



National Standards Authority of Ireland

STANDARD

I.S. TS 13126-1:2004

ICS 91.190

**BUILDING HARDWARE, FITTINGS FOR
WINDOWS AND DOOR HEIGHT WINDOWS -
REQUIREMENTS AND TEST METHODS - PART
1: REQUIREMENTS COMMON TO ALL TYPES
OF FITTINGS**

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TECHNICAL SPECIFICATION
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English version

**Building hardware, fittings for windows and door height windows
- Requirements and test methods - Part 1: Requirements
common to all types of fittings**

Quincaillerie pour le bâtiment, ferrures de fenêtres et
portes-fenêtres - Prescription et méthodes d'essais - Partie
1 : Prescriptions communes à tous types de ferrures

Baubeschläge, Beschläge für Fenster und Fenstertüren -
Anforderungen und Prüfverfahren - Teil 1: Gemeinsame
Anforderungen an alle Arten von Beschlägen

This Technical Specification (CEN/TS) was approved by CEN on 18 August 2003 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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CEN/TS 13126-1:2004 (E)

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Foreword

This document (CEN/TS 13126-1:2004) 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 Technical Specification is one of a series of Technical Specifications dedicated to building hardware products. It is divided into seventeen parts to incorporate all types of fittings for windows and door height windows.

Informative annex A identifies the elements of components incorporated in each of the seventeen parts of this Technical Specification.

Normative annex B illustrates the 21 window types of opening in common use with a list of fittings applicable to each including references to the parts of this Technical Specification that contain test methods and performance requirements for those fittings

Informative annex C illustrates a typical test rig assembly for all window types and materials.

Where appropriate additional normative and informative annexes are included in the respective part.

The performance tests incorporated in this Technical Specification are considered to be 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 Technical Specification: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

The series of Technical Specifications numbered 13126 is a graded product standard. The fittings are tested on a standard test frame independently of the windows to which they may be fitted. The standard test frame is intended to eliminate any inconsistency of results that may arise through the variability between different materials used for the construction of windows.

Throughout this Technical Specification all references to windows incorporates both windows and door height windows where appropriate.

This Technical Specification applies only to fittings that connect a movable leaf to its fixed frame or control the opening and closing of the movable leaf. It does not take fixing devices into account that are used to assemble or install window frame components or permanently fix a complete window into a building structure.

Where possible, test methods have been unified in order to accommodate a wide range of window-types and fittings. In particular, unification of sizes and mass of moving leaves or sashes, frequency and total number of test cycles and the range of operations of the movable leaf or sash during each test cycle has been maintained.

This Technical Specification excludes selected fittings that are suitable for use on both doors and windows (single axis hinges and door bolts) since requirements for these products are specified in other standards as listed in the relevant text.

Fixings used to install fittings on windows or door height windows are not covered by this Technical Specification. Such fixing devices vary according to the different materials used in the construction of windows. For this reason window fittings being tested may be securely fixed to the test apparatus by suitable mechanical means that may differ from those normally used.

Standards for the performance of complete window assemblies ensure that the correct choice of type and grade of fittings and the effectiveness of the methods of fixing are verified by tests carried out on the complete assembly.

Fittings should be lubricated according to the requirements of the manufacturer's fixing and maintenance instructions. If no lubrication is specified, the test should be undertaken on the product as supplied.

NOTE It is an essential requirement for certain hinges, restricted opening devices that limit the initial opening of a window, devices that hold a window in a fixed open position for ventilation, cleaning or maintenance, and devices that hold a window in a fully reversed position for cleaning of exterior glass, that they should not fail in service in a manner that may cause or permit personal injury. Accordingly, the test methods in this Technical Specification 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 normal function of the window is no longer possible.

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