

# BRITISH MICROLIGHT AIRCRAFT ASSOCIATION

## WEIGHT REPORT

see TIL 012 for BMAA weight and balance policy

a/c registration	G-SHCK	make / type	IKARUS C42A FB80
date of weighing	27-Feb-2024	a/c serial no.	1510-7426
engine	ROTAX 912UL	propeller	KIEV 3 BLADE 170CM
MAUW [kg]	472.5	total fuel capacity [litres]	65
max per seat [kg]	120	max (combined) occupant load [kg]	220
3-axis control (click to change)		BRS fitted at time of weighing?	No
HADS / TADS reference		68	HADS / TADS issue
		12	
units of positions from datum - e.g. metres or inches		MM	

### equipment inventory

Spats AvMap Ultra EFIS  
leg fairing  
seat cushions  
carpets and interior panels  
Funke ATR833  
Funke TRT800H Transponder  
Aero classic 6 ply on the mains

### weighing data

	empty weight [kg]	position from datum [mm]
port main wheel	103	760
starboard main wheel	103	(same as port)
nose-wheel or tail-wheel	72	-764
fixed ballast (optional)		

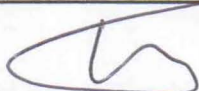
### subsequent changes

date (mandatory)	description (mandatory)	weight increment [kg]	position from datum [mm]

### weight and balance

empty weight [kg]	278.0
position from datum [mm]	365.295

The data on this form is both a correct and accurate description of the weight and balance of this aircraft at this time  
The aircraft weighing (including the scales used) are in accordance with the requirements of BMAA TIL 012, latest issue  
An up-to-date occupant/fuel trade-off placard is displayed in the aircraft  
The balance of the aircraft has been checked (using the Balance Check worksheet) and is satisfactory

signed:  date: 22/3/24 inspector no.: 513.

### BMAA OFFICE USE ONLY

comments:

this form has been checked and confirmed satisfactory

signed:  name: ROB MOTT date: 24/03/2024

# BRITISH MICROLIGHT AIRCRAFT ASSOCIATION BALANCE CHECK

see TIL 012 for BMAA weight and balance policy

a/c registration	<input type="text" value="G-SHCK"/>	make / type	<input type="text" value="IKARUS C42A FB80"/>
		a/c serial no.	<input type="text" value="1510-7426"/>
units of positions from datum - e.g. metres or inches		<input type="text" value="MM"/>	
HADS / TADS reference	<input type="text" value="68"/>	HADS / TADS issue	<input type="text" value="12"/>

<b>empty weight</b>	
empty weight [kg]	<input type="text" value="278.0"/>
position from datum [mm]	<input type="text" value="365.295"/>

<b>pilot - fixed position seat</b>	minimum load [kg]	maximum load [kg]
	<input type="text" value="55"/>	<input type="text" value="120"/>
<b>fixed position seat</b>	position from datum [mm]	<input type="text" value="400"/>
adjustable position seat	aft position [mm]	<input type="text"/>
	forward position [mm]	<input type="text"/>
weight dependent position	light position [mm]	<input type="text"/>
intermediate load [kg]	heavy position [mm]	<input type="text"/>

<b>passenger - fixed position seat</b>	minimum load [kg]	maximum load [kg]
	<input type="text" value="0"/>	<input type="text" value="120"/>
<b>fixed position seat</b>	position from datum [mm]	<input type="text" value="400"/>
adjustable position seat	aft position [mm]	<input type="text"/>
	forward position [mm]	<input type="text"/>
weight dependent position	light position [mm]	<input type="text"/>
intermediate load [kg]	heavy position [mm]	<input type="text"/>

<b>gross occupancy limit</b>	maximum (combined) occupant load [kg]	<input type="text" value="220"/>
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fuel tanks	capacity [litres]	position from datum [mm]	description (optional)
tank 1	<input type="text" value="65"/>	<input type="text" value="950"/>	<input type="text"/>
no tank 2 (click to change)	<input type="text"/>	<input type="text"/>	<input type="text"/>
no collector tank (click to change)	<input type="text"/>	<input type="text"/>	<input type="text"/>

miscellaneous	maximum load [kg]	position from datum [mm]	description (optional)
miscellaneous 1	<input type="text" value="10"/>	<input type="text" value="950"/>	<input type="text" value="baggage"/>
no miscellaneous 2 (click to change)	<input type="text"/>	<input type="text"/>	<input type="text"/>

<b>aircraft</b>	
MAUW [kg]	<input type="text" value="472.5"/>
aft limit [mm]	<input type="text" value="560"/>
forward limit [mm]	<input type="text" value="350"/>
no heavyweight cg limit (click to change)	aft limit, heavy [mm]
intermediate weight [kg]	fwd limit, hvy [mm]



**weight and balance**

empty weight [kg] 278.0  
position from datum [mm] 365.295

this aircraft is within the balance requirements of the TADS / HADS ☒ y

this aircraft **COMPLIES** with the balance requirements of the TADS / HADS

**summary****most aft cg position**

cg position [mm] 455.393  
weight [kg] 389.8  
fraction of cg range [%] 49.81  
inside / outside cg range **inside**  
cg limit [mm] 560.0

item	load	position [mm]
tank 1	65.0 [litre]	950.0
baggage	10.0 [kg]	950.0
pilot	55.0 [kg]	400.0
passenger	0.0 [kg]	400.0

**most aft cg position (heavy)**

cg position [mm]  
weight [kg]  
fraction of cg range [%]  
inside / outside cg range  
cg limit [mm]

item	load	position [mm]

**most forward cg position**

cg position [mm] 371.027  
weight [kg] 333.0  
fraction of cg range [%] 10.01  
inside / outside cg range **inside**  
cg limit [mm] 350.0

item	load	position [mm]
pilot	55.0 [kg]	400.0
passenger	0.0 [kg]	400.0
tank 1	0.0 [litre]	950.0
baggage	0.0 [kg]	950.0

**most forward cg position (heavy)**

cg position [mm]  
weight [kg]  
fraction of cg range [%]  
inside / outside cg range  
cg limit [mm]

item	load	position [mm]

**BMAA OFFICE USE ONLY****comments:**

this form has been checked and confirmed satisfactory ☒

signed:

R.S. Mott

name:

Rob Mott

date:

28/3/2024

MTOW [kg]	472.5
Actual Empty Weight [kg]	278.0
Total Fuel Capacity [litres]	65.0
Total Max Occupant Load [kg]	220.0
Max Misc (Baggage) Load [kg]	10.0
Cockpit Load Increment [kg]	10
Max Fuel Load [kg]	46.8
Max Cockpit Load [kg]	230
Max Fuel + Cockpit Load [kg]	276.8
MTOW - Empty Weight [kg]	194.5

FUEL LIMITATIONS PLACARD
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G-SHCK
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Cockpit Weight [kg]	Max Fuel Load [litres]
190	6
180	20
170	34
160	47
150	61
147 or below	65 (full)