EASA

TYPE-CERTIFICATE
DATA SHEET

D4 Fascination

Type Certificate Holder:
Aircraft Design and Certification Ltd
Reichensteinstrasse 48
D-69151 Neckargemünd
Germany

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

For variants: None

Issue 03: 25 April, 2007

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### SECTION 1: D4 Fascination

#### A.I. General

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1. a) **Type:** D4 Fascination  
b) **Variant:** 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, 3rd 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 m² (115.5 ft²)

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