DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

				B04CE
				Revision 3
				BALÓNY KUBÍČEK spol. s r.o.
BB17GP	BB17X	BB20E	BB20ED	BB20
BB20GP	BB20X	BB22E	BB22ED	BB22
BB22D	BB22N	BB22Z	BB22X	BB26E
BB26ED	BB26	BB26	BB26N	BB26Z
BB26X	BB30ED	BB30	BB30N	BB30Z
BB30X	BB34ED	BB34	BB34Z	BB37D
BB37N	BB37Z	BB40	BB40Z	BB42D
BB42Z	BB45D	BB45	BB45Z	BB51D
BB51Z	BB60D	BB60	BB60Z	BB70D
BB70Z	BB85D	BB85Z	BB100D	BB100
BB120P	BB142P			
				May 1, 2013

TYPE CERTIFICATE DATA SHEET No. B04CE

This Data Sheet, which is part of Type Certificate No. B04CE prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder

BALÓNY KUBÍČEK spol. s r.o.
Francouzská 81
602 00 Brno
CZECH REPUBLIC

I - Model BB17GP, Manned Free Balloon, Approved April 7, 2011

Envelope

BB17GP, drawing 52-052860.
Volume: 59 900 cu. ft., (1700 m^3).
Gores: 16.
Max. Diameter: 48 ft. (14.5 m).
Total Height: 55 ft. (16.8 m).

Burner

IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets

K10, K11, K12, K12A, K13, K13S.

Fuel

Commercial LPG or Propane.

Maximum Weight

1090 lbs. (495 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature

1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
   Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)

Page No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Rev. No.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Page No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
Rev. No.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				

Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders

Serial No's Eligible — 1 and up.

II - Model BB17XR, Manned Free Balloon, Approved April 7, 2011

Envelope — BB17XR, drawing 53-053660
Volume: 59 900 cu. ft., (1700 m^3).
Gores: 16.
Max. Diameter: 45 ft. (13.7 m).
Total Height: 62 ft. (19.0 m).

Burner — IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets — K10, K11, K12, K12A, K13, K13S.

Fuel — Commercial LPG or Propane.

Maximum Weight — 1090 lbs. (495 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature
1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders

Serial No's Eligible — 1 and up, except 362.

III - Model BB20E, Manned Free Balloon, Approved April 7, 2011

Envelope — BB20E, drawing 53-053630
Volume: 71 200 cu. ft., (2000 m^3).
Gores: 12.
Max. Diameter: 53 ft. (16.2 m).
Total Height: 52 ft. (15.9 m).

Burner — IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets — K10, K11, K12, K12A, K13, K13S, K15.

Fuel — Commercial LPG or Propane.

Maximum Weight	1389 lbs. (630 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

IV - Model BB20ED, Manned Free Balloon, Approved May 1, 2013

Envelope	BB20ED, drawing 55330.00. Volume: 71,200 cu. ft., (2000 m^3). Gores: 12. Max. Diameter: 53 ft. (16.2 m). Total Height: 52 ft. (15.9 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1389 lbs. (630 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up.

V - Model BB20, Manned Free Balloon, Approved April 7, 2011

Envelope	BB20, drawing 50-050020.

	Volume: 71 200 cu. ft., (2000 m^3). Gores: 12. Max. Diameter: 51 ft. (15.4 m). Total Height: 51 ft. (15.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1389 lbs. (630 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up.

VI - Model BB20GP, Manned Free Balloon, Approved April 7, 2011

Envelope	BB20GP, drawing 52-052740. Volume: 71,200 cu. ft., (2000 m^3). Gores: 24. Max. Diameter: 51 ft. (15.4 m). Total Height: 59 ft. (17.9 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.

Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up.

