



Symphony 160 Specifications and Performance

	<u>English</u>	<u>Metric</u>
Cruise, 60% power at 10,000 ft		
Time	3.3 hrs	3.3 hrs
Range	385 nm	714 km
Engine: Lycoming O-320 D2A\ 160 hp @ 2700 RPM		
Power Loading	13.4 lbs/hp	8.19 kg/kw
Propeller: Fixed Pitch, Diameter	73 in	1854 mm
Rate of Climb Sea level	710 fpm	3.6 m/s
Service Ceiling	16,400 ft	5,000 m
Speed		
Max at Sea Level	130 ktas	240 km/h
75% at 8,000 ft	128 ktas	237 km/h
Stall Speeds		
Flaps Up, Power off	60 kts	111 km/h
Flaps Down, Power off	51 kts	94 km/h
Operating Speeds		
Va/Vo Manoeuvring Speed Flaps up	116 kts	215 km/h
Vfe Max Flap Extend Speed	90 kts	167 km/h
Vne Never Exceed Speed	162 kts	300 km/h
Vno Max Structural Crusing Speed	130 kts	241 km/h
Vs Stalling speed in Normal Configuraion	60 kts	111 km/h
Vso Stalling Speed in Landing Configuration	51 kts	94 km/h
Vx Best Angle of Climb Speed	70 kts	130 km/h
Vy Best Rate of Climb Speed	80 kts	148 km/h
Approach Speed Full Flap	65 kts	120 km/h

Max Demonstrated X Wind Takeoff	20 kts	37 km/h
Max Demonstrated X Wind Landing	17 kts	31 km/h
Best Glide Speed Flaps Up	74 kts	137 km/h
Best Glide Speed Flaps Down	65 kts	120 km/h
Takeoff Performance		
Ground Roll	982 ft	299 m
Over 50 ft Obstacle	1309 ft	399 m
Landing Performance		
Ground Roll	715 ft	217 m
Total over 50 ft Obstacle	1827 ft	556 m
Wing Loading	16.73 lbs/ft ²	81.7 kg/m ²

Approx Dimensions

Baggage Door

Height (front)	10 in	254 mm
Height (Rear)	16 in	405 mm
Width	26 in	660 mm
Sill Height	35.5 in	900 mm

Baggage Compartment

Height Front	30.3 in	770 mm
Height Rear	17.7 in	450 mm
Width Front	33.4 in	870 mm
Width Rear	17.3 in	440 mm
Overall Length	49.4 in	1225 mm
Volume	30.72 cu ft	870 L

Cabin

Height (Max)	44.8 in	1140 mm
Length (Firewall to aft Baggage Area)	97.4 in	2474 mm
Width (Front Seat)	43.3 in	1100 mm

Cabin Door

Height (Rear)	31.5 in	800 mm
Width (Top)	23 in	585 mm
Width (bottom)	31.7 in	805 mm
Sill Height	33 in	840 mm

Overall Height	9'3"	ft	2.82	m
Overall Length	22'10"	ft	6.96	m
Wing				
Span	35	ft	10.67	m
Area	128	sq ft	11.9	sq m

Design Weights & Capacities

Baggage Allowance	165	lbs	75	kg
Fuel Capacity				
Total Capacity	32.2	gal	122	L
Total Useable	29.1	gal	110	L
Total Capacity Each Tank	16.1	gal	61	L
Landing Weight	2150	lbs	975	kg
Max Useful Load	700	lbs	318	kg
Oil Capacity	8	qt	7.6	L
Ramp Weight	2150	lbs	975	kg
Standard Empty Weight	1450	lbs	658	kg
Takeoff Weight	2150	lbs	975	kg