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**BS EN 1027:2016**



**BSI Standards Publication**

# **Windows and doors — Water tightness — Test method**

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This British Standard is the UK implementation of EN 1027:2016. It supersedes BS EN 1027:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/538/1, Windows and doors.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

## Windows and doors - Water tightness - Test method

Fenêtres et portes - Etanchéité à l'eau - Méthode  
d'essaiFenster und Türen - Schlagregendichtheit -  
Prüfverfahren

This European Standard was approved by CEN on 9 January 2016.

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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-CENELEC 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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 1027:2016) 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1027:2000.

The revision of this European Standard clarifies only the test method and does not affect existing test evidence of EN 1027:2000.

This European Standard is one of a series of standards for windows and doorsets.

In comparison with EN 1027:2000, the following significant changes were made:

- a) Clause 2: Deletion of "Normative references";
- b) Clause 3: Supplement of definition "closing condition";
- c) Sub-clause 3.2: Simplification of definition "test pressure";
- d) Sub-clause 3.3: Revision of definition "watertightness";
- e) Sub-clause 3.4: Revision of definition "water penetration";
- f) Sub-clause 5.4: Revision of definition "accuracy";
- g) Sub-clause 6.2: Editorial changes;
- h) Sub-clause 6.2.4.1 and 6.2.4.2: More precise description;
- i) Sub-clause 7.1: Addition of "closing condition";
- j) Clause 8: Supplement of necessary description of test specimen;
- k) New Annex A: Revision of former Figures 1 and 2, separation of Figures into Figure A.1 up to Figure A.4;
- l) New Annex A: Supplement of Figure A.5.

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

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## 1 Scope

This European Standard defines the test method to be used to determine the watertightness of completely assembled windows and doorsets of any materials. This test method is designed to take account of conditions in use, when the window or doorset is installed in accordance with the manufacturer's specification and the requirements of relevant European Standards and codes of practice.

This European Standard does not apply to the joints between the window or door frame and the building construction.

## 2 Normative references

Not applicable.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1 closing condition

#### 3.1.1

##### closed

movable parts rest in or at the fixed parts in a way in which they may be fastened (latched and/or locked)

#### 3.1.2

##### fastened

where the movable part is restrained at one or more points and shall be described by at least one of the two as listed below

#### 3.1.2.1

##### latched

movable part is returned to its closed position and restrained by either

a) a self - engaging fastener or

b) a roller catch or

c) a latch

#### 3.1.2.2

##### locked

movable part is further restrained in the closed position by additional operations (of e.g. handle, key, automatic devices or electronic devices) to engage integrated locking devices (e.g. nutbolts or deadbolts) which will affect the product's characteristics

#### 3.1.3

##### secured

any action(s) which prevent unauthorised release of the fastening device(s) to allow exit or entry (e.g. child safety, burglary)