

SLOVENSKI STANDARD SIST EN 12424:2001

01-september-2001

Vrata v industrijske in javne prostore ter garažna vrata - Odpornost proti obremenitvi z vetrom - Klasifikacija

Industrial, commercial and garage doors and gates - Resistance to wind load - Classification

Tore - Widerstand gegen Windlast - Klassifizierung

iTeh STANDARD PREVIEW

Portes équipant les locaux industriels, commerciaux et les garages - Résistance a la charge de vent - Classification

SIST EN 12424:2001

Ta slovenski standard je istoveten z 1916d EN 12424:2000

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 12424

July 2000

ICS 91.060.50

English version

Industrial, commercial and garage doors and gates - Resistance to wind load - Classification

Portes équipant les locaux industriels, commerciaux et les garages - Résistance à la charge de vent - Classification

Tore - Widerstand gegen Windlast - Klassifizierung

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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.

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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.

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According to the CEN/CENELEC Internal Regulations, the Inational 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 13421:1998.

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 classification for wind load 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.

NOTE In case of wind load it is not necessary that the door can be opened or closed.

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 TANDARD PREVIEW

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 12433-1	Indus	strial	, commerci	ial 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 12444:1996 Industrial, commercial and garage doors and gates -

Resistance to wind load - Testing and calculation

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 apply.

4 Classification

The wind load performance shall be expressed in relation to classes as specified in table 1.

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Wind load is understood as differential pressure of one side of the fully closed door leaf to the other.

A test specimen belongs to a specified class, if the results of a full scale test, model test, component part test and/or calculations in accordance with prEN 12444:1996 show that the test specimen is able to withstand the reference wind load specified for that class.

Tests or calculations shall also show, that the door leaf will remain in position under a peak load 1,25 times greater than the reference wind load unless otherwise required. Permanent deformations of door components are allowed in this case.

Specification Reference wind load Class [Pa] No performance determined 0 300 1 450 2 NDARD PREVIEW iTeh S 700 3 liteh.ai) 1000 4 https://standards.https://stan Exceptional; Agreement between 5 manufacturer and purchaser

Table 1 - Wind load classes

A complete door requirement may be in different classes for one or more areas of the leaves as determined by national regulations in the case when these specify different pressures at different heights.

The classes shown in table 1 indicate positive pressure. Suction or reverse direction loads have to be specified as a negative class i.e. a wind load of 300 Pa applied to the inside face of the door is shown as class -1.

NOTE 1 Class 0: Is provided for identifying where there is no wind load performance, i.e. grilles or doors fitted to interior openings or fully protected openings.

NOTE 2 Class 5: Is considered as "Exceptional" above 1000 Pa where a purchaser has a particular requirement and doors are designed specifically for that purpose by agreement between the manufacturer and the purchaser.

NOTE 3 The same door can have a positive and a negative classification.

5 Marking

The performance classes shall be clearly marked in accordance with prEN 13241:1998 either on the door label or in the relevant documentation.

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Bibliography

ENV 1991-2-4

Eurocode 1: Basis of design and actions on structures - Part 2-4: Actions on structures - Wind actions

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