

Eight Passenger Business Jet Design Specification

Purpose: Competitive alternative to the Cessna Citation X, Dassault Falcon 2000, and Bombardier Learjet 60 business jets.

Payload: 8 passengers at 175 lb. each plus baggage at 45 lb. each but must have seating for 18 passengers for short range flights.

Crew: 2 flight crew at 175 lb. each plus baggage at 30 lb each
1 cabin attendant at 130 lb. each plus baggage at 30 lb. each

Range with design payload of 8 passengers: 4000 n. mi.

Reserve fuel: NBAA reserves

Cruise altitude: 40,000 ft.

Long range cruise speed: Mach number 0.82

Climb direct to 40,000 ft. at maximum takeoff weight

Takeoff field length: 5,000 ft. at Sea Level, standard day, at maximum takeoff weight

Landing field length: 3,500 ft. at Sea Level, standard day, at maximum landing weight

Powerplants: 2 BPR 6.0 turbofans

Pressurization: 5,000 ft cabin altitude at 40,000 ft cruise altitude

Certification basis: FAR Parts 25 and 135

Mission profile: NBAA operations (see document "Mission Profiles")