

Noise emission declarations for machinery



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Preface

This is the second edition of CSA Z107.58, *Noise emission declarations for machinery*. It supersedes the previous edition, published in 2002. This Standard provides information on noise emission, which should be supplied with new machinery, to manufacturers, purchasers, and importers/exporters.

A major goal of this Standard is to help manufacturers efficiently provide standardized information on noise emissions from machinery and equipment (i.e., noise emission declarations). This Standard enables manufacturers to

- a) meet the European Commission requirements specified in reference documents listed in Clause 2 (EC 00, EC 06, EC 10, EC 13) for marketing certain types of machinery (see Annex E) in the European Economic Area (i.e., the European Union, Iceland, Norway, and Liechtenstein); and
- b) meet purchase specifications of customers in Canada and the USA.

This Standard also promotes the manufacturing of quieter machinery as a competitive advantage.

Another objective of this Standard is to help workplace managers (purchasers) use noise emission declarations to purchase quieter machinery and plan noise control strategies. It does so by enabling manufacturers to formally provide sound-level data in an agreed format. This benefits workplace managers by enabling them to comply cost-effectively with Canadian occupational and environmental noise regulations.

It is expected that achieving these objectives will result in quieter workplaces. The benefits to workers, workplace managers, and communities in the vicinity of the workplace include

- reduced risk to workers of noise-induced hearing loss;
- a decrease in the number of disability claims for occupational hearing loss, which is currently the cause of thousands of disability claims per year in Canada (see HC 10);
- enhanced capability for workers to communicate and to hear warning sounds, which improves productivity and safety;
- reduced noise annoyance for communities in the vicinity of the workplace; and
- extension of workplace operating hours into the evening or throughout the night.

This Standard was prepared by the Subcommittee on Noise Exposure Assessment and Control, under the jurisdiction of the Technical Committee on Occupational Hearing Conservation and the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

Notes:

- 1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- 2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
- 3) This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.
- 4) To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:
 - a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
 - b) provide an explanation of circumstances surrounding the actual field condition; and
 - c) where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

- 5) This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line:
- a) Standard designation (number);
 - b) relevant clause, table, and/or figure number;
 - c) wording of the proposed change; and
 - d) rationale for the change.

CSA Z107.58:15

Noise emission declarations for machinery

1 Scope

1.1

This Standard is intended for manufacturers and purchasers of machinery that is sold in, imported to, or exported from Canada. It is also intended for regulators, acoustical professionals, and other interested parties.

1.2

This Standard is intended to provide

- a) guidance on the steps required to provide and verify noise emission declarations for machinery and equipment intended for the workplace;
- b) guidance in the use of noise emission declarations to purchase quieter machinery and plan noise control;
- c) requirements consistent with the European Union directives pertaining to machinery (EC 00, EC 06, EC 10, EC 13) and the supporting international and European standards, prepared by the International Organization for Standardization (ISO) and the European Committee for Standardization (CEN);
- d) information that could also be applicable to the use of similar US national standards of the American National Standards Institute (ANSI); and
- e) additional requirements reflecting Canadian concerns with respect to noise measurements, employee exposure, and engineering noise control.

1.3

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.