

## **Industrial, commercial and garage doors and gates - Safety in use for power operated doors - Testing methods**

Industrial, commercial and garage doors and gates -  
Safety in use for power operated doors - Testing  
methods

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12445:2001 sisaldab Euroopa standardi EN 12445:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 04.04.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12445:2001 consists of the English text of the European standard EN 12445:2000.</p> <p>This document is endorsed on 04.04.2001 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>
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<p><b>Käsitlusala:</b></p> <p>This standard specifies the test methods to be applied to a power operated door to demonstrate compliance with the requirements specified in EN 12453. In particular it specifies the method of measuring the forces developed by a power operated door.</p> <p>It applies to any power operated door covered by EN 12453:2000.</p>	<p><b>Scope:</b></p> <p>This standard specifies the test methods to be applied to a power operated door to demonstrate compliance with the requirements specified in EN 12453. In particular it specifies the method of measuring the forces developed by a power operated door.</p> <p>It applies to any power operated door covered by EN 12453:2000.</p>
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**Võtmesõnad:** fo, gates, hazards, measurement, measuring instruments, measuring techniques, power operation, power-operated, protective measures, safety, safety of use, safety requirements, sliding gates, specification (approval), specifications, test pieces, testing, utilization

**English version**

**Industrial, commercial and garage doors and gates**

**Safety in use of power operated doors – Test methods**

Portes équipant les locaux industriels  
et commerciaux et de garage –  
Sécurité à l'utilisation des portes  
motorisées – Méthodes d'essai

Tore – Nutzungssicherheit kraft-  
betätigter Tore – Prüfverfahren

This European Standard was approved by CEN on 2000-10-27.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

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.

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

This European Standard 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).

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.

This standard is part of a series of European Standards for industrial, commercial and garage doors and gates, which are specified in prEN 13241:1998.

No existing European Standard is superseded.

## 1 Scope

This standard specifies the test methods to be applied to a power operated door to demonstrate compliance with the requirements specified in EN 12453 : 2000. In particular it specifies the method of measuring the forces developed by a power operated door.

It applies to any power operated door covered by EN 12453 : 2000.

## 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).

EN 982, *Safety of machinery – Safety requirements for fluid power systems and their components – Hydraulics*.

EN 983, *Safety of machinery – Safety requirements for fluid power systems and their components – Pneumatics*.

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*.

EN 12453:2000, *Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Requirements*.

EN 12605, *Industrial, commercial and garage doors and gates – Mechanical aspects – Test methods*.

prEN 12978:2000, *Industrial, commercial and garage doors and gates – Safety devices for power operated doors and gates – Requirements and test methods*.

EN 50081-1, *Electromagnetic compatibility – Generic emission standard – Part 1: Residential, commercial and light industry*.

EN 50081-2, *Electromagnetic compatibility – Generic emission standard – Part 2: Industrial environment*.

EN 50082-1, *Electromagnetic compatibility – Generic immunity standard – Part 1: Residential, commercial and light industry*.

EN 50082-2, *Electromagnetic compatibility – Generic immunity standard – Part 2: Industrial environment*.

EN 60204-1:1997, *Safety of machinery – Electrical equipment of machines – Part 1: General requirements (IEC 60204-1:1997)*.

EN 60335-1:1994, *Safety of household and similar electrical appliances – Part 1: General requirements (IEC 60335-1:1991, modified)*.

prEN 60335-2-95:1999, *Safety of household and similar electrical appliances – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use (IEC 60335-2-95 : 1998, modified)*.

IEC 60812, *Analysis techniques for system reliability – Procedure for failure mode and effects analysis (FMEA)*.