

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

G36EU  
Revision 1  
SCHLEICHER  
ASW-19  
ASW-19B  
July 12, 1978

TYPE CERTIFICATE DATA SHEET NO. G36EU

This data sheet which is a part of type certificate No. G36EU 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                    ALEXANDER SCHLEICHER  
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   Federal Republic of Germany

**I - Model ASW-19, approved January 12, 1977.**

Airspeed limits (I.A.S.)	Max. speed	135 knots	(155 m.p.h.)	
	Airplane tow	92 knots	(106 m.p.h.)	
	Auto-winch tow	65 knots	(75 m.p.h.)	
	Dive brakes extended	135 knots	(155 m.p.h.)	
	Maneuvering speed	92 knots	(106 m.p.h.)	
 C.G. range	 (+9.45 inches) to (+15.12 inches)			
 Datum	 Wing leading edge at wing root rib			
 Leveling means	 Slope of rear top edge of fuselage 1000 to 45.			
 Maximum weight	 900 lb. (with water ballast) 805 lb. (without water ballast) (See NOTE 2)			
 No. of seats	 1 (-22 in.)			
 Baggage	 33 lb. (+6.0 in.)			
 Control surface movements	Elevator	Up	22°	± 3.5°
		Down	18°	± 2.0°
	Rudder	Right	30°	± 3°
		Left	30°	± 3°
	Aileron	Up	22°	± 3.5°
		Down	14°	± 2.0°
 Wink Links for Towing	Winch launching	1100 lb (500 kg) max.		
	Airplane tow	1100 lb (500 kg) max.		

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**II - Model ASW-19B, approved July 12, 1978**

Same data as Model ASW-19 except the following:

Airspeed limits (I.A.S.)	Max. speed to 10,000' MSL	138 knots	(158 m.p.h.)
	10,000 to 23,000' MSL	110 knots	(126 m.p.h.)
	23,000 to 29,500' MSL	95 knots	(109 m.p.h.)
	Va Maneuvering speed	92 knots	(106 m.p.h.)
	Vt Aerotow (max.)	92 knots	(106 m.p.h.)
	Autowinch (Max.)	67 knots	(78 m.p.h.)
Dive brakes extended	138 knots	(158 m.p.h.)	
Maximum weight	1000 lb. (with water ballast) 805 lb. (without water ballast) (See NOTE 2)		
Weak Link for Towing	1323 lb. (600 kg max.)		
Serial Numbers Eligible	(See Import Requirements and NOTE 5)		

**DATA PERTINENT TO ALL MODELS**

Serial Nos. eligible	The Federal Republic of Germany Certificate of Airworthiness for Export endorsed as noted below under "Import Requirements" must be submitted for each individual glider for which application for standard airworthiness certification is made. (See NOTE 5)
Import Requirements	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 (LBA), containing the following statement: "The glider covered by this certificate has been examined and found to comply with the Federal Republic of Germany glider airworthiness requirements dated February 1966 and conforms to Type Certificate No. G36EU and is in condition for safe operation".
Certification basis	FAR 21.29, effective February 1, 1965. Federal Republic of Germany Airworthiness Requirements, dated February 1966 were found to provide a level of safety equivalent to provisions of FAR 21.23 to enable certification under the provision of FAR 21.29. Type Certificate No. G36EU issued January 12, 1977. Date of Application for Type Certificate: May 5, 1976.
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification basis) must be installed in the glider for standard airworthiness certification. In addition the following equipment must be installed: 1) Instruments (Non-Cloud flying): (i) Airspeed indicator, Winter 6FMS/W 19, or PZL PR-250S/W 19 with extended range to 270 km/h., or an FAA-approved equivalent. (ii) Altimeter. (iii) Lap and shoulder straps. 2) Additional Instruments for Cloud flying: (I) Magnetic compass. (ii) Turn and bank. (iii) Variometer. 3) For Model ASW-19: LBA-approved Flight and Operations Manual dated May 1976 or later LBA-approved issue. For Model ASW-19B: LBA-approved Flight and Operations Manual dated June 1978 or later LBA-approved issue.

## NOTES:

- NOTE 1. Current weight and balance report including list of equipment in certificated empty weight, and loading instructions, when necessary, must be provided for each glider at the time of original certification.
- NOTE 2. The following placards must be installed in full view of the pilot:
- 1) "This glider must be operated in compliance with the operating limitations stated in the form of placards, markings and manuals."
  - 2) "Cloud flying: Permitted only when the following instruments are installed:
    - (1) Airspeed indicator
    - (2) Altimeter
    - (3) Turn and bank Indicator
    - (4) Variometer
    - (5) Compass."
  - 3) "Acrobatic maneuvers including spins must be accomplished in accordance with the LBA-approved Model ASW-19 Flight and Operations Manual. Aerobatics prohibited with water ballast aboard."
  - 4) "Night flying is prohibited."  
Applicable to ASW-19:
  - 5)
 

Maneuvering speed	92 knots	(106 m.p.h.)
Airplane tow speed	92 knots	(106 m.p.h.)
Auto-winch tow speed	65 knots	(75 m.p.h.)
Stall speed - Dive brakes extended	42 knots	(48 m.p.h.)
  - 6) For gliders without water ballast system installed:
 

"Maximum Weight	805 lb."
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  - 7) For gliders with water ballast system installed:
 

"Maximum Weight excluding water ballast	805 lb.
Maximum Weight with water ballast	900 lb."
  - 8) "Weak Link - Airplane/Auto/Winch Tow 1100 lb.  
Applicable to ASW-19B:
  - 9)
 

Vne to 10,000' MSL	138 knots	(158 m.p.h.)
10,000 to 23,000' MSL	110 knots	(126 m.p.h.)
23,000 to 29,500' MSL	95 knots	(109 m.p.h.)
Maneuvering speed	92 knots	(106 m.p.h.)
Airplane tow speed	92 knots	(106 m.p.h.)
Autowinch tow speed	67 knots	(78 m.p.h.)
Stall speed - Dive brakes extended	42 knots	(48 m.p.h.)
  - 10) For gliders without water ballast system installed:
 

"Maximum weight	805 lb."
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  - 11) For gliders with water ballast system installed:
 

"Maximum weight excluding water ballast	805 lb.
Maximum weight with water ballast	1000 lb."
  - 12) Weak link - Airplane/auto/winch tow 1323 lb.
- NOTE 3. All external portions of the glider exposed to sunlight must be painted white. Registration and Competition numbers must be painted blue-gray or in any other light colors.
- NOTE 4. Information essential to the proper operation, maintenance, inspection and repair is contained in the Schleicher "Flight and Operations Manual," applicable to the model concerned, Schleicher should be consulted for all major repairs.
- NOTE 5. ASW-19 Serial Numbers 19001 through 19225 are eligible for a Standard Airworthiness Certificate as a Model ASW-19B when modified in accordance with the manufacturer's Technical NOTE ASW 19 No. 6a and placard installed per NOTE 2(9) of this TCDS.

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