

Citabria Aurora Model 7ECA Specifications

Specifications:

Powerplant	Lycoming O-235-K2C
Horsepower @ RPM	118 @ 2800 rpm
Recommended Engine TBO	2400 hours
Propeller	Sensenich 72CK58-0
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
Max 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, -2g's
Take off Distance, Ground Roll	650 ft
Take off Distance over 50 ft obstacle	1050 ft
Max Demonstrated Crosswind Component	17 kts
Rate of Climb, Sea Level	740 fpm
Max Level Speed, Sea Level	120 mph
Cruise Speed/Endurance	
with 45 min 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)	50 Kts
V _y (Best Rate)	60 Kts
V _a (Design Maneuvering)	104 Kts
V _{no} (Max Structural Cruising)	104 Kts
V _{ne} (Never Exceed)	141 Kts
V _r (Rotation)	50 Kts
V _{s1} (Stall, Clean)	45 Kts
Best Glide	56 Kts