PRINCIPAL DIMENSIONS AND AREAS

Overall Airplane

- Length - 109 feet-7 inches (737-300)
- Length - 119 feet-7 inches (737-400)
- Length - 101 feet-9 inches (737-500)
- Width - 94 feet-10 inches
- Height (vertical stabilizer tip, top of the fairing to the ground) - 36 feet-6 inches

Wing

- Root Chord (theoretical, at the body centerline) - 288.09 inches
- Basic Chord (theoretical) - 186.72 inches
- Tip Chord (theoretical) - 63.83 inches
- Planform Taper Ratio
- Dihedral (wing reference plane with respect to the body reference plane) - 6 degrees
- Sweepback (25 percent chord line) - 25 degrees
- Aspect Ratio - 9.16
- Mean Aerodynamic Chord (basic wing only) - 134.46 inches
- Body Station at 0% MAC - 625.60

Horizontal Stabilizer

- Tip chord (theoretical) - 60 inches
- Sweepback (25 percent chord line) - 30 degrees
- Dihedral (horizontal stabilizer reference plane with respect to the body reference plane) - 7 degrees
- Aspect Ratio - 4.04
Vertical Stabilizer

- Height - inches
- Root Chord (theoretical, leading edge at body station 971.81) - 205 inches
- Sweepback (25 percent chord line) - 35 degrees
- Aspect Ratio - 1.81

Fuselage

- Height of the body reference plane (top of the floor beam WL 208.10) above the ground at the main gear - 102.10 inches
- Height (constant cross section) Above the body reference plane - 98.4 inches Below the body reference plane - 59.60 inches
- Height to the centerline of the windows above the body reference plane - 38 inches
- Length - 1267 inches (737-300)
- Length - 1387 inches (737-400)
- Length - 1173 inches (737-500)

Areas

- Wing (basic) - 980.0 square feet
- Horizontal Stabilizer Surfaces (total, with the area in the fuselage) - 545 square feet
- Vertical Stabilizer Surfaces (total) - 370 square feet
BODY STATION DIAGRAM

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http://www.ACTechbooks.com
(970) 726-5111
1. THE FIN STATIONS ARE PERPENDICULAR TO THE 55% LINE
2. THE LEADING EDGE STATIONS ARE PERPENDICULAR TO THE LEADING EDGE
3. THE RUDDER STATIONS ARE PERPENDICULAR TO THE 75% LINE
4. THE VERTICAL STABILIZER RIBS FROM FIN STATION 81.10 TO FIN STATION 292.70 ARE ON 9.2 INCH CENTERS
5. TO CONVERT THE FIN STATION AT THE FRONT SPAR (10%) LE STA = FIN STA 1.01756521 + 3.59150051
6. TANGENT A = 0.52293481
   TANGENT B = 0.78884390
   TANGENT C = 0.84793481