

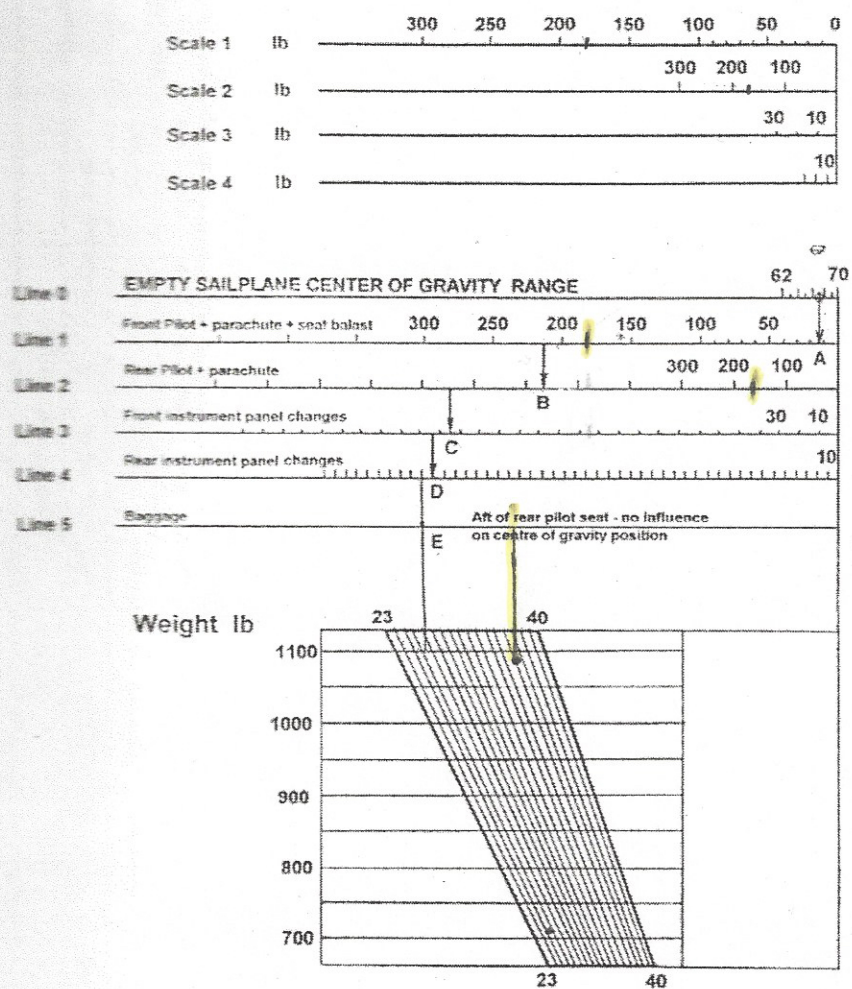
FRONT SEAT PLACARD	REAR SEAT PLACARD
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FRONT SEAT WEIGHT	MINIMUM REAR WEIGHT	ACTUAL REAR MAXIMUM
100	192.5	296.1
105	174.6	291.1
110	156.6	286.1
115	138.7	281.1
120	120.8	276.1
125	102.9	271.1
130	85.0	266.1
135	67.0	261.1
140	49.1	256.1
145	31.2	251.1
150	13.3	246.1
155	0	241.1
160		236.1
165		231.1
170		226.1
175		221.1
180		216.1
185		211.1
190		206.1
195		201.1
200		196.1
205		191.1
210		186.1
215		181.1
220		176.1
225		171.1
230		166.1
235		161.1
240		156.1
245		151.1
250		146.1
255		141.1
260		136.1
265		131.1
270		124.4
275		94.4
280		64.5
285		34.5
290		0.0
295		0.0
300		0.0

REAR SEAT WEIGHT	MINIMUM FRONT WEIGHT	ACTUAL FRONT MAXIMUM
100	125.8	274.1
105	124.4	273.2
110	123.0	272.4
115	121.6	271.6
120	120.2	270.7
125	118.8	269.9
130	117.4	266.1
135	116.0	261.1
140	114.6	256.1
145	113.2	251.1
150	111.9	246.1
155	110.5	241.1
160	109.1	236.1
165	107.7	231.1
170	106.3	226.1
175	104.9	221.1
180	103.5	216.1
185	102.1	211.1
190	100.7	206.1
195	99.3	201.1
200	97.9	196.1
205	96.5	191.1
210	95.1	186.1
215	93.7	181.1
220	92.3	176.1
225	90.9	171.1
230	89.5	166.1
235	88.1	161.1
240	86.7	156.1
245	85.3	151.1
250	84.0	146.1
255	82.6	141.1
260	81.2	136.1
265	79.8	131.1
270	78.4	126.1
275	77.0	121.1
280	75.6	116.1
285	74.2	111.1
290	72.8	106.1
295	71.4	101.1
300	70.0	96.1

ROSS

CIESIMSKI



06/13/2018



Weight and Balance Computation

Blanik L-23 Super Blanik

N317BA, S/N 978406

Glider weighed with wing tip extensions, Microair radio, two 12v batteries, and com antenna.

	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
MLG	638	+2.5 0	1595.00
TW	97	182.48	17,700.56
	735	26.25	19,295.56

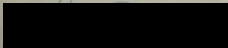
Gross Weight: 1124

Empty Weight: 735

Useful Load: 389

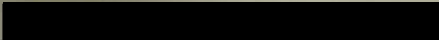
CG: 26.25"

%MAC: 67.25



AP

10/23/15

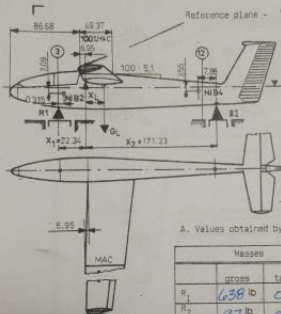


06/13/2018

3. 23

WEIGHING

WEIGHING



Reference plane - Wing leading edge at 1/1

Type	L 23 SUPER-BLONDE
Manufactured by	LET C.O. Kunovice
Serial number	978 406
Registration mark	N317BA

The sailplane weighed on supports

All dimensions are in inches

The landing gear extended

A. Values obtained by weighing

	Masses			Dimensions
	gross	tare	net	
R ₁	638 lb	0 lb	638 lb	X ₁ = 22.5 in
R ₂	97 lb	0 lb	97 lb	X ₂ = 171.23 in
G _L			735 lb	

The center-of-gravity position of the empty sailplane calculated in Part 8 meets the sailplane specifications, and makes it possible to achieve the required operational (flight) center-of-gravity range of 23 to 40% MAC. The center-of-gravity position should be calculated as shown in the Flight Manual of the L 23 SUPER-BLONDE sailplane

B. Values obtained by calculation - centre-of-gravity position of the empty sailplane

a/ relative to the reference plane	b/ relative to the mean aerodynamic chord
$X_L = \frac{R_2 \cdot 171.23 + R_1 \cdot 22.34}{G_L}$	$\bar{X}_T = \frac{(X_L + 6.95) \cdot 100\%}{49.37}$
X _L = 26.25 in	$\bar{X}_T = 67.25 \% \text{ MAC}$

Kunovice - Date

TAB. 1 MASS AND BALANCE RECORD

Effectivity: ALL

Elaborated by

S-10-00

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SUPERCEDED 10/22/15

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MASS AND BALANCE RECORD

L 23 SUPER-BLANKET

