
Type Acceptance Report

TAR 5/21B/4

Tecnam P2002-JF

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Executive Summary

New Zealand Type Acceptance has been granted to the Tecnam Model P2002-JF based on validation of EASA Type Certificate number A.006. There are no special requirements for import. The P2002-JF is now eligible for the issue of an Airworthiness Certificate in the Standard Category in accordance with CAR §21.191(1), subject to any outstanding New Zealand operational requirements being met. JAR-VLA aircraft are limited to Day VFR operations under Part 91 only. (See Section 5 of this report for a review of compliance of the basic type design with the operating Rules.)

1. Introduction

This report details the basis on which Type Acceptance Certificate No.5/21B/4 was granted in the Standard Category in accordance with NZCAR Part 21 Subpart B.

Specifically the report aims to:

- (a) Specify the foreign type certificate and associated airworthiness design standard used for type acceptance of the model(s) in New Zealand; and
- (b) Identify any special conditions for import applicable to any model(s) covered by the Type Acceptance Certificate; and
- (c) Identify any additional requirements which must be complied with prior to the issue of a NZ Airworthiness Certificate or for any subsequent operations.

2. Foreign Type Certificate Details

Manufacturer: Costruzioni Aeronautiche TECNAM S.r.l.

Model(s): P2002-JS

Type Certificate: A.006

Issued by: European Aviation Safety Agency

MCTOW 580 kg (1278 lb)

No. of Seats: 2

Noise Standard: JAR-36, 1st edition dated 23rd May 1996 Subpart C, with reference to ICAO Annex 16, 3rd Edition 1993, Volume 1, Chapter 10.

Engine: Rotax 912S2

Type Certificate: TW9-ACG

Issued by: Austro Control, Republik Österreich

Propeller: Hoffmann Propeller HO17GHM-A-174 177C

Type Certificate: 32.110/1

Issued by: Luftfahrt-Bundesamt, Bundesrepublik Deutschland

3. Type Acceptance Certificate

The application for New Zealand type acceptance was from the New Zealand agent, Mr Giovanni Nustrini, dated 31 July 2004. The first-of-type example was serial number 009 registered ZK-TVB. The P2002-JS is a two-seat low-wing all-metal light training aircraft.

Type Acceptance Certificate Number 5/21B/4 was granted on 29 December 2004 to the P2002-JF based on validation of EASA Type Certificate A.006. There are no special requirements for import into New Zealand.

The P2002-JF is a new low-wing design by Tecnam to replace the earlier P96 Golf. It is of conventional design and construction. (Tecnam model designations indicate the year they were introduced.)

4. Type Data

The type data requirements of NZCAR Part 21B Para §21.43 have been satisfied by supply of the following documents:

(1) Type certificate:

EASA.A.006 Tecnam P2002-JF issued 27 May, 2004-08-10

EASA Type-Certificate Data Sheet P2002-JF Issue 1 dated May 2004

(2) Airworthiness design requirements:

The certification basis of the Tecnam Model P2002-JF is EASA CS-VLA dated 14/11/2003. (Equivalent to JAR-VLA ed. 26/04/1990 including amendments VLA/91/1 dated October 22nd, 1991 and VLA/92/1 dated January 1, 1992.) This is an acceptable certification basis in accordance with NZCAR Part 21B Para §21.41, as JAR-VLA is equivalent to FAR-23 for this class of aircraft when limited to Day-VFR operations. FAR 23 is the basic standard for Normal Category Airplanes called up under Part 21 Appendix C. There are no non-compliances and no special conditions have been prescribed by the Director under §21.23.

(3) Certification compliance listing:

Report no. 2002/40 CS VLA Compliance Check List – 1st Edition March 29th, 2004

(4) Flight manual: EASA-Approved Flight Manual P2002-JF
CAA Accepted as AIR 2871

(5) Illustrated Parts Catalogue: IPC P2002-JF/Sierra – Doc. no.2002/31 2nd Edition

(6) Maintenance manual and service data for aircraft:

Maintenance Manual P2002-JF – Doc. no.2002/30 1st Ed, rev.0 – 29th March 2004

(7) Agreement from manufacturer to supply updates of data in (4), (5) and (6):

CAA 2171 Form signed by Tecnam Technical Manager dated 23 July 2004

5. Additional New Zealand Requirements

Compliance with the retrospective airworthiness requirements of NZCAR Part 26 is a prerequisite for the grant of a type acceptance certificate.

