

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

7B1  
Revision 4  
AUGSBURG  
K-945/2-Ri  
K-630/1-Ri  
K-1680/4-Ri  
  
May 13, 2016

**TYPE CERTIFICATE DATA SHEET NO. 7B1**

This data sheet which is a part of type certificate No. 7B1 prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder                      Ballonfabrik Augsburg  
See-und Luftausrüstung GmbH & Co. KG  
Austrasse 35, D-8900 Augsburg, West-Germany

Type Certificate Ownership Record

- (1) **This TC was considered not valid by the state of design on November 30, 2007, and has been replaced by European Aviation Safety Agency (EASA) Specific Airworthiness Specification (SAS) number EASA.SAS.BA.001, issued November 30, 2007. Only standard airworthiness certificates issued prior to this date are valid.**
- (2) **Future unsafe conditions existing in the aircraft may result in the revocation of the airworthiness certificates of the aircraft if there is no entity to comply with 14 CFR § 21.99(a), "Required design changes."**
- (3) **Replacement parts may not be available in the future.**

**I. Free Balloon Model K-945/2-Ri, approved June 26, 1959**

|                  |                                  |   |
|------------------|----------------------------------|---|
| Description      | (a) Diameter                     | 40,0 ft.                                  |
|                  | (b) Displacement                 | 33,368 cu.ft.                             |
|                  | (c) Lifting gases                | Hydrogen, citygas, helium                 |
|                  | (d) Ballast provisions sand bags |   |
|                  | (e) Empty weight                 | 768 lb. (excluding occupants and ballast) |
| No. of occupants | 6 crew and passengers            |   |

See page 3 for Additional Limitations.

**II. Free Balloon Model K 630/1-Ri, approved June 26, 1963**

|                  |                                  |   |
|------------------|----------------------------------|---|
| Description      | (a) Diameter                     | 34.9 ft.                                  |
|                  | (b) Displacement                 | 22,000 cu.ft.                             |
|                  | (c) Lifting gases                | Hydrogen, citygas, helium                 |
|                  | (d) Ballast provisions sand bags |   |
|                  | (e) Empty weight                 | 530 lb. (excluding occupants and ballast) |
| No. of occupants | 4 crew and passengers            |   |

See page 3 for Additional Limitations.

**III - Free Balloon Model K-1680/4-Ri, approved December 26, 1978**

|             |                                  |                           |
|-------------|----------------------------------|---------------------------|
| Description | (a) Diameter                     | 48.4 ft.                  |
|             | (b) Displacement                 | 59,321 cu.ft.             |
|             | (c) Lifting gases                | Hydrogen, citygas, helium |
|             | (d) Ballast provisions sand bags |                           |
|             | (e) Empty weight                 | 1,148 lb. (521 kg)        |

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No. of occupants 6 crew and passengers

See page 3 for Additional Limitations.

**DATA PERTINENT TO ALL MODELS**

|                         |  |
|-------------------------|--|
| Serial numbers eligible | Only those aircraft serials holding a standard airworthiness certificate issued prior to November 30, 2007, are eligible.  |
| Certification basis     | CAR 10. Type Certificate No. 7B1 issued June 26, 1959.<br>Application for Type certificate dated June 11, 1959.<br><br>The original German type certificate for the K- series balloons is Freiballon-Kennblatt 06.8001 K-Ri.   |
| Import Requirements     | None eligible after May 13, 2016.<br><br>Previous to this date:<br><br>Each balloon and any replacement parts manufactured in Germany must be identified as imported. A U.S. Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the Luftfahrt-Bundesamt containing the following statement: "The balloon covered by this certificate has been examined and found to comply with the requirements of the German Balloon Standards, Bau- und Prufvorschriften fur Freiballone, Ausgabe Februar 1938, and conforms to T.C. 7B1". See also NOTE 4 and Additional Limitations. |
| Equipment Certificate   | The basic required as prescribed in the applicable airworthiness regulations (see Certificate Basis) must be installed in the balloon for certification. In addition the following items of equipment are required:<br>(a) Pilots Manual for Free Balloons, dated November 1973, Issue 2 dated March 8, 1974.  |
| Additional Limitations  | German Airworthiness Directives:<br>LTA 69-145 dated December 10, 1969, Electrostatic Discharge, and,<br>LTA 69-145/2 dated November 26, 1979, Electrostatic Discharge,<br>must be complied with at the next issuance of a standard airworthiness certificate or annual inspection.  |
| NOTE 1.                 | Current weight and balance report, including list of equipment included in certificated empty weight, must be provided for each balloon at the time of original certification.   |
| NOTE 2.                 | The following placard must be clearly visible to all occupants: "No Smoking".  |
| NOTE 3.                 | The following Operating Limitations must be complied with:<br>(a) All flights shall be in accordance with VFR-DAY Flight rules.<br>(b) Adequate and acceptable precautions will be taken during inflation and deflation procedures for the proper protection of personnel and property.  |
| NOTE 4.                 | In addition; the standards for prevention of hazards due to electrostatic discharge, Ref. Luftfahrt-Bundesamt - Abteilung Technik I 30-614.0/69 dated June 12, 1969 have been added.   |

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