

Alexander Schleicher GmbH Co.
 Segelflugzeugbau
 D-36163 POPPENHAUSEN (WASSERKUPPE)
 Approval/Authorisation No.: DE.21G.0010

Kind of inspection: **TC inspection**
 for sailplanes

Date: 07.09.2010 Page number: **1**

Type: ASK 21

Registration letters: **N747SV**

Serial No 21879

Year of construction: 2010

Data sheet No. EASA.A.221 Issue: 04

Owner Shenandoah Valley Soaring Inc., 249 Aero Drive, Waynesboro, VA 22980-6524 / USA

A. Techn. 1. Datum Point : _____ wing leading edge 5 cm to root edge _____ According to
 Data: 2. Horizontal Datum Line : slope of rear top edge of fuselage 1000: 52 _____ Data sheet

B. Balance and Empty Mass Center of Gravity:

empty mass 829,6 lbs

Center of gravity positions:

X_f = foremost ; X_R = rearmost limit ; $m_L = m_1 + m_2$

$$\frac{22,5 \cdot 181,02}{829,6} + 25,47 = 30,38 \text{ inch}$$

aft of datum

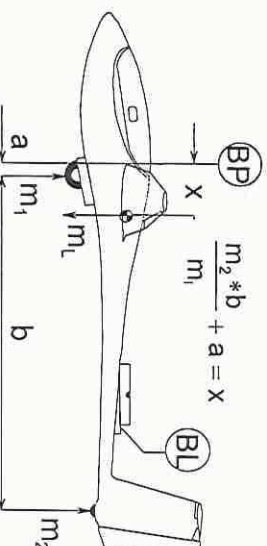
C.G. range (as per Manual) from:

X_f = 29,92 inch

X_R = 30,59 inch

at the empty mass 829,6 lbs

The empty mass C.G. was found to be within permissible limits.



* For non installed instruments in the front instrument panel 2,2 kg and 1,6 kg in the rear, have been allowed for the weight and balance.

Individual mass	lbs	Non lift producing members
right wing	210,8	—
	0,0	—
left wing	215,6	—
	0,0	—
fuselage	345,5	345,5
horizontal tail unit	34,4	34,4
rudder	5,5	5,5
aircraft equipment: instruments incl. instrument panel *	9,7	9,7
safety belts	4,9	4,9
trim weight in fuselage nose	3,3	3,3
	0,0	0,0
	0,0	0,0
Empty mass	829,6	403,2

C. Type Certification Data:

Empty mass:	829,6 lbs	Number of occupants:	2
Maximum permitted payload	493,2 lbs	Total no. of starts:	1
Max. take-off mass:	1322,8 lbs	Total flight time:	1 h
Max. take-off mass w.o. waterballast :	lbs	Number of starts since last major inspection:	0
Mass of non lift producing members: (including payload)	896,4 lbs	Flight time since last major inspection:	0 h
The Data and Loading Placard and the Mass and Balance Form have been corrected or comply with these Figures.		Number of starts since last annual inspection:	0
Cockpit load distribution see Flight Manual.		Flight time since last annual inspection:	0 h
		elapsed time indicator:	h
		Flight time engine:	h
		Flight time propeller:	h

P.T.O.

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Horizontal angle of incidence:

0° measure in relation to fuselage datum plane

Wing angle of incidence:

at 200 mm of fuselage

Datum line: trailing edge 40 mm against 0°

Wing dihedral:

3,6°

Datum line: upper surface of wing

Wing sweepback:

0°

Datum line: wing leading edge

Control surfaces deflections with flap

upwards

downwards

distance of measurement from control surface axis

Aileron - right:

outer aileron 28,0 0,0 °

outer aileron 10,3 0,0 °

outer aileron 9,45 0,00 inc

Aileron - left:

27,2 0,0 °

10,1 0,0 °

9,45 0,00 inc

Elevator:

24,3 °

15,5 °

9,06 inc

Rudder:

28,0 °

28,5 °

14,76 inc

Installed tow hook (s):

Type:

Serial No.:

Last inspection:

Nose tow hook:

Tost nose hook E 85

160575

28.01.10

C.G. tow hook:

Tost belly hook G 88

063646

19.11.09

Equipment List:

Manufacturer:

Type:

Data Sheet No.:

Serial No.:

Last inspection:

Airspeed indicator front:

Airspeed indicator rear:

Altimeter front:

Altimeter rear:

Safety harness front:

Safety harness rear:

lap: Schroth 4-02-190201 JTSC-C114 23/10 09.06.10

shoulder: Schroth 4-02-180201 JTSC-C114 23/10 09.06.10

lap: Schroth 4-02-180201 JTSC-C114 23/10 09.06.10

shoulder: Schroth 4-02-190201 JTSC-C114 23/10 09.06.10

Supplementary equipment

(e.g. variometer, radio, etc.):

bottom strap

Schroth 4-02-190201

JTSC-C114

23/10

09.06.10

bottom strap

Schroth 4-02-180201

JTSC-C114

23/10

09.06.10

2battery housing

Loudspeaker

goos neck microphone

Remarks:

AD-Notes and Technical Notes which have been accomplished: TN-No. 2, 3, 4a, 5, 6, 7, 8, 9, 10, 11, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 31

AD-Notes 81-92, 84-2, 84-32, 82-216, 84-180, 86-236, 88-2, 90-350, 91-112, 94-026, 1993-1/3, 93-186

Examination of the Airworthiness/Service Record Map was done : non applicable

Defects found during any previous inspections have been corrected: yes

The following currently valid inspection records and papers go with this Airworthiness Test Report:

Flight report: dated 07.09.2010

Inspection List: dated 07.09.2010

Report of Findings: dated --

Summary of masses: dated 07.09.2010

Equipment List: dated 07.09.2010

List of control service deflection: dated 07.09.2010

Table of service live for various equipment fitted: dated 07.09.2010
dated

The aircraft is found to be airworthy and complies with the contents of the Data Sheet

The aircraft is found to be airworthy

and complies with the Type Certificate.

Alle verlangten Arbeiten wurden ordnungsgemäß durchgeführt. Es sind keine
Tarbestände der Nichterfüllung bekannt, die die Flugsicherheit ernsthaft
gefährden. Freigabe für Luftfahrzeug (M.A.801) (M.A.612).

Poppenhausen 07.09.2010

Date and place

(stamp)

Inspector

