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IRISH STANDARD

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**INDUSTRIAL, COMMERCIAL AND GARAGE  
DOORS AND GATES - MECHANICAL  
ASPECTS - TEST METHODS**

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English version

## Industrial, commercial and garage doors and gates - Mechanical aspects - Test Methods

Portes industrielles, commerciales et de garage - Aspects  
mécaniques - Méthodes d'essai

Tore - Mechanische Aspekte - Prüfverfahren

This European Standard was approved by CEN on 1 January 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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## Foreword

This European Standard has been prepared by CEN/TC 33 "Windows, doors, 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of an identical text or by endorsement, at the latest by October 2000, and conflicting national standards shall be withdrawn at the latest by October 2000.

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.

Parts of this European Standard have been prepared under a mandate given to CEN by the European Commission in the Free Trade Association, and support essential requirements of EU Directives. For relationship with EU Directives, see informative Annexes ZA and ZB, which are integral part of this standard.

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

No existing European Standard is superseded.

## 1 Scope

1.1 This European Standard specifies the test methods to verify the mechanical requirements for doors, gates and barriers intended for installation in areas in the reach of people and for which the main intended uses are giving safe access for goods and vehicles accompanied by persons in industrial, commercial and residential premises.

1.2 It does not apply to

- lock gates and dock gates;
- doors on lifts;
- doors on vehicles;
- armoured doors in banks;
- doors for animals in zoos;
- theatre curtains;
- revolving doors of any size;
- horizontally moving doors less than 2,5 m wide and 6,25 m<sup>2</sup> area, designed solely for pedestrian use;
- doors outside the reach of people (such as crane gantry fences);
- railway barriers;
- barriers used solely for vehicles.

1.3 This standard applies only to doors which are not part of the load carrying structure of the building.

1.4 Test method shall include several procedures, e.g. functionality, durability or special tests and inspection. The relationship between the requirements and relevant test methods is listed in table 1. Calculation can also be used as means in a test method, if it is based on the state of the art.

The relationship between requirements for mechanical aspects and relevant test methods given in this standard is shown in Table 1. A structural overview over test procedures and specimen is given in Table 2.

Table 1 – Table of reference

Requirements EN 12604		Test method EN 12605 or defined otherwise	
Object/Clause	Headword	Type	Clause
Door 4.2.2	Strength	Inspection	5.4.1
4.2.3	Operability	(Calculation or test)	
5	Durability	Functionality test	5.1.1
		Durability test	5.2
Differential pressure 4.2.4	Deformation	Calculation or test	prEN 12444
Transparent surfaces 4.2.5	Performance	Special test	5.3.1
Guides and stoppers 4.3.1	Disengagement or derailment - during use and operation - by obstacles	Inspection	5.4.2
		Functionality test	5.1.2
		Functionality test	5.1.2
Arresting devices 4.3.2	Movement by wind	Functionality test	5.1.3
Vertically operating doors 4.3.3	Uncontrolled movements	Functionality test	5.1.4

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