



SLOVENSKI STANDARD

SIST EN 12428:2001

01-september-2001

Vrata v industrijske in javne prostore ter garažna vrata - Toplotna prehodnost - Zahteve za izračun

Industrial, commercial and garage doors and gates - Thermal transmittance -
Requirements for the calculation

Tore - Wärmedurchgangskoeffizient - Anforderungen an die Berechnung

iTeh STANDARD PREVIEW

Portes équipant les locaux industriels, commerciaux et les garages - Transmission
thermique - Exigences pour les calculs

[SIST EN 12428:2001](https://standards.iteh.ai/catalog/standards/sist/c2988a08-f555-43f3-a9de-68c7915ca589/sist-en-12428-2001)

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ICS:

91.060.50	Vrata in okna	Doors and windows
91.090	Konstrukcije zunaj stavb	External structures

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12428

July 2000

ICS 91.060.50

English version

Industrial, commercial and garage doors and gates - Thermal transmittance - Requirements for the calculation

Portes équipant les locaux industriels, commerciaux et les garages - Transmission thermique - Exigences pour les calculs

Tore - Wärmedurchgangskoeffizient - Anforderungen an die Berechnung

This European Standard was approved by CEN on 19 July 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 33 " Doors, windows, shutters, building hardware and curtain walling", the secretariat of which is held by AFNOR.

(standards.itech.ai)

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 January 2001, and conflicting national standards shall be withdrawn at the latest by January 2001.

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

No existing EN standard is superseded.

This standard is one of a series of performance standards identified within the product standard prEN 13241:1998.

European Standards as well as relevant national regulations and standards will enable the actual exposure levels to be determined for the individual locations of the products.

1 Scope

1.1 General

This European Standard specifies the calculation requirements for the thermal transmittance for doors in a closed position.

The doors are intended for installation in areas in the reach of people, for which the main intended uses are giving safe access for goods, vehicles and persons in industrial, commercial or residential premises.

The doors may be manually or power operated.

This document applies to all doors provided in accordance with prEN 13241:1998.

1.2 Exclusions

It does not apply to:

- lock gates and dock gates;
- doors on lifts;
- doors on vehicles;
- armoured doors;
- doors mainly for the retention of animals;
- theatre textile curtains;
- horizontally moving doors less than 2,5 m wide and 6,25 m² area, designed principally for pedestrian use;
- revolving doors of any size;
- doors outside the reach of people (such as crane gantry fences);
- railway barriers;
- barriers used solely for vehicles.

2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 7345	Thermal insulation - Physical quantities and definitions (ISO 7345:1987)
prEN ISO 10077-1:1999	Thermal performance of windows, doors and shutters – Calculation of thermal transmittance - Part 1: Simplified method (ISO/FDIS 10077-1:1999)
prEN ISO 10077-2:1999	Thermal performance of windows, doors and shutters – Calculation of thermal transmittance - Part 2: Numerical method for frames (ISO/DIS 10077-2:1998)

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EN 12433-1	Industrial, commercial and garage doors and gates - Terminology - Part 1: Types of doors
EN 12433-2	Industrial, commercial and garage doors and gates - Terminology - Part 2: Parts of doors
prEN ISO 12567:2000	Thermal performance of windows and doors – Determination of thermal transmittance by hot box methods
prEN 13241:1998	Industrial, commercial and garage doors and gates - Product standard

3 Terms and definitions

For the purpose of this standard the terms and definitions in EN 12433-1 and EN 12433-2 as well as EN ISO 7345 apply.

4 Requirements for the calculation

The calculations according to prEN ISO 10077-1:1999 and / or prEN ISO 10077-2:1999, or checked according to prEN ISO 12567:2000, for whole doors or parts of doors shall give the results to determine the thermal transmittance for a complete door assembly, in accordance to the manufacturer's standard or published installation instructions, building structure excluded.

Thermal transmittance of a complete door assembly shall be expressed as U-value in $W/(m^2 K)$.

5 Marking

The performance of thermal transmittance achieved by calculation and/or testing a specimen product shall be clearly marked in accordance with prEN 13241:1998 either on the door label or in the relevant documentation.