

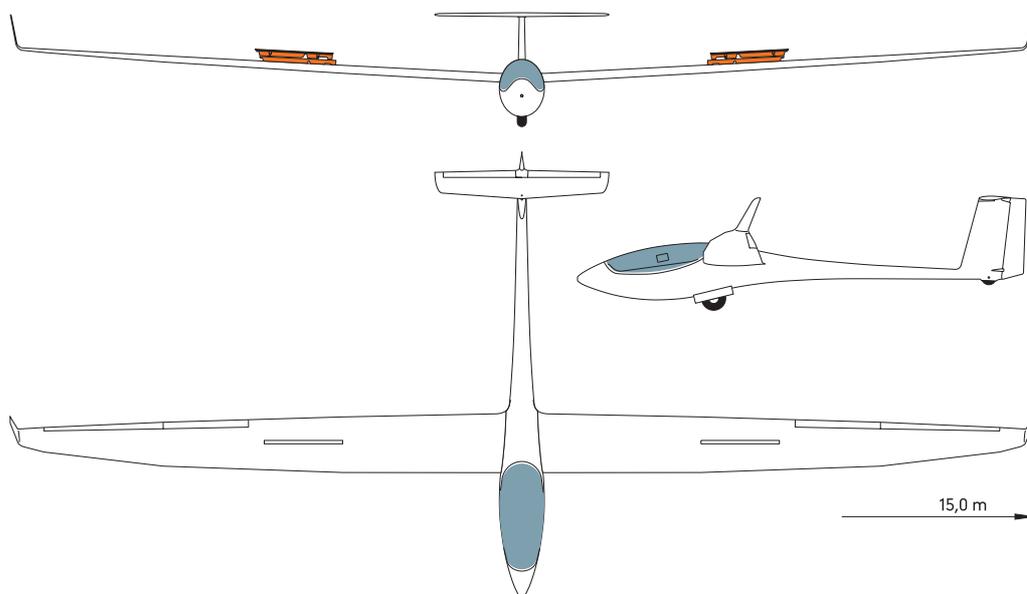


ASW 28

you get more than Standard
- a Class by itself



...competence right from the beginning



ASW 28

Cockpit

The ASW 28 is Schleicher's new high performance glider for the FAI-Standard Class with 15m span. Moreover, this glider will be type-certified for cloud flying and semi-aerobatics. The roomy safety cockpit of the ASW 28, designed to latest research results in the field of safety and crashworthiness, offers all modern comforts and ease of operation, even for tall pilots. The rubber-shock-mounted, retractable landing gear using a big 350 x 125 tire and hydraulic disc brake, and with "crush zone" in the steel struts (in case of overload), the adjustable back rest, the upwards hinging instrument panel and the speed trim, are only some of the many available conveniences.

Wings

The high performance wing airfoil with boundary layer control by means of turbulator holes, combined with an outstanding construction quality, imparts to the ASW 28 flight performances that are superior to those of the former "Racing Class" gliders. Due to the high construction quality of the wing and of the control surface gap sealing it has been possible to build a production wing with a laminar airflow of 85% along the profile underside. The sophisticated control linkage system gives high maneuverability and docile flight characteristics, even in landing approach.

Tailplane

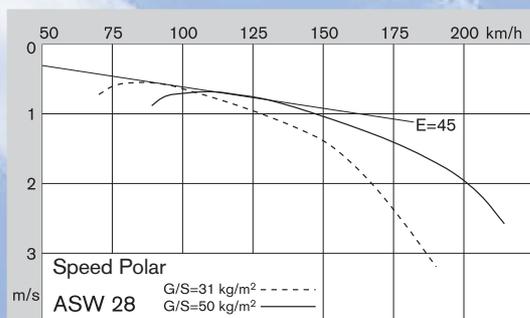
The low-drag airfoil of the T-tail (elevator with stabilizer) was developed by the Delft University of Technology. Elevator and rudder are new-technology sandwiches of Aramid fiber / plastics with a hard foam core. All control surface hinges of the wing and of the horizontal tail unit use needle bearings or low-maintenance plastic bearings. The actuating levers and bellcranks are fitted with either ball bearings, precise uniball-joints, or very-low-friction-type, plastic coated sliding bearings. While the desirable feedback from the air loads at the control surfaces can still just be felt at the stick, the hand forces for the pilot are comfortable, - a pre-condition for non-fatiguing flying.

Technical Data

Span incl. Winglets	15 m	49.21 ft
Wing area	10.5 m ²	113.02 sqft
Wing aspect ratio	21.43	
Fuselage length	6.585 m	21.6 ft
Cockpit seat height	0.80 m	2.62 ft
Cockpit width	0.64 m	2.1 ft
Height at tailplane	1.3 m	4.26 ft
Winglet height	0.5 m	1.64 ft
Wing airfoil: Center part	DU 99-147	
Aileron section	DU 99-147 M1	
Outer wing	DU 99-147 M2	
Winglet airfoil	DU 99-125	
Empty mass (min. equipment)	240 kg	529 lb
Max. take-off mass	525 kg	1157.6 lb
Mass of one wing	62 kg	136 lb
Max. wing loading	50 kg/m ²	10.24 lb/sqft
Min. wing loading	30 kg/m ²	6.14 lb/sqft
Water ballast, max.	200 l	52.8 US gal
Useful load, max.	130 kg	286.7 lb
Useful load pilot seat, max.	115 kg	253.6 lb
Max. speed	270 km/h	145 kts
Maneuvering speed	200 km/h	108 kts

For 325 kg (716 lb) flight mass:

Min. speed	70 km/h	38 kts
Min. sink	0.55 m/s	108.3 ft/min
Best glide ratio (@ 92 km/h)	45	



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