

TYPE CERTIFICATE DATA SHEET

No. EASA.R.008

for AS 350 / EC 130

Type Certificate Holder

Airbus Helicopters

Aéroport International Marseille – Provence 13725 Marignane CEDEX France

For Models: AS 350 B, AS 350 D, AS 350 B1, AS 350 B2, AS 350 BA, AS 350 BB, AS 350 B3 EC 130 B4, EC 130 T2



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SECTION 1: AS 350 B

I. General

<u>I. Ge</u>	eneral	
1.	Type/ Model	
	1.1 Туре	AS 350
	1.2 Model	AS 350 B
2.	Airworthiness Category	Small Rotorcraft
3.	Manufacturer	Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France
4.	Type Certification Application Date to DGAC FR:	19 June 1974
5.	State of Design Authority	EASA (pre EASA: DGAC, France)
6.	Type Certificate Date by DGAC FR	27 October 1977
7.	Type Certificate n°	EASA.R.008 (former DGAC FR: 157)
8.	Type Certificate Data Sheet n°	EASA.R.008 (former by DGAC FR: 157)
9.	EASA Type Certification Date	28 September 2003, in accordance with CR (EU) 1702/2003, Article 2, 3., (a), (i), 2 nd bullet, 1 st indented bullet.
<u>II. C</u>	ertification Basis	For details about II.3. see Note V.4
1.	Reference Date for determining the applicable requirements	For Airworthiness and Environmental Protection: 19 June 1974 (see II.3.)
		for OSD elements: 17 February 2014.
2.	 Airworthiness Requirements 2.1 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [223244-0 / 704A42690057]) 	FAR Part 27, Amdts. 1 to 10 included as above (2.1) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3
3.	Special Conditions	Complementary and Special Conditions defined in DGAC FR letters 6518, dated 17 August 1976 and 6437, dated 28 July 1977
4.	Exemptions	none
5.	Deviations	none
6.	Equivalent Safety Findings	none
7.	Environmental Protection Requirements	
	7.1 Noise Requirements	see TCDSN EASA.R.008
	7.2 Emission Requirements	n/a
8.	Operational Suitability Data (OSD)	see SECTION 10 below
	8.1 Master Minimum Equipment List (MMEL)	JAR-MMEL Amdt.1, dated 1 August 2005
	8.2 Flight Crew Data (FCD)	CS-FCD Initial Issue 31 January 2014

III. Technical Characteristics and Operational Limitations

1.	Type Design Definition	350A000000
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2.	Description	Main rotor:three (3) bladesTail rotor:two (2) bladesFuselage:metal-sheet monocoqueLanding gear:skid typePowerplant:one turbo-shaft engine
3.	Equipment	The approved items of equipment are listed in Airbus Helicopters document No. 350A044320. The basic required equipment specified in the applicable airworthiness regulations (see certification bases) must be installed on the aircraft at certification time and at every time after certification.
4.	Dimensions	
	4.1 Fuselage	Length: 10.93 m Width hull: 1.87 m Height: 3.14 m
	4.2 Main Rotor	Diameter: 10.69 m, 3 blades
	4.3 Tail Rotor	Diameter: 1.86 m, 2 blades
5.	Engine	
	5.1 Model	Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 1B
	5.2 Type Certificate	TC/TCDS n°: EASA.E.073 (former DGAC FR n° M5)

- 5.3 Limitations
 - 5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG ** [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		105		
Max. TOP (5 min)	820	100	478	810
MCP	829	98	440	775

Notes: - Maximum T4 on starting: 840°C

- * ISA, ground level

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- ** 100% = 51 800 rpm
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5.3.2 Transmission Torque Limits

Max. TQ: 83% (100% corresponds to 396 kW power output at 386 rpm MR speed)

6. Fluids

7.

6.1 Fuel	Refer to approved R	FM
6.2 Oil	Refer to approved R	FM
6.3 Additives	Refer to approved R	FM
Fluid capacities		
7.1 Fuel	Fuel tank capacity: Usable fuel: Unusable fuel:	540 litres 538.7 litres, post AMS 07 0289 1.3 litre, post AMS 07 0289
7.2 Oil	Engine: MGB: TGB:	5.2 litres 6.5 litres (circuit included) 0.33 litre
7.3 Coolant System Capacity	n/a	



 at higher altitudes, V_{NE} reduced by 3.5 kt/1 000 ft (20 km/h per 1 000 m). at OAT between -30° C and -40° C, substract 10 kt (18.5 km/h) from the above decreasing law. Rotor Speed Limitations Power on: Maximum 386 rpm Minimum 380 rpm Power off: Maximum 424 rpm Minimum 320 rpm (audio warning at 335 rpm) The audio warning sounds when rotor speed drops below: - 335 rpm, pre-modification 07.1891 Maximum Operating Altitude and Temperature 10. Maximum Operature Altitude and Temperature 10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (Fo more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg Centre of Gravity Range Longitudinal C.G. limits).
Maximum Minimum386 rpm 380 rpmPower off: Maximum Minimum244 rpm Maximum 320 rpm (audio warning at 335 rpm)Power off: Maximum Minimum 320 rpm (audio warning at 335 rpm)The audio warning at 335 rpm) The audio warning at 335 rpm)The audio warning at 335 rpm) The audio warning at 335 rpm)The audio warning at 335 rpm, pre	
 Minimum 380 rpm Power off: Maximum 424 rpm Minimum 320 rpm (audio warning at 335 rpm) The audio warning at 335 rpm)	
 Maximum 424 rpm Minimum 320 rpm (audio warning at 335 rpm) The audio warning at 35 rp	
 Minimum 320 rpm (audio warning at 335 rpm) The audio warning sounds when rotor speed drops below: - 335 rpm, pre-motification 07.1891 - 360 rpm, post-motification 07.1891 Maximum Operating Altitude and Temperature 10.1 Altitude 10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM 10.9 Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg 	
 i.e. (audio warning at 335 rpm) The audio warning sounds when rotor speed drops below: -335 rpm, pre-molification 07.1891 -360 rpm, post-molification 07.1891 -360 rpm, post-molification 07.1891 Maximum Operating Altitude and Temperature 10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg 	
 The audio warning sounds when rotor speed drops below: - 335 rpm, pre-modification 07.1891 - 360 rpm, post-modification 07.1891 Maximum Operating Altitude and Temperature 10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg 	
 - 360 rpm, post-modification 07.1891 Maximum Operating Altitude and Temperature 10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg 	
10.1 Altitude TKOF/LDG: refer to approved RFM En route: 16 000 ft (4 875 m) 10.2 Temperature Refer to approved RFM 11. Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions 12. Maximum Mass 1950 kg	
En route:16 000 ft (4 875 m)10.2 TemperatureRefer to approved RFM11. Operating LimitationsVFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (Fo more information refer to RFM). Non-icing conditions12. Maximum Mass1 950 kg	
 Operating Limitations VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Non-icing conditions Maximum Mass 1950 kg 	
VFR night, when the additional equipment required by operational regulations is installed and serviceable. (Fo more information refer to RFM). Non-icing conditions 12. Maximum Mass 1950 kg	
13 Centre of Gravity Range Longitudinal C.G. limits	
maximum forward limit: 3 170 mm maximum rearward limit:	
3 550 mm up to 1 300 kg 3 430 mm for 1 900 kg and up to 1 950 kg. Linear variation between the points	
Lateral C.G Limits L.H. limit: 150 mm	
R.H. limit: 80 mm	
14. Datum Longitudinal: the datum plane (STA 0) is located at 3 400 mm forward of MRH centre line. Lateral: aircraft symmetry plane	
15. Levelling Means Transmission deck	
16. Minimum Flight Crew 1 pilot (right seat)	
 Maximum Passenger Seating Capacity Mhen fitted with the forward 2-place seat optional equipment, the maximum number of passengers is increased to six (pilot not included). This option is to be used in accordance with the corresponding RFMS. 	
18. Passenger Emergency Exit2 (two), one on each side of the passenger cabin	



19.	Maximum Baggage/ Cargo Loads	Max. load in: R.H. side hold: L.H. side hold: Rear hold: Forward cabin floor: Rear cabin floor:	100 kg 120 kg 80 kg 150 kg 310 kg	
20.	Rotor Blade Control Movement	For rigging information	refer to Maintenance Manual	
21.	Auxiliary Power Unit (APU)	n/a		
22.	Life-limited Parts		icing Manual, Chapter 4 ons", originally approved by DGAC EASA, contains limitations which	
<u>IV. (</u>	Operating and Service Instructions			
1.	Flight Manual	-	initially approved by DGAC FR on er EASA (or DGAC FR) approved rench language).	
2.	Maintenance Manual	 AS 350 Master Servicin AS 350 Maintenance M Compatibility between of described: from an installation as "Master Servicing Recorsional as "Supplements" chapter 	Aanual optional items of equipment is pect in the: nmendations", spect in:	
3.	Structural Repair Manual	AS 350 Repair Manual		
4.	Weight and Balance Manual	Refer to approved RFM		
5.	Illustrated Parts Catalogue	AS 350 Illustrated Parts	Catalogue	
6.	Service Letters and Service Bulletins	As published by Aérospa Eurocopter or Airbus He	atiale, Eurocopter France, elicopters	
7.	Required Equipment	related supplements for	l Rotorcraft Flight Manual and r other approved mandatory and l Master Minimum Equipment	

V. Notes

- Manufacturer's eligible serial numbers: For AS 350 B: s/n 1003, and subsequent. For AS 350 D converted into AS 350 B, see Note 3.
- 2. AS 350 D aircraft may be converted into AS 350 B by application of Service Bulletin 01.00.12.
- 3. The commercial designation is: Ecureuil
- 4. Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



SECTION 2: AS 350 D

I. General

1.	Type/ Model	
	1.1 Туре	AS 350
	1.2 Model	AS 350 D
2.	Airworthiness Category	Small Rotorcraft
3.	Manufacturer	Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France
4.	Type Certification Application Date to DGAC FR	28 March 1978
5.	State of Design Authority	EASA (pre EASA: DGAC, France)
6.	Type Certificate Date by DGAC FR	4 July 1978
7.	Type Certificate n°	EASA.R.008 (former DGAC FR: 157)
8.	Type Certificate Data Sheet n°	EASA.R.008 (former DGAC FR: 157)
9.	EASA Type Certification Date	28 September 2003, in accordance with CR (EU) 1702/2003, Article 2, 3., (a), (i), 2 nd bullet, 1 st indented bullet.
<u>II. C</u>	ertification Basis	For details about II.3., see Note V.4
1.	Reference Date for determining the applicable requirements	For Airworthiness and Environmental Protection: 19 June 1974 (see II.3.)
		for OSD elements: 17 February 2014.
2.	Airworthiness Requirements	FAR Part 27, Amdts. 1 to 10 included
3.	Special Conditions	Complementary and Special Conditions defined in DGAC FR letters 6518, dated 17 August 1976 and 6437, dated 28 July 1977
4.	Exemptions	none
5.	Deviations	none
6.	Equivalent Safety Findings	none
7.	Environmental Protection Requirements	
	7.1 Noise Requirements	see TCDSN EASA.R.008
	7.2 Emission Requirements	n/a
8.	Operational Suitability Data (OSD)	see SECTION 10 below
	8.1 Master Minimum Equipment List (MMEL)	JAR-MMEL Amdt.1, dated 1 August 2005
	8.2 Flight Crew Data (FCD)	CS-FCD Initial Issue 31 January 2014

III. Technical Characteristics and Operational Limitations

1.	Type Design Definition	350A000000	
2.	Description	Main rotor: Tail rotor: Fuselage: Landing gear: Powerplant:	three (3) blades two (2) blades metal-sheet monocoque skid type one turbo-shaft engine



- 3. Equipment The approved items of equipment are listed in Airbus Helicopters document No. 350A044320. The basic required equipment specified in the applicable airworthiness regulations (see certification basis) must be installed on the aircraft at certification time and at any time after certification.
- 4. Dimensions

5.

