

## Mission Specification

Purpose: Competitive alternative to the Eclipse 500, Cessna Mustang, and Embraer Phenom small capacity, short range very light jets (VLJs) designed for single pilot operation

Payload: 4 passengers at 175 lb. each, plus baggage at 30 lb. each for design mission.  
Must be able to seat 6 passengers for shorter range flights.

Crew: 1 flight crew at 175 lb. each plus baggage at 30 lb. each

Range with design payload: 1400 n.mi.

Reserve Fuel: NBAA Reserves

Cruise altitude: 35,000 ft.

Long range cruise speed: Mach number 0.70

Climb direct to 35,000 ft. at maximum takeoff gross weight

Takeoff Field Length: 3,500 ft at Sea Level, standard day conditions, at maximum takeoff weight

Landing Field Length: 2,500 ft. at Sea Level, standard day conditions, at maximum landing weight

Powerplants: 2 BPR 6.0 turboprops

Pressurization: 5,000 ft. cabin altitude at 35,000 ft. cruise altitude

Certification basis: FAR 23

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