg)	MLM (kg)	Burner	Baskets	Approval Date
Apple-120	120 000	3 398	CB1678	1 088	544	B	B, C, D, E, F	03-06-13 €€
Head 2-120	120 000	3 398	CB1679	980	544	B	B, C, D, E, F	24-06-13 €€
Dodo-105 (Bird 8)	105 000	2 974	CB1686	953	-	B	B, C, D, E, F	14-02-14 €€
G-Rail-90 (Standing Figure 16)	100 000	2 832	CB1698	816	-	B	B, C, D, E, F	15-05-14 €€
Drop-180	180 000	5 098	CB1690	1633	817	B,C	G, H, I	21-07-14 €€
Helmet-120 (Head-16)	120 000	3 398	CB1719	1088	544	B	B, C, D, E, F	07-03-16 €€
Tyre-100 (Horizontal Cylinder-2)	100 000	2 832	CB1263	907	-	B	B, C, D, E, F	06-10-16 €€
Pot-180 (Cylinder 20)	180 000	5 098	CB1730	1388	817	B, C	G, H, I	25-11-16 €€
Wallaby-42	40 000	1 133	CB1731	363	-	A	A, A1, B	19-01-17 €€
Drop-95	95 000	2 690	CB1751	862	431	B	B, C, D, E, F	29-05-17 €€
Bearskin-100	100 000	2 832	CB1750	907	454	B	B, C, D, E, F	29-05-17 €€
Heart-100	100 000	2 832	CB1760	907	-	B	B, C, D, E, F	04-12-17 €€
Standing Bear-105	105 000	2 947	CB1764	953	-	B	B, C, D, E, F	07-06-18 €€
Sphere-165	165 000	4 672	CB1775	1497	748	B,C	E, F, G, H	04-12-18 €€
Warsteiner Glasses on Tray - 105	105 000	2 973	CB1799	952	-	B	B, C, D, E, F	28-08-20 €€
Sky-Papa-120	125 000	3 540	CB1797	1088	-	B	B, C, D, E, F	27-10-20 €€
Kaws-110	110 000	3115	CB1803	997	-	B	B, C, D, E, F, G	16-03-21 £
Hello Kitty-115	115 000	3256	CB1798	991	-	B	B, C, D, E, F	17-06-25 £
Burger Meal-150	157 000	4446	CB1804	1423	712	B	D, E, F, G	21-04-21 £
Cloud Baby-100	100 000	2832	CB1807	907	-	B	B,C,D,E,F,G	01-04-22 £
Mr Globie - 105	108 800	3081	CB1828	986	493	B	B,C,D,E,F,G	01-08-22 £
Heart-170	170 000	4814	CB1845	1428	771	B, C	H	26-01-24 £
Emmi-120	120 000	3400	CB1855	1015	545	B	C,D,E,F,G,H,I,J,K,L	18-09-24 £

Section 3 Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
CAA	Civil Aviation Authority
Dwg	Drawing
EASA	European Union Aviation Safety Authority
MLM	Minimum Landing Mass
MTOM	Maximum Take-Off Mass
Vol	Volume

II. Type Certificate Holder Record

TCH Record	Period
Cameron Balloons Ltd St Johns Street Bedminster Bristol BS3 4NH UNITED KINGDOM	Present. No changes.

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	16 Mar 2021	This certificate supersedes EASA.BA.012. All technical data taken from EASA.BA.012 Issue 38. Modification C802 Kaws-110 added (UK.MAJ.0001).	Issue 1 16 Mar 2021
2	18 Mar 2021	Modification Hello Kitty-120 added (UK.MAJ.0003)	–
3	21 Apr 2021	Modification Burger Meal-150 added (UK.MAJ.00008) Minor corrections (AFM was issue 9, corrected to Issue 10)	–
4	06 April 2022	Modification Cloud Baby-100 added (UK.MAJ.0024)	–
5	01 Aug 2022	Modification Mr Globie – 105 added (UK.MAJ.00148). Minor Modification added C825 Kaws-110 Addition of Category G basket. (UK) CS.31HB added in Section 1.II.3 and details of balloons approved since 01-01-21 amended in Table 1.	–
6	26 Jan 2024	Krush Bottle-105 was Krush Bottle-106 (Drafting Error) Modification Heart-170 added (UK.MAJ.00332)	–
7	18 Sep 2024	Modification Emmi-120 added (UK.MAJ.00416)	–
8	17 Jun 2025	Modification Hello Kitty-115 [replacing Hello Kitty-120] (UK.MAJ.00479)	-

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