# საქართველოს სტანდარტი

დარაბები – მუშა მახასიათებლები უსაფრთხოების გათვალისწინებით

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- 3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 113659:2004+A1:2008 " დარაბები მუშა მახასიათებლები უსაფრთხოების გათვალისწინებით"

### 4 პირველად

**5 რეგისტრირებულია** საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 4 სექტემბერი №268-1.3-014023

## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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#### **English Version**

## Shutters - Performance requirements including safety

Fermetures pour baies équipées de fenêtres - Exigences de performance y compris la sécurité

Abschlüsse außen - Leistungs- und Sicherheitsanforderungen

This European Standard was approved by CEN on 2 March 2004 and includes Amendment 1 approved by CEN on 18 August 2008.

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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 CEN Management Centre has the same status as the official versions.

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

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#### **Foreword**

This document (EN 13659:2004+A1:2008) 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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

NOTE Annex ZB is applicable until December 28th, 2009 and Annex ZC is applicable from December 29th, 2009.

This document supersedes EN 13659:2004.

This document includes Amendment 1, approved by CEN on 2008-08-18.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annexes ZA, ZB and ZC, which are integral parts of this document. (A)

This European Standard is a part of a series of standards dealing with blinds and shutters for buildings as defined in EN 12216.

This standard specifies the requirements for shutters, the levels of performance and the associated classes where applicable.

It is completed by test standards as well as by the standards referring to specific performance requirements.

Annexes A and B are informative.

Annex C is normative.

This document includes a Bibliography.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

#### Introduction

The performances given in this European Standard which illustrate suitability for use, are required for every type of shutter (intrinsic performances).

Other performances are only required as a complement (specific performances) and result in specific products. Some of them are described in European Standards (e.g. EN 1523, EN 1523, ENV 1627, ENV 1628, ENV 1629, ENV 1630, EN 13123-1, EN 13124-1, EN 13123-2 and EN 13124-2). Others are described in prEN 14500 and prEN14501 in the process of preparation and deal with important subjects such as thermal comfort, i.e.:

_	Solar factor;		
_	Shading factor;		
_	Direct solar transmittance;		
_	Secondary heat transfer factor;		
_	Solar radiation reduction factor.		
and visual comfort, i.e.:			
_	Light control;		
_	Night privacy;		
	Visual contact with the outside:		

Glare control;

Rendering of colours.

or with the airborne sound insulation brought by shutters (see prEN 14759).

Health and Safety regulations require that the workplace receives as much natural light as is reasonably practical (see EU Directive 89/654/EEC) and protection of operators working with VDV screens against glare control and reflected light (see EU Directive 87/391/EEC).

The list of these documents is given in the Bibliography.

With the aim of clarifying the intentions of the standard and avoiding doubts when reading it, following assumptions were made related to power operated products while producing it:

- Negotiations shall occur between the manufacturer and the purchaser concerning particular conditions for use and places for use such as for nursery schools or for buildings for disabled people which need specific risk analysis;
- The risk analysis carried out in this standard and the corresponding significant hazards listed in annex C suppose a normal use or normally predictable use e.g. which excludes deliberate and conscious risks taken by the user (see Interpretative Document "Safety in use" of EU Construction Products Directive).