

| | | |
|---|---|----------------|
| Airspeed Limits (IAS) | V _{MO} (Maximum operating) | |
| | Sea level | 340 kts |
| | 19500 feet | 352 kts |
| | M _{MO} (Maximum operating) | |
| | 19500 feet and above | M = 0.75 (IMN) |
| | V _A (Maneuvering) | |
| | 18300 lb gross weight | 280 kts |
| | 15500 lb gross weight | 250 kts |
| | 13000 lb gross weight | 230 kts |
| | V _{FE} (Flap Speed) | |
| | 20° down | 220 kts |
| | 40° down | 185 kts |
| | V _{LE} (Landing gear extended speed) | 220 kts |
| V _{LO} (Landing gear operating speed) | 200 kts | |
| V _{MCG} (Minimum control speed, ground) sea level | | |
| ISA - 50°C | 89 kts | |
| V _{MCA} (Minimum control speed air) is below the stall speed | | |
| Tire limit ground speed (Nose landing gear) (Take-off) | 157 kts | |

Datum Fuselage station "0", 38 inches forward of cut for sliding nose.

Mean Aerodynamic Chord (MAC) 74.6 inches. Leading edge of MAC is located at fuselage station 216.5 inches.

C.G. Range (gear extended)

| WEIGHT (Pounds) | FORWARD | | AFT | |
|--------------------|---------|---------|-------|---------|
| | % MAC | Inches | % MAC | Inches |
| 18,300 | 21.0 | +232.16 | 24.5 | +234.78 |
| 16,000 | 22.0 | +232.91 | - | - |
| 14,500 | - | - | 27.5 | +237.00 |
| 13,000 | - | - | 27.5 | +237.00 |
| 12,500 | 17.5 | +229.55 | - | - |
| 11,000 | 17.5 | +229.55 | - | - |
| 10,000 | 19.4 | +231.00 | 24.8 | +235.00 |

Straight line variation between points given

Leveling Means Longitudinally - Fuselage right side between station 336.50 inches to 351.0 inches.
Laterally - Fuselage station 321.4 inches.

| | | |
|----------------|--------------------------|-----------|
| Maximum Weight | Ramp | 18,300 lb |
| | Take-off (brake release) | 18,000 lb |
| | Landing | 16,000 lb |
| | Zero Fuel | 13,000 lb |

Minimum Crew Two Pilot and Co-pilot

Maximum Passengers Nine

| | | | |
|---|----------------------|-------------------|-------------------|
| Maximum Baggage (5 passengers version) | | <u>Weight lb.</u> | <u>Arm Inches</u> |
| | Forward compartment: | 140 | 128.74 |
| | Rear compartment: | 100 | 274.31 |
| Maximum Baggage (9 passengers version) | Forward compartment: | 140 | 143.31 |

Fuel Capacity

Usable fuel (See NOTE 1 for unusable fuel)

| Location | Volume U.S. Gals. | Arm Inches |
|--|----------------------|------------|
| Right or left tank (wing plus tip) (each) | 485 | |
| Wing (right or left) (each) | 248 | 245.78 |
| Tip (right or left) (each) | 237 | 226.56 |

Oil Capacity

Maximum oil system capacity (See NOTE 1 for unusable oil)

| Location | Volume U.S. Gals. | Arm Inches |
|----------|----------------------|------------|
| No. 1 | 1.94 | 308.14 |
| No. 2 | 1.94 | 308.14 |

Maximum operating altitude

40,000 feet

Other operating limitations

Aircraft shall be operated in compliance with the operating limitations specified on the R.A.I. Approved Airplane Flight Manual.

Control Surface Movements

| <u>Surface</u> | <u>Travel</u> | <u>Tolerance</u> | |
|---------------------------------------|---------------|------------------|----------|
| Aileron | Up | 16° ± 1° | |
| | Down | 16° | |
| Aileron tabs (trim on left side only) | Left side | Up | 32° ± 2° |
| | | Down | 36° |
| | Right side | Up | 20° ± 2° |
| | | Down | 20° |
| Rudder | Left | 27° ± 1° | |
| | Right | 27° | |
| Rudder trim tabs | Left | 25° ± 1° | |
| | Right | 25° | |
| Elevator | Up | 20° ± 1° | |
| | Down | 10° | |
| Elevator trim tab (Electrical) | Up | 22° ± 2° | |
| | Down | 27° | |
| Elevator trim tab (Mechanical) | Up | 8° ± 2° | |
| | Down | 12° | |
| Flaps | Down | 40° ± 2° | |
| Speed brakes | Down | 45° ± 2° | |
| Spoilers | Up | 60° ± 2° | |

Serial Numbers Eligible

A Registro Aeronautico Italiano (R.A.I.) Certificate of Airworthiness for Export, endorsed as noted below under Import Requirements, must be submitted for each individual aircraft for which application for certification is made.

