



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.R.121

for

R44

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

For models:

R44

R44 II



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Type Certificate Holder¹ **Robinson Helicopter Company**

Aircraft Type Designation¹ **R44**

Engine TC Holder **Lycoming**

Engine Type Designation¹ **O-540-F1B5**

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

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

EASA Record No.	Variant	Maximum Mass		Overflight SEL		See Note
		Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D123		1,089	1,089	81.9	83.4	-
D427	Cadet	998	998	78.2	83.0	-

¹ See Note 1.



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Aircraft Type Designation¹ **R44**

Engine TC Holder **Lycoming**

Engine Type Designation¹ **O-540-F1B5**

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

F050-2 / C169-35 (Symmetric horizontal stabilizer / large muffler)

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	
D521	R44 I	1,089	1,089	81.0	83.4	-

¹ See Note 1.



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certificated noise levels¹

P/N C169-35 (large muffler)

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

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D428	1,089	1,089	78.9	83.4	-

¹ See Note 1.



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Engine Type Designation¹ **O-540-F1B5**

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

F050-2 / C169-35 (Symmetric horizontal stabilizer / large muffler)

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	
D519	Cadet	998	998	79.2	83.0	-

¹ See Note 1.



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Aircraft Type Designation¹ **R44 II**

Engine TC Holder **Lycoming**

Engine Type Designation¹ **IO-540-AE1A5**

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

None

Noise Certification Basis **ICAO Annex 16, Volume I**

Edition / Amendment

Chapter¹ **11 (11.4.1)**

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D124	1,134	1,134	80.9	83.6	-

¹ See Note 1.



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Engine TC Holder **Lycoming**

Engine Type Designation¹ **IO-540-AE1A5**

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

F050-2 (Symmetric horizontal stabilizer)

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

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D520	1,134	1,134	79.3	83.6	2

¹ See Note 1.



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Aircraft Type Designation¹ **R44 II**

Engine TC Holder **Lycoming**

Engine Type Designation¹ **IO-540-AE1A5**

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

P/N C169-37 (large muffler)

Noise Certification Basis **ICAO Annex 16, Volume I**

Edition / Amendment

Chapter¹ **11 (11.4.1)**

EASA Record No.	Maximum Mass		Overflight SEL		See Note
	Take-off ¹ (kg)	Landing (kg)	Level ¹	Limit	
D429	1,134	1,134	80.9	83.6	-

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.121 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.
2. Applicable for short/large muffler



Change Record

Issue	Date	Changes
Issue 1	04 November 2009	Initial release
Issue 2	29 June 2011	Record D123 revised.
Issue 3	17 January 2012	Record D124: noise level revised.
Issue 4	28 February 2017	Introduction of R44 and R44 II with large muffler and introduction of R44 at 998 kg MTOW.
Issue 5	08 January 2025	Records D519, D520 and D521 added.
Issue 6	16 April 2025	Corrections of MTOM values and engine designation for records D519, D520 and D521.
Issue 7	28 April 2025	Muffler designation revised for D521 and D519

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