

TABLE OF CONTENTS

Section	Page
SA 341 G	
I General	3
II Certification Basis	3
III Technical Characteristics and Operational Limitations	4
IV Operating and Service Instructions	6
V Notes	6
SA 342 J	
I General	7
II Certification Basis	7
III Technical Characteristics and Operational Limitations	8
IV Operating and Service Instructions	10
V Notes	10

SA 341 G

I. General

1. **Data Sheet No:** EASA.R.125
Corresponding to DGAC-F n° 136, issue 4 dated March 1993
2. **Type / Variant or Model:**
 - (a) Type: SA 341
 - (b) Variant or Model: SA 341 G
3. **Airworthiness Category:** Small Rotorcraft
4. **Type Certificate Holder:**

Since January 7, 2014	AIRBUS HELICOPTERS Aéroport International Marseille - Provence 13725 MARIIGNANE cedex - FRANCE
Between June 1, 1997, and January 7, 2014	EUROCOPTER Aéroport International Marseille - Provence 13725 MARIIGNANE cedex – France
Between January 1, 1992 and June 1, 1997	EUROCOPTER FRANCE Aéroport International Marseille - Provence 13725 MARIIGNANE cedex – FRANCE
Between January 1, 1970 and January 1, 1992	AEROSPATIALE 37, Boulevard de Montmorency 75781 PARIS cedex 16 – FRANCE
5. **Manufacturer:** As above
6. **National Certification Date:** SA 341 G June 07, 1972
(DGAC-F National TC N° 66)
7. **DGAC-F Application Date:** N/A
8. **DGAC-F Recommendation Date:** N/A
9. **EASA Certification Date:** N/A

II. Certification Basis

1. **Certification Basis:**

FAR 27, edition dated February 1st, 1965 (Amdt 27.1 to 27.4 included) with the SGAC additional Special Conditions notified with letter SGAC n° 4986 dated September 2nd, 1971).

For IFR version, it has been verified that the aircraft equipped according to Aerospatiale drawing ref 341 A/MR 0345 complies with document FAA EU 100 "Acceptable criteria for compliance with FAR 27.141 and 29.141 Instrument flight" dated February 15th, 1971.

2. **Airworthiness Requirements:** As defined above
3. **Reversions and Exemptions Granted:** N/A

- 4. **Equivalent Safety Findings:** N/A
- 5. **Special Conditions:** Refer to §1 certification basis
- 6. **Environmental Standards including noise:** N/A

III. Technical Characteristics and Operational Limitations

- 1. **Type Design Definition:** SA 341 G basic SA 341G definition
- 2. **Description:** Small single-engine helicopter.
- 3. **Equipment:** As per compliance with applicable airworthiness requirements defined here above and referenced within approved Flight Manual.
Approved equipment listed in drawing Aerospatiale ref 341 A 04 3036.
- 4. **Dimensions:**
 - Fuselage: Length: 9,533 m (31,272 ft)
Width: 2,040 m (6,693 ft)
Height: 3,192 m (10,474 ft)
 - Main Rotor blades: 3
Diameter: 10,50 m (34,449 ft)
 - Tail Rotor Fenestron
- 5. **Engines:** 1 Turboméca ASTAZOU IIIA (see EASA.E.071)
 - 5.1 Installed Engine Limits:
 - max Rpm: 43500 rpm \pm 400 (transient loading \pm 1500 allowed)
 - max power: 440 kW
 - max T4 temperature: 550°C
 - max T4 temperature continuous: 550°C
 - max T4 temperature at engine start: T4(maxi) + 150°C
 - 5.2 Transmission Torque Limits: reserved
- 6. **Fluids (Fuel/Oil/Hydraulic/Additives):**
 - 6.1 Fuel as approved in the Flight Manual
 - 6.2 Oil as approved in the Flight Manual for engine and gearboxes
 - 6.3 Hydraulic as approved in the Flight Manual
 - 6.4 Additives as approved in the Flight Manual
- 7. **Fluid Capacities:**
 - 7.1 Fuel Total: 457 l (120,7 US Gal)
Usable: 455 l (120,2 US Gal)
Non Usable: 2 l (0,5 US Gal)
 - 7.2 Oil Engine: 9,2 l (2,4 US Gal)
Main Gear Box: 3,5 l (0,9 US Gal)
Tail Gear Box: 0,3 l (0,08 US Gal)

