



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 457 : 1992

ICS 13.320

13.110

**SAFETY OF MACHINERY – AUDITORY
DANGER SIGNALS – GENERAL
REQUIREMENTS, DESIGN AND TESTING
(ISO 7731:1986)**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on.
September 25, 1992*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

DECLARATION

OF

SPECIFICATION

ENTITLED

**SAFETY OF MACHINERY – AUDITORY DANGER SIGNALS – GENERAL
REQUIREMENTS, DESIGN AND TESTING (ISO 7731:1986)**

AS

THE IRISH STANDARD SPECIFICATION FOR

**SAFETY OF MACHINERY – AUDITORY DANGER SIGNALS – GENERAL
REQUIREMENTS, DESIGN AND TESTING (ISO 7731:1986)**

EOLAS - The Irish Science and Technology Agency in exercise of the power conferred by section 20 (3) of the Industrial Research and Standards Act, 1961 (No. 20 of 1961) and the Science and Technology Act, 1987 (No. 30 of 1987), and with the consent of the Minister for Industry and Commerce, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Safety of Machinery – Auditory Danger Signals – General Requirements, Design and Testing (ISO 7731:1986)) Declaration, 1991.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Safety of Machinery – Auditory Danger Signals – General Requirements, Design and Testing (ISO 7731:1986). The Schedule comprises the text of EN 457 : 1992.

(2) The said standard specification may be cited as Irish Standard/EN 457 : 1992 or as I.S./EN 457 : 1992.

EUROPEAN STANDARD

EN 457:1992

NORME EUROPEENNE

EUROPAISCHE NORM

February 1992

UDC 62-783:654.92:614.8:620.1

Descriptors : Human factors engineering, work safety, accident prevention, work room, hazardous areas, signalling, acoustic signals, audibility, auditory threshold, design, safety requirements, tests

English version

**Safety of machinery - Auditory danger signals -
General requirements, design and testing (ISO
7731:1986 modified)**

Sécurité des machines - Signaux
auditifs de danger - Exigences
générales, conception et essais (ISO
7731:1986 modifiée)

Sicherheit von Maschinen - Akustische
Gefahrensignale - Allgemeine
Anforderungen, Gestaltung und Prüfung
(ISO 7731:1986 modifiziert)

This European Standard was approved by CEN on 1992-02-26
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any CEN member.

This European Standard exists in three official versions (English, French,
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responsibility of a CEN member into its own language and notified to the
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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Ref. No. EN 457:1992 E

Foreword

At its second meeting in June 1988 CEN/TC 122 "Ergonomics" decided to transform the International Standard ISO 7731 "Danger signals for work places - Auditory danger signals" into a European Standard. The respective Questionnaire Procedure (PQ) was carried out in February 1989.

Due to the positive voting result the Technical Bureau (CEN/BT) decided at its meeting in November 1989 to proceed to Formal vote for adoption of the International Standard as EN 27 731.

At its first meeting in April 1990 the newly created working group CEN/TC 122/WG 8 "Danger signals and speech communication in noisy environments" decided that ISO 7731 should be slightly modified due to the PQ comments and the necessity for explanation regarding the relationship between this European Standard and the EC Directive on Machinery Safety (89/392/EEC) as well as EN 292 on the safety of machinery.

According to the Common CEN/CENELEC Rules, being part of the Internal Regulations of CEN, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

As requested by CEN/TC 122 working group CEN/TC 122/WG 8 has prepared the modifications at its meeting on 9th and 10th of April 1990.

The text of the International Standard ISO 7731:1986 was approved by CEN as a European Standard with agreed common modifications as given below.

- a) The title was changed in order to indicate the relationship with the safety of machinery.
- b) The scope was modified in order to indicate the relationship with EN 292-2
- c) The reference to ISO 8201 "Acoustics - Audible emergency evacuation signal" was replaced by a general reference to a European Standard being under preparation.
- d) The numbering of clause 8.5 was changed into 9 in order to separate the required information on sound sources from the guidelines for the design of auditory danger signals.
- e) A new paragraph c) was added to clause 9.
- f) An example for the calculation of the effective masked threshold was added as informative annex A; the original annex became informative annex B.
- g) Changes of editorial nature were made.

The common modifications mentioned above are indicated by a vertical line in the left margin.

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