

012009 Babe : Ken Wiesner's Full Scale Citabria.



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Ken's new pride and joy will soon be gracing the skies of BC.



Full specs are contained on the following pages.



Specifications:

Powerplant	Lycoming O-235-K2C
Horse Power @ RPM	118 @ 2800 rpm
Recommended Engine TBO	2400 hours
Propeller	Sensenich 72CKS8-0
Propeller Diameter	72 in.
Length	22.1 ft.
Height	7.7 ft.
Wingspan	33.5 ft.
Wing Area	165 sq. ft.
Wing Loading	10.0 lb. / sq. ft.
Power Loading	14 lb. / HP
Seats	2, Tandem
Cabin Length	8 ft. 10 in.
Cabin Width	2 ft. 6 in.
Cabin Height	3 ft. 11 in.
Empty Weight (typical)	1120 lbs.
Maximum Gross Weight	1750 lbs.
Useful Load	630 lbs.
Payload with Full Fuel	420 lbs.
Fuel Capacity	36 gal. (35 gal. Usable)
Oil Capacity	6 quarts
Baggage Capacity	100 lbs. (10.4 cubic feet)

Performance:

Acrobatic Limit Loading	+5, -2 g's
Takeoff Distance, Ground Roll	650 ft.
Takeoff Distance Over 50-ft Obstacle	1050 ft.
Maximum Demonstrated Crosswind Component	17 kts.
Rate of Climb, Sea Level	740 fpm
Maximum Level Speed, Sea Level	120 mph
Cruise Speed / Endurance with 45 Minute Reserve @ 75% Power	115 mph / 5.1 hours
Fuel Consumption @ Altitude	6 gph @ 8000 ft.
Service Ceiling	11500 ft.
Landing Distance over 50-ft. Obstacle	885 ft.
Landing Distance, Ground Roll	520 ft.

Limited and Recommended Airspeeds:

V _X (Best Angle)	60 mph
V _Y (Best Rate)	77 mph
V _A (Design Maneuvering)	120 mph
V _{NO} (Maximum Structural Cruising)	120 mph
V _{NE} (Never Exceed)	162 mph
V _R (Rotation)	58 mph
V _{S1} (Stall, Clean)	52 mph