

2.15 Limitations Placards

This placard is affixed to the right-hand cockpit wall and contains the most important weight (mass) and speed limitations.

Segelflugzeugbau Alexander Schleicher GmbH & Co. Poppenhausen	
Model: ASW 27	Serial-No.: 27 . . .
Datenschild und Trimmplan	
Empty Mass (Weight):	kg
Max. Mass (Weight):	1102 lbs 500 kg
Minimum Seat Load:	kg
Maximum Seat Load:	kg
Max. Permissible Speeds:	
Calm Air	154 kts 285 km/h
Winch Launch W/T	70 kts 130 km/h
Aerotow A/T	92 kts 170 km/h
Extending Landing Gear	100 kts 185 km/h
Maneuvering Speed	116 kts 215 km/h
Weak Link for Aerotow & Winch Launch	1235 to 1455 lbs 560 to 660 daN
Tire Pressure: Main Wheel	2.1 to 2.5 bar (30 to 36 psi)
Tail Wheel	2.4 to 2.6 bar (34 to 38 psi)

This placard is to be glued below the data placard.

Reduced minimum cockpit load
without trim ballast in the fin:
see flight manual - Page 6.4

This placard is to be glued near the data placard.

Following aerobatic manoeuvres are approved without waterballast and only in flap setting A !	ASW 27
Looping (positive)	
Lazy Eight	
Chandelle	
Stall Turn	
Steep Turn, max. bank angle 70°	

This placard is to be glued near the data placard.

When water ballast is used pilots weighing
105 kg (231.5 lbs.) incl. parachute or more
must use the rearmost back rest hinge position!

The anchor points of the lap straps are fixed in such a relation to the seat pan that the seating position described above is maintained and submarining (sliding forward from underneath) is extremely remote. The geometry of the seat is designed such that tall pilots are comfortably seated. For tall pilots, we recommend the use of thin parachute packs of the latest type.

WARNING: Pilots weighing more than 105 kg (231,5 lbs.) including parachute, must only use the rearmost back rest position in order not to exceed approved forward c. g. - limits.

Very short pilots must adjust their seating position by means of a firm cushion (energy absorbing semi-rigid foams are optimum) so that all controls are within comfortable reach, that their view to the outside is improved.

A small pilot is positioned high enough when the instrument panel does not restrict the forward view. The instrument cover is so designed that the panel edge is in line with the front contour of the glas.

For all sizes of pilots it is very important to adjust and lock the backrest such that they are prevented from sliding aft during the initial take-off (winch-launch) acceleration.

For the same reason the cushions used must be sufficiently rigid and stiff.



Carefully ensure that the lever of the eccentric winch of the backrest is locked!

This placard is not installed, when the optional light weight version of the back rest is used, which engages into 5 holes in a gate at the cockpit wall. Then the winch to adjust back rest inclination is also not installed.

7.5.2 Safety harness

The safety harness is anchored in such a way that it cannot jam the control runs underneath the seat pan.

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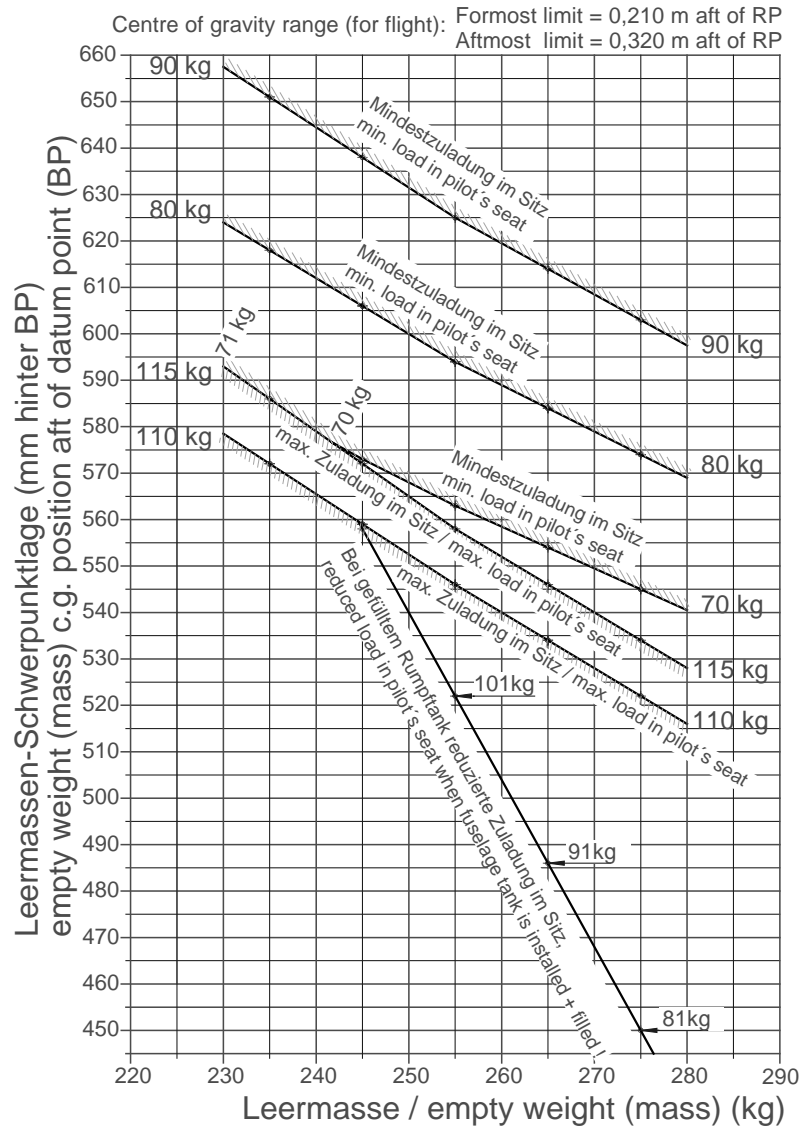
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Fig. 6.4 - 1 Diagram of Empty Weight (Mass) C. G. Position



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Following aerobatic manoeuvres are approved without waterballast and only in flap setting A !

ASW 27

- Looping (positive)
- Lazy Eight
- Chandelle
- Stall Turn
- Steep Turn, max. bank angle 70°

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