

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

G13CE ALEXANDER SCHLEICHER GmbH ASW-28 December 19, 2002
--

TYPE CERTIFICATE DATA SHEET No. G13CE

This data sheet which is a part of Type Certificate No. G13CE 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 GmbH & Co.
 Segelflugzeugbau, Huhnrain 1
 D-36163 POPPENHAUSEN
 GERMANY

I. Model ASW 28 (Utility Category), approved December 19, 2002.
--

<u>Airspeed Limits (I.A.S.).</u>	Maximum Airspeeds in Calm Air			
	Never Exceed (VNE)	km/h	kts	MPH
	0 - 19685 ft alt. (0 – 6000 m)	270	146	168
	19685 - 26247 ft alt. (6000 – 8000 m)	236	127	147
	26247 - 32808 ft alt. (8000 – 10,000 m)	209	113	130
	Never Exceed All Altitudes			
	Dive Brakes	270	146	168
	Landing Gear (VL)	200	108	124
	In Rough Air (VB)	200	108	124
	Maneuvering (VA)	200	108	124
	Aero Tow (VT)	170	92	106
	Winch Tow (VW)	140	76	87

C.G. Range. 8.74 inches to 13.58 inches (222mm to 345mm) aft of datum.

Datum. Wing leading edge at wing root rib.

Empty Weight C.G. Reference Alexander Schleicher ASW 28 Maintenance Manual, Section
 Section 6.4, Figure 6.4-1.
 Diagram of Empty Weight C.G. position, dated July 2, 2001.

Leveling Means. Wedge 1000:49 on the rear end of the fuselage tail boom edge horizontal.

Maximum Weight. 525 kg (1157 lbs) including water ballast.

No. of Seats. 1 Seat

Baggage. The baggage compartment is limited to 26.5 pounds (12 kgs).

Page No.	1	2	3
Rev. No.	-	-	-

<u>Control Surface Movements.</u>	Elevator	Up 18° to 22° Down 18° to 22°
	Rudder	Left 29° to 33° Right 29° to 33°
	Aileron	Up 20° to 25° Down 12° to 15°
<u>Weak Link in Tow Rope</u>	Winch Tow	Maximum 660 kg (1455 lbs)
	Aero Tow	Maximum 660 kg (1455 lbs)
<u>Serial Nos. Eligible.</u>	See Import Requirements.	
<u>Certification Basis</u>	<ol style="list-style-type: none"> 1. Code of Federal Regulations (CRF), 14CFR21, Effective February 1, 1965, Amendment 21-1 through 21-71. 2. "Joint Airworthiness Requirements (JAR) for Sailplanes and Powered Sailplanes", JAR-22 through Change 5, Issued October 28, 1995. 3. The FAA act of 1958 Section 611(b). 4. Exemption no. 4988 (External Markings) to 14CFR45, Effective April 20, 1964, Amendments 45-1 through 45-16, Section 45.11(a) and (d) (External Identification Plate). 5. German Type Certificate number 423, dated July 18, 2001. 6. Date of Application for U.S. Type Certificate: November 7, 2000. 	
<u>Import Requirements.</u>	<p>A U.S. Standard 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 glider covered by this certificate has been examined, tested and found to conform to the type design approved under FAA Type Certificate No. G13CE and is in condition for safe operation", and the FAA inspector finds that the glider conforms to the U.S. Type Design and is in condition for safe operation.</p> <p>All Model ASW 28 serial numbers are eligible for U.S. Standard Airworthiness Certificate when:</p> <p>For Sailplanes exported to the U.S. prior to FAA type certificate approval:</p> <ol style="list-style-type: none"> 1) The FAA inspector is provided with the original Export Certificate of Airworthiness issued by the LBA which certifies the glider conforms to the LBA type certificate number 423, and 2) The sailplane is found to be in condition for safe operation by the FAA inspector. <p>For Sailplanes exported to the U.S. after the FAA type certificate approval:</p> <ol style="list-style-type: none"> 1) The FAA inspector is provided with the original Export Certificate of Airworthiness issued by the LBA which certifies the glider conforms to the U.S. type certificate number G13CE, and 	

- 2) The sailplane is found to be in condition for safe operation by the FAA inspector.

Equipment.

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the sailplane for certification.

Minimum Equipment

- 1 - Airspeed Indicator (up to 162 kts (300 km/h) range)
- 1 - Altimeter
- 1 - Four-point safety harness
- 1 - Parachute or back cushion (at least 3.25 in (8cm) thick when compressed)
- 1 - ASW 28 Sailplane Flight Manual

Service Information.

ALEXANDER SCHLEICHER ASW 28 Technical Notes (Service Bulletions), Structural repair manuals, vendor manuals, aircraft flight manuals, and overhaul and maintenance manuals which contain a statement that the document is LBA approved, are accepted by the FAA and are considered FAA approved. These approvals pertain to the type design only.

NOTES.

- NOTE 1. Current weight and balance report including list of equipment in certificated empty weight, and loading instructions when necessary must be provided at the time of original certification.
- NOTE 2. The placards listed in the ALEXANDER SCHLEICHERF ASW 28 Maintenance Manuals must be displayed in the locations defined.
- NOTE 3. Section 4.3 of the ALEXANDER SCHLEICER ASW 28 Maintenance Manual, titled "Airworthiness Limitations Section", is FAA-approved, and it specifies mandatory replacement times, structural inspection intervals, and related structural inspection procedures. These airworthiness limitations may not be changed without FAA approval.
- The ASW 28 Sailplane Flight Manual is FAA approved. Limitations as defined in the Flight Manual may not be changed without FAA approval.
- NOTE 4. All external portions of the sailplane exposed to sunlight must be painted white, with the only exception of the area for registration letters and the anti-collision paint as specified by the manufacturer.
- NOTE 5. This sailplane is approved for limited aerobatics, as specified in the Flight Manual, WITHOUT water ballast on board.
- NOTE 6. Major airframe repairs must be accomplished at FAA certificated repair stations rated for composite construction of small aircraft, using ALEXANDER SCHLEICHER repair methods or other methods acceptable to the Administrator.

.....END.....