4.1 Fuselage	Length: 10.93 m
	Width hull: 1.87 m
	Height: 3.14 m
4.2 Main Rotor	Diameter: 10.69 m, 3 blades
4.3 Tail Rotor	Diameter: 1.83 m, 2 blades
Engine	
5.1 Model	Honeywell International Inc. (former: Lycoming Engines)
	1 x Model LTS 101-600A-2
5.2 Type Certificate	FAA TC/TCDS n°: E5NE

5.2	Type Certificate	FAA TC/TCDS n°:	E5NE
		DGAC FR TC/TCDS n°:	M.IM 5
		EASA TC/TCDS n°:	EASA.IM.E.228

5.3 Limitations

5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG ** [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		105.6		843***
Max. TOP (5 min)	733	103.7	459	782
MCP	704	102.2	440	763

The installed engine limitations at MCP are: NG = 48 930 rpm, and T4 = 755°C

Notes: - Maximum T4 on take-off: 899°C***

- * ISA, ground level
- ** 100% = 47 866 rpm
- *** Max. operating time with temperature above 818°C: 12 sec.
- 5.3.2 Transmission Torque Limits

Max. TQ: 101% (100% corresponds to 396 kW power output at 386 rpm MR speed)

6. Fluids

7.

6.1	Fuel	Refer to approved RFM	N
6.2	Oil	Refer to approved RFM	N
6.3	Additives	Refer to approved RFM	M
Fluic	capacities		
7.1	Fuel	Fuel tank capacity: Usable fuel: Unusable fuel:	540 litres 538.7 litres, post AMS 07 0289 1.3 litre, post AMS 07 0289
7.2	Oil	Engine: MGB: TGB:	4.0 litres 6.5 litres (circuit included) 0.33 litre
7.3	Coolant System Capacity	n/a	



8.	Air Speed Limitations	 at higher altitu (20 km/h per 1 	
			en -30° C and -40° C, subtract 10 kt om the above decreasing law.
9.	Rotor Speed Limitations	Power on: Maximum Minimum Power off: Maximum Minimum	386 rpm 380 rpm 424 rpm 320 rpm (audio warning below 335 rpm)
10.	Maximum Operating Altitude and Temperature		
	10.1 Altitude	TKOF/LDG: En route:	refer to approved RFM 15 000 ft (4 575 m)
	10.2 Temperature	Refer to approve	ed RFM
11.	Operating Limitations	operational regu	the additional equipment required by lations is installed and serviceable. (For on refer to RFM).
12.	Maximum Mass	1 950 kg	
13.		Linear variat Lateral C.G Limit L.H. limit: R.H. limit:	ard limit: vard limit: o to 1 300 kg or 1 900 kg and up to 1 950 kg. ion between the points
14.	Datum	of MRH centre li	e (STA 0) is located at 3 400 mm forward ine. symmetry plane
15.	Levelling Means	Transmission de	eck
16.	Minimum Flight Crew	1 pilot (right sea	it)
17.	Maximum Passenger Seating Capacity	equipment, the increased to six	h the forward 2-place seat optional maximum number of passengers is (pilot not included). This option is to be nce with the corresponding RFMS.
18.	Passenger Emergency Exit	2 (two), one on	each side of the passenger cabin
19.	Maximum Baggage/ Cargo Loads	Max. load in: R.H. side hold: L.H. side hold: Rear hold: Forward cabin fl Rear cabin floor	0
20.	Rotor Blade Control Movement	For rigging infor	mation refer to Maintenance Manual
21.	Auxiliary Power Unit (APU)	n/a	



22. Life-limited Parts	The AS 350 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA, contains limitations which are mandatory.

IV. Operating and Service Instructions

1.	Flight Manual	AS 350 D Flight Manual, initially approved by DGAC FR on 4 July 1978, or later EASA (or DGAC FR) approved revision (reference: in French language).
2.	Maintenance Manual	 AS 350 Master Servicing Manual AS 350 Maintenance Manual Compatibility between optional items of equipment is described: from an installation aspect in the: "Master Servicing Recommendations", from an operational aspect in: "Supplements" chapter of the Flight Manual.
3.	Structural Repair Manual	AS 350 Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	AS 350 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Aérospatiale, Eurocopter France, Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.

V. Notes

- Manufacturer's eligible serial numbers: For AS 350 D: s/n 1028, and subsequent. For AS 350 C converted into AS 350 D, see Note 3.
- 2. AS 350 C aircraft may be converted into AS 350 D by application of Service Bulletin 01.01.
- 3. The commercial designation is: AStar
- 4. Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



AS 350

EASA

AS 350 B1

Small Rotorcraft

Airbus Helicopters

(pre EASA: DGAC, France)

28 September 2003,

19 June 1974 (see II.3.)

9 January 1986

Aéroport International Marseille Provence

13725 Marignane CEDEX, France

to DGAC FR: 13 December 1984

EASA.R.008 (former DGAC FR: 157)

EASA.R.008 (former DGAC FR: 157)

(i), 2nd bullet, 1st indented bullet.

For details about II.3., see Note V.3

for OSD elements: 17 February 2014.

FAR Part 27, Amdts. 1 to 10 included

in accordance with CR (EU) 1702/2003, Article 2, 3., (a),

as above (2.1) with the following additional requirement

of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

Complementary and Special Conditions defined in DGAC FR letters 6518, dated 17 August 1976 and 6437, dated

For Airworthiness and Environmental Protection:

SECTION 3: AS 350 B1

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date
- II. Certification Basis
- 1. Reference Date for determining the applicable requirements
- 2. Airworthiness Requirements 2.1
 - 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [223244-0 / 704A42690057])
- 3. Special Conditions
- 28 July 1977 and 53639, dated 25 June 1985 4. Exemptions none 5. Deviations none 6. **Equivalent Safety Findings** none 7. **Environmental Protection Requirements** 7.1 Noise Requirements see TCDSN EASA.R.008 7.2 Emission Requirements n/a 8. **Operational Suitability Data (OSD)** see SECTION 10 below 8.1 Master Minimum Equipment List (MMEL) JAR-MMEL Amdt.1, dated 1 August 2005 8.2 Flight Crew Data (FCD) CS-FCD Initial Issue 31 January 2014

III. Technical Characteristics and Operational Limitations

1. Type Design Definition

Document 350A044455



2.	Description	Main rotor:three (3) bladesTail rotor:two (2) bladesFuselage:metal-sheet monocoqueLanding gear:skid typePowerplant:one turbo-shaft engineDesigned as a derivative of model AS 350 B.
3.	Equipment	The approved items of equipment are listed in Airbus Helicopters document No. 350A044320. The basic required equipment specified in the applicable airworthiness regulations (see certification bases) must be installed on the aircraft at certification time and at every time after certification.
4.	Dimensions	
	4.1 Fuselage	Length: 10.93 m Width hull: 1.87 m Height: 3.14 m
	4.2 Main Rotor	Diameter: 10.69 m, 3 blades
	4.3 Tail Rotor	Diameter: 1.86 m, 2 blades
5.	Engine	
	5.1 Model	Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 1D

- 5.2 Type Certificate
- 5.3 Limitations
 - 5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG ** [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		105.5		
Max. TOP (5 min)	830	101.2 100.8	510	845
MCP		98	450	795

TC/TCDS n°: EASA.E.073 (former DGAC FR n° M5)

Notes: - * ISA, ground level

- ** 100% = 51 800 rpm

5.3.2 Transmission Torque Limits

Max. TQ:	
- IAS 40 kt - 74 km/h, or higher:	94%
- IAS below 40 kt - 74 km/h:	100%
100% TQ corresponds to:	
- 488 kW power output at 394 rpm MR speed	
- 478 kW power output at 386 rpm MR speed	

6. Fluids

6.1	Fuel	Refer to approved RFM

- 6.2 Oil Refer to approved RFM
- 6.3 Additives Refer to approved RFM



7.	Fluid capacities		
	7.1 Fuel	Fuel tank capacite Usable fuel: Unusable fuel:	y: 540 litres 538.7 litres post AMS 07 0289 1.25 litre post AMS 07 0289
	7.2 Oil	Engine: MGB: TGB:	6.2 litres 6.5 litres (circuit included) 0.33 litre
	7.3 Coolant System Capacity	n/a	
8.	Air Speed Limitations	 (18 km/h/1 000 in cold weather (19 km/h) from V_{NE} power-off: 125 KIAS (231 k at altitude, spe (18 km/h/1 000 in cold weather the above V_{NE}: 10 kt (19 km/l) 20 kt (37 km/l) 	ed decreases by 3 kt/1 000 ft 0 m) r, for -30°C > OAT, subtract 10 kt the above V_{NE} . cm/h) for H _P =0 ed decreases by 3 kt/1 000 ft
9.	Rotor Speed Limitations	Minimum Power off: Maximum	394 rpm 385 rpm 430 rpm 320 rpm (audio warning below 365 rpm)
10.	Maximum Operating Altitude and Temperature		
	10.1 Altitude	TKOF/LDG: En route:	14 000 ft PA (4 267 m) 20 000 ft PA (6 096 m)
	10.2 Temperature	Refer to approve	d RFM
11.	Operating Limitations	-	the additional equipment required by ations is installed and serviceable. (For refer to RFM).
12.	Maximum Mass	2 200 kg	
13.	Centre of Gravity Range	2 000 kg and 2 3 200 mm at 2 Maximum rearwa 3 500 mm up to	d limit: 2 2 000 kg 1 from 3 170 mm to 3 200 mm between 200 kg 200 kg 200 kg 1 200 kg 1 from 3 500 mm to 3 430 mm between 200 kg 200 kg



R.H. limit: 140 mm

14.	Datum	Longitudinal: the datum plane (STA 0) is located at 3 400mm forward of MRH centre line. Lateral: aircraft symmetry plane
15.	Levelling Means	Transmission deck
16.	Minimum Flight Crew	1 pilot (right seat)
17.	Maximum Passenger Seating Capacity	5 When the aircraft is fitted with the forward two-place seat optional equipment, the maximum number of passengers is increased to six (pilot not included). This option is to be used in accordance with the corresponding RFMS.
18.	Passenger Emergency Exit	2 (two), one on each side of the passenger cabin
19.	Maximum Baggage/ Cargo Loads	Max. load in: R.H. side hold: 100 kg L.H. side hold: 120 kg Rear hold: 80 kg Forward cabin floor: 150 kg Rear cabin floor: 310 kg
20.	Rotor Blade Control Movement	For rigging information refer to Maintenance Manual
21.	Auxiliary Power Unit (APU)	n/a
22.	Life-limited Parts	The AS 350 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA, contains limitations which are mandatory.
IV. O	Operating and Service Instructions	
1.	Flight Manual	AS 350 B1 Flight Manual, initially approved by DGAC FR on 9 January 1986, or later EASA (or DGAC FR) approved revision (reference: in French language).
2.	Maintenance Manual	 AS 350 Master Servicing Manual AS 350 Maintenance Manual Compatibility between optional items of equipment is described: from an installation aspect in the: "Master Servicing Recommendations", from an operational aspect in: "Supplements" chapter of the Flight Manual.
3.	Structural Repair Manual	AS 350 Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	AS 350 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Aérospatiale, Eurocopter France, Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.



