MINISTRY OF TRANSPORT OF THE RUSSIAN FEDERATION

FEDERAL AIR TRANSPORT AGENCY

Type Certificate Data Sheet

№ FATA-AS350/EC130

Models:

- AS350B
- AS350B1
- AS350B2
- AS350BA
- AS350B3
- EC130B4
- EC130T2

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Content

This Data Sheet which is the integral part of Type Certificate № CT107-350, Supplements to Type Certificate and Major changes approval. It prescribes the conditions and limitations under which the product for which the type certificate was issued meets the requirements of Certification Basis.

1. Helicopter model AS 350B

Type Certificate Holder

Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Manufacturer

Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Aircraft description

Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear

Category

Normal

Applicability

AS350B helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling

Type Certification Data

Type Certificate №CT107-350.
Issued by IAC AR on 14 June 1996

Type Design

Defined in the following documents:

- Flight Manual – AS350B, AS350B1, AS350BA with IAC AR Supplements;
- Service Manual – AS350;
- Overhaul Manual – 350;
- Repair Manual – AS350;
- Illustrated parts catalogue- AS350;
- AS350 Service Bulletins approved by EASA.

The helicopter must be equipped with the following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list):

- Pressure altimeter (in meters);
- Airspeed indicator (in km/h);
- Magnetic course indicator;
- Vertical speed indicator (in m/s);
- Attitude Indicator (horizon) with glide indication;
- Aircraft clock;
- Radio altimeter;
- Automatic Direction Finder (ADF);
- UHF radio.

Certification Basis

СБ350.27

Noise requirements

IAC AR Noise Type Certificate
№ 72 dated June 14, 1996.

Engine

ARRIEL 1B
manufactured by Turbomeca
Engine Type Certificate
№СТ92-Д dated on 22 June 1996.

Fuel

PT, TC-1 in accordance with GOST 10227-86
(foreign fuels types are listed in RFM)
Anti-ice additives: fluid "И" (GOST 8313), "И-М" (TU 6-10-1458), volume concentration 0.10-0.30%, anti-static Sigbol is approved for use in amounts up to 0.0005% by weight.

Approved oil types for engine and transmission gearbox

see in RFM

ARRIEL 1B Engine operational limits

Takeoff mode (5 min)	
Power	650 h.p. (478 kW)
Generator speed	51800 rpm 100%
Gas temperature before turbine	810 ºC

Maximum continuous mode	
Power	598 h.p. (440 kW)
Generator speed	50764 rpm 98%
Gas temperature before turbine	775 ºC

Rotor Limitations

Power on flight	385 rpm
Maximum in autorotation	424 rpm
Minimum in autorotation	320 rpm

Speed limitations

Vne – 147 kt (272 km/h) from 0 to 330 m, then decreasing by 20 km/h per 1000 m from 330 m. When OAT is between -30ºC… -40 ºC, 18.5 km/h have to be subtracted from the above decreasing law.

C.G. Reference

Longitudinal: - 3.4 mm forward of the MRH centerline
Lateral: Aircraft symmetry plane

Minimum crew	1 pilot in R.H. seat
Maximum take-off weight	1950 kg
Fuel capacity	540 liters
Number of seats	5 6 - if the aircraft is fitted with the forward dual passenger seat, approved layout is contained in document №350A04.4111
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg
Maximum operational altitude	4875 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40°C …ISA+35°C (Max +50°C).

2. Helicopter model AS 350B1

Type Certificate Holder	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Manufacturer	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Aircraft description	Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear
Category	Normal
Applicability	AS350 B1 helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling
Type Certification Data	Type Certificate №CT107-350. Issued by IAC AR on 14 June 1996
Type Design	Defined in the following documents: – Flight Manual – AS350B, AS350B1, AS350BA with IAC AR Supplements; – Service Manual – AS350; – Overhaul Manual – 350; – Repair Manual – AS350; – Illustrated parts catalogue- AS350; – AS350 Service Bulletins approved by EASA. **The helicopter must be equipped with the following equipment** (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): – Pressure altimeter (in meters); – Airspeed indicator (in km/h); – Magnetic course indicator; – Vertical speed indicator (in m/s); – Attitude Indicator (horizon) with glide indication; – Aircraft clock; – Radio altimeter; – Automatic Direction Finder (ADF); – UHF radio.
Certification Basis	СБ350.27
Noise requirements	IAC AR Noise Type Certificate № 72 dated June 14, 1996.

