

CONTENT

SECTION 1: GENERAL, Basic D4 Fascination Type Design

- A.I. General
- A.II. Certification Basis
- A.III. Technical Characteristics and Operational Limitations
- A.IV. Operating and Service Instructions
- A.V. Notes

SECTION 2: CHANGES/VARIANTS

(Reserved)

SECTION 3: CHANGE RECORD

SECTION 1: D4 Fascination

A.I. General

Data Sheet No.: EASA A.019	Issue: 03	Date: 25 April 2007
1. a) Type: b) Variant:	D4 Fascination N/A	
2. Airworthiness Category:	Very Light Aircraft	
3. Type Certificate Holder:	Aircraft Design and Certification Ltd Reichensteinstrasse 48 D-69151 Neckargemünd GERMANY	
4. Manufacturer SN 1002..1004	Fascination Production Ltd. Kisseleffstrasse 21 D-61348 Bad Homburg Germany	
5. JAA Certification Application Date:	19 November 2002	
6. JAA validation Date (JAA recommendation):	N/A	
7. EASA Type Certification Date:	13 December 2004	

A.II. Certification Basis

1. Reference Date for determining the applicable requirements:	19 November 2002
2. (Reserved)	
3. (Reserved)	
4. Certification Basis:	As defined in CRI A-01, latest Issue
5. Airworthiness Requirements:	JAR-VLA, issued 26 April 1990, including amendments VLA/91/1, dated 22 October 1991 and VLA/92/1, dated 1 January 1992
6. Requirements elected to comply:	None
7. EASA Special Conditions:	JAR-VLA.865 & JAR.VLA.1119 (see CRI C-01, Fire protection)
8. EASA Exemptions:	None
9. EASA Equivalent Safety Findings:	JAR-VLA.779 (see CRI D-01, Filser PropCon Switch)
10. EASA Environmental Standards:	Noise: ICAO Annex 16, 3 rd Edition 1993, Volume 1, Chapter 10, JAR 36, issued 23 May 1997 (see CRI A-03), Emission: N/A

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Type Specification WD4-C0-001.A6
Equipment List WD4-C0-002.B4
Drawing List WD4-DL.A1
or later issues accordingly

2. Description: Single engine, tractor, two-seats (side-by-side), fibre-composite construction, low wing with conventional tail configuration, retractable tricycle landing gear with nose wheel.

3. Equipment: Equipment List WD4-C0-002.B4

4. Dimensions:

Wing Span	8.900 m	(29.20 ft)
Total Length	6.870 m	(22.53 ft)
Maximum Height	1.850 m	(6.07 ft)
Wing Area	10.73 m ²	(115.5 ft ²)

5. Engine/s: No.1
Bombardier-Rotax GmbH 912 S2
Certification Basis: FAR 33 amendment 15
Austrian Type Certificate No. TW 9-ACG
dated 27 Nov. 1998
 - 5.1 Engine Limits: Max rotational speed (5 min) 5000 r.p.m.
Max continuous rotational speed 5000 r.p.m
(Engine shaft r.p.m)

6. (Reserved)

7. Propeller/s: No.1

W.D. Aircraft GmbH
WD4-51-051
3 blades, electro-mechanical pitch controlled

Diameter: 1720 mm ± 0 mm
Settings:
Low pitch setting: 12.2 deg ± 0.3 deg
High pitch setting: 24.5 deg ± 0.3 deg

8. Fluids:
 - 8.1 Fuel: High octane gasoline 95 Oktan, EN 228
For other approved fuels refer to the Section 2 of Airplane Flight Manual, Doc. WD4-AFM-E (English version) or WD4-AFM-D (German version).

 - 8.2 Oil: Use SAE specification oil, ref. to the Section 2 of the Airplane Flight Manual.

 - 8.3 Coolant: EVANS NPG+ (see Rotax SB-912-043)

9. Fluid capacities:
 - 9.1 Fuel: Total: 170 liters

	Usable:	164 liters
9.2 Oil:	Maximum:	3.0 liters
	Minimum:	2.5 liters
10. Air Speeds:		
Design Manoeuvring Speed V_A		104 KIAS
Flap Extended Speed V_{FE}		80 KIAS
Maximum structural cruising speed V_{NO}		128 KIAS
Never exceed speed V_{NE}		148 KIAS
Maximum Landing Gear Operation Speed V_{LO}		118 KIAS
Maximum Landing Gear Extended Speed V_{LE}		118 KIAS
11. (Reserved)		
12. All weather Capability:	Day-VFR only	
	Flight into expected or actual icing conditions is prohibited	
13. Maximum Masses:		
Take-off		650 kg
Zero Wing Fuel		620 kg
Landing		650 kg
14. Centre of Gravity Range:		
Forward limit		1890 mm behind Datum
Rear limit:		1990 mm behind Datum
15. Datum:		1000 mm in front of firewall
16. (Reserved)		
17. Levelling Means:	Upper canopy frame (see Maintenance Manual)	
18. Minimum Flight Crew:		1 (Pilot)
19. Maximum Passenger Seating Capacity:		1
20. (Reserved)		
21. Baggage / Cargo Compartments		
Max. allowable Load	(1) 20 kg aft (2) 40 kg front	
Location	(1) 1350 mm aft the datum (2) 3000 mm aft the datum	
22. Wheels and Tyres		
Nose Wheel Tyre Size		5.0-5 6ply
Main Wheel Tyre Size		5.0-5 6ply

A.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)

Doc. No. WD4-AFM-E (English version),
Doc. No. WD4-AFM-D (German version).

Airplane Maintenance Manual (AMM)
(incl. Airworthiness Limitations)

Doc. No. WD4-MM

Service Information and Service Bulletins

A.V. Notes

- (1) This certification applies to serial numbers 1002 and up.
- (2) Noise Data Level determined according to JAR 36, ICAO/Annex 16 Ch. 10 is 63.4 dB(A)
- (3) Colour specifications for composite structure see Maintenance Manual, Chapter 04.

SECTION 2: CHANGES/VARIANTS

(Reserved)

SECTION 3: Change Record

1. Issue 1
13 December, 2004

Original Type Certificate Holder:

W.D. Aircraft GmbH
Sudetenstrasse 57/2
73540 Heubach
GERMANY

2. Issue 2
31 January, 2006

New Type Certificate Holder:

Aircraft Design and Certification Ltd
Hauffstrasse 7
D-73342 Bad Ditzenbach
Germany

3. Issue 3
13 April, 2007

Cover page and Section A.I.3. and A.I.4.:
Address change Type Certificate Holder:

Aircraft Design and Certification Ltd
Reichensteinstrasse 48
D-69151 Neckargemünd
Germany

Manufacturer for SN 1002..1004:
Fascination Production Ltd.
Kisseleffstrasse 21
D-61348 Bad Homburg
Germany

Section: A.I.6.:
Changed TBD in N/A

Section: A.IV.:
Deleted: TBD