V. Notes

- 1. Manufacturer's eligible serial numbers: For AS 350 B1: s/n 1822, and subsequent.
- 2. The commercial designation is: Ecureuil
- 3. Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



AS 350

AS 350 B2

SECTION 4: AS 350 B2

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date

II. Certification Basis

1. Reference Date for determining the applicable requirements

Airworthiness Requirements 2.1

- 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [223244-0 / 704A42690057])
- 3. Special Conditions

Small Rotorcraft **Airbus Helicopters** Aéroport International Marseille Provence 13725 Marignane CEDEX, France For helicopters manufactured under license see subparagraph V.1 – Eligible serial numbers. to DGAC FR: 6 October 1988 FASA (pre EASA: DGAC FR, France) 26 April 1989 EASA.R.008 (former DGAC FR: 157) EASA.R.008 (former DGAC FR: 157) 28 September 2003, in accordance with CR (EU) 1702/2003, Article 2, 3., (a), (i), 2nd bullet, 1st indented bullet. For details about II.3. and II.6., see Note V.3

For Airworthiness and Environmental Protection: 19 June 1974 (see II.3.)

for OSD elements: 17 February 2014.

FAR Part 27, Amdts. 1 to 10 included as above (2.1) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

Complementary and special conditions defined in letters 6518, dated 17 August 1976, 6437, dated 28 July 1977, and 53639, dated 25 June 1985 (see letter 53151/SFACT/TC, dated 9 February 1989). For aircraft equipped with VEMD major modification, as above plus Special Conditions on protection against the effects of High Intensity Radiated Fields (F-01 HIRF) and Lightning (F-02).

Equivalent Safety Findings for Powerplant Instrument

- Exemptions
 Deviations
- 6. Equivalent Safety Findings
- 7. Environmental Protection Requirements
 - 7.1 Noise Requirements see TCDSN EASA.R.008
- 7.2 Emission Requirementsn/a8. Operational Suitability Data (OSD)see SECTION 10 below
 - 8.1 Master Minimum Equipment List (MMEL) JAR-MMEL Amdt.1, dated 1 August 2005



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Markings (F-05)

none

none

8.2 Flight Crew Data (FCD)

1.	Type Design Definition	Document 350A	044541
2.	Description	Main rotor: Tail rotor: Fuselage: Landing gear: Powerplant: Designed as a de	three (3) blades two (2) blades metal-sheet monocoque skid type one turbo-shaft engine erivative of model AS 350 B1.
3.	Equipment	Helicopters docu The basic require airworthiness re	ems of equipment are listed in Airbus ument No. 350A044320. ed equipment specified in the applicable gulations (see certification bases) must he aircraft at certification time and at certification.
4.	Dimensions		

- 10.93 m 4.1 Fuselage Length: Width hull: 1.87 m Height: 3.14 m 4.2 Main Rotor Diameter: 10.69 m, 3 blades 4.3 Tail Rotor Diameter: 1.86 m, 2 blades Engine 5.1 Model Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 1D1
 - 5.2 Type Certificate TC/TCDS n°: EASA.E.073 (former DGAC FR n° M5)
 - 5.3 Limitations

5.

5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	B2 without VEMD Gas generator NG ** (Δ Ng) [%]	B2 with VEMD Gas generator NG ** (Δ Ng) [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		107.5 % (+6)	103.1 % (+1)		
Max. TOP (5 min)	830	without P2 air bleed (0) with P2 air bleed (-0.6)	Automatic P2 derating by VEMD	478***	845
МСР		98% (-3.5)	98% (-4)	449	795

Notes: - * ISA, ground level

- ** 100% = 51 800 rpm
 - *** The mechanical power has been limited to this value taking the fuel flow limit into account.
- 5.3.2 Transmission Torque Limits
 - Max. continuous TQ:
 - TKOF TQ range from 0 to 40 kt: 94% to 100% 100%
 - Max. TKOF TQ:
 - Max. transient TQ (5s):
 - 100% TQ corresponds to: 478 kW at 386 rpm MR speed



94%

107%

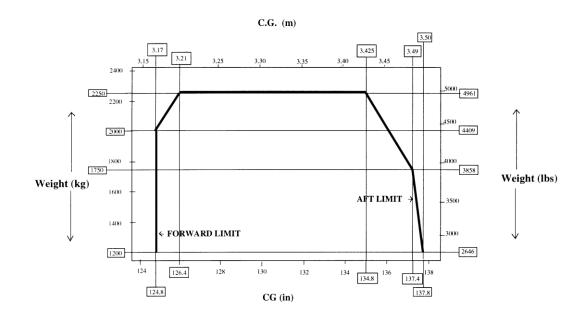
Date: 19 April 2024

6.	Fluids			
	6.1 Fuel	Refer to approved R	FM	
	6.2 Oil	Refer to approved R	FM	
	6.3 Additives	Refer to approved R	FM	
7.	Fluid capacities			
	7.1 Fuel	Fuel tank capacity: Usable fuel: Unusable fuel:	540 litres 538.7 litres 1.3 litre	post AMS 07 0289 post AMS 07 0289
	7.2 Oil	Engine: MGB: TGB:	5.2 litres 6.5 litres (ci 0.33 litre	rcuit included)
	7.3 Coolant System Capacity	n/a		
8.	Air Speed Limitations	 per 1 000 m) in cold weather, s above V_{NE}: 10 kt (19 km/h), 20 kt (37 km/h), less than 65 KIA 	decreases by 3) or -30°C > OAT e above V_{NE} . 'h) for $H_P=0$ decreases by 3 ubtract the fol for -20°C > OA for -30°C > OA	, subtract 10 kt 3 kt/1 000 ft (18 km/h lowing values from the
9.	Rotor Speed Limitations	Minimum 38 Power off: Maximum 43 (au		bove 410 rpm) varning below 360 rpm)
10.	Maximum Operating Altitude and Temperature			
	10.1 Altitude		fer to approve 000 ft PA (6 0	
	10.2 Temperature	Refer to approved R	FM	
11.	Operating Limitations	VFR day VFR night, when the additional equipment required by operational regulations is installed and serviceable. (For more information refer to RFM). Flight in falling snow: refer to approved RFM (For more information refer to approved RFM)		l and serviceable. (For roved RFM
12.	Maximum Mass	2 250 kg		



13. Centre of Gravity Range

Longitudinal C.G. limits



Lateral C.G Limits L.H. limit: 180 mm R.H. limit: 140 mm

14. Datum

- 15. Levelling Means
- 16. Minimum Flight Crew
- 17. Maximum Passenger Seating Capacity

18. Passenger Emergency Exit

- 19. Maximum Baggage/ Cargo Loads
- 20. Rotor Blade Control Movement
- 21. Auxiliary Power Unit (APU)
- 22. Life-limited Parts

Longitudinal:

the datum plane (STA 0) is located at 3 400 mm forward of MRH centre line. Lateral: aircraft symmetry plane

Transmission deck

1 pilot (right seat)

5

When the aircraft is fitted with the forward two-place seat optional equipment, the maximum number of passengers is increased to six (pilot not included). This option is to be used in accordance with the corresponding RFMS.

2 (two), one on each side of the passenger cabin

100 kg
120 kg
80 kg
150 kg
310 kg

For rigging information refer to Maintenance Manual

n/a

The AS 350 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA, contains limitations which are mandatory.



IV. Operating and Service Instructions

anual	AS 350 B2 Flight Manual, approved by DGAC FR on
	26 April 1989, or later approved revision (reference: in
	French language).
	For VEMD major modification:
	AS 350 B2 (VEMD) Flight Manual, approved under ref. EASA.R.C 01396 on 22 November 2006, or later approved revision (reference: in English language)
	AS 350 B2 (VEMD) Flight Manual, approved under ref.
	10029919 on 3 May 2010, or later approved revision
	(reference: in French language)
ance Manual	- AS 350 Master Servicing Manual
	- AS 350 Maintenance Manual
	Compatibility between optional items of equipment is described:
	 from an installation aspect in the:
	'Master Servicing Recommendations',
	- from an operational aspect in:
	'Supplements' chapter of the Flight Manual.
al Repair Manual	AS 350 Repair Manual
ind Balance Manual	Refer to approved RFM
ed Parts Catalogue	AS 350 B2 Illustrated Parts Catalogue
etters and Service Bulletins	As published by Aérospatiale, Eurocopter France, Eurocopter or Airbus Helicopters
l Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.
	List.

V. Notes

1. Manufacturer's eligible serial numbers: For AS 350 B2: s/n 2100, and subsequent.

For AS 350 B2 with VEMD major modification: s/n 4129, and subsequent.

- AS 350 B1 converted into AS 350 B2 by application by application of Service Bulletin n° 01.26 or 01.00.26
- AS 350 B aircraft converted into AS 350 B2 by application of Service Bulletin n° 01.00.51
- AS 350 BA aircraft converted into AS 350 B2 by application of Service Bulletin n° 01.00.50 or Service Bulletin n° 01.90.61

The aircraft, the s/n of which are listed in Airbus Helicopters document:

- L102-001 are manufactured under Helibras license;
- L 102-002 are manufactured under AE-MS license.
- 2. The commercial designation is: Ecureuil
- 3. Non-proprietary data contained in selected Special Conditions and Equivalent Safety Findings that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



SECTION 5: AS 350 BA

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date

II. Certification Basis

1. Reference Date for determining the applicable requirements

Airworthiness Requirements 2.1

- 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [223244-0 / 704A42690057])
- 3. Special Conditions
- 4. Exemptions
- 5. Deviations
- 6. Equivalent Safety Findings

1. Type Design Definition

- 7. Environmental Protection Requirements
 - 7.1 Noise Requirements see TCDSN EASA.R.008
 - 7.2 Emission Requirements n/a

III. Technical Characteristics and Operational Limitations

- 8. Operational Suitability Data (OSD)
 - 8.1 Master Minimum Equipment List (MMEL) JAR-MMEL Amdt.1, dated 1 August 2005
 - 8.2 Flight Crew Data (FCD)

Documents 350A044685

CS-FCD Initial Issue 31 January 2014

see SECTION 10 below



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AS 350

AS 350 BA

Small Rotorcraft

Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France. For helicopters manufactured under license see subparagraph V.1 – Eligible serial numbers.

to DGAC FR: 17 May 1991

EASA (pre EASA: DGAC FR, France)

26 November 1991

EASA.R.008 (former DGAC FR: 157)

EASA.R.008 (former DGAC FR: 157)

28 September 2003,
in accordance with CR (EU) 1702/2003, Article 2, 3., (a),
(i), 2nd bullet, 1st indented bullet.

For details about II.3., see Note V.3

For Airworthiness and Environmental Protection: 19 June 1974 (see II.3.)

for OSD elements: 17 February 2014.

FAR Part 27, Amdts. 1 to 10 included as above (2.1) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

Complementary and special conditions defined in letters 6518, dated 17 August 1976, 6437, dated 28 July 1977, and 53639, dated 25 June 1985 (see letter 53881, dated 14 August 1991)

none

none

- none
- ζS

2.	Description	Main rotor:three (3) bladesTail rotor:two (2) bladesFuselage:metal-sheet monocoqueLanding gear:skid typePowerplant:one turbo-shaft engineDesigned as a derivative of models AS 350 B1 andAS 350 B2.
3.	Equipment	The basic required equipment specified in the applicable airworthiness regulations (see certification bases) must be installed on the aircraft at certification time and at every time after certification.
4.	Dimensions	
	4.1 Fuselage	Length: 10.93 m Width hull: 1.87 m Height: 3.14 m
	4.2 Main Rotor	Diameter: 10.69 m, 3 blades
	4.3 Tail Rotor	Diameter: 1.86 m, 2 blades
5.	Engine	
	5.1 Model	Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 1B
	5.2 Type Certificate	TC/TCDS n°: EASA.E.073 (former DGAC FR n° M5)

- 5.3 Limitations
 - 5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG ** [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		105		
Max. TOP (5 min)	reserved	100	478	810
МСР		98	440	775

- Notes: * ISA, ground level
 - ** 100% = 51 800 rpm
 - Max. T4 starting: 840°C
- 5.3.2 Transmission Torque Limits

Max. TQ:	
- IAS 40 kt - 74 km/h, or higher:	83%
- IAS below 40 kt - 74 km/h:	88%
100% TQ corresponds to 478 kW pow	ver output at 386 rpm MR speed

6. Fluids

6.1 Fuel	Refer to approved RFM
6.2 Oil	Refer to approved RFM
6.3 Additives	Refer to approved RFM
Fluid capacities	
7.1 Fuel	Fuel tank capacity:540 litresUsable fuel:538.7 litrespost AMS 07 0289Unusable fuel:1.3 litrepost AMS 07 0289
7.2 Oil	Engine:5.2 litresMGB:6.5 litres (circuit included)



TGB:

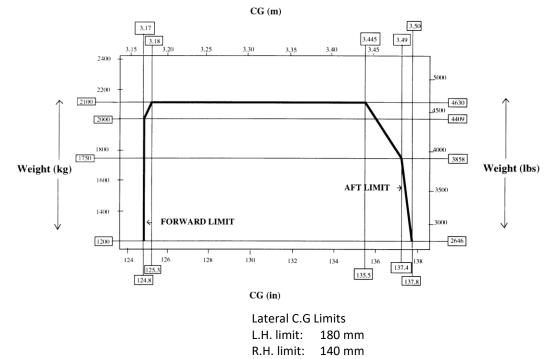
0.33 litre

7.