VII - Model BB20XR, Manned Free Balloon, Approved April 7, 2011

Envelope	BB20XR, drawing 52-054140 Volume: 71 200 cu. ft., (2000 m^3). Gores: 20 Max. Diameter: 47 ft. (14,4 m) Total Height: 67 ft. (20,3 m)
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15, K17.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

VIII - Model BB22E, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22E, drawing 53-053620 Volume: 78 200 cu. ft., (2200 m^3). Gores: 12. Max. Diameter: 55 ft. (16.7 m). Total Height: 54 ft. (16.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1498 lbs. (680 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

	2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

IX - Model BB22ED, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22ED, drawing 55340.00 Volume: 78 200 cu. ft., (2200 m^3). Gores: 12. Max. Diameter: 55 ft. (16.7 m). Total Height: 54 ft. (16.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1498 lbs. (680 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

X - Model BB22, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22, drawing 52-053310. Volume: 78,200 cu. ft., (2200 m^3). Gores: 12. Max. Diameter: 57 ft. (17.5 m). Total Height: 53 ft. (16.2 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.

Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XI - Model BB22D, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22D, drawing 55200.00 Volume: 78 200 cu. ft., (2200 m^3). Gores: 24. Max. Diameter: 54 ft. (16.3 m). Total Height: 54 ft. (16.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

XII - Model BB22N, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22N, drawing 52-050034. Volume: 78,200 cu. ft., (2200 m^3). Gores: 24.

	Max. Diameter: 53 ft. (16.2 m). Total Height: 53 ft. (16.2 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XIII - Model BB22Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB22Z, drawing 52-053300. Volume: 78,200 cu. ft., (2200 m^3). Gores: 24. Max. Diameter: 53 ft. (16.2 m). Total Height: 53 ft. (16.2 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible	1 and up.

XIV - Model BB22XR, Manned Free Balloon, Approved May 1, 2013

Envelope	BB22XR, drawing 55400.00 Volume: 78,200 cu. ft., (2200 m^3). Gores: 24. Max. Diameter: 69 ft. (21.0 m). Total Height: 49 ft. (14.6 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K10, K11, K12, K12A, K13, K13S, K15.
Fuel	Commercial LPG or Propane.
Maximum Weight	1720 lbs. (780 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XV - Model BB26E, Manned Free Balloon, Approved April 7, 2011

Envelope	BB26E, drawing 53-053610 Volume: 92 500 cu. ft., (2600 m^3). Gores: 12. Max. Diameter: 58 ft. (17.6 m). Total Height: 57 ft. (17.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

	2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

XVI - Model BB26ED, Manned Free Balloon, Approved May 1, 2013

Envelope	BB26ED, drawing 55350.00 Volume: 92 500 cu. ft., (2600 m^3). Gores: 12. Max. Diameter: 58 ft. (17.6 m). Total Height: 57 ft. (17.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1609 lbs. (730 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

XVII - Model BB26, Manned Free Balloon, Approved April 7, 2011

Envelope	BB26, drawing 52-053325. Volume: 92,500 cu. ft., (2600 m^3). Gores: 12. Max. Diameter: 57 ft. (17.5 m). Total Height: 57 ft. (17.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.

Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XVIII - Model BB26D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB26D, drawing 55210.00 Volume: 92 500 cu. ft., (2600 m^3). Gores: 12. Max. Diameter: 56 ft. (17.2 m). Total Height: 57 ft. (17.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders
Serial No's Eligible	1 and up

XIX - Model BB26N, Manned Free Balloon, Approved April 7, 2011

Envelope	BB26N drawing 51-050027.

	Volume: 92,500 cu. ft., (2600 m^3). Gores: 24. Max. Diameter: 56 ft. (17.2 m). Total Height: 57 ft. (17.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XX- Model BB26Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB26Z drawing 52-053305. Volume: 92,500 cu. ft., (2600 m^3). Gores: 24. Max. Diameter: 56 ft. (17.2 m). Total Height: 57 ft. (17.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.

Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXI- Model BB26XR, Manned Free Balloon, Approved May 1, 2013

Envelope	BB26XR drawing 55410.00 Volume: 92,500 cu. ft., (2600 m^3). Gores: 24. Max. Diameter: 73 ft. (22.3 m). Total Height: 51 ft. (15.6 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXII- Model BB30ED, Manned Free Balloon, Approved May 1, 2013

Envelope	BB30ED drawing 55360.00 Volume: 106,800 cu. ft., (3000 m^3). Gores: 12. Max. Diameter: 60 ft. (18.4 m). Total Height: 62 ft. (18.8 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	1852 lbs. (840 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)

Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew: One (1) Pilot.

Maximum Occupancy: See Data Pertinent to All Models - Baskets.

Fuel Capacity: At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible: 1 and up.

XXIII- Model BB30D, Manned Free Balloon, Approved May 1, 2013

Envelope: BB30D drawing 55220.00.
Volume: 106,800 cu. ft., (3000 m^3).
Gores: 24.
Max. Diameter: 60 ft. (18.4 m).
Total Height: 61 ft. (18.7 m).

Burner: IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets: K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.

Fuel: Commercial LPG or Propane.

Maximum Weight: 2083 lbs. (945 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature:

1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew: One (1) Pilot.

Maximum Occupancy: See Data Pertinent to All Models - Baskets.

Fuel Capacity: At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible: 1 and up.

XXIV- Model BB30N, Manned Free Balloon, Approved April 7, 2011

Envelope: BB30N drawing 51-050041.
Volume: 106,800 cu. ft., (3000 m^3).
Gores: 24.
Max. Diameter: 60 ft. (18.4 m).
Total Height: 62 ft. (18.8 m).

Burner: IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	2083 lbs. (945 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXV - Model BB30Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB30Z drawing 52-052640. Volume: 106,800 cu. ft., (3000 m^3). Gores: 24. Max. Diameter: 59 ft. (18.0 m). Total Height: 60 ft. (18.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	2083 lbs. (945 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXVI - Model BB30XR, Manned Free Balloon, Approved April 7, May 1, 2013

Envelope	BB30XR drawing 55420.00. Volume: 106,800 cu. ft., (3000 m^3). Gores: 24. Max. Diameter: 54 ft. (16.4 m). Total Height: 77 ft. (23.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K11, K12, K12A, K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	2083 lbs. (945 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXVII - Model BB34ED, Manned Free Balloon, Approved May 1, 2013

Envelope	BB34ED, drawing 55370.00. Volume: 121,000 cu. ft., (3400 m^3). Gores: 12 Max. Diameter: 62 ft. (19,2 m) Total Height: 63 ft. (19.7 m)
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K13, K13S, K15, K16, K17, K18, K22.
Fuel	Commercial LPG or Propane.
Maximum Weight	2083 lbs. (945 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon

fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible — 1 and up.

XXVIII - Model BB34D, Manned Free Balloon, Approved May 1, 2013

Envelope — BB34D, drawing 55230.00.
Volume: 121,000 cu. ft., (3400 m^3).
Gores: 24
Max. Diameter: 62 ft. (18.9 m)
Total Height: 63 ft. (19.3 m)

Burner — IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets — K13, K13S, K15, K16, K17, K18, K22.

Fuel — Commercial LPG or Propane.

Maximum Weight — 2291 lbs. (1040 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser

Allowable Envelope Temperature —
1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
   Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
   Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible — 1 and up.

XXIX - Model BB34Z, Manned Free Balloon, Approved April 7, 2011

Envelope — BB34Z, drawing 53-052880.
Volume: 121,000 cu. ft., (3400 m^3).
Gores: 24
Max. Diameter: 62 ft. (18.9 m)
Total Height: 63 ft. (19.3 m)

Burner — IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00

Baskets — K13, K13S, K15, K16, K17, K18, K22.

Fuel — Commercial LPG or Propane.