Engine	ARRIEL 1D manufactured by Turbomeca Engine Type Certificate №СТ92-Д dated on 22 June 1996.
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid “*И*” (GOST 8313), “*И*-М” (TU 6-10-1458), volume concentration 0.10-0.30%. Anti-static Sigbol is approved for use in amounts up to 0.0005% by weight.
Approved oil types for engine and transmission gearbox	see in RFM

ARRIEL 1D Engine operational limits

Takeoff mode (5 min)	
Power	693 h.p. (510 kW)
Generator speed	52214 rpm 100.8%
Gas temperature before turbine	845 ºC

Maximum continuous mode	
Power	612 h.p. (450 kW)
Generator speed	50764 rpm 98%
Gas temperature before turbine	795 ºC

Rotor Limitations

Power on flight	390 rpm
Maximum in autorotation	430 rpm
Minimum in autorotation	320 rpm

Speed limitations	**Power on:** Vne is limited by indicated air speed: 155 kt (287 km/h) from 0 m altitude. With altitude increasing, it is decreased by 18 km/h per each 1000 m. When OAT is lower than - 30°C Vne is additionally decreased by 19 km/h. **Power off:** Vne is limited by indicated air speed: 125 kt (231 km/h) from 0 m altitude. With altitude increasing, it is decreased by 18 km/h per each 1000 m. When OAT is lower than - 20°C Vne is additionally decreased by 19 km/h. When OAT is lower than - 30°C Vne is additionally decreased by 37 km/h (20 knots) except when Vne is lower than 120 km/h (65 knots).
C.G. Reference	Longitudinal: - 3.4 mm forward of the MRH centerline Lateral: Aircraft symmetry plane
Minimum crew	1 pilot in R.H. seat
Maximum take-off weight	2200 kg
Fuel capacity	540 liters
Number of seats	5 6 - if the aircraft is fitted with the forward dual passenger seat, approved layout is contained in AEROSPATIALE document №350A04.4111
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg
Maximum operational altitude	6096 m Maximum take-off and landing altitude 4267 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40°C …ISA+35°C (Max +50°C)

3. Helicopter model AS350BA

Type Certificate Holder:

Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Manufacturer:

Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Aircraft description

Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear

Category

Normal

Applicability

AS350BA helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling

Type Certification Data

Type Certificate №CT107-350.
Issued by IAC AR on 14 June 1996

Type Design

Defined in the following documents:

- Flight Manual – AS350B, AS350B1, AS350BA with IAC AR Supplements;
- Service Manual – AS350;
- Overhaul Manual – 350;
- Repair Manual – AS350;
- Illustrated parts catalogue- AS350;
- AS350 Service Bulletins approved by EASA.

The helicopter must be equipped with the following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list):

- Pressure altimeter (in meters);
- Airspeed indicator (in km/h);
- Magnetic course indicator;
- Vertical speed indicator (in m/s);

- Attitude Indicator (horizon) with glide indication;
- Aircraft clock;
- Radio altimeter;
- Automatic Direction Finder (ADF);
- UHF radio.

Certification basis

СБ350.27

Noise requirements

IAC AR Noise Type Certificate
№ 72 dated June 14, 1996.

Engine	ARRIEL 1B manufactured by Turbomeca Engine Type Certificate № СТ92-Д dated on 22 June 1996.
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid “*И*” (GOST 8313), “*И*-М” (TU 6-10-1458), volume concentration 0.10-0.30%. Anti-static Sigbol is approved for use in amounts up to 0.0005% by weight.
Approved oil types for engine and transmission gearbox	see in RFM

Engine operational limits:

Take-off (5 min)	
Power	650 h.p. (478.0 kW)
Generator speed	51800 rpm 100%
Gas temperature before turbine	810 ºC

Maximum continuous mode	
Power	598 h.p. (440 kW)
Generator speed	50764 rpm 98%
Gas temperature before turbine	775 ºC

Rotor Limitations:

Power on flight	390 rpm
Maximum in autorotation	430 rpm
Minimum in autorotation	320 rpm

