



SPECIFIC AIRWORTHINESS SPECIFICATION

NO. EASA.SAS.A.544

for
René FOURNIER RF 9

For models: RF 9

This Specific Airworthiness Specification is issued in accordance with Regulation (EU) 748/2012 Part 21, paragraph 21A.173 (b)2 for the purposes of the issue of a Restricted Certificate of Airworthiness. This Specific Airworthiness Specification cancels and replaces TC No FR TC 167 and TCDS No. FR TCDS 167.



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SECTION 1 AIRCRAFT DESIGN DEFINITION

SECTION A RF 9

A.I General

- | | |
|---------------------------|--|
| 1. Type/ Model/ Variant | |
| 1.1 Type | René FOURNIER RF 9 |
| 1.2 Model | RF 9 |
| 2. Airworthiness Category | Powered Sailplane - Utility |
| 3. Manufacturer | FOURNIER AVIATION
Aérodrome d'ATHÉE – NITRAY
37270 MONTLOUIS SUR LOIRE
FRANCE |

A.II Certification Basis

- | | |
|---|---|
| 1. Reference Date for determining the applicable requirements | 1976 |
| 2. Airworthiness Requirements | Règlement CTG 010 du 29 Juin 1973 en
Categorie MU et Ch.5 du Règlement
L.F.S.M. |
| 3. Special Conditions | None |
| 4. Exemptions | None |
| 5. (Reserved) Deviations | None |
| 6. Equivalent Safety Findings | None |
| 7. Environmental Protection | Refer to EASA certification noise levels |



A.III Technical Characteristics and Operational Limitations

- | | | | | | | | | | |
|---------------------------|--|------|---------|-----------|---------------------|--------|--------|--------|--------|
| 1. Type Design Definition | Bureau d'Etude Avions Fournier (BEAF)
dated 1980 | | | | | | | | |
| 2. Description | Two-seater in side-by-side arrangement,
low-wing motorglider, fixed classical
taildragger landing gear configuration,
wings are foldable for storage. | | | | | | | | |
| 3. Equipment | Turn and bank indicator
Altimeter
Rate of climb indicator
Airspeed indicator
Engine speed indicator
Oil pressure indicator
Oil temperature indicator
Red stall warning light
Gear down warning light
Magnetic direction indicator | | | | | | | | |
| 4. Dimensions | <table border="0"><tr><td>Span</td><td>17,30 m</td></tr><tr><td>Wing Area</td><td>18,0 m²</td></tr><tr><td>Length</td><td>8,00 m</td></tr><tr><td>Height</td><td>1,97 m</td></tr></table> | Span | 17,30 m | Wing Area | 18,0 m ² | Length | 8,00 m | Height | 1,97 m |
| Span | 17,30 m | | | | | | | | |
| Wing Area | 18,0 m ² | | | | | | | | |
| Length | 8,00 m | | | | | | | | |
| Height | 1,97 m | | | | | | | | |
| 5. Engine | | | | | | | | | |
| 5.1 Model | Limbach L 1700 EI 68 Hp (50kw) 3500 rpm
or
Limbach L 1700 EO 1 | | | | | | | | |
| 5.2 Type Certificate | EASA.E.082 | | | | | | | | |
| 5.3 Limitations | Maximum RPM 3600
Maximum Cruise Recommended RPM 3400 | | | | | | | | |
| 6. Load factors | | | | | | | | | |
| 6.1 Clean configuration | + 5,3 g / - 2,65 g | | | | | | | | |
| 6.2 Airbrakes deployed | + 3,5 g / - 0,00 g | | | | | | | | |
| 7. Propeller | | | | | | | | | |
| 7.1 Model | Hoffmann HO-V 62R160T | | | | | | | | |
| 7.2 Type Certificate | DE 32.130/13 | | | | | | | | |
| 7.3 Number of blades | Two (2) | | | | | | | | |
| 7.4 Diameter | 1,60 m | | | | | | | | |
| 7.5 Sense of Rotation | Anticlockwise (as viewed from cockpit) | | | | | | | | |



