

Sound levels for work sites and plants surroundings - procurement of machinery and equipment

Information within brackets ([...]) in this document refers to local regulations.

Scope

During new-, rebuilding or extending machines, equipment and premises noise issues must be considered. The documents gives recommendations for internal noise levels and guidelines for procurement procedures with noise requirements for machinery and equipment in relation to the internal and external environment. The document gives the limit of the noise level which should be achieved to satisfy the reasonable requirements regarding preventing damage to hearing, reduce the risk of accidents and allow spoken communication in the workplace. This document, only covers vibration where it causes audible sound (structural sound) in the work place. An example is structural sound in the operations room. Detected vibration which affects the human body is covered by appendix 3.

Changes since previous edition

This edition differs mainly from the previous one in that checking has been done that the references to other standards and guidelines are still relevant.

Contents

1	Related documents	2
2	Terminology	2
3	General	3
4	Limit values / Objective values	4
4.1	Work environment	4
4.2	External environment	5
5	Sound project - internal and external environment	6
5.1	Managing noise issues with new projects respectively existing installations	6
5.2	Fundamental preconditions	6
6	Machine procurement - internal and external environment	7
6.1	General	7
6.2	The client's targets/requirements for sound data	7
6.3	Machinery procurement	8
6.4	Sound guarantee text in the purchase contract	9
7	References	9

Appendix 1, Sound data for tendered machines

Appendix 2, Low noise warranty text in the purchase contract and measure of noise warranties

Appendix 3, Regulations for noise and vibration in Swedish law