

**The Appendix is an integral part of
Certificate of Accreditation No. 300/2022 of 17/06/2022**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

EKOLA group, spol. s r.o.
EKOLA group Testing Laboratory
Mistrovská 558/4, 108 00 Praha 10 - Malešice

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the required flexible scope of accreditation is available on the laboratory website www.ekolagroup.cz.

The Laboratory provides expert opinions and interprets test results.

Tests:

| Ordinal number ¹⁾ | Test procedure/method name | Test procedure/method identification ^{2,3} | Tested object |
|------------------------------|--------------------------------------|--|-------------------------|
| 1A * | Measurement of noise environment | ČSN EN ISO 9612, ČSN ISO 1999, MoH CR Bulletin, 2013, Part 4, p. 4 | Working environment |
| | | ČSN EN ISO 11201, ČSN EN ISO 11202, ČSN EN ISO 11203, ČSN EN ISO 11 204 | Working environment |
| | | ČSN ISO 1996-1, ČSN ISO 1996-2, MoH CR Bulletin, 2017, Part 11, p. 1 | Non-working environment |
| | | OVZ-32.0-19.02.2007/6306 ČSN ISO 20906 | Non-working environment |
| 1B * | Measurement and calculation of noise | ČSN ISO 1996-1, ČSN ISO 1996-2, MoH CR Bulletin, 2017, Part 11, p. 1 SOP 11 – Part I (MP 1991, NMPB Routes 96, NMPB Routes 2008, RLS 90, CNOSSOS-EU) | Road transport |
| | - Measurement | | |

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| Ordinal number ¹⁾ | Test procedure/method name | Test procedure/method identification _{2,3} | Tested object |
|------------------------------|---|--|----------------------------------|
| | - Calculation | MoH CR Bulletin, 2017, Part 11, p. 1 SOP 11 – Part II (Schall 03 CNOSSOS-EU SRM II) | |
| | - Measurement - Calculation | OVZ-32.0-19.02.2007/6306 ČSN ISO 20906 ČSN ISO 3891 SOP 11 – Part III (ECAC.CEAC Doc. 29 AzB 2008 CNOSSOS-EU) | Air transport |
| | - Measurement - Calculation | ČSN ISO 1996-1 ČSN ISO 1996-2 MoH CR Bulletin, 2017, Part 11, p. 1 SOP 11 – Part IV (ČSN ISO 9613-1 ISO 9613-1 ČSN ISO 9613-2 ISO 9613-2 CNOSSOS-EU) | Stationary sources |
| 1C* | Measurement, location and identification of noise sources | SOP 8 (Methodological guide for acoustic camera measurements and evaluation of data measured by AC ČSN ISO 1996-1 ČSN ISO 1996-2) | Stationary, mobile noise sources |
| 2* | Technical noise measurement | ČSN EN ISO 3743-1 ČSN EN ISO 3744 ČSN EN ISO 3745 ČSN EN ISO 3746 ČSN EN ISO 3747 ČSN ISO 9614-1 ČSN ISO 9614-2 | Sound power |

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| Ordinal number ¹⁾ | Test procedure/method name | Test procedure/method identification _{2,3} | Tested object |
|------------------------------|--|---|---|
| | | ČSN ISO 11819-1 ČSN EN ISO 11819-2 | Road surfaces |
| | | ČSN ISO 13,472-2 | Road surfaces – sound absorption |
| | | ČSN EN 60268-16 ed. 2 ČSN EN 50849 | Space – clarity of speech |
| 3* | Measurement of noise in building acoustics | ČSN EN ISO 16283-1 ČSN EN ISO 16283-2 ČSN EN ISO 16283-3 ČSN EN ISO 10052 ČSN EN ISO 717-1 ČSN EN ISO 717-2 | Building structures – sound insulation |
| | | ČSN EN ISO 3382-1 ČSN EN ISO 3382-2 ČSN EN ISO 3382-3 | Rooms and halls – reverberation |
| | | ČSN ISO 10847 | Noise barriers – insertion loss |
| | | ČSN EN ISO 11820 | Ducted silencers |
| | | ČSN EN 1793-5 ČSN EN 1793-6 | Noise barriers – acoustic properties |
| 4* | Measurement of artificial lighting | ČSN 36 0011-1 ČSN 36 0011-3 ČSN EN 1838 ČSN EN 12193 ČSN EN 12464-1 | Workplace and non-workplace environment |
| 5 | Determination of dust by gravimetry | SOP 4, part 6 (Gov. Reg. No. 361/2007 Coll., Annex No. 3 ČSN EN 481 ČSN EN 482 ČSN EN 689+AC ČSN EN 12341 Act No. 201/2012 Coll.) | Workplace and non-workplace environment |

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| Ordinal number ¹⁾ | Test procedure/method name | Test procedure/method identification ^{2,3} | Tested object |
|------------------------------|--|--|---|
| 6* | Measurement of vibration | ČSN EN ISO 5349-1 ČSN EN ISO 5349-2 ČSN ISO 2631-1 ČSN ISO 2631-2 ČSN EN 1032 MoH CR Bulletin, 2013, Part 4, p. 4 | Workplace and non-workplace environment |
| 7* | Measurement of microclimatic conditions (resulting temperature of a spherical thermometer, air temperature, relative air humidity, air flow velocity, operating temperature) | MoH CR Bulletin, 2013, Part 8, p. 2 ČSN EN ISO 7726 | Working and indoor environment |
| 8 ⁴ | Determination of chemical substances by calculation from the determined values | SOP 12, part 9 (ČSN EN 482 ČSN EN 689+AC Gov. Reg. No. 361/2007 Coll., Annex No. 2 ČSN EN ISO 22065) | Working environment |

¹ Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises. In the case of calculation methods, the measurement is carried out in the field.

