

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A38EU
GENERAL AVIA
F.20 "Pegaso"
Revision 1
February 18, 2022

TYPE CERTIFICATE DATA SHEET NO. A38EU

This data sheet which is a part of type certificate No. A38EU prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder GENERAL AVIA Costruzioni Aeronautiche
Pioltello (Milan)
Italy

I - Model F.20 "Pegaso" (Normal Category), Approved May 14, 1975.

Engine	2 Continental IO-520-F	
Fuel	100/130 minimum grade aviation gasoline	
Engine limits	2850 rpm (300 hp) maximum 5 minutes 2700 rpm (285 hp) maximum continuous	
Propeller and propeller limits	Two Hartzell HC-C2YF-2CDF/C8475-6 Diameter: 78 in., maximum and minimum (No further reduction permitted) Pitch setting at 30 in. station: Low : 13° 40' Feathered : 80° 30' Spinners : 2 Hartzell 836-30 Governors : 2 Woodward 210675	
Airspeed limits (CAS)	Never exceed (Vne)	233 kts (268 mph)
	Maximum structural cruising (Vno)	182 kts (210 mph)
	Maneuvering (Va)	159 kts (183 mph)
	Flaps operating and extended up to 20° (Vfo)	140 kts (160 mph)
	Flaps operating and extended up between 20° and 48° (Vfe)	126 kts (145 mph)
	Landing gear operating and extended (Vlo & Vle)	140 kts (160 mph)
	Minimum control speed (Vmc)	70 kts (81 mph)
C.G. range	(+109.5) to (+115.6) at 3527 lb or less (+111.2) to (+115.6) at 4408 lb. (+113.9) to (+115.6) at 4784 lb. Straight line variation between points given.	
Empty weight C.G. range	(+109.5) to (+111.2)	
Datum	63.8 in. forward of frame No. 1 (aircraft leveled)	
Leveling means	Two red screws under the left rear window.	
Maximum weight	4784 lb.	

Number of seats	6 (2 at +111.0, 2 at +148.4 and 2 at +176.0)			
Minimum crew	1 pilot at (+111.0)			
Maximum baggage	75 lb. (forward compartment at +45.3) 2 x 45 lb. (nacelle compartments at +155.5) 65 lb. (rear compartment at +198.8)			
Fuel capacity	132.1 gal. total (2 main tanks of 32.7 gal. each at +115.0, and 2 tip tanks of 33.3 gal. each at +118.9). Usable fuel: 129.4 gal. See NOTE 1 for unusable fuel.			
Oil capacity	24 qt. total (12 qt. in each engine at +73.2) See NOTE 1 for undrainable oil.			
Control surface movements	Wing flaps		Down	$48^{\circ} \pm 2^{\circ}$
	Ailerons	Up	$24^{\circ} \pm 2^{\circ}$	Down $14^{\circ} \pm 2^{\circ}$
	Elevator	Up	$26^{\circ} \pm 2^{\circ}$	Down $14^{\circ} \pm 2^{\circ}$
	Elevator trim tab	Up	$20^{\circ} \pm 1^{\circ}$	Down $23^{\circ} \pm 1^{\circ}$
	Rudder	Right	$30^{\circ} \pm 2^{\circ}$	Left $30^{\circ} \pm 2^{\circ}$
	Rudder trim tab	Right	$20^{\circ} \pm 1^{\circ}$	Left $20^{\circ} \pm 1^{\circ}$
Serial Nos. eligible	A Registro Aeronautico Italiano (RAI) Certificate of Airworthiness for Export as noted below under "Import Requirements" must be submitted for each individual aircraft for which an application for airworthiness certification is made.			
Certification basis	FAR 21.29 and FAR 23 effective 1 February 1965 including Amendments 23-1 through 23-12 inclusive. Application for Type Certificate dated 20 November 1970. Application extended per FAR 21.17(c)(2) by FAA letters dated 23 January 1974, 27 June 1974, and December 1974. Type Certificate No. A38EU issued May 14, 1975.			
Validation basis	Type Certificate A38EU was issued pursuant to FAR 21.29(a)(1)(ii) in validation of the Registro Aeronautico's (RAI) certification of compliance with the aforementioned type certification basis.			
Import requirements	A U.S. Certificate of Airworthiness may be issued on the basis of a Certificate of Airworthiness for Export signed by a representative of the Registro Aeronautico Italiano (RAI) containing the following statement: "The airplane covered by this certificate has been examined, tested and found to conform to the type design approved under FAA Type Certificate A38EU and is in condition for safe operation". Refer to the applicable bilateral agreement to verify eligibility for import into the United States of both new and used aircraft based on the scope of the agreement, to identify any required statements by the exporting authority on the export certificate of airworthiness (or equivalent document), and for procedures for coordinating exceptions to conformity statements on these documents. Refer to FAA Order 8130.2, <i>Airworthiness Certification of Aircraft</i> , for requirements for issuance of an <i>airworthiness certificate</i> for imported aircraft.			
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, the following items of equipment are required: a) Pre-stall warning indicator, Safe Flight Instrument Corp., Type 164F or equivalent. b) "RAI-Approved Airplane Model F.20 "Pegaso" Flight Manual", RAI-approval No. 119.496/T dated 19 November 1974 and later RAI-approved revisions.			

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at time of original certification, and at all times thereafter.

The certificated empty weight and corresponding center of gravity locations must include:

- Unusable fuel (12 lb at +115.0, and 3.4 lb at +118.9)
- Undrainable oil (2 lb at +73.2)

NOTE 2. a) The following placard must be displayed on the instrument panel in clear view of the pilot:

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUAL."
ACROBATIC MANEUVERS, INCLUDING SPINS, PROHIBITED."

In addition, all other placards required in the RAI-approved Airplane Flight Manual must be installed in the appropriate locations.

- b) Each individual airplane will be supplied with a placard that specifies the kind of operation such as VFR or IFR, DAY or NIGHT, or ICING, to which the airplane is limited by the equipment installed.

NOTE 3. Service Life Limits.

Airplane components which are life limited are listed in the RAI-approved portion of the F.20 "Pegaso" Maintenance Manual, and must be replaced as indicated therein.

NOTE 4. Maximum load on the rear seats (+176.0): 220 lb.

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