UNITED KINGDOM
CIVIL AVIATION AUTHORITY

BB4
Issue 2
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CAMERON BALLOONS
Models:
N-31, N-42, N-56, N-65, N-70, N-77, N-90, N-105, N-120, N-133, N-145, N-160, N-180, N-210

TYPE CERTIFICATE DATA SHEET NO. BB4

This data sheet is part of CAA Type Certificate No. BB4 and gives the basis upon which the Certificate was issued, together with the other information to define the product.

TYPE DESIGN ORGANISATION — Cameron Balloons Ltd.
St. John's Street
Bedminster
Bristol BS3 4NH

MANUFACTURER — Cameron Balloons Ltd.

Models N-31, N-42, N-56, N-65, N-70, N-77, N-90, N-105, N-120, N-133, N-145, N-160, N-180, N-210 Hot Air Balloons.

Envelope	Volume		Drawing	Build Standard Refer to Flight Manual	Date Approved
	cu.ft	cu.m			
N-31	31 450	890	CB 476	CBL/TN/BEB/943	30-5-78
N-42	42 000	1190	CB 476	CBL/TN/BEB/944	27-4-83
N-56	56 000	1590	CB 476	CBL/TN/BEB/995	21-4-77
N-65	65 000	1840	CB 476	CBL/TN/BEB/366	17-1-80
N-70	70 000	1982	CB 476	CBL/TN/BEB/540	4-8-94
N-77	77 500	2190	CB 476	CBL/TN/DCB/394	24-5-77
N-90	90 000	2550	CB 476	CBL/TN/BEB/423	9-6-83
N-105	105 000	2970	CB 476	CBL/TN/BEB/443	1-8-79
N-120	120 000	3398	CB 476	CBL/TN/BEB/399	6-5-88
N-133	133 000	3770	CB 476	CBL/TN/BEB/985	4-8-88
N-145	145 000	4110	CB 476	CBL/TN/BEB/844	21-6-88
N-160	160 000	4530	CB 476	CBL/TN/BEB/909	8-4-86
N-180	180 000	5100	CB 476	CBL/TN/BEB/348	4-1-85
N-210	210 000	5950	CB 476	CBL/TN/BEB/1067	1-6-94

Basket and Burner — As listed on the build standards referred to in the above table.

Fuel — Commercial propane.

Maximum Envelope Temperature — 120^0 C.

Fuel system — Minimum two independent tanks with provision to supply pilot lights (double burner), three such tanks for triple burner. Extra tanks may be used. Refer toFlight Manual Build Standard.

Maximum weight — The maximum weight of the balloon is the lesser of the figures given below or the weight calculated in accordance with the flight manual limitations section.

Balloon Type	Maximum weight (Kg)	Balloon Type	Maximum weight (Kg)
N-31	285	N-105	953
N-42	381	N-120	1089
N-56	508	N-133	1207
N-65	590	N-145	1315
N-70	635	N-160	1451
N-77	703	N-180	1633
N-90	816	N-210	1905

Minimum Equipment — Minimum equipment and eligible equipment is listed in the approved flight manual.

Minimum crew — One (1) pilot.

Maximum occupants — Not to exceed maximum weight restriction (see Flight Manual).

Serial Nos. eligible — All.

Data applicable to all models:

Maintenance and inspection — Maintenance and inspection of these balloons must be carried out in accordance with Maintenance Schedule MS/BBAC/1-S for continued airworthiness. See note 1.

Certification basis — N-56, N-65 to British Airworthiness Requirements, Manned Free Balloons, Draft Issue 3 dated September 1979.
N-31, N-42, N-70, N-77, N-90, N-105, N-120, N-133, N-145, N-160, N-180, N-210,to British Civil Airworthiness Requirements, Part 31, issue dated 31/8/84, Appendix 1 to CAA letter ref 9/30/IPA dated 27/2/1989.

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Airworthiness Categories — UK: Private, Aerial work, Transport (passenger).

Flight manual — Balloons Hot Air Balloon Flight Manual, Issue 8.

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

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