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## TYPE-CERTIFICATE DATA SHEET FOR NOISE

**No. EASA.A.108**

**for**

**ZLIN Z 50 Series**

**Type Certificate Holder:**

**ZLIN AIRCRAFT a.s.**

Letiště 1578

765 81 Otrokovice

CZECH REPUBLIC

For models:

Z 50 L

Z 50 LA

Z 50 LS

Z 50 LX

Z 50 M



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Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 L**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-D4B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C4911           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-()-()-200-AH</b>            | <b>None</b>  | <b>800</b>                              | <b>75.6</b>        | <b>80.1</b> | -        |
| C4913           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>800</b>                              | <b>75.6</b>        | <b>80.1</b> | -        |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 L**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-D4B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C53             | <b>Hoffmann Propeller</b>            | <b>HO-V-123-()-()-200-AH</b>            | <b>None</b>  | <b>720</b>                              |                    |       | <b>2</b> |
| C52             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>720</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LA**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-D4B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C4915           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-()-()-200-AH</b>            | <b>None</b>  | <b>800</b>                              | <b>76.1</b>        | <b>80.1</b> | -        |
| C4917           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>800</b>                              | <b>76.1</b>        | <b>80.1</b> | -        |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LA**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-D4B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C47             | <b>Hoffmann Propeller</b>            | <b>HO-V-123-()-()-200-AH</b>            | <b>None</b>  | <b>720</b>                              |                    |       | <b>2</b> |
| C34             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>720</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LS**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C4923           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |
| C4919           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-3-B-C/200-01</b>                 | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |
| C4921           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LS**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C33             | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C30             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-3-B-C/200-01</b>                 | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C28             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LS**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5D**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C4929           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |
| C4925           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-3-B-C/200-01</b>                 | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |
| C4927           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | -        |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LS**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5D**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C26             | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C25             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-3-B-C/200-01</b>                 | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C20             | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LX**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C9114           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | <b>3</b> |
| C9116           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | <b>3</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LX**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C9115           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C9117           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LX**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5D**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |             | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit       |          |
| C9118           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | <b>3</b> |
| C9120           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>840</b>                              | <b>77.4</b>        | <b>80.8</b> | <b>3</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 LX**

Engine Manufacturer<sup>1</sup>      **Lycoming Engines**      Engine Type Designation<sup>1</sup>      **AEIO-540-L1B5D**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup>  | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Take-Off dB(A)     |       | See Note |
|-----------------|--------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                      |   |  |   | Level <sup>1</sup> | Limit |          |
| C9119           | <b>Hoffmann Propeller</b>            | <b>HO-V-123-K-V-200-AH</b>              | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |
| C9121           | <b>MT-Propeller Entwicklung GmbH</b> | <b>MTV-9-B-C/C 200-15</b>               | <b>None</b>  | <b>760</b>                              |                    |       | <b>2</b> |

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **ZLIN AIRCRAFT a.s.**      Aircraft Type Designation<sup>1</sup>      **Z 50 M**

Engine Manufacturer<sup>1</sup>      **LOM praha, s.p.**      Engine Type Designation<sup>1</sup>      **M 137 AZ**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>

| EASA Record No. | Propeller Manufacturer <sup>1</sup> | Propeller Type Designation <sup>1</sup> | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels <sup>1</sup> | Maximum Take-Off Mass <sup>1</sup> (kg) | Overflight dB(A)   |       | See Note |
|-----------------|-------------------------------------|---|--|---|--------------------|-------|----------|
|                 |                                     |   |  |   | Level <sup>1</sup> | Limit |          |
| C14386          | <b>Avia Propeller Ltd.</b>          | <b>V 503 A</b>                          | <b>None</b>  | <b>700</b>                              |                    |       | <b>2</b> |

<sup>1</sup> 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  |

### **TCDSN EASA.A.108 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) 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.
3. 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 the date of type certification. However individual examples of this type which were first issued with a certificate of airworthiness on or after 1 January 1980 are required to demonstrate compliance with the Standards of ICAO Annex 16, Volume I, Chapter 6.



### **Change Record**

| <b>Issue</b> | <b>Date</b>      | <b>Changes</b> |
|--------------|------------------|----------------|
| Issue 01     | 30 April 2007    | Initial Issue  |
| Issue 02     | 23 November 2007 | Revised        |
| Issue 03     | 02 July 2009     | Revised        |
| Issue 04     | 24 August 2009   | Revised        |
| Issue 05     | 16 October 2020  | Revised        |

