Shutters and blinds - Additional thermal resistance - Allocation of a class of air permeability to a product

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN
13125:2001 sisaldab Euroopa standardi
EN 13125:2001 ingliskeelset teksti.

Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13125:2001 consists of the English text of the European standard EN 13125:2001.

This document is endorsed on 19.12.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This European Standard specifies the classification criteria of shutters and internal and external blinds in relation with their air permeability for the calculation of additional thermal resistance given by these products according to EN ISO 10077-1.

Scope:

This European Standard specifies the classification criteria of shutters and internal and external blinds in relation with their air permeability for the calculation of additional thermal resistance given by these products according to EN ISO 10077-1.

ICS 91.060.50, 91.120.10

Võtmesõnad: building, cladding, hardware, ironmongery (buildi, product grades, protection devices, roller shutters, safety, specification (approval), specifications, thermal insulations, thermal properties, thermal protection, thermal resistance, venetian blinds, windows

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13125

April 2001

ICS 91.060.50; 91.120.10

English version

Shutters and blinds - Additional thermal resistance - Allocation of a class of air permeability to a product

Fermetures pour baies équipées de fenêtres, stores intérieurs et extérieurs - Résistance thermique additionnelle - Attribution d'une classe de perméabilité à l'air à un produit

Abschlüsse - Zusätzlicher Wärmedurchlasswiderstand -Zuordnung einer Luftdurchlässigkeitsklasse zu einem Produkt

This European Standard was approved by CEN on 8 March 2001.

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 Management Centre 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 Management Centre 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

CONTENTS

	Pag
Fore	word
1	Scope
2	Normative references
3	Terms and definitions
4	Shutters - Allocation of air permeability classes
4.1	Criteria for classes allocation
1.2	Minimum classes admitted without assessment
1.3	Conditions of allocation of class 5
5	External blinds, internal blinds, blinds incorporated into the glazing -
	Allocation of air permeability classes
5.1	Criteria for class allocation
5.2	External blinds
5.3	Internal blinds and blinds incorporated into the glazing
5.4	Blinds with one side with low emissivity coating1
6.1 6.2	Presence of a top box (case of roller shutter)
ANN	EX A (normative) Thermal resistance of PVC profiles curtain

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.

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

It is a part of a series of standards dealing with blinds and shutters for buildings as defined in prEN 12216:1995.

Annex A is normative and annex B is informative.

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.

1 Scope

This European Standard specifies the classification criteria of shutters and internal and external blinds in relation with their air permeability for the calculation of additional thermal resistance given by these products according to EN ISO 10077-1.

This standard applies to shutters and blinds fitted to a window, a French window or a curtain walling in such a way that in extended and closed position they inclose an air layer of thickness roughly constant between 15 mm and 300 mm (shutters and blinds parallel to the window or to the façade).

This standard applies to the following shutters and blinds:

- Shutters: roller shutter, external venetien blind, wing shutter, sliding panel shutter, venetian shutter, concertina shutter, flat-closing concertina shutter;
- External blinds: vertical awning, facade awning, conservatory awning;
- Internal blinds: venetian blind, roller blind, vertical blind, pleated blind;
- Blinds incorporated into glazing.

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 (including amendments).

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(U value) - Calculation method

EN ISO 6946 Building components and building elements - Thermal resistance

and thermal transmittance - Calculation method

ISO 8302 Thermal insulation - Determination of steady-state thermal

resistance and related properties - Guarded hot plate apparatus

EN ISO 10077-1 Thermal performance of windows, doors and shutters - Calculation

of thermal transmittance - Part 1: Simplified method

(ISO 10077-1:2000)

prEN ISO 10077-2:1998 Thermal performance of windows, doors and shutters -

Calculation of thermal transmittance - Part 2: Numerical

method for frames (ISO/DIS 10077-2:1998)

EN ISO 10211-1 Thermal bridges in building construction - Heat flow and surface

temperatures - Part 1: General calculation methods

(ISO 10211-1:1995)

prEN 12216:1995 Terminology and definitions for blinds and shutters

EN 12835 Air tight shutters - Air permeability test

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN 12216:1995 and EN ISO 10077-1 apply.

4 Shutters - Allocation of air permeability classes

4.1 Criteria for classes allocation

The air permeability criterion is expressed from geometrical considerations in terms of a total gap between shutter and its surrounding. The total gap is expressed as follows:

$$e_{\text{tot}} = e_1 + e_2 + e_3$$
 [mm]

where:

e_{tot} is the total gap

 e_1 , e_2 , e_3 , are the average gap at the bottom, top and side of the shutter. These values are defined on Figure 1.

The gap conditions to be fulfilled will be specified by the shutter manufacturer in his installation instructions.