8. Airspeed Limits:

VFR flight: Max speed: 310 km/h (167 kts) for $0 \text{ m} < Z_p < 500\text{m}$
and a decrease of 25km/h (13,5 kts) must be applied for each 1000m (3280 ft)
increase of Z_p .

IFR flight: Max speed corresponding to the speed obtained at level flight for the 2nd pitch
stop.

9. Rotor Speed Limits:

- Max rotor regulated speed: 378 rpm (flight with power)
- Max rotor speed (wind milling): 430 rpm
415 rpm for $t^\circ < 15^\circ\text{C}$ and $Z_p < 3000\text{m}$ (9842 ft)
400 rpm for $t < -30^\circ\text{C}$
- Min rotor speed (wind milling): 310 rpm for $Z_p < 1000\text{m}$ (3280 ft)
for $Z_p > 1000\text{m}$ (3280 ft) add 10rpm for each 1000m
(3280 ft) increase of Z_p .

10. Maximum Operating Altitude and Temperature:

10.1 Altitude Max: 6000m (19685 ft) for VFR flight
3300m (10826 ft) for IFR flight

10.2 Temperature Min: -50°C for VFR flight
 $+2^\circ\text{C}$ for IFR flight

Max: $+45^\circ\text{C}$ for $-500\text{m} < Z_p < 500\text{m}$
and a decrease of 10°C for each $Z_p = 1000\text{m}$ up to 6000m

11. Operating Limitations:

General: VFR day and night
IFR day and night

12. Maximum Certified Weights:

Take-off and landing: 1800kg (3968,3 lb)

13. Centre of Gravity Range:

Longitudinal:

	Forward limit from ref	Aft limit from ref
VFR flight	2,80 m	3,14 m
IFR flight	2,80 m	3,07 m

Lateral:

LH limit from ref	RH limit from ref
0,153 m	0,135 m

14. Datum:

Longitudinal 3m (9,84 ft) forward of main rotor centreline
Lateral aircraft symmetry plane

15. Levelling Means: 3 levelling legs on the floor.

16. Minimum Flight Crew: VFR flight: 1 pilot in R.H seat at station +1,440 m
IFR flight: 1 pilot in R.H seat at station +1,440 m

17. **Maximum Passenger Seating Capacity:** 1 in L.H seat at station +1,440 m
3 in rear seats at station +2,290 m
18. **Passenger Emergency Exits:** Refer to the approved Flight Manual
19. **Maximum Baggage/Cargo Loads:** The floor of the cabin and the baggage hold has the structural strength necessary for a load uniformly distributed of 610 daN/m².
20. **Rotor Blade and Control Movement:** Refer to the aircraft Maintenance Manual
21. **Auxiliary Power Unit:** None

IV. Operating and Service Instructions

1. **Rotorcraft Flight Manual, Document No:** SA 341 G Flight Manual original edition approved by DGAC-F, or later DGAC-F or EASA approved revision.
2. **Maintenance Manual, Document No:** SA 341 G approved Maintenance Manual
3. **Service Letters and Service Bulletins:** As published by Aérospatiale or Eurocopter or Airbus Helicopters and approved by DGAC-F or EASA
4. **Required Equipment:** As per compliance with applicable requirements and in accordance with the original Type Design standard; refer to approved Flight Manual.
5. **Master Minimum Equipment List:** None

V. Notes

1. Eligible serial numbers: each GAZELLE helicopter manufactured by Aérospatiale and complying with SA 341 G type.
2. The certified "optional" installations are each approved independently of the basic helicopter and an approved Flight Manual Supplement is associated to each optional installation if necessary.
3. Commercial designation : GAZELLE
4. SA 341 helicopters manufactured by other European aircraft manufacturers under licence agreement are not covered by Type Certificate EASA.R.125.