Speed limitations	**Power on:** Vne is limited by indicated air speed: 155 kt (287 km/h) from 0 m altitude. With altitude increasing, it is decreased by 18 km/h per each 1000 m. When OAT is lower than - 30°C Vne is additionally decreased by 19 km/h. **Power off:** Vne is limited by indicated air speed: 125 kt (231 km/h) from 0 m altitude. With altitude increasing, it is decreased by 18 km/h per each 1000 m. When OAT is lower than - 20°C Vne is additionally decreased by 19 km/h (10 knots). When OAT is lower than - 30°C Vne is additionally decreased by 37 km/h (20 knots) except when Vne is lower than 120 km/h (65 knots).
C.G. Reference	Longitudinal: - 3.4 mm forward of the MRH centerline Lateral: Aircraft symmetry plane
Minimum crew	1 pilot in R.H. seat
Maximum take-off weight	2100 kg
Fuel capacity	540 liters
Number of seats	5 6 - if the aircraft is fitted with the forward dual passenger seat, approved layout is contained in AEROSPATIALE document №350A04.4111
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg
Maximum operational altitude	4875 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40 °C…ISA +35 °C (Max +50 °C)

Additional operational conditions limitations and information of AS350B, B1, BA helicopter models for operators in Russian Federation:

1. Flights in icing conditions are prohibited.
2. Markings for emergency equipment must be in Russian language.
3. The Type Certificate covers helicopters flying according only to VFR.
4. Helicopter should be equipped with emergency VHF radio.
5. Helicopter should be equipped with emergency flight data recorder (FDR).
6. There should be marking naming CIS fuel types near the filler neck.
7. Passenger transportation on the copilot seat is prohibited unless the copilot's controls are fully removed.
8. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
9. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
10. Flights with passengers over water beyond safe autorotation distance from land without emergency floatation gear are prohibited.

4. Helicopter model AS350B2

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Manufacturer:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Aircraft description	Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear
Category	Normal
Applicability	AS350B2 helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling
Type Certificate Data	Type Certificate №СТ107-350 dated June, 14 1996 issued by IAC AR
Type design	Defined in the document «AS350 FATA type design definition 350ABN0311», issue C
Certification Basis	СБ350.27
Noise requirements	Helicopter is compliant with: • Requirements of Aviation Regulations, Part 36 “Aircraft Noise Certification” Chapters A, H, O; • Requirements of ICAO Annex 16 “Environmental Protection”, Volume 1, Chapter 8.

Measured check-points	Established Noise Levels (EPNdb)	External Noise Levels, according to AP-36, ICAO Annex 16, Volume 1 (EPNdb)
Take-off	89.8	93.5
Flyover	87.6	92.5
Approach	91.4	94.5

Noise Type Certificate is applicable to all the AS350B2 rotorcraft products which do not have differences from Type Design, affecting the acoustic characteristics.

Engine	ARRIEL 1D1 manufactured by Turbomeca Engine Type Certificate № СТ92-Д dated on 22 June 1996.

Fuel TC-1, PT (GOST 10227-86)
(foreign fuels types are listed in RFM)

Approved oil types for engine and transmission gearbox

For engine	See RFM
For gearbox	See RFM

Arriel 1D1 engine operational limits:

Take-off (5 min)		
Power	650 h.p. (478.0 kW)	
Generator speed	Without P2 air bleed	With P2 air bleed
	52 577 rpm 101,5%	52 266 rpm 100,9%
Gas temperature before turbine	845 ºC	

Maximum continuous mode	
Power	610 h.p. (449 kW)
Generator speed	50764 rpm 98%
Gas temperature before turbine	795 ºC

100%=51800 rpm

Rotor Limitations:

Power on flight	390 (+4/-5) rpm
Maximum in autorotation	430 rpm
Minimum in autorotation	320 rpm

Maximum power transmitted By the main gear box: 650 hp (478 kW)

Speed limitations Vne is limited by indicated air speed:
155 kt (287 km/h)
Vne at autorotation speed:
125 kt (231 km/h)

Maximum take-off weight 2250 kg
2500 kg (with external load)

