

Mission Specifications For A Business Jet

Payload	8 Passengers at 200 lbs. and 40 lbs. of Baggage Each
Crew	2 Pilots and 1 Flight Attendant at 175 lbs. and 30 lbs. of Baggage each
Range	1400 nm From Imam Khomeini International as a Departure Airport to Moscow Sheremetyevo International Airport as an Arrival Airport, Followed by 0.5 Hour Loiter, Followed by 300 nm Flight to Alternate
Altitude	40000 ft as Cruising Altitude
Climb	Direct Climb to 40000 ft. in 25 Minutes. , $W_{T.O}$ is Desired
Cruise Speed	0.8 M as Normal Cruise Speed
Take-off and Landing	Far 25 Field length 5000 ft.at an Elevation of 5700 ft. and a 100.4 °F Day for Kerman Airport
Power Plants	Two Turbofans
Pressurization	6000 ft. at 45000 ft.
Certification Base	FAR 25

