

Design Specification

Purpose: Medium range business jet, competitive with the Cessna Citation X, Dassault Falcon 2000, and Bombardier Learjet 60

Payload: 8 passengers at 175 lbs. each plus baggage at 40 lb. per passenger (must have seating for 18 passengers for shorter range flights)

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

Range: 4000 n.mi.

Reserve fuel: NBAA

Cruise altitude: 40,000 ft.

Long range cruise speed: M 0.82

Climb: Direct to 40,000 ft. at maximum takeoff gross weight Takeoff field length: 5000 ft. at S.L. 59-F at maximum takeoff gross weight

Landing field length: 3500 ft. at S.L. 59F at maximum landing weight

Powerplants: 2 turbofans

Pressurization: 5000 ft. cabin altitude at 40,000 ft pressure altitude

Certification basis: FAR Part 25 and Part 135

Mission Profile: NBAA Mission (see document "Mission Profiles")