



NSAI
Standards

Irish Standard
I.S. EN 1906:2012

Building hardware - Lever handles and knob furniture - Requirements and test methods

I.S. EN 1906:2012

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:
EN 1906:2010

<i>This document is based on:</i>	<i>Published:</i>
EN 1906:2012	9 May, 2012
EN 1906:2010	14 April, 2010

This document was published under the authority of the NSAI and comes into effect on:
9 May, 2012

ICS number:
91.190

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Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Building hardware - Lever handles and knob furniture - Requirements and test methods

Quincaillerie pour le bâtiment - Béquilles et boutons de
porte - Exigences et méthodes d'essai

Schlösser und Baubeschläge - Türdrücker und Türknäufe -
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 16 March 2012.

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Foreword

This document (EN 1906:2012) 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of an identical text or by endorsement, at the latest by November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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 1906:2010.

Contribution to the preparation of this standard has been made by the European manufacturers' organisation "ARGE".

This document is part of a series of European Standards dedicated to building hardware products.

Compliance of a set of lock or latch furniture with this European Standard means that it conforms to requirements for normal use, for safety in use and for safety in case of fire.

Normative and informative annexes to this document are indicated in the contents.

Compliance with this European Standard ensures a margin of strength in excess of that needed for normal operation. Additional requirements are necessary for special safety furniture used in situations where there is a high risk of failure. Since special safety furniture is not essential in every situation, this European Standard provides additional safety requirements (see 5.13) which are only necessary when the manufacturer claims it essential that the safety furniture conform to these requirements.

This document states five grades of security. Grade 0 is in accordance with requirements specified in the main part of this document. Grades 1 to 4 are specified in accordance with requirements for security lock furniture for use on burglary-resistant doors (see Annex A). These additional security requirements are necessary only when the manufacturer claims that products need have a high level of security, which is not essential in every situation.

The suitability of lock or latch furniture for use on fire/smoke door assemblies is determined by fire performance tests in addition to the performance tests specified by this standard. Since suitability for use on fire/smoke door assemblies is not essential in every situation, the manufacturer has the option of stating whether the furniture is claimed to conform to these additional requirements or not. If such a claim is made, the additional requirements given in Annex C are necessary.

Annex C refers to all kinds of lock or latch furniture for use on fire/smoke door assemblies, and their use on single-leaf or double-leaf doors.

A product conforming to this standard can also be part of an exit device in accordance with EN 179.

In order to claim conformance to EN 1906 all relevant requirements of Table 1, Main test parameters, should be met and declared.

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, 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.

1 Scope

This European Standard specifies test methods and requirements for spindle and fastening elements, operating torques, permissible free play and safety, free angular movement and misalignment, durability, static strength and corrosion resistance for sprung and unsprung lever handles, knobs for doors, push pads and similar devices in combination with backplates or roses operating latches.

This European Standard is applicable only to lever handles and knobs that operate a latch or a lock and other devices.

It specifies four categories of use according to frequency and other conditions of use.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 314-2:1993, *Plywood — Bonding quality — Part 2: Requirements*

EN 636:2003, *Plywood — Specifications*

EN 1154:1996+A1:2002, *Building hardware — Controlled door closing devices — Requirements and test methods*

EN 1634-1, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware — Part 1: Fire resistance tests for doors, shutters and openable windows*

EN 1634-2, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware — Part 2: Fire resistance characterisation test for elements of building hardware*

EN 1634-3, *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware — Part 3: Smoke control test for door and shutter assemblies*

EN 1670:2007, *Building hardware — Corrosion resistance — Requirements and test methods*

EN 12209, *Building hardware — Locks and latches — Mechanically operated locks, latches and locking plates — Requirements and test methods*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

ISO 10899, *High-speed steel two-flute twist drills — Technical specifications*

3 Terms and definitions

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

3.1 backplate
element generally, but not essentially, rectangular in plan whose purpose is, firstly, functional, providing a bearing for the rotation of a door lever handle or knob and the means of attachment to the door; and, secondly, decorative, working as a trim plate to cover holes provided in the door for the passage of spindles, keys or lock cylinders

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