Maximum cargo weight inside fuselage 760 kg

External load maximum weight 1160 kg

C.G. Reference	See RFM	
Fuel capacity	Maximum used quantity	540 liters
	Unused quantity	1,25 liters
Minimum crew	1 pilot	
Number of seats	5	
	6 - if the aircraft is fitted with the forward dual passenger seat.	
Maximum operation altitude	6096 m	

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40°C …MCA +35°C (Max +50°C)

5. Helicopter model AS350B3

Type Certificate Holder:
Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Manufacturer:
Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Aircraft description
Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear

Category
Normal

Applicability
AS350 B3 helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling

Type Certificate Data
Type Certificate №СТ107-350 dated June, 14 1996 issued by IAC AR

Type design
Defined in the document «AS350 FATA type design definition 350ABN0311», issue C

Certification basis
Certification Basis СБ350 В3.27
Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36 and Special Technical Conditions

Noise requirements
Helicopter is compliant with:
- Requirements of Aviation Regulations, Part 36 “Aircraft Noise Certification” Chapters A, H, O;
- Requirements of ICAO Annex 16 “Environmental Protection”, Volume 1, Chapter 8

Take-off weight	Established Noise Levels (EPNdb)	External Noise Levels, according to AP-36	External Noise Levels, according to ICAO Annex 16, Volume 1 (EPNdb)
2250 kg	84,4	86,5	86,5
2370 kg	84,2	86,8	86,8

Noise Type Certificate is applicable to all the AS350B3 rotorcraft products which do not have differences from Type Design, affecting the acoustic characteristics.

Engine
ARRIEL 2B1
manufactured by Turbomeca
Engine Type Certificate Supplement № СТ195-АМД/Д01 dated on 28 July 2006

or

ARRIEL 2D
manufactured by Turbomeca
Engine Type Certificate Supplement № СТ195-АМД/Д02 dated on 28 October 2011

Fuel

TC-1, PT (GOST 10227-86)
(foreign fuels types are listed in RFM)

Approved oil types for engine and transmission gearbox

For engine	See RFM
For gearbox	See RFM

Arriel 2B1 engine operational limits:

Take-off (5 min)	
Power	727 h.p. (535 kW)
Generator speed	52683 rpm 101.1%
Gas temperature before turbine	915 ºC

Maximum continuous mode	
Power	675 h.p. (497 kW)
Generator speed	50598 rpm 97.1%
Gas temperature before turbine	849 ºC

100%=52110 rpm

Arriel 2D engine operational limits:

Take-off (5 min)	
Power	727 h.p. (535 kW)
Generator speed	52578 rpm 100.9%
Gas temperature before turbine	949 ºC

Maximum continuous mode	
Power	675 h.p. (497 kW)
Generator speed	51067 rpm 98.0%
Gas temperature before turbine	905 ºC

100%=52110 rpm

Rotor Limitations:

Power on flight	from 375 to 405 rpm
Maximum in autorotation	430 rpm
Minimum in autorotation	320 rpm

Maximum power transmitted by the main gear box:	727 hp (535 kW)
Speed limitations	Vne is limited by indicated air speed: 155 kt (287 km/h) Vne at autorotation speed: 125 kt (231 km/h).
Maximum take-off weight	2250 kg 2370 kg for helicopters with MOD OP-3369 modification 2800 kg (with external load)
Maximum cargo weight inside fuselage	760 kg
External load maximum weight	1400 kg
C.G. Reference	See RFM

Fuel capacity	Maximum used quantity	540 liters
	Unused quantity	1,25 liters

Minimum crew	1 pilot
Number of seats	5 6 - if the aircraft is fitted with the forward dual passenger seat
Maximum operation altitude	6096 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40 °C …MCA +35 °C (max +50 °C)

6. Helicopter model EC 130B4

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Manufacturer:	Airbus Helicopters Aeroport Intrernational Marseille-Provence 13725 Marignane, Cedex, France
Aircraft description	Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear
Category	Normal
Applicability	EC 350 B4 helicopter model is approved for VFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling
Type Certificate Data	Type Certificate №СТ107-350 dated June, 14 1996 issued by IAC AR
Type design	Defined in the document «AS350 FATA type design definition 350ABN0215", issue G»
Certification basis	Certification Basis СБ130.27 includes requirements to Airworthiness АР-27, requirements to Environment АР-36
Noise requirements	Noise Type Certificate № 72 dated 12 October 2006
Engine	ARRIEL 2B1 manufactured by Turbomeca Engine Type Certificate Supplement № СТ195-АМД/Д01 dated on 28 July 2006
Fuel	ТС-1, РТ (GOST 10227-86) (foreign fuels types are listed in RFM)

