

## ASK-21 Technical Data N221CW

Utility Category, VFR, Aerobatic Cat. A

Wingspan	55.74'
Length	27.4'
Height	5.05'
Aspect Ratio	16.1
Wing Area	192.96 sq ft
Glide Ratio	34:1
	Still Air – 156' loss per SM; 176' loss per NM; 6.4 SM per 1000')
Empty Weight	836.4 lbs.
Max Weight	1322.8 lbs
Aero Tow weak Link	600 daN = 1348 lbs (600 x 1lb/0.4448222 daN = 1348 lbs.)
VNE - Calm Air	151.2 kts (174 mph)
VB – Rough Air	108.0 kts (124.3 mph)
VM – Maneuvering	97.2 kts (112 mph)
VLE – Airbrakes extended	151.2 kts (174 mph)
VSO – airbrakes retracted	35 kts (40.4 mph)
VS1 – airbrakes extended	37 kts (42.3 mph)
Max Aero Tow	97 kts. Recommended 50-75 kts. (expect lift off @ 40 kts)
G limits at VM	+6.5, -4
G limits at VNE	+5.3, -3.0 (only 1/3 control deflections permitted)
Airspeed Indicator Markings	Red line = 151.2 kts Yellow Arc (caution) = 97.2 – 151 kts Green Arc (normal range) = 43.0 – 97 kts Yellow Triangle (approach speed) = 49 kts (=37 kts x 1.324)
Crew Wt. Limits	Front Seat – Min = 154 lbs; Max = 242 lbs Rear Seat – Max = 242 lbs Note: With two max wt. occupants, g.w. = 1320.4 lbs Note: 1 lead disk = 2.2 lbs = 2.76 lbs pilot wt.; 12 disks = 33.07 lbs.
Baggage Compartment	Max 22 lbs.
CG Range	9.21 in. – 18.46 in. behind Datum line; 20%-41.1% MAC (pg. 13)