

Mission Specification

Purpose: Competitive alternative to the Boeing 787-8 or Airbus A350 WBX medium capacity, long range commercial jet transport

Payload: 223 passengers at 175 lb. each, plus baggage at 30 lb. each in 3-class seating

Crew: 2 flight crew at 175 lb. each plus baggage at 30 lb. each
7 cabin attendants at 130 lb. each plus baggage at 30 lb. each

Range with design payload: 8500 n.mi.

Reserve fuel: FAR 121 International Reserves with 100 n. mi. alternate

Cruise altitude: 37,000 ft.

Long range cruise speed: Mach number 0.85

Climb direct to 37,000 ft. at maximum takeoff gross weight.

Takeoff Field Length: 10,000 ft at Sea Level, standard day conditions, at maximum takeoff weight

Landing Field Length: 7,500 ft. at Sea Level, standard day conditions, at maximum landing weight

Powerplants: 2 BPR 8.0 turbofans

Pressurization: 5,000 ft. cabin altitude at 37,000 ft. cruise altitude

Certification basis: FAR 25 and 121

Mission profile: FAR Part 121 International Operations (see document "Mission Profiles")