Maximum Weight	2291 lbs. (1040 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXX- Model BB37D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB37D, drawing 55240.00 Volume: 131,700 cu. ft., (3700 m^3). Gores: 24. Max. Diameter: 64 ft. (19.4 m). Total Height: 65 ft. (19.9 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K13, K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	2535 lbs. (1150 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXI - Model BB37N, Manned Free Balloon, Approved November 04, 2009

Envelope	BB37N, drawing 51-050048. Volume: 131,700 cu. ft., (3700 m^3).

	Gores: 24. Max. Diameter: 65 ft. (19.7 m). Total Height: 66 ft. (20.0 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K13, K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	2535 lbs. (1150 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXII- Model BB37Z, Manned Free Balloon, Approved November 04, 2009

Envelope	BB37Z, drawing 52-053315. Volume: 131,700 cu. ft., (3700 m^3). Gores: 24. Max. Diameter: 65 ft. (19.7 m). Total Height: 66 ft. (20.0 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
Baskets	K13, K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	2535 lbs. (1150 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.

Fuel Capacity	At least two cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXIII- Model BB40D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB40D, drawing 55250.00. Volume: 142,400 cu. ft., (4000 m^3). Gores: 24. Max. Diameter: 65 ft. (19.9 m). Total Height: 67 ft. (20.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00
Baskets	K13, K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	2885 lbs. (1310 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXIV - Model BB40Z, Manned Free Balloon, Approved November 04, 2009

Envelope	BB40Z, drawing 53-053640. Volume: 142,400 cu. ft., (4000 m^3). Gores: 24. Max. Diameter: 65 ft. (19.9 m). Total Height: 67 ft. (20.5 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00
Baskets	K13, K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	2885 lbs. (1310 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXV- Model BB42D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB42D, drawing 55260.00 Volume: 151,300 cu. ft., (4200 m^3). Gores: 24. Max. Diameter: 67 ft. (20.3 m). Total Height: 68 ft. (20.7 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00
Baskets	K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	3109 lbs. (1410 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXVI - Model BB42Z, Manned Free Balloon, Approved November 04, 2009

Envelope	BB42Z, drawing 52-052950. Volume: 151,300 cu. ft., (4200 m^3). Gores: 24. Max. Diameter: 67 ft. (20.3 m).

	Total Height: 68 ft. (20.7 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00
Baskets	K16, K17, K18, K22, K25P, K28, K32T, K32Y.
Fuel	Commercial LPG or Propane.
Maximum Weight	3109 lbs. (1410 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXVII - Model BB45D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB45D, drawing 55270.00. Volume: 160,200 cu. ft., (4500 m^3). Gores: 24. Max. Diameter: 68 ft. (20.7 m). Total Height: 69 ft. (21.1 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K22, K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50TT.
Fuel	Commercial LPG or Propane.
Maximum Weight	3351 lbs. (1520 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.

Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.

XXXVIII - Model BB45N, Manned Free Balloon, Approved April 7, 2011

Envelope	BB45N, drawing 52-050455. Volume: 160,200 cu. ft., (4500 m^3). Gores: 24. Max. Diameter: 68 ft. (20.7 m). Total Height: 69 ft. (21.1 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K22, K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50TT.
Fuel	Commercial LPG or Propane.
Maximum Weight	3351 lbs. (1520 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XXXIX - Model BB45Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB45Z, drawing 52-053320. Volume: 160,200 cu. ft., (4500 m^3). Gores: 24. Max. Diameter: 68 ft. (20.7 m). Total Height: 69 ft. (21.1 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K22, K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50TT.
Fuel	Commercial LPG or Propane.

