

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

AS4EU
Revision 1
WDL LUFTSCHIFF GmbH WDL I B
March 2, 2007

TYPE CERTIFICATE DATA SHEET NO. AS4EU

This data sheet which is part of Type Certificate No. AS4EU 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. WDL LUFTSCHIFFGESELLSCHAFT MBH  
Lilienthalstrasse 8  
Flughafen Essen/Mülheim  
D4330 Mülheim a/d Ruhr  
Federal Republic of Germany

I. Model WDL I B (Normal Category), approved December 23, 1992.

Engine. 2 Continental I O 360 CB  
FAA TC: E1CE

Fuel. 100/100ll grade aviation gasoline.

Engine Limits. For take-off (5 min) at 2.800 rpm  
For continuous operation, 2.800 rpm MP 26.5 (210 BHP)

Propeller and Propeller Limits. 2 Hartzell BHC-92-WF-3G / W8447-6R  
FAA TC: P16EA  
Number of Blades = 2  
Propeller diameter = 1.981 mm ( 78 in )

or

2 Mc Cauley D2A34C67/76C-6  
FAA TC: P3EA  
Number of Blades = 2  
Propeller diameter = 1.930 mm ( 76 in )

Airspeed Limits (I.A.S.). Vne (Never Exceed) 48 knots  
Vm (Manouvering) 35 knots

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Leveling Means. Inclinator located on the left and righthand side Fwd cockpit.

Weights. Maximum Weight 7.058 Kg (15546 #)  
Maximum Car Weight 3.150 Kg ( 6938 #)

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<u>Lifting Gas.</u>	Envelope Gross Volume	6.904 Cubic Meters
	Maximum Envelope Pressure	2,2 inches W.G.
	Minimum Envelope Pressure (in hangar)	0,6 inches W.G.
	Ballonet Volume (operational)	29% of envelope gross volume
	Total Ballonet Volume	31,5% of envelope gross volume
	Maximum Ballonet Differential Pressure	0,5 inches W.G.

#### DATA PERTINENT TO ALL MODELS

Ser. Nos. Eligible. The German Certificate of Airworthiness for Export endorsed as noted under "Import Requirements" must be submitted for each individual airship for which application for certification is made.

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 Luftfahrt Bundesamt 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 Part 21.17(b) approved under U.S. Type Certificate No. AS4EU and to be in a condition for safe operation.'

Certification Basis. FAR 21.17(b) and 21.29 effective February 1, 1965, including Amendments 21-1 through 21-60. Compliance with FAR 21.17(b) has been shown using the provisions of the Advisory Circular 21.17-1 Section 5, paragraph a including other acceptable criteria such as Part 23, Amdt. 12, where applicable in accordance with AC 21.17-1, dated 9/30/87, Item 5(b). The airworthiness requirements met under this provision are LBA Requirements as stated in the German Type Certificate 7.9002 issue 1 from 22.09.1988, and additional FAA Requirements in accordance with FAA Document P-8110-2, dated November 2, 1987.

Application for Type Certificate dated 20 August 1991.

The Luftfahrt Bundesamt originally type certificated this aircraft under its type certificate Number 9002. The FAA validated this product under U.S. Type Certificate Number AS4EU. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of Germany.

Equipment. The basis required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airship for certification. In addition, LBA Approved Flight Manual section 2.8, as appropriately amended in relation to the actual modification standard of the airplane required.

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 September 28, 2003 – by the Luftfahrt Bundesamt.

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

The FAA accepts such documents and considers them FAA-approved unless one of the following conditions exists:

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

Service Information, cont'd

•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.

NOTES.

Note 1.

An approved seat belt must be provided for each seat.

Note 2.

Airworthiness Limitations

The LBA-approved Chapter 5, of the Maintenance Manual for the Airship WDL I B dated September 1988, specifies Structural inspections intervals and related structural procedures, and operation checks. These airworthiness limitations may not be changed without FAA-approval.

Note 3.

The passenger seat location and cabin layout must be in accordance with the LBA-approved basis.

Airships of this type are approved for VFR flights by Day and Night.

Installation of a Night sign system in accordance with T.I. 14 of WDL is approved.

Airships of this type are approved for Towing of non rigid banners.

Airships of this type are approved for Aerial work.

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