

1 概要

以下に示す設計要求を満たす航空機のサイジングを行う。なお, 設計要求から, Blended Wing Body 型として見積もりを行う。

表 1 設計要求

Payload	420Passengers(excluding 2 Pilots & Cabin attendants)
Range	7500nm with max. payload,alternate airport(200nm) and 45min. loiter
Altitude	38,000ft for the design Range
Cruise Speed	M0.8
Climb	as required in FAR25.
Take off & landing	10,000ft take-off field length at sea level 7000ft landing field length at $W_L = 0.8W_{TO}$ at sea level
Powerplants	Turbo Fan
Certification Base	FAR25
Max. landing weight ratio	0.88