Approved oil types for engine and transmission gearbox

For engine	See RFM
For gearbox	See RFM

Arriel 2B1 engine operational limits:

Take-off (5 min)	
Power	757 h.p. (557 kW)
Generator speed	52683 rpm

	101.1%
Gas temperature before turbine	915 ºC

Maximum continuous mode	
Power	738 h.p. (543 kW)
Generator speed	48306 rpm 97.1%
Gas temperature before turbine	849 ºC

Rotor Limitations:

Power on flight	from 375 to 405 rpm
Maximum in autorotation	430 rpm
Minimum in autorotation	320 rpm

Speed limitations	Vne is limited by indicated air speed: 155 kt (287 km/h) Vne at autorotation speed: 125 kt (231 km/h)
Maximum take-off weight	2427 kg 2800 kg (with external load)
Maximum cargo weight inside fuselage	365 (load transportation inside cabin is prohibited)
External load maximum weight	1160 kg
Fuel capacity	Maximum used quantity 540 liters Unusable fuel quantity 1,25 liters
Number of seats	7 seats or 8 seats (for OP-3673 modification) including pilot seat
Maximum operation altitude	7010 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range	-40 °C …MCA +35 °C (Max+50 °C)

7. Helicopter model EC 130T2

Type Certificate Holder:
Airbus Helicopters
Aeroport International Marseille Provence
13725 Marignane, Cedex, France

Manufacturer:
Airbus Helicopters
Aeroport International Marseille-Provence
13725 Marignane, Cedex, France

Aircraft description
Single-rotor helicopter with tail rotor, equipped with single gas-turbine engine and skid landing gear

Category
Normal

Applicability
EC130T2 helicopter model is approved for VFR day and night operation, for overland and overwater operation for passenger transportation

Type Certificate Data
Type Certificate №СТ107-350 dated June, 14 1996 issued by IAC AR

Type design
Defined in the document «AS350 FATA type design definition 350ABN0215", issue G»

Certification basis
Certification basis СБ130.27 includes airworthiness requirements of АР-27 and noise requirements of АР-36 and АР-34 Environmental protection. Engine emissions. Regulations and tests

Noise requirements
Helicopter is compliant with:
- Requirements of Aviation Regulations, Part 36 "Aircraft Noise Certification" Chapters A, H, O;
- Requirements of ICAO Chapter 8, Annex 16 "Environmental Protection", Volume 1, Chapter 11

Maximum Take-off weight	Established Noise Levels (SEL)	Limit Noise Levels (SEL)
2500 kg	81.1	87.0

Engine
ARRIEL 2D
manufactured by Turbomeca
Engine Type Certificate Supplement № СТ195-АМД/Д02 dated on 28 November 2011.

Fuel
ТС-1, РТ (GOST 10227-86)
(foreign fuels types are listed in RFM)

Approved oil types for engine and transmission gearbox

For engine	See RFM
For gearbox	See RFM

Arriel 2D engine operational limits:

Ratings	Power (kW)	Generator speed (NG) (%)	Gas temperature before turbine (°C)
Maximum Take-off weight (5 min)	597,5	101.7	949
Maximum Take-off weight (30 min)	597,5	101,7	949
Maximum continuous	485,7	99,7	905

Rotor Limitations:

Power on — от 375 до 405 rpm

Power off — от 320 до 430 rpm

Speed limitations — Vne is limited by indicated air speed:
- Power on 155 kt (287 km/h)
- Vne at autorotation speed: 125 kt (231,5 km/h).

Maximum take-off weight — 2500 kg

Fuel capacity — Maximum used quantity 540 liters

Number of seats — 7 seats or 8 seats including pilot seat.

Maximum operation altitude — 7010 m

The limitations of maximum operation flight altitude linked with the necessity to supply crew and passengers with oxygen are contained in federal aviation regulations of aircraft state operator.