	7.3 Coolant System Capacity	n/a	
8.	Air Speed Limitations	 (18 km/h/1 00 in cold weather (19 km/h) from VNE power-off: 125 KIAS (231 at altitude, spectra (18 km/h/1 00) in cold weather above VNE: 10 kt (19 km, 20 kt (37 km, 20 kt (eed decreases by 3 kt/1 000 ft 00 m) er, for -30°C > OAT, subtract 10 kt m the above V_{NE} . km/h) for PA=0 eed decreases by 3 kt/1 000 ft
9.	Rotor Speed Limitations	Power on: Maximum Minimum Power off: Maximum Minimum	394 rpm 385 rpm 430 rpm (audio warning above 410 rpm) 320 rpm (audio warning below 360 rpm)
10.	Maximum Operating Altitude and Temperature		
	10.1 Altitude	TKOF/LDG: En route:	refer to approved RFM 16 000 ft PA (4 875 m)
	10.2 Temperature	Refer to approve	ed RFM
11.	Operating Limitations	operational regu	the additional equipment required by alations is installed and serviceable. (For on refer to RFM).
12.	Maximum Mass	2 100 kg	
10	Contro of Crowity Dongo	Longitudinal C.C. limita	

13. Centre of Gravity Range

Longitudinal C.G. limits





14.	Datum	Longitudinal: the datum plane (STA 0) is located at 3 400mm forward of MRH centre line. Lateral: aircraft symmetry plane
15.	Levelling Means	Transmission deck
16.	Minimum Flight Crew	1 pilot (right seat)
17.	Maximum Passenger Seating Capacity	5 When the aircraft is fitted with the forward two-place seat optional equipment, the maximum number of passengers is increased to six (pilot not included). This option is to be used in accordance with the corresponding RFMS.
18.	Passenger Emergency Exit	2 (two), one on each side of the passenger cabin
19.	Maximum Baggage/ Cargo Loads	Max. load in:R.H. side hold:100 kgL.H. side hold:120 kgRear hold:80 kgForward cabin floor:150 kgRear cabin floor:310 kg
20.	Rotor Blade Control Movement	For rigging information refer to Maintenance Manual
21.	Auxiliary Power Unit (APU)	n/a
22.	Life-limited Parts	The AS 350 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA, contains limitations which are mandatory.
<u>IV. (</u>	Operating and Service Instructions	
1.	Flight Manual	AS 350 BA Flight Manual, approved by DGAC FR on 26 November 1991, or later EASA (or DGAC FR) approved revision (reference: in French language).
2.	Maintenance Manual	 AS 350 Master Servicing Manual AS 350 Maintenance Manual Compatibility between optional items of equipment is described: from an installation aspect in the: "Master Servicing Recommendations", from an operational aspect in: "Supplements" chapter of the Flight Manual.
3.	Structural Repair Manual	AS 350 Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	AS 350 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Aérospatiale, Eurocopter France, Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.



V. Notes

- 1. Manufacturer's eligible serial numbers:
 - For AS 350 BA: s/n 2588, and subsequent.
 - AS 350 B aircraft converted into AS 350 BA by application of Service Bulletin n° 01.00.35
 AS 350 D aircraft converted into AS 350 BA by application of Service Bulletin n° 01.00.40
 - The aircraft, the s/n of which are listed in Airbus Helicopters document:
 - L102-001 are manufactured under Helibras license;
 - L102-002 are manufactured under AE-MS license.
- 2. The commercial designation is: Ecureuil
- 3. Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



AS 350

EASA

AS 350 BB

Small Rotorcraft

Airbus Helicopters

Aéroport International Marseille Provence

paragraph V.1 – Eligible serial numbers.

EASA.R.008 (former DGAC FR: 157)

EASA.R.008 (former DGAC FR: 157)

(i), 2nd bullet, 1st indented bullet.

For details about II.3., see Note V.3

for OSD elements: 17 February 2014.

For helicopters manufactured under license see sub-

in accordance with CR (EU) 1702/2003, Article 2, 3., (a),

For Airworthiness and Environmental Protection:

13725 Marignane CEDEX, France

to DGAC FR: 23 July 1996

(pre EASA: DGAC FR, France)

15 November 1996

28 September 2003,

19 June 1974 (see II.3.)

SECTION 6: AS 350 BB

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date

II. Certification Basis

Reference Date for determining the 1. applicable requirements

2. **Airworthiness Requirements** 2.1

- 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [223244-0 / 704A42690057])
- 3. **Special Conditions**
- 4. Exemptions
- 5. Deviations
- 6. **Equivalent Safety Findings**
- 7. **Environmental Protection Requirements**
 - 7.1 Noise Requirements
 - 7.2 Emission Requirements
- 8. **Operational Suitability Data (OSD)**
 - 8.1 Master Minimum Equipment List (MMEL) JAR-MMEL Amdt.1, dated 1 August 2005
 - 8.2 Flight Crew Data (FCD)

III. Technical Characteristics and Operational Limitations

1. Type Design Definition 350A044825



FAR Part 27, Amdts. 1 to 10 included as above (2.1) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

Complementary and special conditions defined in letters 6518, dated 17 August 1976, 6437, dated 28 July 1977, and 53639, dated 25 June 1985

- none

see TCDSN EASA.R.008 n/a see SECTION 10 below

CS-FCD Initial Issue 31 January 2014

- none
- none

2.	Description	Main rotor: Tail rotor: Fuselage: Landing gear: Powerplant:	three (3) blades two (2) blades metal-sheet monocoque skid type one turbo-shaft engine
3.	Equipment	Helicopters doc The basic requir airworthiness re	tems of equipment are listed in Airbus nument n° 350A044320. red equipment specified in the applicable egulations (see certification bases) must the aircraft at certification time and at r certification.
4.	Dimensions		
	4.1 Fuselage	Length: 1 Width hull: Height:	10.93 m 1.87 m 3.14 m
	4.2 Main Rotor	Diameter: 1	10.69 m, 3 blades
	4.3 Tail Rotor	Diameter:	1.86 m, 2 blades
5.	Engine		

- 5.1 ModelSafran Helicopter Engines (former: Turbomeca)1 x Model Arriel 1D1 (with TU 221)
 - 1 × 1010
 - TC/TCDS n°: EASA.E.073 (former DGAC FR n° M5)
- 5.3 Limitations

5.2 Type Certificate

5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG ** [%]	Min. guaranteed PWR * [kW]	Temperature T4*** [°C]
Max. transient (5 sec)		105.7		
Max. TOP (5 min)	reserved	98.5	478	845
МСР		96.5	428	795

Notes: - * ISA, ground level

- ** Min. stabilised rating: 67% - 100% = 51 800 rpm

- *** Max. transient during starting: 865°C
- 5.3.2 Transmission Torque Limits

Max. continuous: 88% for IAS < 60 kt
 Max. transient: 107% for IAS < 40 kt
 88% TQ corresponds to 420 kW power output at 386 rpm MR speed, or, 429 kW at 394 rpm MR speed.

6. Fluids

	6.1 Fuel	Refer to approved RFM	
	6.2 Oil	Refer to approved RFM	
	6.3 Additives	Refer to approved RFM	
7.	Fluid capacities		
	7.1 Fuel	Fuel tank capacity: Usable fuel: Unusable fuel:	540 litres 538.7 litres post AMS 07 0289 1.3 litre post AMS 07 0289
	7.2 Oil	Engine: MGB: TGB:	5.2 litres 6.5 litres (circuit included) 0.33 litre



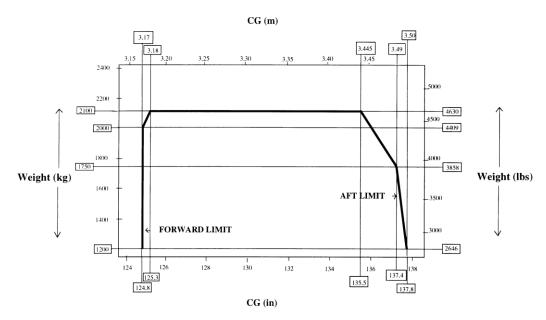
AS 350 / EC 130

	7.3 Coolant System Capacity	n/a	
8.	Air Speed Limitations	 n/a V_{NE} power-on: 155 KIAS (287 km/h) for PA=0 at altitude, speed decreases by 3 kt/1 000 ft (18 km/h/1 000 m) in cold weather, for -30°C > OAT, subtract 10 kt (19 km/h) from the above V_{NE}. V_{NE} power-off: 125 KIAS (231 km/h) for PA=0 at altitude, speed decreases by 3 kt/1 000 ft (18 km/h/1 000 m) in cold weather, substract the following values from the above V_{NE}: 10 kt (19 km/h), for -20°C > OAT > -30°C 20 kt (37 km/h), for -30°C > OAT, without V_{NE} being less than 65 KIAS (120 km/h). 	
9.	Rotor Speed Limitations	Power on: Maximum Minimum Power off: Maximum Minimum	394 rpm 385 rpm 430 rpm (audio warning above 410 rpm) 320 rpm (audio warning below 360 rpm)
10.	Maximum Operating Altitude and Temperature		
	10.1 Altitude	TKOF/LDG: En route:	refer to approved RFM 16 000 ft PA (4 875 m)
	10.2 Temperature	Refer to approve	ed RFM
11.	Operating Limitations	operational regu	n the additional equipment required by ulations is installed and serviceable. (For on refer to RFM).
12.	Maximum Mass	2 100 kg	



13. Centre of Gravity Range

Longitudinal C.G. limits



Lateral C.G Limits L.H. limit: 180 mm R.H. limit: 140 mm

14. Datum

15. Levelling Means

16. Minimum Flight Crew

17. Maximum Passenger Seating Capacity

18. Passenger Emergency Exit

- 19. Maximum Baggage/ Cargo Loads
- 20. Rotor Blade Control Movement
- 21. Auxiliary Power Unit (APU)
- 22. Life-limited Parts

Longitudinal: the datum plane (STA 0) is located at 3 400 mm forward of MRH centre line. Lateral: aircraft symmetry plane Transmission deck

1 pilot (right seat)

5

When the aircraft is fitted with the forward two-place seat optional equipment, the maximum number of passengers is increased to six (pilot not included). This option is to be used in accordance with the corresponding RFMS.

2 (two), one on each side of the passenger cabin

Max. load in:	
R.H. side hold:	100 kg
L.H. side hold:	120 kg
Rear hold:	80 kg
Forward cabin floor:	150 kg
Rear cabin floor:	310 kg

For rigging information refer to Maintenance Manual

n/a

The AS 350 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA, contains limitations which are mandatory.