SA 342 J

I. General

1. **Data Sheet No:** EASA.R.125
Corresponding to DGAC-F n° 136, issue 4 dated March 1993
2. **Type / Variant or Model:**
 - (a) Type: SA 342
 - (b) Variant or Model: SA 342 J
3. **Airworthiness Category:** Small Rotorcraft
4. **Type Certificate Holder:**

Since January 7, 2014 AIRBUS HELICOPTERS
Aéroport International Marseille - Provence
13725 MARIIGNANE cedex – FRANCE

Between June 1, 1997, and January 7, 2014 EUROCOPTER
Aéroport International Marseille - Provence
13725 MARIIGNANE cedex – France

Between January 1, 1992 and June 1, 1997 EUROCOPTER FRANCE
Aéroport International Marseille - Provence
13725 MARIIGNANE cedex – France

Between January 1, 1970 and January 1, 1992 AEROSPATIALE
37, Boulevard de Montmorency
75781 PARIS cedex 16 – France
5. **Manufacturer:** As above
6. **National Certification Date:** SA 342 J April 27th, 1976
(DGAC-F National TC N° 66)
7. **DGAC-F Application Date:** N/A
8. **DGAC-F Recommendation Date:** N/A
9. **EASA Certification Date:** N/A

II. Certification Basis

1. **Certification Basis:**

FAR 27, edition dated February 1st, 1965 (Amdt 27.1 to 27.4 included) with the SGAC additional Special Conditions notified with letter SGAC n° 4986 dated September 2nd, 1971).

Moreover, for IFR version, it has been verified that the aircraft equipped according to Aerospatiale drawing ref 341 A/MR 0345 complies with document FAA EU 100 "Acceptable criteria for compliance with FAR 27.141 and 29.141 Instrument flight" dated February 15th, 1971.

2. **Airworthiness Requirements:** N/A
3. **Reversions and Exemptions Granted:** N/A
4. **Equivalent Safety Findings:** N/A

5. **Special Conditions:** Refer to §1 certification basis

6. **Environmental Standards including noise:** N/A

III. **Technical Characteristics and Operational Limitations**

1. **Type Design Definition:** SA 342 J basic SA 342J definition

2. **Description:** Small single-engine helicopter.

3. **Equipment:** As per compliance with applicable airworthiness requirements defined here above and referenced within approved Flight Manual.
Approved equipments listed in drawing Aerospatiale ref 341 A 04 3036 (also valid SA 341 G) and drawing Aerospatiale ref 341 A 04 3083 for specific SA 342J equipments.

4. **Dimensions:**

Fuselage:	Length:	9,533 m (31,272 ft)
	Width:	2,040 m (6,693 ft)
	Height:	3,192 m (10,474 ft)

Main Rotor:	Blades:	3
	Diameter:	10,50 m (34,449 ft)

Tail Rotor: Fenestron

5. **Engines:** 1 Turboméca ASTAZOU XIV H (see EASA.E.075)

5.1 Installed Engine Limits:

- max Rpm: 43000 rpm \pm 200 (transient loading \pm 1500 allowed)
- max power: 440 kW
- max T4 temperature: 550°C
- max T4 temperature continuous: 550°C
- max T4 temperature at engine start: 700°C (limit 5 sec)

5.2 Transmission Torque Limits: reserved

6. **Fluids (Fuel/Oil/Hydraulic/Additives):**

6.1 Fuel as approved in the Flight Manual

6.2 Oil as approved in the Flight Manual for engine and gearboxes

6.3 Hydraulic as approved in the Flight Manual

6.4 Additives as approved in the Flight Manual

7. **Fluid Capacities:**

7.1 Fuel	Total:	457 l (120,7 US Gal)
	Usable:	455 l (120,2 US Gal)
	Non Usable:	2 l (0,5 US Gal)

7.2 Oil	Engine:	9,2 l (2,4 US Gal)
	Main Gear Box:	3,5 l (0,9 US Gal)
	Tail Gear Box:	0,3 l (0,08 US Gal)

8. Airspeed Limits:

VFR flight: Max speed: 310 km/h (167 kts) for $0 \text{ m} < Z_p < 500\text{m}$
and a decrease of 25km/h (13,5 kts) must be applied for each 1000m (3280 ft)
increase of Z_p .