OAT temperature range — -20 °C…MCA +35 °C (Max +50 °C)

Additional operational conditions limitations and information of AS 350B2, AS 350B3, EC130B4, EC130T2 helicopter models for operators in Russian Federation:

1. Flights in icing conditions are prohibited.
2. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
3. Flights with passengers over water beyond safe autorotation distance from land without emergency floatation gear are prohibited.
4. Passenger transportation on the copilot seat is prohibited unless the copilot's cyclic pitch and pedals are fully removed.
5. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.
6. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
7. Other limitations are contained in helicopter operational documentations.

Supplements to Type Certificate

Supplements to Type Certificate	Type design change description	Applicability
№СТ107-350/Д01	Increased maximum internal gross weight to 2370 kg (MOD OP-3369, including dual hydraulic system installation and high landing gear installation)	AS 350B3
№СТ107-350/Д02	AFCS operation on helicopter with maximum internal gross weight up 2370 kg	AS 350B3
№СТ107-350/Д03	Arriel 2D engine installation	AS 350B3
№СТ107-350/Д04	Introduction of the EC130T2 helicopter model	EC130T2

Major change approvals

Major change approvals	Type design change description	Applicability
№СТ107-350/ОГИ-05	NR Indicator change	EC130T2 AS 350B3e AS350B2 VEMD
	New main gear fixed ring	AS350B2 AS350B3 EC130B4 EC130T2
	Industrialized Fuel Tanks Beams	EC130T2
	Change the system control unit SMS by a MultiBloc Logical	AS350B2 VEMD
	New flight servo control NOVINTEC	AS350B3 EC130B4 EC130T2
	Wire protection of the strobe light optional	AS350B2 AS350B3
	Tail rotor Removal of the additional chin weight	AS350B3
	Installation of new equipment GTN650H (VOR/VHF/GPS)	AS350B3
	Double locking wire for yaw control	AS350B2 AS350B3
№СТ107-350/ОГИ-06	OP-4656 issue 2 - New Garmin CNS - GTN650H (VOR/lLS/VHF/GPS)	AS 350B3 (Arriel 2D) AS350B2 (VEMD)
№СТ107-350/ОГИ-07	OP-4484 issue 1 - New Garmin Radio Line - GTN750H (VOR/lLS/VHF/GPS)	EC130T2

Major change approvals	Type design change description	Applicability
№СТ107-350/ОГИ-08	Long tube of tail rotor drive shaft line by air furnace	AS350B2 AS350B3 EC130B4 EC130T2
№СТ107-350/ОГИ-09	TRH Blade machined into bulk	AS 350B4 EC130T2
№СТ107-350/ОГИ-10	Upper scissor branch by air furnace	AS350B2 AS350B3 EC130B4 EC130T2
№СТ107-350/ОГИ-11	Alternative input pinion of MGB	EC130T2
№СТ107-350/ОГИ-12	New thermoformed eyeshade	EC130T2
№СТ107-350/ОГИ-13	"Reinforcement of the locking mechanism of EC130 canopy's doors"	EC130T2
№СТ107-350/ОГИ-14	"Reinforcement of the locking mechanism of EC130 canopy's doors"	EC130B4
№СТ107-350/ОГИ-15	VEMD New Generation"	AS 350B3 (Arriel 2D)
№СТ107-350/ОГИ-16	Connecting shaft (Engine/ MGB link) - Serialization of the part"	EC130T2
№СТ107-350/ОГИ-17	Splined flange (Engine/ MGB link) - Serialization of the part	EC130T2
№СТ107-350/ОГИ-18	"Bi-directional crossbeam - Serialization of the part"	EC130T2
№СТ107-350/ОГИ-19	"Cargo Sling - Fixed parts"	EC130T2
№СТ107-350/ОГИ-20	Revisions to ALS Section “Airworthiness limitation section”	AS350B2 AS350B3 EC130B4 EC130T2
№ФАВТ-AS350/EC130-ОГИ-21	VEMD Software Modification	AS 350B3 (Arriel 2D)
№ФАВТ-AS350/EC130-ОГИ-22	Modification of the types of Chin weights of tail rotors	AS 350B3
№ФАВТ-AS350/EC130-ОГИ-23	VEMD NG Software Modification	AS 350B3 (Arriel 2D)
№ФАВТ-AS350/EC130-ОГИ-024	Half Laminated Bearings classification modification	AS350 B AS350 B1 AS350 B2 AS350 B3 AS350 BA

Major change approvals	Type design change description	Applicability
№FATA-02052R-MC-025	Removable parts of the Cargo Sling Installation	EC130 T2
№FATA-02052R-MC-026	Incorporation of the Arriel 2B and Arriel 2B1 Free Wheel into ALS section of the aircraft MSM	AS350 B3 (Arriel 2B1) EC130 B4
№FATA-02052R-MC-027	Installation of the Garmin G500H Electronic Flight Instrument System	AS350 B3 (Arriel 2D)
№FATA-02052R-MC-028	Installation of the Garmin G500H Electronic Flight Instrument System	EC130 T2
№FATA-02052R-MC-029	Removal of external load carrying class marking	EC130 T2 AS350 B2 AS350 B2 VEMD AS350 B3 (Arriel 2B1) AS350 B3 (Arriel 2D)
№FATA-02052R-MC-030	Cargo compartment/ Tail-boom junction frame	AS350 B AS350 B1 AS350 B2 AS350 B3 AS350 BA
№FATA-02052R-MC-031	Installation of a fuel system improving crashworthiness	AS350 B3 (Arriel 2B1)
№FATA-02052R-MC-032	Standardization of MGB main housing blanks	AS350 B AS350 B1 AS350 B2 AS350 B3 AS350 BA EC130 B4 EC130 T2

Supplemental Type Certificates (STC)

№	STC Name	STC Holder	Type Design description documents	Aviation authorities issued STC	Applicability
1	STC SH 93-4 «Bearpaw Installation»	Dart Aerospace Ltd.	- MDL-D350-578, Rev.A; - Maintenance ICA-D350-578, Rev.1; - Installation Drawing D350-578, Rev. F	TCCA	AS350B AS350B1 AS350B2 AS350B3 AS350BA EC130B4
2	STC SH 94-14 «Heli-utility Basket Installation»	Dart Aerospace Ltd.	- MDL-D350-607, Rev.A; - Maintenance ICA-D350-607, Rev. 3; - Installation D350-607, Rev. H; - FMS-D355-607, Rev.D. For EC 130B4: -MDL-D130-701 Rev. A; -Maintenance ICA-D130-701, Rev.1; - Installation IIN-D130-701, Rev. C; - FMS-D130-701, Rev. C	TCCA	AS350B AS350B1 AS350B2 AS350B3 AS350BA EC130B4
3	STC SR02797CH «Installation of Camera Vision 1000»	Appareo Systems, LLC.	-Master Document List 606586-000011, Rev. 1.03; -Vision 1000 Instruction for Continued; Airworthiness 606586-000016, Rev. 1.07; -Vision 1000 Installation Instruction, 606586-000012, Rev. 1.04	FAA	AS350B1, AS350B2, AS350B3, AS350BA
4	STC SH05-4 «Installation of an Auxiliary Side Locker Fuel Tank»	Dart Aerospace Ltd.	-FMS D350-794 Fight manual supplement; -IIN-D350-794 Installation instructions; -ICA-D350-794 Instructions for continued airworthiness	TCCA	AS350B AS350B1 AS350B2 AS350B3 AS350BA EC130B4

№	STC Name	STC Holder	Type Design description documents	Aviation authorities issued STC	Applicability
5	STC №10034706 Installation of EMS kit	Air Ambulance Technology Gesmbh	For AS350 and modifications: P/N 350-25-24-100, FMS SUP.AAT3, Appendix 1,2, IM-AS350-AAT01. For EC130B4: FMS AAT57 rev.1, P/N EC130-25-20-41.000-5	EASA	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, EC130B4
6	STC № FATA-STC03031 Crash Resistant Fuel System	Airbus Helicopters	See STC	EASA	AS350 B3 (Arriel 2D)
7	STC № FATA-STC03032 Fuel tank reinforced metal sheet cradles	Airbus Helicopters	See STC	EASA	AS350 B3 (Arriel 2D)

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Original TCDS is signed by Deputy Director General

Mr. O. Storchevoy