

Irish Standard I.S. EN 352-3:2020

Hearing protectors - General requirements - Part 3: Earmuffs attached to head protection and/or face protection devices

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I.S. EN 352-3:2020

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National Foreword

I.S. EN 352-3:2020 is the adopted Irish version of the European Document EN 352-3:2020, Hearing protectors - General requirements - Part 3: Earmuffs attached to head protection and/or face protection devices

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EUROPEAN STANDARD NORME EUROPÉENNE

EN 352-3

EUROPÄISCHE NORM

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Supersedes EN 352-3:2002

English Version

Hearing protectors - General requirements - Part 3: Earmuffs attached to head protection and/or face protection devices

Protecteurs individuels contre le bruit - Exigences générales - Partie 3 : Serre-tête montés sur dispositifs de protection de la tête et/ou du visage Gehörschützer - Allgemeine Anforderungen - Teil 3: An Kopfschutz und/oder Gesichtsschutzgeräten befestigte Kapselgehörschützer

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Contents

Introduction 4 1 Scope 6 2 Normative references 6 3 Terms, definitions, symbols and abbreviations 6 3.1 Terms and definitions 6 3.2 Symbols and abbreviations 9 4 Requirements 9 4.1 Sizing 9 4.2 Materials 9 4.2.2 Materials 9 4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped at low temperature (optional) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to damage when dropped at low temperature (optional) 12 4.3.11 Ignitability 12 4.3.2 Starge in headband force (including optional water immersion with headband under st	Europ	ean foreword	3
2 Normative references 6 3 Terms, definitions, symbols and abbreviations 6 3.1 Terms and definitions 6 3.2 Symbols and abbreviations 9 4 Requirements 9 4.1 Sizing 9 4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 10 4.3.3 General 10 4.3.4 General 10 4.3.5 Sizing and adjustability 10 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.5 Cuspin headband force (including optional water immersion with headband under stress) 12 4.3.11 Ignitability 12	Introduction		
3 Terms, definitions, symbols and abbreviations 6 3.1 Terms and definitions 6 3.2 Symbols and abbreviations 9 4 Requirements 9 4.1 Sizing 9 4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 <t< td=""><td>1</td><td>Scope</td><td> 6</td></t<>	1	Scope	6
3.1 Terms and definitions 6 3.2 Symbols and abbreviations 9 4 Requirements 9 4.1 Sizing 9 4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User in	2	Normative references	6
3.2 Symbols and abbreviations 9 4 Requirements 9 4.1 Sizing 9 4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 9 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 3 Annex A (informative) Technical changes between this document and the previous edition of this Eu	-		
4 Requirements 9 4.1 Sizing 9 4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 7 Annex A (informative) Technical changes between this document and the previous edition of this European Stand	3.1		
4.1 Sizing	3.2	Symbols and abbreviations	9
4.2 Materials and construction 9 4.2.1 Materials 9 4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 7 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of R	-	▲ · · · · · · · · · · · · · · · · · · ·	
4.2.1 Materials			
4.2.2 Construction 10 4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.2	Materials and construction	9
4.3 Performance 10 4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.2.1		
4.3.1 General 10 4.3.2 Sizing and adjustability 10 4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 7 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.2.2	Construction	10
4.3.2 Sizing and adjustability		Performance	10
4.3.3 Cup rotation 10 4.3.4 Headband force 10 4.3.5 Cushion pressure 11 4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19			-
4.3.4Headband force.104.3.5Cushion pressure.114.3.6Resistance to damage when dropped124.3.7Resistance to damage when dropped at low temperature (optional)124.3.8Change in headband force (including optional water immersion with headband under stress)124.3.9Insertion loss124.3.9Insertion loss124.3.10Resistance to leakage124.3.11Ignitability124.3.12Minimum sound attenuation135Marking136User information13Annex A (informative) Technical changes between this document and the previous edition of this European Standard17Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered19	4.3.2	Sizing and adjustability	10
4.3.5 Cushion pressure	4.3.3		
4.3.6 Resistance to damage when dropped 12 4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.3.4		
4.3.7 Resistance to damage when dropped at low temperature (optional) 12 4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.3.5	Cushion pressure	11
4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.3.6		
4.3.8 Change in headband force (including optional water immersion with headband under stress) 12 4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.3.7	Resistance to damage when dropped at low temperature (optional)	12
4.3.9 Insertion loss 12 4.3.10 Resistance to leakage 12 4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19	4.3.8	Change in headband force (including optional water immersion with headband	
4.3.10Resistance to leakage124.3.11Ignitability124.3.12Minimum sound attenuation135Marking136User information13Annex A (informative) Technical changes between this document and the previous edition of this European Standard17Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered19			
4.3.11 Ignitability 12 4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered. 19			
4.3.12 Minimum sound attenuation 13 5 Marking 13 6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered 19			
5Marking			
6 User information 13 Annex A (informative) Technical changes between this document and the previous edition of this European Standard 17 Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/425 aimed to be covered. 19	4.3.12		
Annex A (informative) Technical changes between this document and the previous edition of this European Standard	5	Marking	13
of this European Standard	6	User information	13
requirements of Regulation (EU) 2016/425 aimed to be covered 19	Annex	A (informative) Technical changes between this document and the previous edition of this European Standard	17
requirements of Regulation (EU) 2016/425 aimed to be covered 19	Annex ZA (informative) Relationship between this European Standard and the essential		
			19
ייע אווטגיועסווטוס איין איין אווער אווער אווער איין איין איין איין איין איין איין איי	Biblio	graphy	

European foreword

This document (EN 352-3:2020) has been prepared by Technical Committee CEN/TC 159 "Hearing protectors", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2021, and conflicting national standards shall be withdrawn at the latest by November 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 352-3:2002.

