



Noise and vibration measurements



Measurements for a variety of product groups



Soundlabel

Make the sound quality of your product visible for your customers. The soundlabel establishes a relation between the subjective perception of a sound and objective measurement results. The soundlabel shows how good your product sounds and offers guidance to consumers for their buying decision. Get more information from our experts.

Sound quality tested

APPLIANCE CLASS
Manufacturer Model

A condition 1	C condition 2
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excellent ID 00000R3A insufficient
www.slg.info

Contact

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Do you have any questions?

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Visit our website at www.slg.de.com for more information on our services.





Our test facilities

- Reverberation room (accuracy class 1, ISO 3741)
- Anechoic room (accuracy class 1, ISO 3745)
- Loading devices for hand-held, forestry and garden tools, e. g. water brake for chain saws
- Loading device for stand-alone operation of refrigerator compressors
- Multi-channel measurement system with sensors for air- and structure-borne noise
- Acoustical camera

Product groups

We examine, amongst others, subassemblies, components and devices from the consumer, outdoor, medical, industrial, automotive, railway and shipping sector.

Our services

Noise measurement

We determine noise emission values for various product groups

- for statement on the EU Energy Label,
- for conformity assessment procedures according to EU directives (Machinery Directive, Outdoor Directive and others)
- and according to customer requirements.

Noise and vibration reduction

We support you in designing low-noise and -vibration products from as early as the development stage. We perform tests in line with your specifications for noise emission, sound intensity and locating of sound sources.

Psychoacoustic parameters

Each sound is unique. We determine parameters which influence the hearing sensation such as loudness, sharpness, roughness and fluctuation strength. We perform subjective noise tests and as a result issue a sound label for your product based on a classification scale.

Noise and vibrations at the work place

We perform measurements and consultations in accordance with the requirements of the EU directives for industrial safety (2003 / 10 / EC for noise and 2002 / 44 / EC for vibrations) and support you in drawing up noise and vibration reduction programs.

Human vibrations

We determine the frequency weighted vibration acceleration within the context of product development and approval, and for work places as

- hand arm vibrations for hand-held appliances and tools
- whole body vibrations for standing/sitting positions,
- and criteria of comfort assessment.

Material tests

Sound insulation is increasingly gaining importance. We determine the sound absorption coefficient of materials for perpendicular and diffuse sound incidence and perform tests which serve as a basis for classifying noise protection walls in sound absorption classes.



Accreditations and competences

- Accreditation by DAkkS for environmental testing, noise and vibration measurements and immission control
- Notified Body acc. to Outdoor Directive 2000/14/EC for devices and machinery intended for outdoor use
- Designation as Technical Service, category A by KBA for noise measurements in vehicles
- Notified measuring body acc. to § 29b BImSchG for noise