² If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

³ Statutory provisions (government regulations) are always used as amended

⁴ The collected sample (Sampling No. 2) is analysed by an external supplier (accredited testing laboratory according to ČSN EN ISO/IEC 17025:2018), EKOLA group TL subsequently issues a report with the result calculated according to the standard sampling conditions and the sampled volume.

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Annex:

Flexible scope of accreditation

| Ordinal numbers of tests |
|--|
| 1A, 1B (measurement only), 2, 3, 4, 6, 7 |

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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Sampling:

| Ordinal number | Sampling procedure name | Sampling procedure identification ^{1,2} | Sampled object |
|----------------|---|---|---|
| 1 | Sampling of inhalable and respirable fractions of dust and mineral fibres | SOP 4, Part 1 – 5 (Gov. Reg. No. 361/2007 Coll., Annex No. 3 ČSN EN 481 ČSN EN 482 ČSN EN 689+AC) | Workplace and non-workplace environment |
| 2 | Sampling of chemical substances | SOP 12, Part 1 - 8 (Gov. Reg. No. 361/2007 Coll., Annex No. 2 ČSN EN 482 ČSN EN 689+AC ČSN EN ISO 22065 ČSN ISO 16000-1) | Working environment |

¹ If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

² Statutory provisions (government regulations) are always used as amended

Explanatory notes:

OVZ – Public Health Protection

SOP – Standard Operating Procedure of the EKOLA group Laboratory

MoH – Ministry of Health

GR – Government Regulation

Calculation – calculation methods performed by CadnaA, HLUK+ software

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MP 1991: Methodological guidelines for the calculation of traffic noise levels. VÚVA Brno, 1991, as amended in 1996, 2005, 2011, 2018

Liberko, M.: Traffic noise. Methodological guidelines for the calculation of traffic noise levels. VÚVA Brno, 1991.

Kozák, J., Liberko, M.: Amendment to the methodology for calculating road traffic noise. Annex to the Ministry of the Environment Bulletin, No. 3, March 1996.

Noise in the environment. Liberko, M.: Amendment to the methodology for calculating road traffic noise. MŽP, Planeta 2/2005.

Liberko, M., Ládyš, L.: Calculation of road traffic noise. Manual 2011. Prague, November 2011.

EKOLA group, spol. s r.o.: Calculation of road traffic noise. Method update. Manual 2018.

NMPB Routes 96

Arrêté du 5 mai 1995 relatif au bruit des infrastructures routières, Journal Officiel du 10 mai 1995, Article 6 (Paragraph of 5. 5. 1995 on noise from road infrastructure, Official Journal of 10. 5. 1995, cl. 6) referred to in the French standard XPS 31-133.

NMPB Routes 2008

Methodologic guide Road noise prediction 2- Noise propagation computation method including meteorological effects. SÉTRA. Ref. č. SÉTRA: 0957-2A, ISRN: EQ-SETRA-09-ED32-FR+ENG, 2009.

RLS 90

Richtlinien für den Lärmschutz an Strassen RLS-90. (Road traffic noise pollution guidelines.) Issued in the Main Circular for Road Construction of the German Ministry of Transport No. 8/1990 of 10. 4. 1990 - StB 11/14.86.22-01/25 Va 90; issued by the Road Transport Research Society (document FGSV 334) in April 1990.

Schall 03

Guidelines for the calculation of noise immissions from rolling stock. Information from the German Federal Railway, Federal Railway – Central Administration Munich. Acoustics 03, 1990.

Verordnung zur Änderung der Sechzehnten Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes Verkehrs-lärmschutzverordnung-16.BImSchV), Bundesrat, Drucksache 319/14, 17. 7. 2014.

SRM II

Reken-en Meetvoorschrift Railverkeerslawaaai '96, edition of 27 November 2001. Includes SRM II.

ECAC.CEAC Doc. 29

Report on Standard Method of Computing Noise Contours around Civil Airports, 2nd edition, 1997.

Report on Standard Method of Computing Noise Contours around Civil Airports, 3rd edition, 2005.

AzB 2008

Anleitung zur Berechnung von Lärmschutzbereichen (AzB). Verordnung über die Datenerfassung und das Berechnungsverfahren für die Festsetzung von Lärmschutzbereichen, 2008.

CNOSSOS-EU

COMMISSION DIRECTIVE (EU) 2015/996 of 19 May 2015 establishing common noise assessment methods according to Directive 2002/49/EC of the European Parliament and of the Council, ANNEX Assessment Methods for the Noise Indicators, Official Journal of the European Union L168, Legislation Volume 58, 1 July 2015