

AS/NZS 1270:2002

AS/NZS 1270

Australian/New Zealand Standard™

## **Acoustics—Hearing protectors**



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**STANDARDS**  
NEW ZEALAND  
*Pūrongo Aotearoa*

## **AS/NZS 1270:2002**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee AV-003, Acoustics, Human Effects. It was approved on behalf of the Council of Standards Australia on 30 November 2001 and on behalf of the Council of Standards New Zealand on 3 December 2001. It was published on 18 January 2002.

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The following interests are represented on Committee AV-003:

Association of Australian Acoustical Consultants  
Association of Consulting Engineers, Australia  
Australian Acoustical Society  
Australian Chamber of Commerce and Industry  
Australian Hearing  
Australian and New Zealand Environment and Conservation Council  
Consumers Federation of Australia  
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AS/NZS 1270:2002

# Australian/New Zealand Standard™

## Acoustics—Hearing protectors

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AV-003, Acoustics, Human Effects, to supersede AS/NZS 1270:1999, *Acoustics—Hearing protectors*.

The major changes from the 1999 edition are the revision of the physical test requirements (Section 3) and the addition of guidance for testing specialist devices (Section 5). The method for the measurement of the real-ear attenuation of hearing protectors (Section 4) is unchanged from the 1999 edition.

The physical test requirements specified in this Standard represent a compromise between the extensive physical testing of hearing protectors required by European Standards and the absence of physical test requirements in United States Standards. The test regime specified in this Standard comprises a practical, cost-effective approach that seeks to ensure that hearing protectors are sufficiently robust to maintain their acoustic performance when in use.

In the interests of consistency, the European test procedures and related requirements have been adopted for physical tests that are common to this Standard and the corresponding draft European Standards, namely, prEN 13819.1:1999, *Hearing protectors—Testing*, Part 1: *Physical test methods* and prEN 352:1999, *Hearing protectors—General requirements*. This Standard includes one test not currently included in the European Standards, namely, the dry heat (50°C) test. This test was judged applicable to Australian and New Zealand conditions. One physical test has been added in this edition of the Standard, namely, the headband flexing test required by the European Standards.

In response to the increasing numbers of specialist hearing protectors available to users, guidance for testing such devices is provided in this edition. Specialist hearing protectors offer some method in addition to or other than a simple blocking of the sound transmission. Examples of such devices include level-dependent earmuffs and noise cancelling headsets. Currently there is no recognized procedure for the testing of these devices in their operating state. However, recommendations are given for undertaking passive testing. Once appropriate tests for devices in their operating state have been developed, this Standard will be revised accordingly.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of the Standard. An ‘informative’ appendix is only for information and guidance.

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