

# RS-15

A single-seat high-performance sailplane designed for construction in the home workshop environment. It features 60 degree flaps for landing. The wing is based on an aluminum box spar that also carries 200 lbs of water ballast. The wing ribs are 3/8" Klegecell foam, skinned with aluminum sheet. The forward fuselage is molded GRP, and the aft fuselage is a 6" diameter aluminum boom.

## RS-15 Specifications

Span	49.2ft	15.0 m
Length	22.0ft	6.71 m
Height, ground to stab tips	46.0 in	1.17 m
Wing Area	113.0 sq ft	10.5 sq m
Aspect ratio	21.4	
Dihedral	2.3 degrees	

Flaps -12 to 60 degrees

Empty weight	440 lbs	199.5 kg
payload	300 lbs	136.1 kg
Water ballast	200 lbs	90.7 kg
Dry gross wt	740 lbs	335.6 kg
Ballasted gross wt	940 lbs	426.4 kg

Max airspeed,	rough air	120 mph	193 kph
	smooth air	150 mph	241 kph
	aerotow	120 mph	193 kph
	winch or auto tow	90 mph	145 kph

L/D Max	38:1	
Minimum sink, 626 lbs, 46 mph	2.1 fps	.64 mps
Stall speed	Flaps 0, 740 lbs	46 mph 74 kph
	Flaps 60, 740 lbs	37 mph 60 kph