Certification Basis

FAR 21.29 and CAR 4b dated December 1953; Amendments 4b-1 through 4b-11 thereto; the provisions of Special Civil Air Regulation SR-422B; the Special Conditions listed in Attachment A to FAA letter to the Registro Aeronautico Italiano (R.A.I.) dated May 11, 1966.

Type Certificate (Import) No. A12EU issued November 27, 1968.
(See NOTE 3)

Date of Application December 7, 1961

Compliance with the following additional requirements has been established:
Amendment 4b-12 Sections 4b.1 thru 4b.191, 4b.334 (e), 4b.413 thru 4b.447 (except 4b.437), 4b.450 thru 4b.454, 4b.603 thru 4b.612, 4b.622 thru 4b.634, 4b.642, 4b.643,

4b.711, 4b.718, 4b.738 and 4b.740.

Amendment 4b.14; FAR 25 - Amendment 25 - 15

FAA exemption No. 769 (Grant exemption from CAR 4b.437).

The R.A.I originally type certificated this aircraft under its type certificate. The FAA validated this product under U.S. Type Certificate Number A12EU. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of the R.A.I.

Import Requirements

A U.S. Certificate of Airworthiness may be issued on the basis of an Italian Certificate of Airworthiness for Export signed by a representative of the Registro Aeronautico Italiano containing the following statement: "The airplane covered by this certificate has been examined and found to comply with U.S. Civil Air Regulations Part 4b issued December 31, 1953, including Amendments 4b-1 thru 4b-11, additional requirements as stated under Certification Basis of Type Certificate Data Sheet A12EU, and conforms to Type Certificate A12EU."

The FAA can issue a U.S. airworthiness certificate based on an R.A.I. Export Certificate of Airworthiness (Export C of A) signed by a representative of the R.A.I. on behalf of the European Community. The Export C of A should contain the following statement: 'The aircraft covered by this certificate has been examined, tested, and found to conform to the type design approved under U.S. Type Certificate No A12EU and to be in a condition for safe operation.'

Required Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations must be installed in the aircraft for certification.
A required Equipment List is provided in the R. Piaggio Report No. 9008 dated November 16, 1966, and is available upon request from the manufacturer.
A current R.A.I. - Approved Airplane Flight Manual for the Model PD 808/526 must be carried on the aircraft at all times.

Service Information

All Service Bulletins are approved by R.A.I. and carry a statement to that effect.

NOTE 1

- (a) A current Weight and Balance Report including list of equipment included in certificated empty weight, and loading instructions, must be in each aircraft at the time of original certification and at all times thereafter.
- (b) The airplane must be loaded so that the C.G. is within the specified limits at all times.
- (c) The weight of system fuel and oil as defined below and hydraulic fluid must be included in the empty weight of the airplane.

| <u>System Fuel</u> | <u>U.S. Gals.</u> | <u>Arm inches</u> |
|---|-----------------------|-----------------------|
| Unusable fuel | 16 | 260.00 |
| Undrainable fuel (trapped in tanks & lines) | 4 | 260.00 |
| <u>System Oil</u> | <u>U.S. Gals.</u> | <u>Arm inches</u> |
| Unusable oil (both engines) | 1.8 | 308.14 |
| Undrainable oil | Negligible | |

NOTE 2

The service life limits for aircraft structural parts which are fatigue critical are listed in the Approved Airplane Flight Manual.

NOTE 3

Piaggio Model PD 808, Approved November 29, 1966 withdrawn November 27, 1968, since Bristol Siddeley Viper 525 engines are not installed on any PD 808 airplanes.

NOTE 4

SERVICE INFORMATION:

Each of the documents listed below that contain a statement that it is approved by the European Aviation Safety Agency (EASA) - or for approvals made before September 28, 2003 - by the R.A.I., are accepted by the FAA and are considered FAA approved. These approvals pertain to the type design only.

- Industrie Aeronautiche e Meccaniche Service Bulletins, except as noted below,
- Structural repair manuals,
- Vendor manuals referenced in Industrie Aeronautiche e Meccaniche/service bulletins
- Aircraft flight manuals,
- Repair Instructions.

Design changes that are contained in Service Bulletins and are classified as level 1 major in accordance with the US Bilateral Aviation Safety Agreement Implementation Procedures for Airworthiness must be approved by the FAA.

.....END.....