
Type Acceptance Report

TAR 4/21B/10

HOFFMANN H 36 DIMONA

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Executive Summary

New Zealand Type Acceptance has been granted to the Hoffmann H-36 Dimona based on validation of Austrian Type Certificate Data Sheet number SF 3/82. There are no special requirements for import. The H-36 is now eligible for the issue of an Airworthiness Certificate in the Standard Category in accordance with CAR §21.177, subject to any outstanding New Zealand operational requirements being met. (See Section 5 of this report for a review of compliance of the basic type design with the operating Rules.) Additional variants approved under this TCDS can become type accepted after supply of the applicable documentation, in accordance with the provisions of CAR §21.43(b).

1. Introduction

This report details the basis on which Type Acceptance Certificate No.4/21B/10 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

Type Certificate: Type Certificate Data Sheet No. SF 3/82

Issued by: Bundesamt für Zivilluftfahrt (Now Austro Control – Austrian CAA)

Manufacturer: Hoffmann Flugzeugbau GmbH

Model(s): H 36 “Dimona”

Engine: Limbach L 2000 EB 1.C or AC

Propeller: Hoffmann HO-V62-R/L 160 T or BT

MCTOW 770 kg (1697 lb)

Noise Standard: Zivilluftfahrzeuge-Lärmzulässigkeitsverordnung BGBl. 700/1986

The certification basis of the H 36 is the Airworthiness Requirements for Sailplanes and Powered Sailplanes, JAR-22, status 15 March 1982. This is an acceptable certification basis in accordance with NZCAR Part 21B Para §21.41, as JAR-22 is the basic standard for gliders called up under Advisory Circular 21-1A. There are no non-compliances and no additional special conditions have been prescribed by the Director under §21.23.

3. Type Acceptance Certificate

The application for New Zealand type acceptance was from the importer Mr D McMillan, received January 2002. (The application was put on hold pending the aircraft rebuild and receipt of data from the manufacturer.) The first-of-type example was serial number 3537, registered ZK-GCB. The H 36 is a two-seat low-wing fibreglass-construction motorglider.

Type Acceptance Certificate No. 4/21B/10 was granted on 4 March 2004 to the Hoffman H 36 based on validation of Austro Control Type Certificate Data Sheet No. SF 3/82. There are no special requirements for import into New Zealand.

The H 36 Dimona was designed by Wolff Hoffmann, who previously worked for Scheibe. The prototype of the all-new design flew in 1980 and a factory was set up to produce it in Friesach, Austria. The aircraft has folding wings and a Limbach 80 bhp flat-four engine driving a Hoffmann three-position two-blade propeller. A shortened wing-span version of the H 36 was extensively developed into the successful Katana family, while the company has evolved to become Diamond Aircraft Industries, based at Wiener-Neustadt.

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:

Austro Control Type Certificate Data Sheet Number SF 3/82

Basic Model: H 36 "Dimona" at Issue number 15 dated 08.10.2002

Note: The manufacturer advised that a type certificate does not exist. "Due to the legal situation at the date of certification, a TC was not required."

(2) Airworthiness design requirements: Already held by the CAA.

(3) Certification compliance listing:

Compliance Checklist – Type: H 36 "Dimona" dated 5 August 1985

(4) Flight manual: BAZ-Approved Flight Manual H36 Dimona
CAA Accepted as AIR 2859

(5) Illustrated Parts Catalogue: Parts Catalogue – Dimona H.36

(6) Maintenance manual and service data for aircraft:

Instructions for Continued Airworthiness H36 Dimona – Published 15 Nov 1985
(includes Section 8 Repair and Section 9 Materials.)

Service Bulletin List H-36 "Dimona" – Doc.No. 3.05.00 Chapter 1

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

Letter from Diamond Aircraft Technical Publications dated Jan 15, 2003

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

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 §22.785
91.507	Pax Information Signs - Smoking, safety belts fastened	Not Applicable – Two-seat powered glider
91.509	Minimum Instruments and Equipment	Not Applicable – Powered gliders re excluded
91.511	Night VFR Instruments and Equipment	<i>Operational requirement – compliance as applicable</i>
91.513	VFR Communication Equipment	<i>Operational requirement – compliance as applicable</i>
91.517	IFR Instruments and Equipment	Not Applicable – Certificated for VFR flight only
91.519	IFR Communication and Navigation Equipment	Not Applicable – Certificated for VFR flight only
91.523	Emergency Equipment	N/A – Two-seat glider [Superseded by §104.101(5)]
91.529	ELT - TSO C91a after 1/4/97 (or replacement)	<i>Operational requirement – compliance as applicable</i>
91.531	Oxygen Indicators - Volume/Pressure/Delivery	<i>Operational requirement – compliance as applicable</i>
91.533	Oxygen for Non-Pressurised Aircraft (required for >30 min above FL100)	<i>Operational requirement – compliance as applicable</i>
91.541	SSR Transponder and Altitude Reporting Equipment	<i>Operational requirement – compliance as applicable</i>
91.543	Altitude Alerting Device - Turbojet or Turbofan	Not Applicable – Powered-glider
91.545	Assigned Altitude Indicator	Not Applicable – Certificated for VFR flight only
A.15	ELT Installation Requirements	<i>To be determined on an individual aircraft basis</i>

Civil Aviation Rules Part 104

Subpart C - Equipment and Maintenance Requirements

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
104.101	(1) Airspeed Indicator (2) Altimeter (Adjustable for barometric pressure) (3) Magnetic Compass (4) Safety Harness for each seat (5) A First Aid Kit (6) For powered gliders – (i) Fuel quantity gauge (ii) Oil pressure gauge (iii) Tachometer (7) For IMC - (i) A variometer (ii) Turn & Slip/Artificial Horizon (iii) Radio transceiver	JAR 22.1303(a)(1) – G-FMS-521 Fitted as Standard – See also FM §2.3 Minimum Equipment List JAR 22.1030(a)(2) – 4-FGH-10 Fitted as Standard – See also FM §2.3 Minimum Equipment List JAR 22.1030(a)(3) – Airpath IC 2300 Fitted as Standard – See also FM §2.3 Minimum Equipment List Fitted as Standard – Flight Manual §2.3 refers to seat belts; Parts Catalog calls up Shoulder Strap P/N 18020 as Standard Equipment <i>To be determined on an individual aircraft basis</i> Fitted as Standard – See FM §2.3 Minimum Equipment List Fitted as Standard – See FM §2.3 Minimum Equipment List Fitted as Standard – See FM §2.3 Minimum Equipment List Not Applicable – Flight in Clouds is forbidden

Attachments

The following documents form attachments to this report:

Photographs first-of-type example H 36 serial number 3537 ZK-GCB
Three-view drawing Hoffmann Flugzeugbau Model H 36 "Dimona"
Copy of Austro Control Type Certificate Data Sheet Number SF 3/82

Sign off

David Gill
Team Leader Airworthiness

Date: 4 March 2004