

HP-24T

A single-seat high-performance sailplane designed for construction in the home workshop environment. It features either spoilers or 90 degree flaps for glidepath control. The wing is based on a spar built with pultruded carbon fiber strips. The rest of the wing is a combination of hollow foam core and prefabricated exterior skins. The fuselage and vertical fin is molded GRP. The cockpit has been specifically sized to provide comfortable seating for a 6'2", 240 lb pilot, and to accommodate pilots up to 6'6" and 300 lbs.

HP-24 Specifications

Span	49.2ft/59ft	15.0 m/18 m
Length	23.2 ft	6.93 m
Height, ground to stab tips	52.1 in	1.22 m
Wing Area	105.0 sq ft	9.75 sq m
Aspect ratio	23.0	
Dihedral	3.2 degrees	
Flaps	-5 to 90 degrees (flaps-only option) -5 to 10 degrees (spoilers option)	
Empty weight	525 lbs	238.6 kg
Max payload (15m)	300 lbs	136.4 kg
Water ballast	200 lbs	90.7 kg
Dry gross wt	825 lbs	375.0 kg
Ballasted gross wt	1025 lbs	465.9 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	43:1	
Minimum sink, 656 lbs, 46 mph	1.8 fps	.55 mps
Stall speed Flaps 0, 770 lbs	42 mph	67 kph