8. Fluids	
8.1 Fuel	AVGAS 100 or Super-Auto
8.2 Oil	Below 0 ° C SAE 10 w/40 0 to 20 ° C SAE 20 w/50 Above 20 ° C SAE 40, SAE 30 or SAE 20 w/50
8.3 Coolant	N/A (Air-cooled engine)
9. Fluid capacities	
9.1 Fuel	78 Litres
9.2 Oil	2,5 Litres
9.3 Coolant system capacity	N/A (Air-cooled engine)
10. Air Speeds	
	V _{NE} : 220 km/h (118,7 KTS) V _{NO} : 200 km/h (107,9 KTS) V _C : 200 km/h (107,9 KTS) V _A : 180 km/h (97,1 KTS) V _{FE} : N/A (No flaps) V _{LO} : 130 km/h (70,2 KTS)
11. Flight Envelope	Approved as per AFM reference manuel d'utilisation RF-9 approved 25 december 1976.
12. Approved Operations Capability	VFR day
13. Maximum Masses	
13.1 Maximum take-off:	745 kg
13.2 Maximum landing:	745 kg
14. Centre of Gravity Range	
14.1 Forward CG limit:	22,0 % MAC
14.2 Aft CG limit:	35,0 % MAC
15. Datum	Front side of Firewall
16. Control surface deflections	
	Aileron: - up 21° ± 2° - down 16° ± 2° Elevator: - up 21° ± 2° - down 17° ± 2° Elevator tab: - up 24° ± 2° - down 36° ± 2° Rudder: - left 25° ± 2° - right 25° ± 2°
17. Levelling Means	Wedge of 400 x 10 placed on fuselage behind the canopy guide rail
18. Minimum Flight Crew	One (1) pilot
19. Maximum Passenger Seating Capacity	One (1) passenger
20. Baggage/ Cargo Compartments	15 kg



21. Wheels and Tyres

Main wheels 300 x 100 (pressure 2,5 bars)
Rear wheel 210 x 65 (pressure 2,0 bar)

A.IV Operating and Service Instructions

- | | |
|--------------------------------|---|
| 1. Flight Manual | Manuel d'utilisation RF-9 approved 25 december 1976 |
| 2. Maintenance Manual | CFI 2013 dated 2 January 2013 |
| 3. Structural Repair Manual | N/A |
| 4. Weight and Balance Manual | refer to AFM |
| 5. Illustrated Parts Catalogue | N/A |

A.V Notes

Loading chart:

	Mass (kg)	Moment (m)
Pilot/Passenger		+ 1,00
Fuel tank forward 29 l.	21	+0,165
Fuel tank aft 49 l.	36	+1.70
Maximum baggage	15	+1,70



SECTION 2 AIRWORTHINESS DIRECTIVES AND MANDATORY SERVICE BULLETINS

Any AD published by DGAC France or EASA must be complied with.

SECTION 3 OCCURRENCE REPORTING

The Specific Airworthiness Specification may be used as a basis for the issue of a Restricted Certificate of Airworthiness in accordance with 21.A.173 (b)2 under the following conditions:

- a) The holder of a Restricted Certificate of Airworthiness based on this Specific Airworthiness Specification shall report to the Agency any identified condition of the aircraft, which endangers flight safety.
- b) Reports shall be made as soon as practicable, but in any case within 72 hours by using the reporting tool at <http://www.aviationreporting.eu/>
Please select "EASA" when being asked to select the Competent Authority to report to.

SECTION 4 OTHER LIMITATIONS

None.

SECTION 5 TRANSITION PERIOD

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The individual aircraft must to be transferred from its Certificate of Airworthiness linked to the TCDS no. FR TCDS 167 to a Restricted Certificate of Airworthiness linked to this SAS EASA.SAS.A.544 before 10.12.2019 [12 month after initial publication date of this SAS].



SECTION 6 ADMINISTRATIVE

I. Acronyms & Abbreviations

G	Load factor
Kg	Kilograms
KTS	Airspeed in knots
MAC	Mean aerodynamic chord
RPM	Revolutions per minute
VFR	Visual flight rules

II. Change Record

Issue	Date	Changes
Issue 01	12 December 2018	Initial Issue

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