

STN	Navrhovanie prostredia budov Zabudované systémy sálavého vykurovania a chladenia Časť 1: Definície, symboly a kritéria komfortu (ISO 11855-1: 2021/Amd 1: 2023) Zmena A1	STN EN ISO 11855-1/A1 06 0245
------------	---	---

Building environment design - Embedded radiant heating and cooling systems - Part 1: Definitions, symbols, and comfort criteria (ISO 11855-1:2021)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/23

Obsahuje: EN ISO 11855-1:2021/A1:2023, ISO 11855-1:2021/Amd 1:2023

137925

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN ISO 11855-1:2021/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2023

ICS 91.040.01

English Version

Building environment design - Embedded radiant heating and cooling systems - Part 1: Definitions, symbols, and comfort criteria - Amendment 1 (ISO 11855-1:2021/Amd 1:2023)

Conception de l'environnement des bâtiments - Systèmes intégrés de chauffage et de refroidissement par rayonnement - Partie 1: Définitions, symboles et critères de confort - Amendement 1 (ISO 11855-1:2021/Amd 1:2023)

Umweltgerechte Gebäudeplanung - Flächenintegrierte Strahlungsheiz- und Kühlsysteme - Teil 1: Begriffe, Symbole und Behaglichkeitskriterien - Änderung 1 (ISO 11855-1:2021/Amd 1:2023)

This amendment A1 modifies the European Standard EN ISO 11855-1:2021; it was approved by CEN on 26 September 2023.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Türkiye and United Kingdom.



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

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

EN ISO 11855-1:2021/A1:2023 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 11855-1:2021/A1:2023) has been prepared by Technical Committee ISO/TC 205 "Building environment design" in collaboration with Technical Committee CEN/TC 228 "Heating systems and water based cooling systems in buildings" the secretariat of which is held by DIN.

This Amendment to the European Standard EN ISO 11855-1:2021 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 11855-1:2021/Amd 1:2023 has been approved by CEN as EN ISO 11855-1:2021/A1:2023 without any modification.

INTERNATIONAL STANDARD

ISO 11855-1

Second edition
2021-08

AMENDMENT 1
2023-09

Building environment design — Embedded radiant heating and cooling systems —

Part 1: Definitions, symbols, and comfort criteria

AMENDMENT 1

*Conception de l'environnement des bâtiments — Systèmes intégrés de
chauffage et de refroidissement par rayonnement —*

Partie 1: Définitions, symboles et critères de confort

AMENDEMENT 1



Reference number
ISO 11855-1:2021/Amd.1:2023(E)

© ISO 2023

ISO 11855-1:2021/Amd.1:2023(E)**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 205, *Building environment design*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 228, *Heating systems and water based cooling systems in buildings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 11855 series can be found on the ISO website.

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.

Building environment design — Embedded radiant heating and cooling systems —

Part 1: Definitions, symbols, and comfort criteria

AMENDMENT 1

Contents

Modify the title of 5.4.3 as follows:

5.4.3 Acoustical comfort in thermo active building systems (TABS)

Foreword

Add the following sentence to the revision paragraph:

The main changes are as follows:

- radiant systems are newly classified into types according to the differences in the calculation method to determine the thermal output of the system;
- [Annex C](#), which summarizes the characteristics of the newly classified radiant system types, has been added for easy reference.

Clause 4

Modify the rows in Table 1 as follows:

S	m	Thickness of the screed (excluding the pipes in the system type I)
s_h	m	In the system type II, thickness of thermal insulation from the outward edge of the insulation to the inward edge of the pipes (see Figure 1)
s_l	m	In the system type II, thickness of thermal insulation from the outward edge of the insulation to the outward edge of the pipes (see Figure 1)

5.3.3, Figure 1

Modify the figure key as follows:

Key

- X vertical air temperature difference between head and feet, in K
Y percentage dissatisfied, in %

koniec náhľadu – text ďalej pokračuje v platenej verzii STN