

Australian Standard®

Acoustics—Hearing conservation

This Australian Standard was prepared by Committee AV/3, Acoustics—Human Effects. It was approved on behalf of the Council of Standards Australia on 12 March 1989 and published on 19 May 1989.

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Confederation of Australian Industry
Department of Industrial Relations and Employment, N.S.W.
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AS 1269—1989

Australian Standard®

Acoustics—Hearing conservation

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Amendment No 1
to
AS 1269—1989
Acoustics—Hearing conservation

CORRECTIONS

The 1989 edition of AS 1269 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 3.2.2, 3.2.3, 3.2.4.2, 3.2.4.3, Table 3.1, and Appendix A.

Published on 13 October 1989.

AMDT
No 1
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1989

Page 10. Clause 3.2.2.
Delete ' $L_{Aeq,T,i}$ ' and *substitute* ' $L_{Aeq,Ti}$ '.

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Page 10. Clause 3.2.3.
Delete ' $L_{Aeq,T,i}$ ' and *substitute* ' $L_{Aeq,Ti}$ '.

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1989

Page 10. Table 3.1.
Delete ' $L_{AeqT,i}$ ' and *substitute* ' $L_{Aeq,Ti}$ '.
Delete ' $L_{Aeq,T}$ ' and *substitute* ' $L_{Aeq,8h}$ '.

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1989

Page 11. Clause 3.2.4.2. Note 2.
Delete
 $L_{Aeq,8h} = 90 + 10 \log_{10}(8.5/6.5) \times 10 \log_{10}0.86 = 91 \text{ dB(A)}$.
and *substitute*
 $L_{Aeq,8h} = 90 + 10 \log_{10}(8.5/6.5) + 10 \log_{10}0.86 = 91 \text{ dB(A)}$.

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Page 11. Clause 3.2.4.3.
Delete
 $L_{Aeq,8h} = 90 = 10 \log_{10} \left[D_M + \sum_i^n (PND)_i \right]$
and *substitute*
 $L_{Aeq,8h} = 90 + 10 \log_{10} \left[D_M + \sum_i^n (PND)_i \right]$

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Page 20. Paragraph A2. Lines 9, 12, and 14.
Delete 'Table A2' and *substitute* 'Table A1'.

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Page 21. Figure A1.
Delete ' $L_{Aeq,T,i}$ ' and *substitute* ' $L_{Aeq,Ti}$ '.

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Page 22. Paragraph A3.
Line 4, *delete* ' L_A ' and *substitute* ' $L_{Aeq,T}$ '.
Line 12, *delete* ' L_{A1} , L_{A2} , L_{A3} , L_{A4} ' and *substitute* ' $L_{Aeq,T1}$, $L_{Aeq,T2}$, $L_{Aeq,T3}$, $L_{Aeq,T4}$ '.
Line 13, *delete* 'Table A1' and *substitute* 'Table A2'.
Line 13, *delete* ' L_A ' and *substitute* ' $L_{Aeq,T}$ '.
Line 16, after 'hour' *insert* 'is'.
Line 16, *delete* 'Table A1' and *substitute* 'Table A2'.

PREFACE

This Standard was prepared by Standards Australia's Committee on Acoustics—Human Effects, to supersede AS 1269—1983, *Hearing Conservation*.

AS 1269 has been widely used since its introduction in 1976 and its revisions in 1979 and 1983. The 1979 edition was called up in statutory regulations relating to protection of hearing of persons exposed to occupational noise and the 1983 edition continued to be part of those regulations.

This edition incorporates changes to Table 5.1 which now includes additional data for various types of earphone/cushion or earphone/enclosure combination fitted to audiometers. Appendix D has been revised to reflect the estimated incidence of hearing impairment, which is defined in the body of the Standard, in noise-exposed populations, instead of the hearing loss incidence presented in the 1983 edition.

The utilization of a criterion based on an $L_{Aeq,8h}$ of 90 dB(A) may not necessarily provide adequate protection for all persons in the working population. Appendix A in this Standard provides calculation of daily noise dose (*DND*) from equivalent continuous sound pressure level (L_{Aeq}) or cumulative exposure to different levels of sound exposure. Some persons have been shown to be more susceptible than others to noise-induced impairment, and Appendix D has been revised to provide data on estimated incidence of hearing impairment. As a general rule, it appears essential that personal hearing protection be provided at lower levels than those specified in statutory regulations, in the interest of protecting the more susceptible members of the working community.

The detection of the early stage of noise-induced hearing impairment is of crucial importance. Persons highly susceptible to noise-induced hearing loss will suffer loss of hearing sensitivity early in their exposure history. Experience has shown that such impairment can be detected by audiometric monitoring only if the standard of testing and the reliability of the tests are very high. Accordingly, this edition introduces a recommendation that all audiograms be obtained by averaging the results of at least two separate tests.

Part of Table 5.1, showing maximum permissible background noise levels for audiometric testing using noise-excluding audiometric headsets, has been revised and extended on the basis of data supplied by the National Acoustic Laboratories.

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