Maximum Weight	3351 lbs. (1520 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner,, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XL - Model BB51D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB51D, drawing 55280.00. Volume: 181,500 cu. ft., (5100 m^3). Gores: 24. Max. Diameter: 71 ft. (21.6 m). Total Height: 73 ft. (22.1 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50TT
Fuel	Commercial LPG or Propane.
Maximum Weight	3726 lbs. (1690 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XLI - Model BB51Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB51Z, drawing 53-053430. Volume: 181,500 cu. ft., (5100 m^3). Gores: 24. Max. Diameter: 71 ft. (21.6 m). Total Height: 73 ft. (22.1 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50TT.
Fuel	Commercial LPG or Propane.
Maximum Weight	3726 lbs. (1690 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XLII - Model BB60D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB60D, drawing 55290.00. Volume: 213,600 cu. ft., (6000 m^3). Gores: 24. Max. Diameter: 74 ft. (22.7 m). Total Height: 78 ft. (23.4 m).
Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT.
Fuel	Commercial LPG or Propane.
Maximum Weight	4277 lbs. (1940 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible — 1 and up.

XLIII - Model BB60N, Manned Free Balloon, Approved April 7, 2011

Envelope — BB60N, drawing 51-050643.
Volume: 213,600 cu. ft., (6000 m^3).
Gores: 32.
Max. Diameter: 75 ft. (22.9 m).
Total Height: 77 ft. (23.6 m).

Burner — IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00
IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00
IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00

Baskets — K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT.

Fuel — Commercial LPG or Propane.

Maximum Weight — 4277 lbs. (1940 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature —
1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible — 1 and up.

XLIV - Model BB60Z, Manned Free Balloon, Approved April 7, 2011

Envelope — BB60Z, drawing 53-053000.
Volume: 213,600 cu. ft., (5950 m^3).
Gores: 24.
Max. Diameter: 77 ft. (23.4 m).
Total Height: 74 ft. (22.7 m).

Burner	IGNIS 2 units (double burner), drawing 84-053115.00, 84-053128.00 IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT.
Fuel	Commercial LPG or Propane.
Maximum Weight	4277 lbs. (1940 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least two cylinders for double burner, at least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XLV - Model BB70D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB70D, drawing 55300.00. Volume: 249,200 cu. ft., (7000 m^3). Gores: 24. Max. Diameter: 81 ft. (24.8 m). Total Height: 81 ft. (24.6 m).
Burner	IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT, K60, K70, K80.
Fuel	Commercial LPG or Propane.
Maximum Weight	5071 lbs. (2300 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.

Fuel Capacity	At least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XLVI - Model BB70Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB70Z, drawing 53-052990. Volume: 249,200 cu. ft., (7000 m^3). Gores: 24. Max. Diameter: 81 ft. (24.8 m). Total Height: 81 ft. (24.6 m).
Burner	IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT, K60, K70, K80.
Fuel	Commercial LPG or Propane.
Maximum Weight	5071 lbs. (2300 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up.

XLVII - Model BB85D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB85D, drawing 55310.00 Volume: 302,600 cu. ft., (8500 m^3). Gores: 28. Max. Diameter: 87 ft. (26.6 m). Total Height: 87 ft. (26.5 m).
Burner	IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K40T, K40Y, K50, K50TT, K60, K70, K80.
Fuel	Commercial LPG or Propane.
Maximum Weight	6217 lbs. (2820 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.

Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up

XLVIII - Model BB85Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB85Z, drawing 52-052850. Volume: 302,600 cu. ft., (8500 m^3). Gores: 28. Max. Diameter: 87 ft. (26.6 m). Total Height: 87 ft. (26.5 m).
Burner	IGNIS 3 units (triple burner), drawing 84-053115.00, 84-053241.00 IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K40T, K40Y, K50, K50TT, K60, K70, K80.
Fuel	Commercial LPG or Propane.
Maximum Weight	6217 lbs. (2820 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least three cylinders for triple burner, at least four cylinders for quad burner, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up

XLIX - Model BB100D, Manned Free Balloon, Approved May 1, 2013

Envelope	BB100D, drawing 55320.00 Volume: 353,100 cu. ft., (10000 m^3). Gores: 28. Max. Diameter: 89 ft. (27 m).