IV. Operating and Service Instructions

1.	Flight Manual	AS 350 BB Flight Manual, approved by DGAC FR on 15 November 1996, or later EASA (or DGAC FR) approved revision (reference: in French language).
2.	Maintenance Manual	 AS 350 Master Servicing Manual AS 350 Maintenance Manual Compatibility between optional items of equipment is described: from an installation aspect in the: "Master Servicing Recommendations", from an operational aspect in: "Supplements" chapter of the Flight Manual.
3.	Structural Repair Manual	AS 350 Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	AS 350 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Eurocopter France, Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.

V. Notes

- Manufacturer's eligible serial numbers: For AS 350 BB: s/n 2945, and subsequent.
- 2. The commercial designation is: Ecureuil
- 3. Non-proprietary data contained in selected Special Conditions that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.



SECTION 7: AS 350 B3

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer

4. Type Certification Application Date

- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date

II. Certification Basis

Reference Date for determining the 1. applicable requirements

2. **Airworthiness Requirements**

- 2.1
- 2.2 for a/c incorporating mod. OP-3369 (2 370 kg weight extension), and/or, mod. OP-4305 (Arriel 2D engine installation)

- 2.3 for a/c incorporating mod. OP-4605 (installation of a fuel system improving crashworthiness)
- 2.4 for a/c incorporating mod. 07.20034 (installation of a fuel swing installation)

AS 350

AS 350 B3

Small Rotorcraft

Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France For helicopters manufactured under license see subparagraph V.1 – Eligible serial numbers.

to DGAC FR: 14 October 1996 FASA

(pre EASA: DGAC FR, France)

24 December 1997

EASA.R.008 (former DGAC FR: 157)

EASA.R.008 (former DGAC FR: 157)

28 September 2003, in accordance with CR (EU) 1702/2003, Article 2, 3., (a), (i), 2nd bullet, 1st indented bullet.

For details about II.3. and II.6., see Note V.4

For Airworthiness and Environmental Protection: 19 June 1974 (see II.3.)

for OSD elements: 17 February 2014.

FAR Part 27, Amdts. 1 to 10 included

as above (2.1) with the following requirements of CS 27, first issue, dated 14 November 2003 to replace the same numbered paragraphs of FAR 27: 27.1; 27.21; 27.25; 27.27; 27.33; 27.45; 27.51; 27.65; 27.71; 27.73; 27.75; 27.79; 27.141; 27.143; 27.173; 27.175; 27.177; 27.241; 27.301; 27.303; 27.305; 27.307; 27.309; 27.321; 27.337; 27.339; 27.341; 27.351; 27.471; 27.473; 27.501; 27.505; 27.521; 27.547; 27.549; 27.563 (b); 27.571; 27.602; 27.661; 27.663; 27.695; 27.723; 27.725; 27.727; 27.737; 27.751; 27.753; 27.801 (b),(d); 27.927 (c); 27.1041; 27.1043; 27.1045; 27.1301; 27.1501; 27.1519; 27.1529; 27.1581; 27.1583; 27.1585; 27.1587; 27.1589.

as above (2.2) with requirement CS 27.561 (c) Amdt. 3, dated 11 December 2012 replacing same numbered paragraph of FAR 27 for the following elements of the fuel tank lower structure, affected by this modification: cradles, longitudinal beams, X-stops and rods (C-03).

as above (2.3) amended by the following additional or alternative airworthiness requirements CS-27 Amdt. 3, system crash resistance compatible with dated 11 December 2012: 27.863, 27.901 (b)(5), 27.952, 27.963 (e)(f)(g)(h), 27.967, 27.973, 27.975 (b) for the fuel system and airframe structure/fuel system interfaces.



- 2.5 For a/c equipped with Emergency Floatation System (EFS) (removable
- parts P/N / MPN: [223244-0 / 704A42690057])
- 3. **Special Conditions**
 - 3.1
 - 3.2 for a/c incorporating mod. OP-3369 (2 370 kg weight extension)
 - 3.3 for a/c incorporating mod. OP-4305 (Arriel 2D engine installation) and/or mod. OP-4605 (installation of a fuel system improving crashworthiness) and/or mod. 07.20034 (installation of a fuel swing installation)

as above (2.4) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

Date: 19 April 2024

- Complementary and special conditions defined in DGAC FR letter 971726, dated 3 April 1997. - Rechargeable Lithium battery installations (F-24), - Lightweight Data Recorder installation (F-25). as above (3.1) as above (3.2) and: - Part 21.A.21 (d) taking precedence over "Complementary Condition" CC 27.903 (a) in Appendix 1 to DGAC letter 971726, Power plant control (E-02 (X1)) replacing Special Condition B.1. in Appendix 2 to DGAC letter 971726, Structure protection against lightning (D-01 (X1)) replacing Special Condition D.1. in Appendix 2 to DGAC letter 971726, system crash resistance compatible with - Protection from effects of HIRF (F-01 (X1)) replacing Special Condition E1 in Appendix 3 to DGAC letter 971726, - Immunity from effects of lightning (F-02 (X1)) replacing Special Condition E2 per Appendix 3 to DGAC letter 971726, - Rotor drive system endurance test for HIP (E-01 (X1). Exemptions none Deviations none **Equivalent Safety Findings** Powerplant Instrument Markings (G-01 (X1)) for a/c incorporating MOD OP-4305 (Arriel 2D engine installation) **Environmental Protection Requirements** 7.1 Noise Requirements see TCDSN EASA.R.008 7.2 Emission Requirements n/a **Operational Suitability Data (OSD)** see SECTION 10 below 8.1 Master Minimum Equipment List (MMEL) JAR-MMEL Amdt.1, dated 1 August 2005
- 8.2 Flight Crew Data (FCD)
- **III.** Technical Characteristics and Operational Limitations

1.	Type Design Definition	modification OP Document 350A	044805 045426 for aircraft incorporating -3369 (2 370 kg weight extension). 047343 for aircraft incorporating -4305 (Arriel 2D engine installation)
2.	Description	Main rotor: Tail rotor: Fuselage: Landing gear: Powerplant: Designed as a de	three (3) blades two (2) blades metal-sheet monocoque skid type one turbo-shaft engine erivative of model AS 350 B2.



CS-FCD Initial Issue 31 January 2014

4.

5.

6.

7.

8.

Equipment

Dimensions

3.

4.

5.

The approved items of equipment are listed in Airbus Helicopters document No. 350A044320. The basic required equipment specified in the applicable airworthiness regulations (see certification bases) must be installed on the aircraft at certification time and at every time after certification.

- 4.1 Fuselage Length: 10.93 m Width hull: 1.87 m Height: 3.14 m 4.2 Main Rotor Diameter: 10.69 m, 3 blades 4.3 Tail Rotor Diameter: 1.86 m, 2 blades Engine 5.1 Model Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 2B, or, 1 x Model Arriel 2B1, or, 1 x Model Arriel 2D 5.2 Type Certificate Same TC/TCDS for the 3 engines models, n°: EASA.E.001
 - 5.3 Limitations

5.3.1 Installed Engine Limitations and Transmission Torque Limits

On AS 350 B3 Arriel 2B (before modifications AMS 072803 and 072808):

	Limit TQ on shaft [Nm]	Gas generator NG ** (Δ Ng) [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		102.3 % (+1)		
Max. TOP (5 min)	853	101.1 (0)	535	915
МСР	716	94.8 (-4) V _i > 70 kt	450	849
MCP	710	97.1 V _i < 70 kt (-4)	450	649

(former DGAC FR n° M19)

On AS 350 B3 Arriel 2B (after modifications AMS 072803 and 072808), and on AS 350 B3 Arriel 2B1:

	Limit TQ on shaft [Nm]	Gas generator NG ** (Δ Ng) [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (5 sec)		102.3 (+1)		
Max. TOP (5 min)	853	101.1 (0)	535	915
МСР	791	97.1 (-4)	497	849

Notes: - * ISA, ground level at 386 rpm MR speed

- ** 100% = 52 110 rpm – with neither electrical nor P2 bleed, ISA ground level



On AS 350 B3 Arriel 2D ****:

	Limit TQ on shaft [Nm]	Gas generator NG *** (Δ Ng) [%]	Min. guaranteed PWR * [kW]	Temperature T4 [°C]
Max. transient (20 sec)		101.9 (+1)		
Max. TOP (5 min) Max. TOP/HIP (30 min) *****	853	100.9 (0)	535	949
МСР	791	98.0 (-4)	497	905

Notes: - * ISA, ground level at 386 rpm MR speed.

- ** 100% = 52 110 rpm.

- *** As the actual Ng limitations depend on ambient conditions, the operational limitations are the Δ Ng values. Ng values correspond to the maximum Ng reached in the whole flight domain.

- **** The engine is not physically derated but its performance is limited when installed in the AS 350 B3. Specific limitations have been implemented in the VEMD, allowing the pilot to control the installed Arriel 2D at the same power limitations as when an Arriel 2B1 is installed, for each aircraft rating (MCP, MTOP and MTP).
- ***** Use of HIP (Hover Increased Power, TOP 30 min) is only allowed when enhanced thermal protection is fitted on the AS 350 B3 tail boom (modification OP-4309).

5.3.2 Transmission Torque Limits

On AS 350 B3 Arriel 2B (before modifications AMS 072803 and 072808):

For V < 40 kt (74 km/h):	
- Max. transient TQ (10 sec):	104%
- Max. continuous TQ:	100%
For V ≥ 40 kt (74 km/h):	
- Max. continuous TQ:	84%
On AS 350 B3 Arriel 2B (after m	odifications AMS 072803 and 072808):

For V < 40 kt (74 km/h):	
- Max. transient TQ (10 sec):	104%
- Max. continuous TQ:	100%
For V ≥ 40 kt (74 km/h):	
- Max. continuous TQ:	92.7%
On AS 350 B3 Arriel 2B1:	
- Max. continuous TQ:	92.7%
- TKOF TQ range from 0 to 40 kt:	92.7% to 100%
- Max. TKOF TQ:	100%
 Max. transient TQ (5 sec): 	104%
On AS 350 B3 Arriel 2D:	
- Max. continuous TQ:	92.7%
- TKOF TQ range from 0 to 40 kt:	92.7% to 100%
- Max. TKOF TQ:	100%
- Max. transient TQ (5 sec):	104%
Note: 100% TO corresponde to: F2F k	Wat 206 rpm MD a

Note: 100% TQ corresponds to: 535 kW at 386 rpm MR speed

6. Fluids

Refer to approved RFM



7.	Fluid capacities					
	7.1	Fuel	Fuel tank capacity: Usable fuel:	540 litres 538.7 litres	post AMS 07 0289	
				538 litres	post AMS OP 4605, or 07.20034	
			Unusable fuel:	1.3 litre	post AMS 07 0289	
				2 litres	post AMS OP 4605, or 07.20034	
	7.2	Oil	Engine: MGB: TGB:	5.2 litres 6.5 litres (circuit included) 0.33 litre		
	7.3	Coolant System Capacity	n/a			
8.	Air S	Speed Limitations				
	8.1	For AS 350 B3 Arriel 2B (before modifications AMS 072803 and 072808), and for AS 350 B3 Arriel 2B1:	 at altitude, speed di (18 km/h/1 000 m) in cold weather, for (19 km/h) from the V_{NE} power-off: 125 KIAS (231 km/h) at altitude, speed di (18 km/h/1 000 m), (120 km/h) in cold weather, sub 	AS (287 km/h) for PA=0 ude, speed decreases by 3 kt/1 000 ft /h/1 000 m) weather, for -30°C > OAT, subtract 10 kt /h) from the above V_{NE} . er-off: AS (231 km/h) for PA =0 ude, speed decreases by 3 kt/1 000 ft /h/1 000 m), without V_{NE} being less than 65 KIAS n/h) weather, substract 20 kt (37 km/h) from the V_{NE} for OAT < -20°C, without V_{NE} being less than		
	8.2	For AS 350 B3 Arriel 2B (after modifications AMS 072803 and 072808):	 VNE power-on: 155 KIAS (287 km/h) for PA=0 at altitude, speed decreases by 3 kt/1 000 ft (18 km/h/1 000 m) in cold weather, for -30°C > OAT, subtract 10 kt (19 km/h) from the above V_{NE}. In the cross-hatched area in the C of G graph, V_{NE} is limited to 133 KIAS (246 km/h) or the V_{NE} defined above (the lowest value). V_{NE} power-off: 125 KIAS (231 km/h) for PA =0 at altitude, speed decreases by 3 kt/1 000 ft (18 km/h/1 000 m), without V_{NE} being less than 65KIAS (120 km/h) in cold weather, substract 20 kt (37 km/h) from the above V_{NE} for OAT < -20°C, without V_{NE} being less than 65 KIAS (120 km/h). 			

