

Specifications

Dimensions		
Wing Span	49.22 ft	15.00 m
Length	21.95 ft	6.69 m
Fuselage Height	5.15 ft	1.57 m
Wing area	134.67 ft ²	12.51 m ²
Wing loading at full-up weight	6.23 lb/ft ²	30.40 kg/m ²
Aspect ratio	18	
Dihedral of Wing	3°	

Critical Speeds (at 333 kg, 734 lbs all up weight)			
Stall Speed	32 Kts	37 mph	60 km/h
Min. Sink Rate	1.13 Kts	114 fpm	0.58 m/s
at speed	38 Kts	43 mph	70 km/h
Best Glide ratio (measured)	35:1		
at speed	43 Kts	50 mph	80 km/h
Max. Winch Launching Speed	70 Kts	81 mph	130 km/h
Max. Aerotowing Speed	81 Kts	93 mph	150 km/h
Max. Rough Air Speed	84 Kts	96 mph	155 km/h
Maneuvering Speed	84 Kts	96 mph	155 km/h
Never Exceed Speed (Vne)	119 Kts	137 mph	220 km/h
Max. Airbrake Speed in Smooth Air	119 Kts	137 mph	220 km/h
Max. Airbrake Speed Rough Air	84 Kts	96 mph	155 km/h

G-limits	
Positive	+5.3
Negative	-2.65

Sailplane Weights		
Max All-Up Weight	838 lbs	380 kg
Empty Weight (of MSC's Junior)	496 lbs	225 kg
Wing Weight	121 lbs	55 kg
C.G. Location (of MSC's Junior)		72.6 cm

Pilot Weight Ranges		
Min. Pilot Weight	121 lbs	55 kg
Max. Pilot Weight	243 lbs	110 kg
**** Back-rest must be in full forward position for pilots 126 lbs or less.		
**** Back-rest must be removed for pilots 238 lbs or more.		

Miscellaneous	
N-Number	N511SN
Serial Number	X-132
Year of Manufacture	1983
Country of Origin	Poland
Manufacturer	PZL Bielsko
Designer	Stanislaw Zientek
Airfoil (Main)	Wortmann SO2-196
Airfoil (Tips)	Wortmann SO2-158
Automatic Control Connections	Y
Adjustable rudder pedals	Y
TE probe installed	Y
Nose Hook	Y
CG Hook	Y
Airworthiness Certificate	N
Handicap (CH98)	1.025

Polar Data Points	
Airspeed km/h	Sink m/s
70	0.58
80	0.63
100	0.96
110	1.16
120	1.37
130	1.60
140	1.88
150	2.22
160	2.67
170	3.12
180	3.60

Polar Data Points	
Airspeed mph	Sink m/s
43	0.58
50	0.63
62	0.96
68	1.16
75	1.37
81	1.60
87	1.88
93	2.22
99	2.67
106	3.12
112	3.60