



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.A.027

for

ZLIN Z 42 Series

Type Certificate Holder:

ZLIN AIRCRAFT a.s.

Letiště 1578

765 81 Otrokovice

CZECH REPUBLIC

For models:

Z 142

Z 242 L

Z 42 M

Z 42 MU



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Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 142**

Engine TC Holder **LOM praha, s.p.** Engine Type Designation¹ **Avia M 337 AK**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight OASPL		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C4879	Avia Propeller Ltd.	V 500 A	None	1,090	72.4	74.5	-

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 142**

Engine TC Holder **GE Aviation Czech, s.r.o.** Engine Type Designation¹ **M 337 AK**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off L _{ASmax}		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C98	Avia Propeller Ltd.	V 500 A	None	1,090	82.3	84.5	-

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 242 L**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **AEIO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off L _{ASmax}		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C13072	Hartzell Propeller Inc.	HC-C3YR-4BF/FC6890	None	1,090	80.6	84.5	-
C13073	Hartzell Propeller Inc.	HC-C3YR-4BF/FC6890	None	1,020	80.6	83.5	-
C182	MT-Propeller Entwicklung GmbH	MTV-9-B-C/C-188-18a	None	1,090	80.6	84.5	-
C13075	MT-Propeller Entwicklung GmbH	MTV-9-B-C/C-188-18a	None	1,020	80.6	83.5	-

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 242 L**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **AEIO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4b)**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off L _{ASmax}		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C15835	MT-Propeller Entwicklung GmbH	MTV-9-B-C/C188-52()	Muffler: ZLIN AIRCRAFT a.s. ZA-L242.6670H 2x Straight through muffler	1,090	78.5	80.0	2
C15836	MT-Propeller Entwicklung GmbH	MTV-9-B-C/C188-52()	Muffler: ZLIN AIRCRAFT a.s. ZA-L242.6670H 2x Straight through muffler	1,020	76.6	79.0	3

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 242 L**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **AEIO-360-A1B6**

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

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Take-Off L _{ASmax}		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C13074	Hartzell Propeller Inc.	HC-C3YR-4BF/FC6890	None	970			4
C13076	MT-Propeller Entwicklung GmbH	MTV-9-B-C/C-188-18a	None	970			4

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 42 M**

Engine TC Holder **LOM praha, s.p.** Engine Type Designation¹ **Avia M 137 AZ**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight OASPL		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C96	Avia Propeller Ltd.	V 503 A	None	970	71.1	72.9	-

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 42 M**

Engine TC Holder **LOM praha, s.p.** Engine Type Designation¹ **Avia M 137 AZ**

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

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight OASPL		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C92	Avia Propeller Ltd.	V 503 A	None	920			4

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 42 MU**

Engine TC Holder **LOM praha, s.p.** Engine Type Designation¹ **M 137 A**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight OASPL		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C91	Avia Propeller Ltd.	V 503 A	None	970	71.1	72.9	-
C90	Avia Propeller Ltd.	V 503 A	None	920	70.0	72.3	-

¹ See Note 1.



Type Certificate Holder¹ **ZLIN AIRCRAFT a.s.** Aircraft Type Designation¹ **Z 42 MU**

Engine TC Holder **LOM praha, s.p.** Engine Type Designation¹ **M 137 AZ**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

EASA Record No.	Propeller TC Holder	Propeller Type Designation ¹	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹	Maximum Take-Off Mass ¹ (kg)	Overflight OASPL		See Note
					Level ¹ (dB(A))	Limit (dB(A))	
C88	Avia Propeller Ltd.	V 503 A	None	970	71.1	72.9	-
C87	Avia Propeller Ltd.	V 503 A	None	920	70.0	72.3	-

¹ See Note 1.



Correspondence between the ICAO Annex 16 Volume I levels of amendment and the related EU regulations

The table below provides the correspondence between the levels of amendment of Volume I of ICAO Annex 16 and the related EU regulations that have implemented these levels of amendment since 2003, as well as the respective applicability dates.

ICAO Annex 16 Volume I		EU regulations	
Amendment level	Applicability date	Regulation number	Applicability date
Amendment 14	01/01/2024	Regulation (EU) 2025/870*	25/05/2025
Amendment 13	01/01/2021	Regulation (EU) 2021/1087*	25/07/2021
Amendment 12	01/01/2018	Regulation (EU) 2018/1139 (Art.9)	11/09/2018
Amendment 11-B	01/01/2015	Regulation (EU) 2016/4*	26/01/2016
Amendment 10	17/11/2011	Regulation (EU) No 6/2013*	29/01/2013
Amendment 9	20/11/2008	Regulation (EC) No 690/2009*	20/08/2009
Amendment 8	24/11/2005	Regulation (EC) No 216/2008 (Art.6)	29/03/2007
		Regulation (EC) No 334/2007*	29/03/2007
Amendment 7	21/03/2002	Regulation (EC) No 1701/2003*	28/09/2003
Amendment 6	04/11/1999	Regulation (EC) No 1592/2002 (Art.6)	28/09/2003

* Regulations that amend Article 6 of Regulations (EC) No 1592/2002 and (EC) No 216/2008, and Article 9 of Regulation (EU) 2018/1139

TCDSN EASA.A.027 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.
2. Normal Category MTOW 1090 kg; from S/N 0851 incl.
3. Utility Category MTOW 1020 kg; from S/N 0851 incl.
4. This aircraft type conforms with the provisions of Art 9 (2) of Regulation 2018/1139 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of being specifically designed for aerobatic purposes.



Change Record

Issue	Date	Changes
Issue 1	19 November 2008	Initial Issue
Issue 2	22 October 2007	Revised
Issue 3	24 August 2009	Revised
Issue 4	09 January 2018	Added records C13072 – C13076 for Z 242 L, updated engine TC holder for record C98
Issue 5	24 April 2026	Added records C15835 and C15836 for Z 242 L

