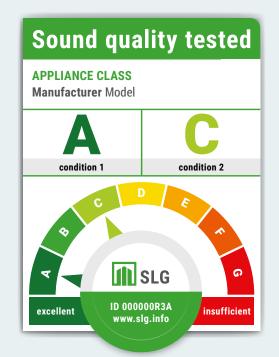




# Noise and vibration measurements

# 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.



### 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 BlmSchG for noise