



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.R.120

for

R22

Type Certificate Holder:
Robinson Helicopter Company
2901 Airport Dr
Torrance, CA 90505-6115
USA

For models:

R22

R22 Alpha

R22 Beta

R22 Mariner



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Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-A2B**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D241	590	590	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-A2C**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D242	590	590	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-B2C**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D243	590	590	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22 Alpha**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-B2C**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D56	621	621	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22 Beta**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-B2C**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D120	621	621	-	-	2
D244	621	621	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22 Beta**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-360-J2A**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D304	621	621	-	-	2
D266	621	621	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company**

Aircraft Type Designation¹ **R22 Beta**

Engine TC Holder **Lycoming**

Engine Type Designation¹ **O-360-J2A**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels¹

Symmetric horizontal stabilizer / Muffler: A169-25

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 8 / Amendment 13** Chapter¹ **11 (11.4.1)**

EASA Record No.	Variant	Maximum Mass		Overflight SEL		See Note
		Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D518	Beta II	621	621	77.8	82.0	-

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22 Mariner**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-320-B2C**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D122	621	621	-	-	2

¹ See Note 1.



Type Certificate Holder¹ **Robinson Helicopter Company** Aircraft Type Designation¹ **R22 Mariner**

Engine TC Holder **Lycoming** Engine Type Designation¹ **O-360-J2A**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels¹ **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D306	621	621	-	-	2

¹ See Note 1.



CS-36 Amendment level

ICAO, Annex 16, Volume I Amendment level	7	8	9	10	11-B	12	13
Corresponding CS-36 Amendment level	Initial	1	2	3	4	5	6

Note: This table is for information purposes only. It links the applicable noise requirements in Volume I of ICAO Annex 16 to the corresponding Appendices to that Volume, which were listed as acceptable means of compliance in CS-36. With the adoption of Regulation (EU) 2018/1139 (i.e. from Amendment 12 to Volume I of ICAO Annex 16) these Appendices became part of the applicable noise requirements. Their reference was removed in Amendment 6 to CS-36 and this table will not be updated further.

TCDSN EASA.IM.R.120 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.
2. This aircraft type conforms with the provisions of Art 9 (2) 1st subparagraph of Regulation (EU)2018/1139 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of the date of type certification.



Change Record

Issue	Date	Changes
01	04 November 2009	Initial Issue
02	12 January 2010	Revised
03	18 May 2022	Records D304, D122 and D306: Noise levels removed, note added.
04	08 January 2024	Record D518 added.

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