

## **Curtain Walling - Impact resistance - Performance requirements**

Curtain Walling - Impact resistance - Performance requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14019:2004 sisaldab Euroopa standardi EN 14019:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.09.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14019:2004 consists of the English text of the European standard EN 14019:2004.</p> <p>This document is endorsed on 23.09.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p><b>Käsitlusala:</b> This standard defines performance requirements of curtain walling (excluding glass in building which is classified under EN 12600) under soft body impact load criteria specified herein and tested in accordance with prEN 13049. Its criteria is targeted to safety in use and integrity of curtain wall in the event of sudden impact forces on the curtain wall surfaces. Compliance with the performance requirement is determined by the laboratory test</p>	<p><b>Scope:</b> This standard defines performance requirements of curtain walling (excluding glass in building which is classified under EN 12600) under soft body impact load criteria specified herein and tested in accordance with prEN 13049. Its criteria is targeted to safety in use and integrity of curtain wall in the event of sudden impact forces on the curtain wall surfaces. Compliance with the performance requirement is determined by the laboratory test</p>
---	---

ICS 91.060.10

**Võtmesõnad:** components, construction, curtain walling, definition, definitions, facade linings, facades, impact, operatability, part of buildings, resistance, shingling, shock resistance, specification (approval), specifications, strain, strength of materials, testing

ICS 91.060.10

English version

## Curtain Walling - Impact resistance - Performance requirements

Façades rideaux - Résistance au choc - Prescriptions de performance

Vorhangfassaden - Stoßfestigkeit - Leistungsanforderungen

This European Standard was approved by CEN on 10 December 2003.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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

	page
Foreword.....	3
1 Scope .....	4
2 Normative References.....	4
3 Terms and definitions .....	4
4 Requirements .....	4
5 Impact load positions [see Figure 1] .....	5
6 Test Method.....	5
7 Classification.....	5
Bibliography.....	8

## Foreword

This document (EN 14019:2004) 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 December 2004, and conflicting national standards shall be withdrawn at the latest December 2004.

No existing European Standard is superseded.

This European Standard is part of a series of European Standards dedicated to curtain walling products.

This European Standard forms part of a series of curtain walling tests as defined in the product standard EN 13830.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This standard defines performance requirements of curtain walling (excluding 'glass in building' which is classified under EN 12600) under soft body impact load criteria specified herein and tested in accordance with EN 13049.

Its criteria is targeted to safety in use and integrity of curtain wall in the event of sudden impact forces on the curtain wall surfaces. Compliance with the performance requirement is determined by the laboratory test.

It applies to those areas of curtain walling which face onto areas of human activity, either internally or externally and takes account of accidental impacts brought on by people going about their normal daily activities and impacts brought about by equipment and similar devices for maintenance, cleaning, repair and similar occasional activities.

It does not set out to define performance requirements of impact under exceptional circumstances such as acts of vandalism, vehicular collision, firearm projectiles, etc..

This standard will have no bearing whatsoever on any National Building / Health and Safety regulations which may exist and whose requirements shall apply separately and in parallel with these test performance requirements.

## 2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at appropriate points in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these listed 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).

prEN 13119, *Curtain walling - Terminology.*

EN 12600, *Glass in building - Pendulum test - Impact test method and classification for flat glass.*

EN 13049, *Windows - Soft and heavy body impact - Test method, safety requirements and classification.*

## 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN 13119 and the following apply.

### **component dislodgement**

breaking away of any curtain wall component from the main construction, to the extent that the whole or part component falls

## 4 Requirements

4.1 The curtain wall shall safely absorb the impact loads and shall retain its integrity in fulfilling the following criteria :

4.1.1 no parts shall fall down;

4.1.2 any holing shall not occur;

4.1.3 any breakage shall not occur;