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Perkoz

Flight Manual

How to use the Zeus flight computer: Mike Forster's videos

Technical Service Manual

The cockpit placards are duplicated below. Please remember that these are only a convenient reference and the placards in the aircraft could be more recent and are always the authoritative source.

It's worth noting that the Polish convention is for "÷" to denote a range, the same way "-" is used in English.

The metric equivalents are below, but again they cannot be guaranteed free of errors: The placards in the aircraft are the authoritative reference.

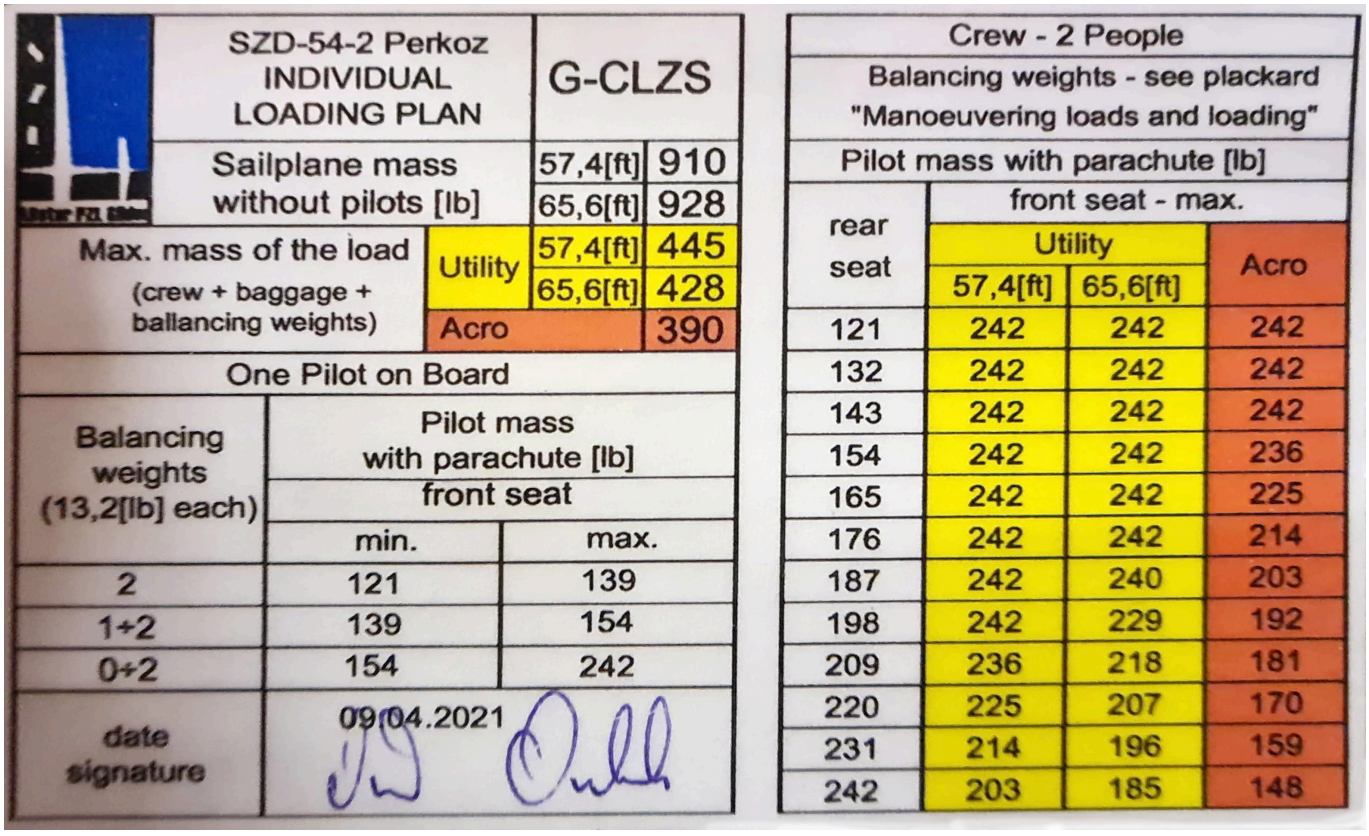
	17.5 m	**20 m**	**Acro**
Empty mass	412.8 kg	421 kg	
Max load	201.8 kg	194 kg	177 kg

Solo flight

Ballast weights (6 kg each)	min	max
2	55 kg	63 kg
1-2	63 kg	70 kg
0-2	67 kg	110 kg

Dual flight

	Front max		
Rear (kg)	17.5 m (kg)	20 m (kg)	Acro (kg)
55	110	110	110
60	110	110	110
65	110	110	110
70	110	110	107
75	110	110	102
80	110	110	97
85	110	109	92
90	110	104	87
95	107	99	82
100	102	94	77
105	97	89	72
110	92	84	67



SZD-54-2 Perkoz INDIVIDUAL LOADING PLAN		G-CLZS	
Sailplane mass without pilots [lb]		57,4[ft]	910
		65,6[ft]	928
Max. mass of the load (crew + baggage + ballancing weights)	Utility	57,4[ft]	445
		65,6[ft]	428
	Acro		390

One Pilot on Board

Balancing weights (13,2[lb] each)	Pilot mass with parachute [lb] front seat	
	min.	max.
2	121	139
1+2	139	154
0+2	154	242
date signature	09.04.2021	

Crew - 2 People Balancing weights - see plackard "Manoeuvering loads and loading" Pilot mass with parachute [lb]			
rear seat	front seat - max.		
	Utility		Acro
	57,4[ft]	65,6[ft]	
121	242	242	242
132	242	242	242
143	242	242	242
154	242	242	236
165	242	242	225
176	242	242	214
187	242	240	203
198	242	229	192
209	236	218	181
220	225	207	170
231	214	196	159
242	203	185	148

SZD-54-2 Perkoz MANOEUVRING LOADS AND LOADING			CATEGORY	
			U	A
Manoeuvring load factor limits		n	+5,3 -2,65	+7,0 -5,0
Maximum in-flight mass [lb]			1356	1301
Pilot with parachute mass [lb]	front seat (m_1)	max	242	
		min	121	
	rear seat (m_2)	max	242	
Application of balancing weights	m_1	m_2	weights	
One Pilot on Board [lb]	121÷139	-	26,4	
	139÷154	-	min. 13,2	
	≥154	-	acceptable	
Crew - 2 People [lb]	121÷139	<121	26,4	
	139÷154	<121	min. 13,2	
	<154	≥121	conditionally	
	154÷209	any	conditionally	
	≥209	any	forbidden	
Maximum mass in baggage compartment [lb]			44	
Solo flying from front seat only				
Maximum total load on both seats and in baggage compartment - see Individual Loading Plan for this sailplane				

SZD-54-2 Perkoz
ALLOWED AEROBATICS MANOEUVRES

Acro		Utility
spin	inverted spin	spin
loop	inverted loop	loop
stall turn	inverted s.t.	stall turn
climbing turn	tail slide	climbing turn
steep turn	Immelman turn	steep turn
lazy eight	eight	lazy eight
Cuban eight	inverted C.e.	
half roll and half loop	controlled half roll and half loop	
flick roll	inverted f.r.	
flick roll downward	inverted f.r.d.	
flick roll in downward angle	inverted f.r.d.a.	
slow roll	barrel roll	

Build photos

From:
https://pilots.scottishglidingcentre.co.uk/ - **Portmoak Pilot's Information and Airfield Manual**

Permanent link:
https://pilots.scottishglidingcentre.co.uk/aircraft/perkoz/start

Last update: **2023/03/12 12:53**