



**NSAI**  
Standards

Irish Standard  
I.S. EN 12320:2012

# Building hardware - Padlocks and padlock fittings - Requirements and test methods

© CEN 2012

No copying without NSAI permission except as permitted by copyright law.

## I.S. EN 12320:2012

*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.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

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

*This document replaces:*  
EN 12320:2001

*This document is based on:*  
EN 12320:2012

*Published:*  
22 October, 2012

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

**ICS number:**  
91.190

**NSAI**  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

**Sales:**  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

**Building hardware - Padlocks and padlock fittings -  
Requirements and test methods**

Quincaillerie pour le bâtiment - Cadenas et porte-cadenas -  
Exigences et méthodes d'essai

Baubeschläge - Hangschlösser und Hangschlossbeschläge  
- Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 11 August 2012.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

## Contents

	Page
Foreword .....	3
1 <b>Scope</b> .....	4
2 <b>Normative references</b> .....	4
3 <b>Terms and definitions</b> .....	4
4 <b>Requirements</b> .....	6
5 <b>Test methods</b> .....	8
6 <b>Classification</b> .....	16
7 <b>Marking</b> .....	17
<b>Annex A</b> (normative) <b>Sampling and sequencing - Tests on alternative design padlocks</b> .....	18
<b>Annex B</b> (normative) <b>Test rig illustrations</b> .....	19

## **Foreword**

This document (EN 12320:2012) 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 April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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 12320:2001.

The following is a list of technical changes since the previous edition:

- Limited manual attack
- Corrosion resistance
- Table 2 – security requirements
- Resistance to attack by plug/cylinder extraction
- Annex A, sampling and sequencing

The test methods are specified in detail to ensure reproducibility at any testing establishment within Europe, and the acceptance criteria are defined objectively to ensure consistency of assessment.

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.

## 1 Scope

This European Standard applies to mechanical padlocks and padlock fittings used on buildings and general use and specifies the test methods to be used.

This European Standard specifies performance and other requirements for strength, security, durability, performance, and corrosion resistance of padlocks. It establishes one category of use, two categories of durability, six categories for corrosion resistance and six grades for security based on performance tests that simulate attack.

Limited manual attack testing is included in this European Standard because the machine testing does not replicate all known manual attacks.

## 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 1303:2005, *Building hardware – Cylinders for locks – Requirements and test methods*

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

EN 10025-2, *Hot rolled products of structural steels – Part 2: Technical delivery conditions for non-alloy structural steels*

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 and symbols apply.

### 3.1 Terms and definitions

#### 3.1.1

##### **cam**

part of the key and cylinder mechanism which operates the locking mechanism

#### 3.1.2

##### **effective key differ**

difference between the key mechanism of similar design, achieved only by the movable detainer, which allows each key mechanism to be operated only by its own key

Note 1 to entry: The number of effective differs is equal to the number of theoretical differs after deduction of the differs suppressed by the manufacturer due to technical constraints and those differs suppressed in accordance with the restraints of 4.5.1

#### 3.1.3

##### **hasp**

part of the padlock fitting which goes over the staple.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-