The technical changes between this document and the previous edition of this European Standard are listed in Annex A.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulation(s).

For relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document sets requirements for personal hearing protection devices in relation to Regulation (EU) 2016/425 on personal protective equipment.

The particular requirement in relation to the ability of hearing protectors to reduce noise below limit levels is addressed in the standard by requiring the sound attenuation of the hearing protectors, measured in accordance with EN ISO 4869-1, to be not less than a specified minimum. Further, by requiring that the measured sound attenuation be declared, the selection of suitable hearing protectors for individual circumstances can be undertaken according to established practice.

EN 352-3 is part of a family of standards describing product requirements for hearing protectors:

- EN 352-1, Hearing protectors General requirements Part 1: Earmuffs
- EN 352-2, Hearing protectors General requirements Part 2: Earplugs
- EN 352-3, Hearing protectors General requirements Part 3: Earmuffs attached to head protection and/or face protection devices
- EN 352-4, Hearing protectors Safety requirements Part 4: Level-dependent earmuffs
- EN 352-5, Hearing protectors Safety requirements Part 5: Active noise reduction earmuffs
- EN 352-6, Hearing protectors Safety requirements Part 6: Earmuffs with safety-related audio input
- EN 352-7, Hearing protectors Safety requirements Part 7: Level-dependent earplugs
- EN 352-8, Hearing protectors Safety requirements Part 8: Entertainment audio earmuffs
- EN 352-9, Hearing protectors Safety requirements Part 9: Earplugs with safety-related audio input
- EN 352-10, Hearing protectors Safety requirements Part 10: Entertainment audio earplugs

Test methods for these requirements for all types of hearing protectors are described in the following standards:

- EN 13819-1, Hearing protectors Testing Part 1: Physical test methods
- EN 13819-2, Hearing protectors Testing Part 2: Acoustic test methods
- EN 13819-3, Hearing protectors Testing Part 3: Supplementary acoustic test methods

An associated standard EN 458 covers selection, use, care and maintenance of hearing protection.

The parts of EN 352, other than parts 1, 2 and 3, cover the performance of functions additional to passive hearing protection. Hearing protectors which incorporate one or more of these functions are subject to the requirements and tests of each of the relevant parts of EN 352-4 to -10, in addition to that of parts 1, 2 or 3, as appropriate.

The requirements of this document are concerned primarily with the physical and acoustic performance of earmuffs attached to head protection and/or face protection devices (mounted earmuffs).

The sizing requirements enable the majority of the user population to be fitted satisfactorily by "medium size range" mounted earmuffs. Individuals with other sizes can be accommodated by "small size range" or "large size range" mounted earmuffs, which are required to be accompanied by information regarding the range of sizes which they are designed to fit.

The standard also calls for the values of sound attenuation provided by the mounted earmuffs (measured in accordance with EN ISO 4869-1) in order to assist users in selecting the most appropriate model of mounted earmuffs for their needs. Minimum values of sound attenuation are also specified.

A maximum variability in insertion loss, measured objectively after a series of performance tests, is specified. The objective test method only facilitates the making of comparative measurements, and the insertion loss values obtained will differ from the measured sound attenuation values. The method to determine the sound attenuation values which requires the mounted earmuffs to be tested whilst being worn by human test subjects, is regarded as providing the reference test method for the measurement of the acoustic performance of hearing protectors.

1 Scope

This document specifies requirements for construction, design, performance, marking and user information for earmuffs attached to head protection and/or face protection devices, hereinafter referred to as 'mounted earmuffs'.

In particular, it specifies requirements regarding the sound attenuation of mounted earmuffs, measured in accordance with EN ISO 4869-1:2018.

The document does not apply to earmuffs outside the size range of headsizes as defined in this standard.

Because one model of earmuffs designed to be attached to head protection and/or face protection devices can be fitted to a number of other models and sizes of the carrier, this part of the standard sets out a series of physical and acoustic requirements for earmuffs when fitted to the specified model(s) or size(s) of head protection and/or face protection device.

All requirements apply to earmuffs fitted to one of the specified models or sizes of head protection and/or face protection device (the basic combination). An abbreviated set of requirements applies to the same model of earmuffs when fitted to the other specified models or sizes of head protection and/or face protection device (the supplementary combinations).

Ergonomic aspects are addressed by taking into account, within the requirements, the interaction between the user, the device and, where possible, the working environment in which the device is likely to be used (see Annex ZA and EN 458).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13819-1:2020, Hearing protectors — Testing — Part 1: Physical test methods

EN 13819-2:2020, Hearing protectors — Testing — Part 2: Acoustic test methods

EN ISO 4869-2:2018, Acoustics — Hearing protectors — Part 2: Estimation of effective A-weighted sound pressure levels when hearing protectors are worn (ISO 4869-2:2018)

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <u>http://www.electropedia.org/</u>
- ISO Online browsing platform: available at <u>http://www.iso.org/obp</u>

3.1.1

passive hearing protection

hearing protection that provides attenuation of external sounds not by means of electronics

Note 1 to entry: All hearing protectors have the characteristics of reducing noise by their design and type of material used. Devices that have only this function are called passive hearing protection.

[SOURCE: EN 352-1:2020, 3.1.1]



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