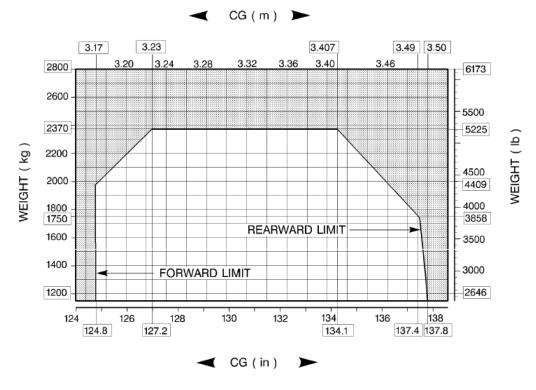


	8.3	For AS 350 B3 Arriel 2D:	 (18 km/h/1 00 in cold weather (19 km/h) from In the cross-har limited to 133 above (the low VNE power-off: 125 KIAS (231) at altitude, sp (18 km/h/1 00 (120 km/h)) in cold weather 	eed decreases by 3 kt/1 000 ft b) er, for -30°C > OAT, subtract 10 kt m the above V_{NE} . atched area in the C of G graph, V_{NE} is KIAS (246 km/h) or the V_{NE} defined west value). km/h) for PA =0 eed decreases by 3 kt/1 000 ft 00 m), without V_{NE} being less than 65 KIAS er, substract 20 kt (37 km/h) from the OAT < -20°C, without V_{NE} being less than
9.	Roto	or Speed Limitations		
	9.1	For AS 350 B3 Arriel 2B:	Power on: Maximum Minimum	394 rpm 385 rpm
	9.2	For AS 350 B3 Arriel 2B1:	Power on: Maximum Minimum	405 rpm 375 rpm
	9.3	For AS 350 B3 Arriel 2D:	Power on: Maximum Minimum	405 rpm 375 rpm
	9.4	For all AS 350 B3:	Power off: Maximum Minimum	430 rpm (audio warning above 410 rpm) 320 rpm (audio warning below 360 rpm)
10.	Max	imum Operating Altitude and Temperature		
	10.1	Altitude	TKOF/LDG:	refer to approved RFM
			En route:	23 000 ft PA (7 010 m), see Note 3
	10.2	2 Temperature	Refer to approve	ed RFM
11.	Ope	rating Limitations	operational regu	the additional equipment required by ulations is installed and serviceable. (For on refer to RFM).
12.	Max	imum Mass	2 250 kg 2 370 kg, for airc	raft incorporating modification OP 3369

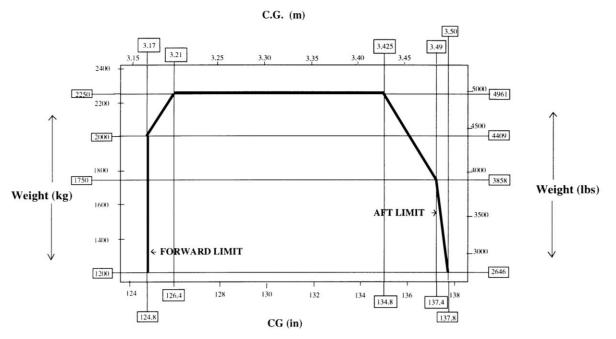


13. Centre of Gravity Range

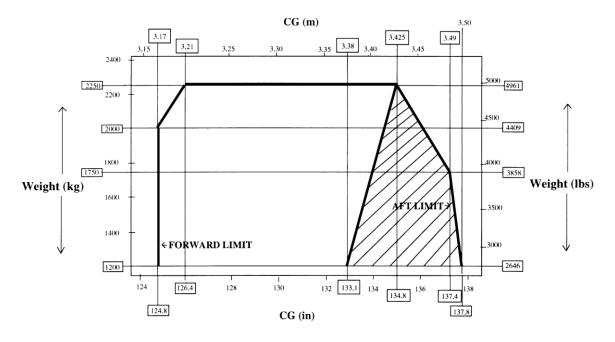
13.1 Longitudinal C.G. limits for AS 350 B3 Arriel 2B1 for aircraft incorporating modification OP-3369:



13.2 Longitudinal C.G. limits for AS 350 B3 Arriel 2B (before modifications AMS 072803 and 072808), and for AS 350 B3 Arriel 2B1

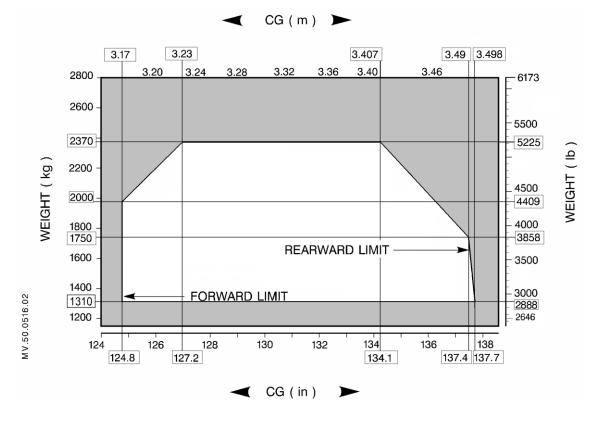


**** * * ****

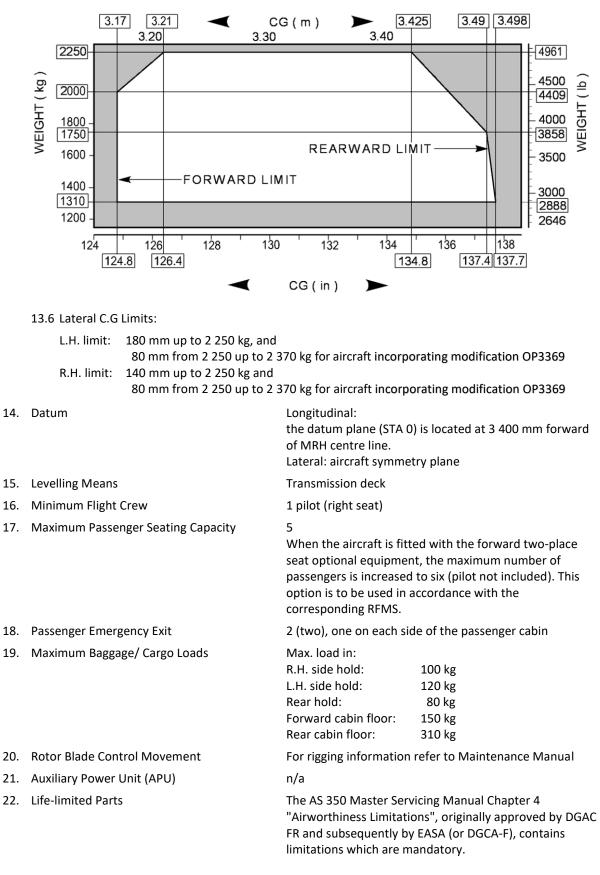


13.3 Longitudinal C.G. limits for AS 350 B3 Arriel 2B (after modifications AMS 072803 and 072808):





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13.5 Longitudinal C.G. limits for AS 350 B3 Arriel 2D:



IV. Operating and Service Instructions

	Clickt Manual	AC 250 D2 Amint 2D Flight Manual America day DCAC 5D
1.	Flight Manual	 AS 350 B3 Arriel 2B Flight Manual, approved by DGAC FR on 24 December 1997 plus rapid revision RR 1A (after modifications AMS 072803 and 072808), or later (DGAC FR and subsequently EASA) approved revisions (reference: in English language).
		 AS 350 B3 Arriel 2B1 Flight Manual, approved by DGAC FR on 16 July 2004, or later (DGAC FR and subsequently EASA) approved revision (reference: in English language).
		 AS 350 B3e Flight Manual, in English (for a/c incorporating mod. OP-4305 – Arriel 2D engine installation – and additional modifications to the tail rotor control system – see point 2 in section V. Notes), EASA-approved 17 June 2011, or later approved revisions
		 AS 350 B3e Flight Manual, in French (for a/c incorporating mod. OP-4305 – Arriel 2D engine installation – and additional modifications to the tail rotor control system see point 2 in section V. Notes), EASA-approved 17 June 2011, or later approved revisions.
2.	Maintenance Manual	 - AS 350 B3 Master Servicing Manual - AS 350 Maintenance Manual Compatibility between optional items of equipment is described: - from an installation aspect in the: "Master Servicing Recommendations", - from an operational aspect in: "Supplements" chapter of the Flight Manual.
3.	Structural Repair Manual	AS 350 Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	AS 350 B3 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.

V. Notes

- 1. Manufacturer's eligible serial numbers:
 - for AS 350 B3: s/n 2968, s/n 3063, and subsequent.
 - for AS 350 B3: s/n 4201, and subsequent for aircraft incorporating modification OP-3369 (2 370 kg weight extension).
 - for AS 350 B3: s/n 4767, and subsequent for aircraft incorporating modification OP-4305 (with or without modification OP-3369).

The aircraft, the s/n of which are listed in Airbus Helicopters document:

- L102-001 are manufactured under Helibras license;
- L 102-002 are manufactured under AE-MS license.
- 2. The commercial designation is: Ecureuil
 - The commercial designation related to particular modifications (MOD):
 - OP-4305 (Arriel 2D engine installation), and additionally,
 - 07-5601 (Tail rotor control mechanism modification),
 - 07-5600 (Tail rotor blade reinforcement),
 - 07-8551 (Tail Gear Box control lever modification)

is H125 (previously AS 350 B3e).



3. For helicopters fitted with:

- Arriel 2B engine and Pre-MOD 072810; or,
- Arriel 2B1 or Arriel 2D engine, and Post-Mod 073368 and Pre-MOD AL-4236;
- en route altitude is 20 000 ft (6 096m).
- 4. Non-proprietary data contained in selected Special Conditions, Equivalent Safety Findings and Requirements elected to comply, that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.

* * *



SECTION 8: EC 130 B4

I. General

1.	Type/ Model	
	1.1 Type	

- 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. Type Certificate Date by DGAC FR
- 7. Type Certificate n°
- 8. Type Certificate Data Sheet n°
- 9. EASA Type Certification Date
- II. Certification Basis
- 1. Reference Date for determining the applicable requirements
- 2. Airworthiness Requirements 2.1
 - 2.2 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [217228-1 / 704A42690053] or [217227-1 // 704A42690054])
- 3. Special Conditions
- 4. Exemptions
- 5. Deviations

6. Equivalent Safety Findings

EC 130

EC 130 B4

Small Rotorcraft

Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France

to JAA: 23 March 1998

EASA (pre EASA: DGAC FR, France)

14 December 2000 (JAA recommendation date: same)

EASA.R.008 (former DGAC FR: 157)

EASA.R.008 (former DGAC FR: 157) (based on JAA data sheet No JAA/27/00/003, Issue 6, dated June 2004)

28 September 2003,
in accordance with CR (EU) 1702/2003, Article 2, 3., (a),
(i), 2nd bullet, 1st indented bullet.

For details about II.3., II.4. and II.6., see Note V.3

For Airworthiness and Environmental Protection: 23 March 1998

for OSD elements: 17 February 2014.

