

About the Piper PA 31-350 "Chieftain"

Agape Flights uses the Piper 31-350 "Chieftain" as our backup/multi-role ship. This plane is equipped to carry both cargo and passengers.

The Chieftain, N600AB, was built in 1974 by the Piper Aircraft Corporation.

It is certified for day or night flight, operating under visual or instrument flight rules and known icing conditions.



Weights and Loadings

Max. Ramp Weight: 7,448

Max Takeoff Weight: 7,368

Empty Weight: 4,540

Useful Load: 5,294

Max Agape Cargo Load: 1,750 lbs

Fuel Capacity: 182 gallons

Wing Loading: 32.21 lbs per square foot

Power Loading: 10.53 lbs/HP

Performance

Stall Speed V_{so}: 67 kias

V_{fe}: 130 kias

V_{le/lo}: 130 kias

V_{mo}: 236 kias

Rate of Climb: 1,050 fpm

Takeoff Ground Roll: 1,400 feet

Max Ceiling: 28,300 feet

Cruise Performance: 165 knots

Range and Endurance

At 165 ground speed, fuel consumption of 230 pounds per hour, range is 4.8 hours or 800 nautical miles

Powerplant: Lycoming (L)TIO-540-J2BD

Takeoff power @ 2,575 RPM: 350 hp

Max continuous power: 315 hp @ 2,400 RPM

Propeller

Constant speed, fully feathering

Diameter: 80 inches

Prop tip clearance: 13.5 inches

Fuselage

Cabin Width: 50.5 inches

Cabin Height: 52.0 inches

Cabin Length: 154.5 inches

Rear Cargo Door Width: 25.5-43.5 inches

Height: 30-46 inches

Dimensions

Width: 40.67 feet

Length: 34.63 feet

Height: 13.00 feet

Minimum Turning Radius: 49.6 feet

