



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 14648:2007

ICS 91.190

**BUILDING HARDWARE - FITTINGS FOR
SHUTTERS - REQUIREMENTS AND TEST
METHODS**

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*This Irish Standard was
published under the authority
of the National Standards
Authority of Ireland and
comes into effect on:
30 October 2007*

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EUROPEAN STANDARD

EN 14648

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2007

ICS 91.190

English Version

Building hardware - Fittings for shutters - Requirements and test methods

Quincaillerie pour le bâtiment - Ferrures pour volets -
Exigences et méthodes d'essai

Schlösser und Baubeschläge - Beschläge für Fensterläden
- Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 23 August 2007.

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Foreword

This document (EN 14648:2007) 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of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

This European Standard is one of a series of European Standards dedicated to building hardware products.

A full contribution to the preparation of this European Standard has been made by the European manufacturers' organization "ARGE" and National Standards Bodies.

The performance tests incorporated in this European Standard are considered reproducible and as such will provide a consistent and objective assessment of the performance of these products throughout CEN Member States.

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

EN 14648:2007 (E)

Introduction

This European Standard is a graded product standard. The hardware is tested on a standardized test frame. The standard test frame is intended to eliminate any inconsistency of results that may arise through the variability between different types of installation and materials that are used for the production of shutters.

This European Standard is only applicable to hardware that connects side-hung shutter sashes either directly or indirectly to a superstructure. It does not take account of any aids or measures which are used to assemble individual shutter components. Furthermore, it does not take account of any aids used for the installation of shutter hardware on the structure of a building.

Where possible, test methods have been unified so that a wide range of shutter types and hardware can be accommodated. In particular

- a) sizes and mass of moving shutter sashes,
- b) frequency and total number of test cycles and
- c) range of operations of the movable shutter sash during each test cycle.

The fixing devices used during testing vary according to the different materials used in the construction of shutters. For this reason shutter hardware under test may be securely fixed to the test apparatus by mechanical means that may differ from those normally used on shutters.

The type and grade of hardware and the effectiveness of methods of fixing can be verified by testing in accordance with relevant performance standards for complete shutter assemblies. Typical shutter assemblies and hinge arrangements are depicted in Annex A.

NOTE The test methods in this standard include overload tests which ensure that such safety related devices have a margin of strength in excess of that required for normal operation, even if after such tests the shutter no longer functions normally.

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