JAR 27, Issue 1, dated 6 September 1993, and Orange Paper Amdt. 27/98/1, effective 16 February 1998. <u>Note:</u> Administrative requirements (e.g. ANR) may apply.

as above (2.1) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

High intensity radiated field (HIRF) (F-01)

- Rear seat bench with regard to JAR 27.562^(*) and JAR 27.785^(*) (a),(b),(j) (C-01 and D-01)
- Fuel systems with regard to JAR 27.952 (a),(c),(d),(f),(g) (E-01)
- (*): see Note 2

none

n/a

- Main gearbox oil filter bypass (E-04)
- Powerplant instrument markings (F-03)
- 7. Environmental Protection Requirements
 - 7.1 Noise Requirements
 - 7.2 Emission Requirements



see TCDSN EASA.R.008

Operational Suitability Data (OSD) see SECTION 10 below
 8.1 Master Minimum Equipment List (MMEL)
 AR-MMEL Amdt.1, dated 1 August 2005
 Flight Crew Data (FCD) CS-FCD Initial Issue 31 January 2014

III. Technical Characteristics and Operational Limitations

1.	Type Design Definition	Document 350A047053
2.	Description	Main rotor:three (3) bladesTail rotor:Fan-in-fan, ten (10) bladesFuselage:composite and metal-sheet monocoqueLanding gear:skid typePowerplant:one turbo-shaft engineDesigned as a derivative of model AS 350 B3.
3.	Equipment	As per compliance with JAR 27 requirements and included in the original Type Design Standard or indicated on the Section 2 - Limitations of the RFM
4.	Dimensions	
	4.1 Fuselage	Length: 10.68 m Width hull: 2.03 m Height: 3.61 m
	4.2 Main Rotor	Diameter: 10.69 m, 3 blades
	4.3 Tail Rotor	Diameter: 1.00 m, 10 blades
5.	Engine	
	5.1 Model	Safran Helicopter Engines (former: Turbomeca) 1 x Model Arriel 2B1

- 5.2 Type Certificate
- 5.3 Limitations
 - 5.3.1 Installed Engine Limitations and Transmission Torque Limits

	Limit TQ on shaft [Nm]	Gas generator NG * [%]	Min. guaranteed PWR [kW]	Temperature T4** [°C]
Max. transient		102.3 (+1)		865 (10 sec)
Max. TOP (5 min)	reserved	101.1 (0)	reserved	915
МСР		97.1 (-4)	reserved	849

TC/TCDS n°: EASA.E.001 (former DGAC FR n° M19)

<u>Notes:</u> - * 100% = 52 110 rpm

- ** Max. continuous during starting: 750°C

- 5.3.2 Transmission Torque Limits
 - Max. transient (5 sec): 104%
 - Max. take-off: 100%
 - Max. continuous: 92.7%
 - 100% TQ corresponds to 536 kW at 6 000 rpm engine speed = 386 rpm MR speed.

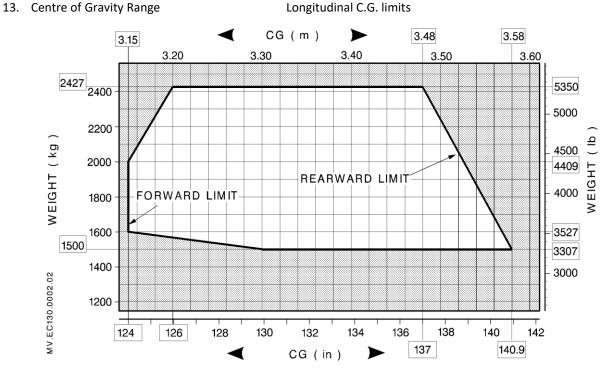
Refer to approved RFM

6. Fluids



7.	Fluid capacities		
	7.1 Fuel	Fuel tank capacity: Usable fuel:	540 litres 538.7 litres
			538 litres post AMS MC.8020 (retrofit installation of a crash resistant fuel system)
		Unusable fuel:	1.3 litre
			2 litres post AMS MC.8020 (retrofit installation of a crash resistant fuel system)
	7.2 Oil	Refer to approved RF	M
	7.3 Coolant System Capacity	n/a	
8.	Air Speed Limitations	V _{NE} power-on: 155 KIAS for PA=0 les V _{NE} power-off: 125 KIAS for PA=0 les	
9.	Rotor Speed Limitations		
10.	Maximum Operating Altitude and Temperature		
	10.1 Altitude	TKOF/LDG: refer to	o approved RFM
		En route: 23 000	ft PA (7 010 m)
	10.2 Temperature		or -40°C after modification 076302 s°C limited to +50°C
11.	Operating Limitations	Aerobatic manoeuFlights under icing	and in freezing rain are prohibited ow are prohibited except if sand
12.	Maximum Mass	2 427 kg	





Lateral C.G Limits L.H. limit: 100 mm R.H. limit: 100 mm

- 14. Datum
- 15. Levelling Means
- 16. Minimum Flight Crew
- 17. Maximum Passenger Seating Capacity
- 18. Passenger Emergency Exit
- 19. Maximum Baggage/ Cargo Loads

- 20. Rotor Blade Control Movement
- 21. Auxiliary Power Unit (APU)
- 22. Life-limited Parts

Longitudinal: the datum plane (STA 0) is located at 3 400 mm forward of MRH centre line. Lateral: aircraft symmetry plane

Mechanical floor

- 1 pilot (left seat)
- 6 (2 in the front and 4 in the rear)
- 7 (3 in the front and 4 in the rear) after modification OP-3673
- 2 (two), one on each side of the fuselage

Loading 300 kg/m² except 145 kg/m² for rear cargo compartment. Max. load in:

R.H. cargo compartment:	130 kg
L.H. cargo compartment:	155 kg
Rear cargo compartment:	80 kg
Forward cabin floor:	405 kg
Rear cabin floor:	495 kg

For rigging information refer to Maintenance Manual

n/a

The EC 130 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA (or DGCA FR), contains limitations which are mandatory.



IV. Operating and Service Instructions

1.	Flight Manual	 EC 130 B4 Flight Manual (in English), approved by DGAC FR on 29 November 2000, or later approved revision. EC 130 B4 Flight Manual (in French), approved by DGAC FR on 27 May 2002, or later approved revision.
2.	Maintenance Manual	 EC 130 B4 Master Servicing Manual – Chapter 04 (Airworthiness Limitations), approved by DGAC FR on 6 December 2000, or later EASA (DGAC FR) approved revision/edition (in English) EC 130 Maintenance Manual
3.	Structural Repair Manual	EC 130 B4, T2 Structural Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	EC 130 B4 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Eurocopter or Airbus Helicopters

7. Required Equipment

Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment List.

V. Notes

- Manufacturer's eligible serial numbers: For EC 130 B4: s/n 3358, and subsequent.
- 2. OP-3640 is compliant with JAR 27.785 and FAR 27.562, Amdt. 32 (CRD 350ABN0071 issue c), unless further modifications have been performed.
- 3. Non-proprietary data contained in selected Special Conditions, Exemptions and Equivalent Safety Findings that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.

* * *



SECTION 9: EC 130 T2

I. General

- 1. Type/ Model
 - 1.1 Type
 - 1.2 Model
- 2. Airworthiness Category
- 3. Manufacturer
- 4. Type Certification Application Date
- 5. State of Design Authority
- 6. EASA Type Certification Date

II. Certification Basis

- 1. Reference Date for determining the applicable requirements
- 2. Airworthiness Requirements
 - 2.1
 - 2.2 for a/c incorporating MOD. 074581 (new tail boom: structure and flight controls)

- 2.3 For a/c equipped with Emergency Floatation System (EFS) (removable parts P/N / MPN: [217228-1 / 704A42690053] or [217227-1 // 704A42690054])
- 3. Special Conditions

EC 130

EC 130 T2

Small Rotorcraft

Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France

14 October 2010

EASA

25 May 2012

For details about II.3. and II.5 see Note V.3

For Airworthiness and Environmental Protection: 23 March 1998

for OSD elements: 17 February 2014.

JAR 27 1st issue, dated 6 September 1993, and Orange Paper Amdt. 27/98/1, effective 16 February 1998.

as above (2.1) with the following requirements of CS 27 Amdt. 3 of 11 December 2012 as replacement of the same numbered paragraphs of JAR 27 1st issue, dated 6 September 1993 and Orange Paper Amdt. 27/98/1, effective 16 February 1998:

- for the rear engine compartment: §305, §307, §351 (rear engine cowling), §471, §473-a, §501, §603, §609, §610, §613, §1529;
- for the tailboom: §305, §307, §471, §473 (a), §501,
 §571(metallic cone junctions), §573 (composite spacer),§603, §609, §610, §613, §1529 with addition of §351, §1041, §1043, §1045, §1194 for the specific rear transmission fairing including thermal shield area;
- for the fenestron structure: §305, §307, §411, §471, §473 (a), §501, §571, §573 (Fenestron one-shot structure), §603, §609, §610, §613, §725-a, §1529; for the cooling aspects of roar transmission: §1041
- for the cooling aspects of rear transmission: §1041, §1043, §1045.

as above (2.2) with the following additional requirement of CS 27, Amdt. 10, dated 27 January 2023: 27.1587-b3

- High intensity radiated field (F-01 (X2))
- Rotor drive system endurance test for HIP rating (E-02 (X2))
- Rechargeable Lithium battery installations (F-24)
- Lightweight Data Recorder installation (F-25)

4. Deviations





5.	Equi	ivalent Safety Findings	 Main gearbox oil filter by pass (EC 130 B4 E-04) Powerplant instrument markings (G-01 (X2)) 	
6.	Envi	ronmental Protection Requirements		
	6.1	Noise Requirements	see TCDSN EAS	SA.R.008
	6.2	Emission Requirements	n/a	
7.	Ope	rational Suitability Data (OSD)	see SECTION 1	0 below
	7.1	Master Minimum Equipment List (MMEL)	JAR-MMEL Am	dt.1, dated 1 August 2005
	7.2	Flight Crew Data (FCD)	CS-FCD Initial I	ssue 31 January 2014
<u>III. Т</u>	echni	ical Characteristics and Operational Limita	<u>tions</u>	
1.	Туре	e Design Definition	Document 350	A047422
2.	Desc	cription	Main rotor: Tail rotor: Fuselage: Landing gear: Powerplant: Designed as a d	Fan-in-fan ten (10) blades Composite and metal-sheet monocoque
3.	Equi	ipment	included in the	nce with EC 130 T2 certification basis and original Type Design Standard or indicated 2 - Limitations of the RFM.
4.	Dim	ensions		
	4.1	Fuselage	Length: Width hull: Height:	10.68 m 2.03 m 3.61 m
	4.2	Main Rotor	Diameter:	10.69 m, 3 blades
	4.3	Tail Rotor	Diameter:	1.00 m, 10 blades
5.	Engi	ne		
	5.1	Model	Safran Helicop 1 x Model Arrie	ter Engines (former: Turbomeca) el 2D
	5.2	Type Certificate	TC/TCDS n°: EA	SA.E.001
	5.3	Limitations		

- 5.3 Limitations
 - 5.3.1 Installed Engine Limitations and Transmission Torque Limits:

		Gas generator *** NG ** (Δ Ng) [%]		Temperature T45 [°C]
Max. transient (20 sec)		102.8 (+1)		
Max. TOP (5 min) **** Max. TOP (30 min) HIP ****	951	101.7 (0)	597.5	949
МСР	773	97.7 (-4)	485.7	905

Notes: - * ISA, ground level at 386 rpm MR speed.

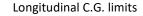
- ** 100% = 52 110 rpm.
- *** As the actual Ng limitations depend on ambient conditions, the operational limitations are the Δ Ng values. Ng values correspond to the maximum Ng reached in the whole flight domain.
- **** Use of 'TOP (30 min)' power is limited to 30 min. continuous use. Cumulated use per flight of 'TOP (5 min)' and 'TOP (30 min)' powers is limited to 60 min.