Civil Aviation Rules Part 26

Subpart B - Additional Airworthiness Requirements

Appendix B - All Aircraft

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
B.1	Marking of Doors and Emergency Exits	<i>To be determined on an individual aircraft basis</i>
B.2	Crew Protection Requirements - CAM 8 Appdx. B # .35	Not Applicable – Agricultural aircraft only

Compliance with the following additional NZ operating requirements has been reviewed and were found to be covered by either the original certification requirements or the basic build standard of the aircraft, except as noted:

Civil Aviation Rules Part 91

Subpart F - Instrument and Equipment Requirements

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
91.505	Shoulder Harness if Aerobatic; >10 pax; Flight Training	JAR-VLA §785 and §1309 – “Aircraft features four point fitting safety belts” – See Flight Manual Section 7 : Systems
91.507	Pax Information Signs - Smoking, safety belts fastened	Not Applicable – Less than 10 passenger seats
91.509 Min. VFR	(1) ASI * (2) Machmeter (3) Altimeter * (4) Magnetic Compass * (5) Fuel Contents * (6) Engine RPM *	JAR-VLA §1303(a) – See FM EL #D2 (UMA – TSO C2b) N/A – No Mach no. limitations JAR-VLA §1303(b) – See FM EL Item D1 (Sensitive type TSO 10b) JAR-VLA §1303(c) – See FM EL #D4 (Airpath 2300 - TSO) JAR-VLA §1305(a) – See FM EL Item D15 (Road GmbH) JAR-VLA §1305(d) – See FM EL Item D14 (Mitchell) (7) Oil Pressure * (8) Coolant Temp * (9) Oil Temperature * (10) Manifold Pressure (11) Cylinder Head Temp (12) Flap Position (13) U/c Position (14) Ammeter/Voltmeter JAR-VLA §1305(b) – See FM EL #D16 (VDO 644-001-7030) JAR-VLA §1305(j) – See FM EL #D11 (VDO 641-011-7047) JAR-VLA §1305(b) – See FM EL #D11 (VDO 644-001-7030) N/A – Fixed pitch propeller N/A – Less than 250 hp Fitted as std – See FM Fig. 7-2 N/A – Fixed undercarriage JAR-VLA §1351(d) – See Flight Manual Fig.7-2 (both)
	* Required minimum equipment – See Flight Manual Section 2 Limitations : Kinds of Operation	
91.511	Night VFR Instruments and Equipment	Not Applicable – Approved for Day VFR operations only Navigation Lights fitted per FM Equipment List Item C8 Strobe Light fitted per FM Equipment List Item C7 Landing Light fitted per FM Equipment List Item C10
91.513	VFR Communication Equipment	Avionics options per Flight Manual Equipment List: E1 Bendix KX155; E4 Garmin GNS430; E5 Icom IC-A200
91.517	IFR Instruments and Equipment	Not Applicable – Approved for Day VFR operations only
91.519	IFR Communication and Navigation Equipment	Not Applicable – Approved for Day VFR operations only
91.523 Emrgcy Eqpmt.	(a) More Than 10 pax - First Aid Kits per Table 7 - Fire Extinguishers per Table 8 * (b) More than 20 pax - Axe readily acceptable to crew * (c) More than 61 pax - Portable Megaphones per Table 9	First Aid Kit Standard Equipment per Flight Manual EL #E20 BA51015-3 Fire Extinguisher standard per FM EL Item E17 Dmail Emergency Hammer standard per FM EL Item E20 Not Applicable – Less than 61 passenger seats
91.529	ELT - TSO C91a after 1/4/97 (or replacement)	ACK E-01 ELT fitted per Equipment List Item E6
91.531	Oxygen Indicators - Volume/Pressure/Delivery	Not fitted as standard
91.533	Oxygen for Non-pressurised Aircraft	<i>Operating Requirement – Compliance as applicable</i>
91.541	SSR Transponder and Altitude Reporting Equipment	Avionics options per Flight Manual Equipment List: E3 Bendix/King KT76A; E7 Garmin GTX320/327
91.543	Altitude Alerting Device - Turbojet or Turbofan	Not Applicable – Piston-engine powerplant
91.545	Assigned Altitude Indicator	Not Applicable – Approved for Day VFR operations only
A.15	ELT Installation Requirements	<i>To be determined on an individual aircraft basis</i>

Note: Flight Manual Section 6 – Weight & Balance contains a comprehensive Equipment List.

Attachments

The following documents form attachments to this report:

Photographs first-of-type example serial number 009 ZK-TVB
Three-view drawing Tecnam Model P2002-JF
Copy of EASA Type-Certificate Data Sheet A.006

Sign off

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David Gill
Team Leader Airworthiness

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Checked – AWE3
Date: 29 December 2004