

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

G3EA Revision 3 K & L Soaring, LLC SGS 1-34 SGS 1-34R September 5, 2007
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GLIDER DATA SHEET NO. G3EA

This data sheet, which is a part of Type Certificate No. G3EA, 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 K & L Soaring, LLC
 1411 Beranek Rd.
 Cayuta, New York 14824

Type Certificate Holder Record Schweizer Aircraft Corporation
 County Airport
 P.O. Box 147
 Elmira, New York 14902

I. - Model SGS 1-34, 1 PCLM, Approved October 16, 1969.

Type	Class I, High Performance		
Airspeed Limits (CAS)	Vne Glide or dive, dive brakes open	142 mph	
	Vne Glide or dive, dive brakes closed	135 mph	
	Vta Airplane tow	115 mph	
Center of Gravity (C.G.) Range	(+15.66) to (-19.54) (30% to 40% MAC)		
Maximum Weight	Model SGS 1-34 840 lb.		
Mean Aerodynamic Chord	38.79 in. (leading edge of M.A.C. 4.02 in. aft of wing leading edge at root).		
No. of Seats	1 adjustable (-15.91) to (-23.91)		
Baggage	None		
Control Surface Movements	Elevator	28° - 31° Up	24° - 27° Down
	Rudder	30° - 33° Right	30° - 33° Left
	Aileron	30 1/2° - 33 1/2° Up	10° - 13° Down
	Dive brakes	Upper 87° - 97° Up	
		Lower 68° - 78° Down	
Serial No. Eligible	1 and up		

II - Model SGS 1-34R, 1 PCLM, Approved June 15, 1971

Type	Class I, High Performance		
Airspeed Limits (CAS)	Vne Glide or dive, dive brakes open	142 mph	
	Vne Glide or dive, dive brakes closed	135 mph	
	Vta Airplane tow	115 mph	
Center of Gravity	(-15.66) to (-19.54) (30% to 40% MAC)		

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(C.G.) Range

Maximum Weight	Model SGS 1-34R 840 lb.		
Mean Aerodynamic Chord	38.79 in. (Leading edge of M.A.C. 4.02 in. aft of wing leading edge at root).		
No. of Seats	1 Adjustable (-15.91) to (-23.91)		
Baggage	None		
Control Surface Movements	Elevator	28° - 31° Up	24° - 27° Down
	Rudder	30° - 33° Right	30° - 33° Left
	Aileron	30 1/2° - 33 1/2° Up	10° - 13° Down
	Dive brakes	Upper 87° - 97° Up	
		Lower 68° - 78° Down	
Serial No. Eligible	1 and up		

Data Pertinent to all Models

Datum	Wing leading edge at root (Fuselage Sta. 79.91)
Leveling Means	Rivet line along side longeron, aft of wing T.E.
Certification Basis	FAR 21.23 (Basic Glider Criteria Handbook (1962)) Date of Application for Type Certificate, March 7, 1968 Glider Type Certificate No. G3EA issued October 16, 1969; Type Certificate No. G3EA amended June 15, 1971 for Model SGS 1-34R.
Production Basis	Production Certificate No. 101
Equipment	The basic equipment as prescribed in the applicable airworthiness regulations (See Certification Basis) must be installed in the glider for certification.

Note 1. A suitable placard to cover the maximum and minimum pilot weights must be installed in full view of the pilot as determined from the manufacturer's weight and balance report.

Note 2. The following placard must be installed in full view of the pilot:

"MAX. GLIDE OR DIVE, DIVE BRAKE CLOSED	135 M.P.H.
MAX. AERO TOW	115 M.P.H.
MAX. DIVE-BRAKE OPERATION	142 M.P.H."

Note 3. An approved safety belt and shoulder harness is required for occupant.

Note 4. Glider characteristics are suitable for instrument flight, and the glider may be so approved for Class I, High Performance, provided that minimum equipment required by Federal Aviation Regulations is installed and operable. Flight in clouds permissible when turn-and-bank indicator is also installed.

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