Methods of testing windows; Mechanical test

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 107:2003 sisaldab Euroopa standardi EN 107:1980 ingliskeelset teksti.	This Estonian standard EVS-EN 107:2003 consists of the English text of the European standard EN 107:1980.
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English version

METHODS OF TESTING WINDOWS

MECHANICAL TESTS

Méthodes d'essais des fenêtres
Essais mécaniques

Prüfverfahren für Fenster
Mechanische Prüfungen

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CEN

EUROPEAN COMMITTEE FOR STANDARDIZATION
Comité Européen de Normalisation
Europäisches Komitee für Normung

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B R I E F H I S T O R Y

This European Standard was drawn up by the Technical Committee CEN/TC 33 "Technological tests for doors, windows, shutters and building hardware".

The Secretariat of which is held by AFNOR.

This European Standard was adopted by CEN on the strength of its acceptance by the following Member countries :

Austria - Belgium - France - Germany - Greece - Italy - Netherland - Spain -

1. INTRODUCTION

Windows, apart from the characteristics they have when closed, undergo various "stresses" while being opened and closed or cleaned.

Mechanical tests performed on the complete window make it possible to :

- determine the forces necessary to open and close the window
- examine the reaction of the window to mechanical tests simultating misuse
- examine the efficiency of the restricted or located opening devices, if fitted.

2. SCOPE

This standard defines the methods to be used for the tests of mechanical strenth of windows considered as finished products, in their normal conditions of use.

3. FIELD OF APPLICATION

This standard applies to all windows including door height windows made of any material, in the actual operating conditions in which they should be used in a finished building, bearing in mind the conditions of test set out below.

4. TERMS AND DEFINITIONS

Hinge : rotating device allowing the opening of the window by rotation around an axis parallel to an edge of the window leaf.

Pivot : rotating device allowing the opening of the window by rotation around an axis not parallel to a side of the window leaf.

Restricted opening device : device for limiting the opening of the window.

Located opening device : device for keeping the window stable when opened.

5. TESTS

Distinction is made between :

5.1 Tests to be carried out on all types of windows :

- measuring the forces necessary to fasten and unfasten and to move and displace the window leaf (clause 8.1).

5.2 Tests varying according to the way in which the window opens :

- misuse (clause 8.2)
- tests of located opening devices of windows in an open position or of restricted opening positions (clause 8.3)