

**The Appendix is an integral part of
Certificate of Accreditation No. 512/2024 of 01/10/2024**

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

EKOLA group, spol. s r.o.
CAB number 1329, EKOLA group Testing Laboratory
Mistrovská 4/558, 108 00 Praha 10 - Malešice

The laboratory provides opinions and interpretations of the test results.

Detailed information on activities within the scope of accreditation (tested subject / source literature) is given in the section „Specification of the scope of accreditation“.

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1*	Measurement of noise	ČSN EN ISO 9612; ČSN ISO 1999; MoH CR Bulletin, 2013, Part 4, p. 4; ČSN ISO 1996-1; ČSN ISO 1996-2; MoH CR Bulletin, 2023, Part 14, p. 3; OVZ-32.0-19.02.2007/6306; ČSN ISO 20906	Working, non-working environment	-
2*	Measurement of sound pressure levels	ČSN EN ISO 11201; ČSN EN ISO 11202; ČSN EN ISO 11203; ČSN EN ISO 11204; ČSN EN ISO 11819-1; ČSN EN ISO 11819-2; ČSN EN 50849; ČSN EN ISO 16032	Working, non-working environment	-
3	Calculation of noise	MP 1991; NMPB Routes 2008; RLS 90; RLS 19; CNOSSOS-EU; Schall 03; SRM II; ECAC.CEAC Doc. 29; AzB 2008; ČSN ISO 9613-1; ČSN ISO 9613-2	Working, non-working environment	-
4*	Determination of sound power levels	ČSN EN ISO 3744; ČSN EN ISO 3746; ČSN EN ISO 3747;	Noise sources	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
5*	Measurement of airborne sound insulation	ČSN EN ISO 16283-1; ČSN EN ISO 16283-3; ČSN EN ISO 717-1; ČSN EN ISO 10052; ČSN EN 1793-6+A1	Building structures	-
6*	Measurement of impact sound insulation	ČSN EN ISO 16283-2; ČSN EN ISO 717-2; ČSN EN ISO 10052	Building structures	-
7*	Measurement of reverberation time, determination of initial reverberation time, clarity, definition, centre time	ČSN EN ISO 3382-1; ČSN EN ISO 3382-2;	Indoor areas	-
8*	Measurement of sound reflection	ČSN EN 1793-5	Road traffic noise reducing devices	-
9*	Sound loss measurement	ČSN ISO 10847	Outdoor noise barriers	-
10*	Measurement of speech transmission index	ČSN EN IEC 60268-16 ed. 3; ČSN EN 50849	Outdoor and indoor space	-
11*	Measurement of vibration	ČSN EN ISO 5349-1; ČSN EN ISO 5349-2; ČSN ISO 2631-1; ČSN ISO 2631-2; ČSN P ISO/TS 14837-31; MoH CR Bulletin, 2013, Part 4, p. 4	Working, non-working environment	-
12*	Measurement of lighting	ČSN 36 0011-1; ČSN 36 0011-3; ČSN 36 0011-4; ČSN EN 1838; ČSN EN 12193; ČSN EN 12 464-1; ČSN EN 12 464-2; ČSN EN 17037+A1; ČSN 36 0011-2; ČSN 73 0580-1; ČSN 73 0580-2; ČSN 73 0580-3; ČSN 73 0580-4	Working, non-working environment	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
13*	Measurement of microclimatic conditions	MoH CR Bulletin, 2013, Part 8, p. 2; ČSN EN ISO 7726	Working environment, non – working indoor environment	-
14*	Determination of dust by gravimetry	SOP 1, p. 6 (GR 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.)	Working environment, non – working environment – air	-
15*	Determination of chemical substances by calculation from the determined values	SOP 3, p. 9 (ČSN EN 482; ČSN EN 689+AC; GR No. 361/2007 Coll., Annex No. 2; ČSN EN ISO 22065)	Working environment – air	-

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

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 valid edition of the specified procedure is used (including any changes)

