

EMB 170
Design Specification

Purpose: Competitive alternate to the Embraer 170 regional jet transport

Payload: 70 passengers at 175lbs each plus baggage at 30 lb. each

Crew: 2 pilots at 175 lb. each plus baggage at 30 lb. each
3 cabin attendants at 130 lb. each plus baggage at 30 lb. each

Range with full passengers and baggage: 2200 n.mi.

Reserve fuel: NBAA Reserves

Cruise altitude: 30,000 ft.

Long Range Cruise speed: Mach 0.80

Climb: direct to 30,000 ft. at maximum takeoff weight

Takeoff Field Length: 5000 ft. at sea level, standard day, at maximum takeoff weight

Landing Field Length: 4000 ft. at sea level, standard day, at maximum landing weight

Powerplants: 2 turbofans

Pressurization: 5000 ft. cabin altitude at 30,000 ft.

Certification basis: FAR Part 25

Mission Profile: FAR Part 121 Domestic Operations (see document "Mission Profiles")