	Total Height: 92 ft. (28.2 m).
Burner	IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K60, K70, K80, K85, K90, K100, K110.
Fuel	Commercial LPG or Propane.
Maximum Weight	7055 lbs. (3200 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least four cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up

L - Model BB100Z, Manned Free Balloon, Approved April 7, 2011

Envelope	BB100Z, drawing 50-054100. Volume: 353,100 cu. ft., (10000 m^3). Gores: 28. Max. Diameter: 89 ft. (27 m). Total Height: 92 ft. (28.15 m).
Burner	IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K60, K70, K80, K85, K90, K100, K110.
Fuel	Commercial LPG or Propane.
Maximum Weight	7055 lbs. (3200 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least four cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible	1 and up

LI - Model BB120P, Manned Free Balloon, Approved April 7, 2011

Envelope	BB100Z, drawing 50-054120. Volume: 423,800 cu. ft., (12000 m^3). Gores: 28. Max. Diameter: 95 ft. (28.96m). Total Height: 102 ft. (31 m).
Burner	IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K60, K70, K80, K85, K90, K100, K110.
Fuel	Commercial LPG or Propane.
Maximum Weight	8150 lbs. (3700 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)
Minimum Crew	One (1) Pilot.
Maximum Occupancy	See Data Pertinent to All Models - Baskets.
Fuel Capacity	At least four cylinders, See Data Pertinent to All Models - Fuel Cylinders.
Serial No's Eligible	1 and up

LII - Model BB142P, Manned Free Balloon, Approved May 1, 2013

Envelope	BB100Z, drawing 50-054260.00 Volume: 500,000 cu. ft., (14200 m^3). Gores: 32. Max. Diameter: 99 ft. (30.3). Total Height: 110 ft. (33.5 m).
Burner	IGNIS 4 units (quad burner), drawing 84-056000.00, 84-056001.00
Baskets	K60, K70, K80, K85, K90, K100, K110
Fuel	Commercial LPG or Propane.
Maximum Weight	9912 lbs. (4500 kg) or the weight limited by ambient conditions according to Balloons Flight Manual, whichever is lesser.
Allowable Envelope Temperature	1. Never exceed: Polyester, Polyurethane or Acrylic coated hot air balloon fabric: 248 °F (124 °C) Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C) 2. Max. continuous: Polyester, Polyurethane or Acrylic coated hot air

balloon fabric: 248 °F (124 °C)
Nylon, Polyurethane coated hot air balloon fabric: 230°F (110°C)

Minimum Crew — One (1) Pilot.

Maximum Occupancy — See Data Pertinent to All Models - Baskets.

Fuel Capacity — At least four cylinders, See Data Pertinent to All Models - Fuel Cylinders.

Serial No's Eligible — 1 and up

DATA PERTINENT TO ALL MODELS

Certification Basis — The regulations (unless otherwise stated) are Title 14 of the Code of Federal Regulations (14 CFR) Part 31 dated July 1, 1964, as amended through Amendment 31-7 effective May, 24, 1996. Application for Type Certificate dated November 25, 2005.

Equivalent Safety Items:

Equivalent levels of safety finding made per the provisions of 14 CFR Part 21.21(b)(1) for:

ELOS ACE-07-13: 14 CFR §31.47(d) Amendment 31-7, Burners; Refer to FAA memorandum dated December 18, 2007, applicable to IGNIS 2 units (double burner) and IGNIS 3 units (triple burner) only.

Import Requirements — The FAA can issue a U.S. airworthiness certificate based on an NAA Export Certificate of Airworthiness (Export C of A) signed by a representative of the Civil Aviation Authority of the Czech Republic (CAA-CZ) on behalf of the European Community. The Export C of A should contain the following statement: 'The aircraft covered by this certificate has been examined, tested, and found to comply with U.S. airworthiness regulations 14 CFR Federal Aviation Regulations Part 31, U.S. Type Certificate No. B04CE and to be in a condition for safe operation.'

