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# TYPE-CERTIFICATE DATA SHEET

**No. EASA.A.019**

**for**

**D4 Fascination**

Type Certificate Holder:

Aircraft Design Certification GmbH  
Reichensteinstrasse 48  
D-69151 Neckargemünd  
Germany

Model: D4 Fascination

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## **SECTION A: D4 Fascination**

### **A.I. General**

- |  |   |
|--|---|
| 1. a) Type:                                  | D4 Fascination  |
| b) Variant:                                  | N/A   |
| 2. Airworthiness Category:                   | Very Light Aircraft   |
| 3. Type Certificate Holder:                  | Aircraft Design Certification GmbH<br>Reichensteinstrasse 48<br>D-69151 Neckargemünd<br>GERMANY |
| 4. Manufacturer SN 1002 ... 1004             | Fascination Production Ltd.<br>Kisseleffstrasse 21<br>D-61348 Bad Homburg<br>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 <sup>rd</sup> Edition 1993, Volume 1, Chapter 10, JAR 36, issued 23 May 1997 (see CRI A-03),<br>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 <sup>2</sup>	(115.5 ft <sup>2</sup> )
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 B: CHANGES/VARIANTS**

(Reserved)

#### **ADMINISTRATIVE SECTION:**

I. Acronyms:  
N/A

#### II. Type Certificate Holder Record

13 December 2004:	W.D. Aircraft GmbH Sudetenstrasse 57/2 73540 Heubach Germany
31 January 2006:	Aircraft Design and Certification Ltd Hauffstrasse 7 D-73342 Bad Ditzenbach Germany
13 April, 2007:	Aircraft Design and Certification Ltd Reichensteinstrasse 48 D-69151 Neckargemünd Germany

#### III. Change Record:

Issue	Date	Change
1	13 December 2004	Initial Issue
2	31 January 2006	Type Certificate Holder change
3	13 April 2007	Type Certificate Holder change, changes in A.I.3, A.I.4, A.I.6, A.IV
4	16 Juli 2018	Type Certificate Holder change