

SZD-55-1

"... a serious contender for the title of the world's best"

The SZD-55-1 is a very modern high-performance Standard Class sailplane designed for the serious competition pilot. At the same time, the very good characteristics and maneuverability make it a perfect plane both for aero clubs and for skilled pilots. Its outstanding performance in a wide range of soaring conditions constantly places it at the top in international soaring competitions.

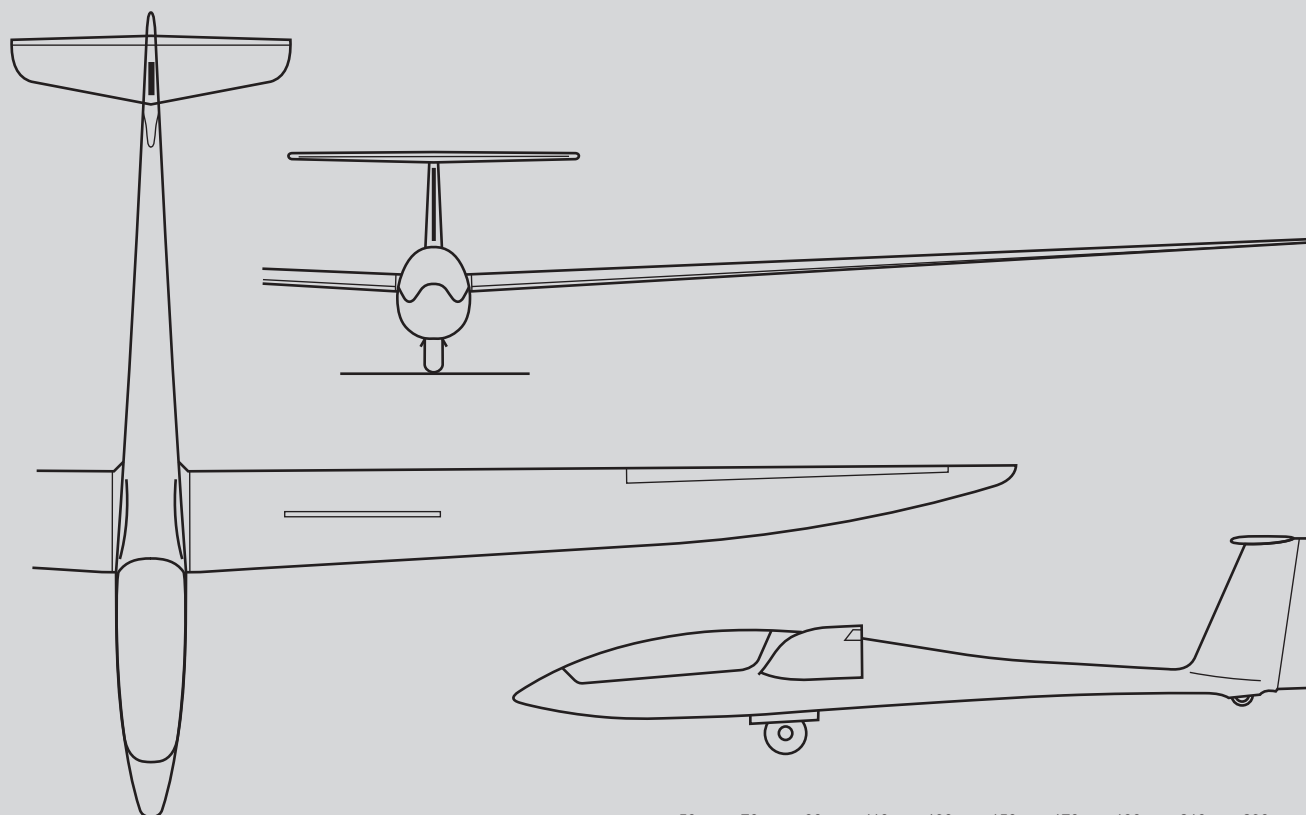
The SZD-55's exceptional performance has been achieved through the use of a unique trapezoid/elliptical wing shape in conjunction with a specially designed NN-27 airfoil, which has been optimized to function well without reliance on winglets, turbulators or other devices.

Equally important are advances in engineering and manufacturing technology, which result in a very low empty weight of around 215 kg without sacrificing strength or relying on exotic materials. With the lowest empty weight in its class and provision for up to 195 kg of water ballast, the SZD-55-1 has exceptional operating flexibility. And with its elevator trim on the control stick and a small tail ballast tank, the sailplane can be precisely trimmed for any flight condition. Pilot comfort has not been overlooked either. The SZD-55's comfortable ergonomic cockpit features a fully adjustable backrest and in-flight adjustable rudder pedals. The wings weight of only 55 kg and fully automatic coupling of all controls makes the SZD-55-1 a dream ship for the ground crew as well as the pilot.

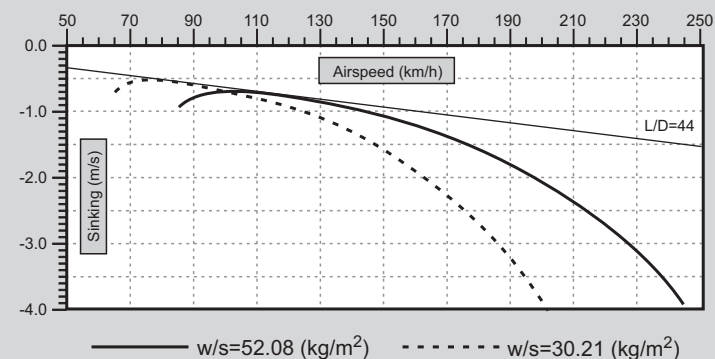
Careful attention to every design detail has made the SZD-55-1 the top performing standard class sailplane with > 43:1 glide ratio (measured) and thermalling power that far surpasses its rivals. Furthermore, the SZD-55 is also regarded by experienced pilots as one of the most pleasant high performance sailplanes to fly.

The SZD-55-1... It's the one to fly if you fly to win!

Design life: 15.000 hours
Actually approved operation time 6.000 hours and a possibility of 1.500 hours of extension, further extension applied.
Factory warranty: 24 months.



Span	m	15.00
Lenght	m	6.85
Height	m	1.47
Wing area	m ²	9.60
Aspect ratio		23.44
Empty Glider mass	kg	215+5
All-Up mass	kg	500
Wing loading range	kg/m ²	28.50 - 52.10
Load factors	+ -	5.30 2.65
Maximum L/D		44.10
at	km/h	119.40
Stalling speed	km/h	84 (at 500 kg)
Minimum sinking speed at	m/s km/h	0.68 100,40
Never exceed speed	km/h	255



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