Validation Basis — Type certificate B04CE issued March 20, 2008.

The applicable airworthiness requirements for a U.S. certification under 14 CFR 21 section 21.29 identified above were established considering the airworthiness requirements applied by the responsible exporting Czech-Republic civil aviation authority under the Bilateral Aviation Agreement (BAA) authorized by the Agreement between the Government of the Czech-Republic and the Government of the United States of America, including the Operating Procedure and the interim working agreement between the Government of the United States of America and the European Aviation Safety Agency (EASA) per FAA Order 8110.52.

Type Certificate B04CE was issued pursuant to the certification by the CAA-CZ and EASA that the BB Balloon Models BB20GP, BB22, BB22N, BB22Z, BB26, BB26N, BB26Z, BB30N, BB30Z, BB34Z, BB37N, BB37Z, BB42Z, BB45N, BB45Z, BB51Z, BB60N, BB60Z, BB70Z complies with the above requirements.

EASA issued EASA Type Certificate No. BA.003, as described in EASA TCDS No. EASA.BA.003 Issue 6.

Equipment

In addition to the basic equipment required by the certification basis, the following equipment is also required:

1) Lighter or similar ignition device (striker, matches or equivalent).
2) Fire extinguisher.
3) The Approved BALÓNY KUBÍČEK spol. s r.o. US Flight Manual B.0105 (for balloons of serial numbers up to 639)
4) The Approved BALÓNY KUBÍČEK spol. s r.o. US Flight Manual B.2105 (for balloons of serial numbers 640 and higher).

Maintenance and Inspection

Maintenance and inspection must be carried out in accordance with the BALÓNY KUBÍČEK spol. s r.o. Flight Manual B.0105 dated Sep 04, 2007, Revision 0, or later issue, and BALÓNY KUBÍČEK spol. s r.o. Maintenance Manual B.0205 dated Jan 10, 2008, Revision 0, or later issue (for balloons of serial number up to 639) or BALÓNY KUBÍČEK spol.s r.o. Maintenance Manual B.2205 dated Jun 30, 2009, Revision 0, or later issue (for balloons of serial number 640 and up) .

Service Information

Each of the documents listed below must state that it is approved by the European Aviation Safety Agency (EASA) or – for approvals made before December 12, 2005 – by the Civil Aviation Authority of the Czech Republic (CAA-CZ).

- Service bulletins,
- Structural repair manuals,
- Vendor manuals,
- Balloon flight manuals, and
- Overhaul and maintenance manuals.

The FAA accepts such documents and considers them FAA-approved for type design data only unless one of the following conditions exists:

- The documents change the limitations, performance, or procedures of the FAA approved manuals; or

- The documents make an acoustical or emissions changes to this product's U.S. type certificate as defined in 14 CFR § 21.93.

The FAA uses the post type validation procedures to approve these documents. The FAA may delegate on case-by-case to EASA to approve on behalf of the FAA for the U.S. type certificate. If this is the case it will be noted on the document.

Baskets (See Note 4 for model applicability.)

Baskets s/n 400 and up

Basket	Size	Drawing	Max. occupancy
K10	33 in x 46 in x 43 in	61-050097	3
K11	38 in x 46 in x 43 in	61-054200	4
K12	46 in x 46 in x 43 in	61-050556	5
K12A	46 in x 46 in x 43 in	61-050586	5
K13	46 in x 49 in x 43 in	61-045300	4
K13S	39 in x 47 in x 43 in	62-054450	3
K15	46 in x 53 in x 43 in	61-050111	5
K16	46 in x 57 in x 43 in	61-050125	6
K17	46 in x 57 in x 41 to 45 in	61-054400	6
K18	46 in x 61 in x 43 in	61-050135	7
K22	49 in x 71 in x 43 in	62-052680	8
K25P	49 in x 83 in x 43 in	62-052650	8
K28	63 in x 87 in x 45 in	62-057100	8
K32T	49 in x 94 in x 43 in	62-053050	10
K32Y	63 in x 94 in x 43 in	62-053050	10
K32TT	63 in x 98 in x 43 in	62-054950	10
K40T	63 in x 106 in x 43 in	62-052090	12
K40Y	63 in x 106 in x 43 in	62-052090	12
K50	63 in x 118 in x 43 in	62-054500	14
K50TT	63 in x 118 in x 43 in	62-054900	14
K60	63 in x 150 in x 43 in	62-054600	18
K70	63 in x 173 in x 43 in	62-054800	22
K80	63 in x 189 in x 43 in	62-054850	26
K85	63 in x 205 in x 43 in	62-57150	26
K90	63 in x 205 in x 43 in	62-57250	26
K100	63 in x 240 in x 43 in	62-054890	30
K110	63 in x 260 in x 43 in	62-054980	34