IFR flight: Max speed corresponding to the speed obtained at level flight for the 2nd pitch
stop.

10. Rotor Speed Limits:

- Max rotor regulated speed: 387 rpm (flight with power)
- Max rotor speed (autorotation): 430 rpm
415 rpm for $t < 15^\circ\text{C}$ and $Z_p < 3000\text{m}$ (9842 ft)
400 rpm for $t < 30^\circ\text{C}$
- Min rotor speed (autorotation): 310 rpm for $Z_p < 1000\text{m}$ (3280 ft)
for $Z_p > 1000\text{m}$ (3280 ft) add 10rpm for each 1000m
(3280 ft) increase of Z_p .

10. Maximum Operating Altitude and Temperature:

10.1 Altitude Max: 6000m (19685 ft) for VFR flight
Max: 3300m (10826 ft) for IFR flight

10.2 Temperature Min: -40°C for VFR flight
+2°C for IFR flight

Max: +50°C for $-500\text{m} < Z_p < 500\text{m}$
and a decrease of 10°C for each $Z_p = 1000\text{m}$ up to 6000m

11. Operating Limitations:

General: VFR day and night
IFR day and night

13. Maximum Certified Weights:

Take-off and landing: 1900kg (4188,8 lb)

13. Centre of Gravity Range:

Longitudinal:

	Forward limit from ref	Aft limit from ref
VFR flight	2,80 m	3,14 m
IFR flight	2,80 m	3,07 m

Lateral:

LH limit from ref	RH limit from ref
0,153 m	0,135 m

14. Datum:

Longitudinal 3m (9,84 ft) forward of main rotor centreline
Lateral aircraft symmetry plane

15. Levelling Means: 3 levelling legs on the floor.

16. Minimum Flight Crew: VFR flight: 1 pilot in R.H seat at station +1,440 m
IFR flight: 1 pilot in R.H seat at station +1,440 m

17. **Maximum Passenger Seating Capacity:** 1 in L.H seat at station +1,40 m
3 in rear seats at station +2,290 m
18. **Passenger Emergency Exits:** Refer to the approved Flight Manual
19. **Maximum Baggage/Cargo Loads:** The floor of the cabin and the baggage hold has the structural strength necessary for a load uniformly distributed of 610 daN/m².
20. **Rotor Blade and Control Movement:** Refer to the aircraft Maintenance Manual
21. **Auxiliary Power Unit:** None

IV. Operating and Service Instructions

1. **Rotorcraft Flight Manual, Document No:** SA 342 J Flight Manual original edition approved by DGAC-F, or later DGAC-F or EASA approved revision.
2. **Maintenance Manual, Document No:** SA 342 J approved Maintenance Manual
3. **Service Letters and Service Bulletins:** As published by Aerospatiale or Eurocopter or Airbus Helicopters and approved by DGAC-F or EASA
4. **Required Equipment:** As per compliance with applicable requirements and in accordance with the original Type Design standard; refer to approved Flight Manual.
5. **Master Minimum Equipment List:** None

V. Notes

1. Eligible serial numbers: each GAZELLE helicopter manufactured by Aérospatiale and complying with SA 342 J type.
2. The certified "optional" installations are each approved independently of the basic helicopter and an approved Flight Manual Supplement is associated to each optional installation if necessary.
3. Commercial designation : GAZELLE
4. SA 342 helicopters manufactured by other European aircraft manufacturers under licence agreement are not covered by Type Certificate EASA.R.125.

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