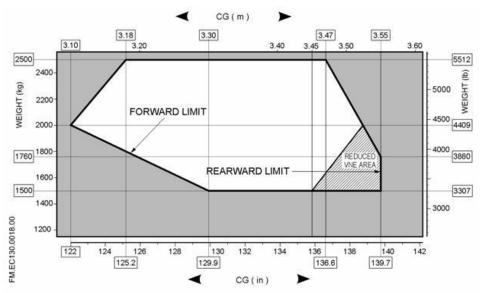


6.	5.3.2 Transmission Torque Limits Fluids	 Max. transient (5 sec): 104% Max. take-off: 100% Max. continuous: 81.3% 100% TQ corresponds to 598 kW at 386 rpm MR speed. Refer to approved RFM
7.	Fluid capacities	
	7.1 Fuel	Fuel tank capacity:540 litresUsable fuel:538 litres
	7.2 Oil	Refer to approved RFM
	7.3 Coolant System Capacity	n/a
8.	Air Speed Limitations	 V_{NE} power-on: 155 KIAS at MSL less 3 kt/1 000 ft 136 KIAS at MSL less 3 kt/2 000 ft below 12 750 ft PA for reduced V_{NE} area (refer to RFM) V_{NE} power-off: 125 KIAS at MSL less 3 kt/1 000 ft
9.	Rotor Speed Limitations	Power on:Maximum405 rpmMinimum375 rpmPower off:
10.	Maximum Operating Altitude and Temperature	
	10.1 Altitude	TKOF/LDG: refer to approved RFM
		En route: 23 000 ft PA (7 010 m)
	10.2 Temperature	Minimum: -40°C Maximum: ISA +35°C limited to +50°C
11.		 Day VFR Night VFR, when additional equipment required by operational regulations is installed and serviceable Aerobatic manoeuvres are prohibited Flights under icing conditions and in freezing rain are prohibited Flights in falling snow are prohibited except if sand filter is installed (see RFMS SUP.14) For more information refer to Flight Manual
12.	Maximum Mass	2 500 kg

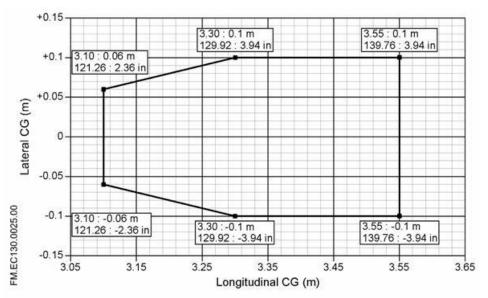


13. Centre of Gravity Range





Lateral C.G Limits



- 14. Datum
- 15. Levelling Means
- 16. Minimum Flight Crew
- 17. Maximum Passenger Seating Capacity
- 6 (2 in the front and 4 in the rear)
 7 (3 in the front and 4 in the rear) if modification OP-3673 or OP-3888 is installed.

the datum plane (STA 0) is located at 3 400 mm forward

- 18. Passenger Emergency Exit
- 2 (two), one on each side of the fuselage



Longitudinal:

of MRH centre line.

Mechanical floor

1 pilot (left seat)

Lateral: aircraft symmetry plane

19.	Maximum Baggage/ Cargo Loads	Loading 300 kg/m², except 145 kg/m² for rear cargo compartment. Max. load in: R.H. cargo compartment: 130 kg L.H. cargo compartment: 155 kg Rear cargo compartment: 80 kg Forward cabin floor: 405 kg Rear cabin floor: 495 kg
20.	Rotor Blade Control Movement	For rigging information refer to Maintenance Manual
21.	Auxiliary Power Unit (APU)	n/a
22.	Life-limited Parts	The EC 130 Master Servicing Manual, Chapter 4 "Airworthiness Limitations", originally approved by DGAC FR and subsequently by EASA (or DGCA-F), contains limitations which are mandatory.
<u>IV.</u>	Operating and Service Instructions	
1.	Flight Manual	EC 130 T2 Flight Manual (in English), EASA-approved on 25 May 2012, or later approved revision
2.	Maintenance Manual	 EC 130 Master Servicing Manual – Chapter 04 (Airworthiness Limitations Section), EASA-approved on 25 June 2012, or later approved revision/edition (in English). EC 130 Maintenance Manual
3.	Structural Repair Manual	EC 130 B4, T2 Structural Repair Manual
4.	Weight and Balance Manual	Refer to approved RFM
5.	Illustrated Parts Catalogue	EC 130 T2 Illustrated Parts Catalogue
6.	Service Letters and Service Bulletins	As published by Eurocopter or Airbus Helicopters
7.	Required Equipment	Refer to EASA-approved Rotorcraft Flight Manual and related supplements for other approved mandatory and optional equipment and Master Minimum Equipment

V. Notes

- 1. Manufacturer's eligible serial numbers: For EC 130 T2: s/n 7355, and subsequent.
- 2. The commercial designation is: H130
- 3. Non-proprietary data contained in selected Special Conditions and Equivalent Safety Findings that are part of the Certification Basis are published in the 'Explanatory Note No: TCDS EASA.R.008'. The document is not exhaustive and will be gradually updated.

List.

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SECTION 10: OPERATIONAL SUITABILITY DATA (OSD)

The OSD elements listed below are approved by the European Union Aviation Safety Agency as per Commission Regulation (EU) 748/2012, as amended by Commission Regulation (EU) No 69/2014.

OSD Elements

1. MMEL

For all models: MMEL AS 350 and EC 130, Normal Revision 4, Issue 2, Date code 12-06, dated 27 September 2015, or later EASA approved revisions

2. Flight Crew Data

For all models:

EASA Operational Suitability Data (OSD) Flight Crew Data (FCD) ECUREUIL/SINGLE ENGINE FAMILY AS350B/D/B1/B2/BA/BB/B3 and EC130B4/T2, NR2, data code 19-50, or later EASA approved revisions.



SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

ALS	Airworthiness Limitations Section	MRH	Main Rotor Hub	
Amdt.	Amendment	MSL	Mean Sea Level	
B.L.	Butt Line	MSM	Maintenance Servicing Manual	
TGB	Tail Gear Box	MTOP	Maximum Take-off Power	
MGB	Main Gear Box	MTP	Maximum Transient Power	
C.G.	Centre of Gravity	NG	Gas Generator	
CR	(European) Commission Regulation	OSD	Operational Suitability Data	
DGAC FR	Direction Générale de l'Aviation Civile	PA	Pressure Altitude	
	- France	PWR	Power	
HIRF	High Intensity Radiated Field	R.H.	right-hand	
IAS	Indicated air speed	RFM	Rotorcraft Flight Manual	
JAA	Joint Aviation Authorities	RFMS	Rotorcraft Flight Manual supplement	
JAR	Joint Aviation Requirements	s/n	Serial Number	
L.H.	left-hand	sec	Seconds	
LDG	Landing	STA	Station	
Max.	Maximum	TKOF	Take-Off	
MCP	Maximum Continuous Power	то	Take-Off	
min	Minute	ТОР	Take-Off Power	
Min.	Minimum	TQ	Torque	
MMEL	Master Minimum Equipment List	VFR	Visual Flight Rules	
MOD	Modification	V _{NE}	Never Exceed Speed	
MR	Main rotor	text	partly amended text	

II. Type Certificate Holder Record

Type Certificate Holder	Period
Aerospatiale 37, Boulevard de Montmorency 75781 Paris CEDEX 16, France	From 27 October 1977 until 31 December 1991
Eurocopter France Aéroport International Marseille Provence 13725 Marignane CEDEX, France	From 1 January 1992 until 31 May 1997
Eurocopter Aéroport International Marseille Provence 13725 Marignane CEDEX, France	From 1 June 1997 until 6 January 2014
Airbus Helicopters Aéroport International Marseille Provence 13725 Marignane CEDEX, France	Since 7 January 2014



III. Surrendered Models

Model		
AS 350 C	This helicopter model was certified by DGAC FR under Type Certificate n° 157 on 2 September 1977. The type design was surrendered and subsequently cancelled on 1 June 1997 following the cancellation of the certification of its Lycoming LTS 101-600 A turboshaft engine on 20 April 1987.	
AS 350 D1	This helicopter model was certified by DGAC FR under Type Certificate n° 157 on 4 July 1978. The type design was surrendered and subsequently cancelled on 14 December 2000.	

IV. Change Record

Issue	Date	Changes	TC issue
lssue 1	18 Oct 2005	Initial issue of EASA TCDS and supersedes DGAC FR TCDS No. 157, issue 16	Initial Issue, 18 October 2005
Issue 2	23 Jan 2007	AS 350B3 OP-3369 added, AS 350B2 VEMD added	
Issue 3	12 Oct 2007	AS 350 B2 installed engine limits corrected; AS 350 B2 VEMD installed engine limits added; SBs for AS 350 B1, AS 350 B, and AS 350 BA conversion into AS 350 B2 added	
Issue 4	23 Nov 2009	Engine TCDS references corrected; §865 removed from airworthiness requirements for AS 350 B3 OP- 3369; transmission torque limits definitions corrected; SB for AS 350 BA conversion into AS 350 B2 added	
lssue 5	17 Jun 2011	AS 350 B2 (VEMD) Flight Manual (reference in French language) added, limitations placard corrected, Arriel 2B1 installed engine limits corrected in AS 350 B3 and EC 130 B4 sections, AS 350B3 OP-4305 incorporated	
Issue 6	25 May 2012	EC 130 T2 model added; note "**" under Arriel 2D installed engine limits table in AS 350 B3 section corrected; superseded DGAC FR TCDS issuance date corrected; TCDS format and editorial changes	Re-issued 25 May 2012
lssue 7	7 Jan 2014	Name change of Type Certificate holder from Eurocopter to Airbus Helicopters; duration of Arriel 2D maximum transient power corrected in AS 350 B3 and EC 130 T2 installed engine limits tables; reference to modification OP-3888 added in Maximum number of occupants (including flight crew) for EC 130 T2	Re-issued 7 January 2014
Issue 8	17 Jul 2014	AS 350B3 OP-4605 added	
Issue 9	18 Mar 2015	Precisions added to the fuel quantities of AS 350 B3	
lssue 10	15 Dec 2015	List of Acronyms completed, all Sections numbered; new "Operational Suitability Data" Section introduced.	
lssue 11	9 Mar 2018	Review and correction of data, update to new format	
Issue 12	14 Mar 2019	All Sections: reference to CRI removed; EC 130 B4, T2: in IV.2 Structural Repair Manual added; EC 130 T2: in II.2 certification basis updated following MOD 074581; AS 350 B3: IV.1 RFM reference to Note V.2 2 corrected	
Issue 13	24 Jan 2020	AS 350 B2, B3, EC 130 T2: SC and ESF references amended; AS 350 B3: 07.20034 (Crash Resistant Fuel System)	



Issue	Date	Changes	TC issue
		added; All Models: OSD, I.3 and II.2 updated	
Issue 14	2 Jun 2020	AS 350 B3: in III., 5.3.1 for Arriel 2D the MCP PWR corrected; change bars Issue 13 maintained for clarity.	
Issue 15	22 Feb 2021	Reference to 'Explanatory Note to TCDS EASA.R.008' added in II. and V.	
Issue 16	8 Apr 2022	AS 350 B3: in II.3.1, SC F-24 and F-25 added; All Models: II.1 reference date amended; II. adapted to TCDS format policy; SECTION 10: OSD I. moved to SECTION 1-9, II.	
Issue 17	19 Oct 2022	EC 130 T2: In II.2.2, wording update for MOD 074581; in II.3, SC F-24 and F-25 added;	
lssue 18	19 April 2024	AS350 B, B1, B2, BA, BB, B3 // EC130 B4, T2: in II.2 certification basis updated following EFS sea state addition in RFM // CS26 compliance	

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