Different data for baskets s/n up to 399

Basket	Size	Drawing	Max. occupancy
K10	33 in x 39 in x 43 in	61-050097	3
K13S	37 in x 50 in x 43 in	61-045300	3
K15	46 in x 49 in x 43 in	61-050111	5
K16	46 in x 55 in x 43 in	61-050125	6
K22	49 in x 70 in x 43 in	62-052680	8
K25P	49 in x 82 in x 43 in	62-052650	8
K32T	49 in x 95 in x 45 in	62-053050	10
K40Y	64 in x 98 in x 45 in	62-052090	12
K60	67 in x 138 in x 43 in	62-054600	18
K70	67 in x 157 in x 43 in	62-054800	22
K80	67 in x 177 in x 43 in	62-054850	26

Basket optional equipment The following optional equipment can be fitted in the baskets:

• Door – for baskets K17, K22, K25P, K28, K32T, K32Y, K40T, K40Y, K50, K50TT, K60, K70, K80, K85, K90, K100, K110

• Passenger seat – for baskets K15, K16, K17, K18, K22, K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT, K60, K70, K80, K85, K90, K100, K110
• Inner removable partitions – for baskets K25P, K28, K32T, K32Y, K32TT, K40T, K40Y, K50, K50TT, K60, K70, K80, K85, K90, K100, K110 - not applicable if Y-shaped inner compartments are fitted

Fuel Cylinders (The approved types of fuel cylinders for use on all models.)

Manufacturer	Type	Weight	
		Empty (lb)	Full (lb)
Schroeder Fire Ballooons	VA50	33	80
	VA70	40	107
Cameron Balloons	Worthington (CB250)	31	75
	CB497	35	75
	CB599	44	90
	CB2088	48	110
	CB426	48	112
	CB959	55	135
	CB2385	24	75
	CB2387	31	90
	CB2380	29	93
	CB2383	33	114
	CB2900	46	96
	CB2901	51	117
	CB2902	53	133
	CB2903	60	139
Linstrand Balloons	V20	31	75
	V30	40	106
	V40	44	132
	T30	22	88
Thunder & Colt	V20	31	75
	V30	40	106
	V40	44	132

NOTES:

NOTE 1 Each manned free balloon must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with its approved combination of basket and burner assembly. Change to an eligible combination must be endorsed by log book entry by the pilot in command, or by an FAA certificated repairman.

NOTE 2 For the purpose of maintenance and inspection, operation records (log books) must be maintained with each manned free balloon envelope.

If burner, basket, instruments and/or tanks are interchanged, separate log books must be maintained for each component or group of components which are always used together. The Flight and Maintenance Manual must be presented to an FAA certificated repair station during annual inspections, for verification of components being inspected.

NOTE 3 Annual maintenance inspections should be carried out in accordance with the inspection schedule contained within the BALÓNY

KUBÍČEK spol. s r.o. Maintenance Manual B.0205. or BALÓNY KUBÍČEK spol. s r.o. Maintenance Manual B.2205

NOTE 4 The only approved configurations of envelope, basket, and burner are specifically identified within each model section.

-End-