SLOVENSKI STANDARD
SIST EN ISO 11691:2021

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Nadomešča:
SIST EN ISO 11691:2009

Akustika - Merjenje dodanega dušenja dušilnika zvoka v kanalu brez pretoka - Laboratorijska informativna metoda (ISO 11691:2020)

Acoustics - Measurement of insertion loss of ducted silencers without flow - Laboratory survey method (ISO 11691:2020)

Akustik - Messung des Einfügungsdämpfungsmaßes von Schalldämpfern in Kanälen ohne Strömung - Laborverfahren der Genauigkeitsklasse 3 (ISO 11691:2020)

Acoustique - Détermination de la perte d'insertion de silencieux en conduit sans écoulement - Méthode de mesurage en laboratoire (ISO 11691:2020)

Ta slovenski standard je istoveten z: **EN ISO 11691:2020**

ICS:

17.140.01	Akustična merjenja in blaženje hrupa na splošno	Acoustic measurements and noise abatement in general
91.120.20	Akustika v stavbah. Zvočna izolacija	Acoustics in building. Sound insulation

SIST EN ISO 11691:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11691

November 2020

ICS 91.120.20

Supersedes EN ISO 11691:2009

English Version

Acoustics - Measurement of insertion loss of ducted silencers without flow - Laboratory survey method (ISO 11691:2020)

Acoustique - Détermination de la perte d'insertion de silencieux en conduit sans écoulement - Méthode de contôle en laboratoire (ISO 11691:2020)

Akustik - Messung des Einfügungsdämpfungsmaßes von Schalldämpfern in Kanälen ohne Strömung - Laborverfahren der Genauigkeitsklasse 3 (ISO 11691:2020)

This European Standard was approved by CEN on 22 July 2020.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 11691:2020) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 “Acoustics” 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of an identical text or by endorsement, at the latest by May 2021, and conflicting national standards shall be withdrawn at the latest by May 2021.

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.

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The text of ISO 11691:2020 has been approved by CEN as EN ISO 11691:2020 without any modification.

INTERNATIONAL STANDARD

ISO 11691

Second edition
2020-07

Acoustics — Measurement of insertion loss of ducted silencers without flow — Laboratory survey method

Acoustique — Détermination de la perte d'insertion de silencieux en conduit sans écoulement — Méthode de contôle en laboratoire

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This second edition cancels and replaces the first edition (ISO 11691:1995), which has been technically revised. The main changes compared to the previous edition are as follows:

— a modal filter has been inserted after the source to bring the standard more in line with the corresponding arrangements in ISO 7235:2003[5], and

— in this edition, test ducts and test object should, if possible, have the same cross-sections.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The insertion loss of absorbent silencers is generally not affected by the air flow, provided that the flow velocity does not exceed approximately 20 m/s in the narrowest cross-section of the silencer. In practice, non-uniform flow distributions must be considered, therefore the limit velocity of 20 m/s corresponds to a design velocity of 10 m/s to 15 m/s.