³ the laboratory does not apply a flexible approach to the scope of accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Methodological guides of the Ministry of Health of the Czech Republic MoH CR Bulletin 2013, Part 4, p. 4 – Methodological guide for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings; MoH CR Bulletin, 2023, Part 14, p. 3 – Methodological guide for the measurement and evaluation of noise in non-working environment; OVZ-32.0-19.02.2007/6306 – Methodological guide for the measurement and assessment of noise from air traffic.
3	<u>Road transport:</u> MP 1991: Methodological guides for the calculation of traffic noise levels, as amended EKOLA group, spol. s r.o.: Calculation of road traffic noise. Method update. 2018 Manual, as amended. NMPB Routes 2008, as amended

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
	<p>Methodological 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.</p> <p>RLS 90, as amended 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.</p> <p>RLS 19, as amended Richtlinien für den Lärmschutz an Strassen RLS-19. (Road traffic noise pollution guidelines.) Published on 31 October 2019 by the Federal Ministry for Digital and Transport (Germany) in the Transport Bulletin (VkBl. 2019, No. 20, page 698); issued by the Road Transport Research Society (document FGSV 052) in October 2019.</p> <p><u>Rail transport:</u></p> <p>Schall 03, as amended Directive 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.</p> <p>SRM II, as amended Reken-en Meetvoorschrift Railverkeerslawaa i '96, edition of 27 November 2001. Includes SRM II.</p> <p><u>Air transport:</u></p> <p>ECAC.CEAC Doc. 29, as amended 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. ECAC.CEAC Doc 29 – Report on Standard Method of Computing Noise Contours around Civil Airports, 4th edition, 2016.</p> <p>AzB 2008, as amended Anleitung zur Berechnung von Lärmschutzbereichen (AzB). Verordnung über die Datenerfassung und das Berechnungsverfahren für die Festsetzung von Lärmschutzbereichen, 2008.</p> <p><u>Stationary sources (outdoor space):</u></p> <p>ČSN ISO 9613-1, as amended ČSN ISO 9613-1. Acoustics – Attenuation of sound during propagation outdoors – Part 1: Calculation of the absorption of sound by the atmosphere ÚNMZ, 11/1995.</p> <p>ČSN ISO 9613-2, as amended ČSN ISO 9613-2. Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation. ÚNMZ, 9/1998.</p> <p><u>Road, rail, air transport, stationary sources (outdoor space):</u></p> <p>CNOSSOS-EU, as amended 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. 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.</p>

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
11	Methodological guide of the Ministry of Health of the Czech Republic: MoH CR Bulletin 2013, Part 4, p. 4 – Methodological guide for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings
13	Methodological guide of the Ministry of Health of the Czech Republic: MoH CR Bulletin, 2013, Part 8, p. 2 – Methodological guide for the measurement and evaluation of microclimatic parameters of working environment and indoor areas of buildings

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
2	ČSN EN ISO 11819-1; ČSN EN ISO 11819-2 - Outdoor space, ČSN EN ISO 11201; ČSN EN ISO 11202; ČSN EN ISO 11203; ČSN EN ISO 11204; ČSN EN 50849 - Outdoor and indoor space ČSN EN ISO 16032 Indoor space
5	ČSN EN 1793-6+A1 - Road traffic noise reducing devices
7	ČSN EN ISO 3382-1; ČSN EN ISO 3382-2 - Measurement of reverberation time ČSN EN ISO 3382-1 Determination of initial reverberation time, clarity, definition, centre time
12	Artificial (electric) lighting, day lighting
15	Aldehydes, volatile organic compounds, metals, petrols, mineral acids, ammonia, diisocyanates, mineral oils, ozone.

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Sampling of inhalable and respirable fractions of dust and mineral fibres	SOP 1, Part 1 - 5 (GR No. 361/2007 Coll., Annex No. 3; ČSN EN 481; ČSN EN 482; ČSN EN 689+AC)	Working environment, non – working environment – air

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Ordinal number	Sampling procedure name	Sampling procedure identification¹	Subject of sampling
2	Sampling of chemical substances in working environment	SOP 3, Part 1 - 8 (GR No. 361/2007 Coll., Annex No. 2; ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 22065)	Working environment – air

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

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "