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BSI Standards Publication

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

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## National foreword

This British Standard is the UK implementation of EN 12320:2021. It supersedes BS EN 12320:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/538/4, Building hardware.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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## EUROPÄISCHE NORM

December 2021

ICS 91.190

Supersedes EN 12320:2012

English Version

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

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

Baubeschläge - Hangschlösser und  
Hangschlossbeschläge - Anforderungen und  
Prüfverfahren

This European Standard was approved by CEN on 21 September 2021.

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.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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<b>Contents</b>		Page
<b>European foreword</b> .....		3
<b>1</b>	<b>Scope</b> .....	4
<b>2</b>	<b>Normative references</b> .....	4
<b>3</b>	<b>Terms, definitions and symbols</b> .....	4
<b>3.1</b>	<b>Definitions</b> .....	4
<b>3.2</b>	<b>Symbols</b> .....	5
<b>4</b>	<b>Requirements</b> .....	6
<b>4.1</b>	<b>General</b> .....	6
<b>4.2</b>	<b>Category of use (first classification digit)</b> .....	6
<b>4.3</b>	<b>Durability (second classification digit)</b> .....	6
<b>4.4</b>	<b>Corrosion resistance (third classification digit)</b> .....	6
<b>4.5</b>	<b>Security (fourth classification digit)</b> .....	6
<b>5</b>	<b>Test methods</b> .....	9
<b>5.1</b>	<b>General</b> .....	9
<b>5.2</b>	<b>Category of use</b> .....	10
<b>5.3</b>	<b>Durability</b> .....	10
<b>5.4</b>	<b>Corrosion resistance</b> .....	10
<b>5.5</b>	<b>Security</b> .....	11
<b>6</b>	<b>Classification</b> .....	16
<b>6.2</b>	<b>Durability (second digit)</b> .....	16
<b>6.3</b>	<b>Corrosion resistance (third digit)</b> .....	16
<b>6.4</b>	<b>Security (fourth digit)</b> .....	16
<b>7</b>	<b>Marking</b> .....	17
<b>Annex A (normative) Sampling and sequencing - Tests on alternative design padlocks</b> .....		18
<b>Annex B (normative) Test rig illustrations</b> .....		19
<b>Annex C (informative) Manufacturer's declaration of compliance</b> .....		27
<b>Bibliography</b> .....		29

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## European foreword

This document (EN 12320:2021) 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 June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12320:2012.

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

Annexes A and B are normative.

In comparison with the previous edition, the following significant technical modifications have been made:

— Annex C, Manufacturer’s declaration of compliance.

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

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## 1 Scope

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

This document 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 document because the machine testing does not replicate all known manual attacks.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

EN 10025-2:2019, *Hot rolled products of structural steels - Part 2: Technical delivery conditions for non-alloy structural steels*

EN 1303:2015, *Building hardware - Cylinders for locks - Requirements and test methods*

EN ISO 10666, *Drilling screws with tapping screw thread - Mechanical and functional properties (ISO 10666)*

EN ISO 15480, *Fasteners - Hexagon washer head drilling screws with tapping screw thread (ISO 15480)*

EN ISO 15481, *Cross recessed pan head drilling screws with tapping screw thread (ISO 15481)*

EN ISO 15482, *Cross recessed countersunk head drilling screws with tapping screw thread (ISO 15482)*

EN ISO 15483, *Cross recessed raised countersunk head drilling screws with tapping screw thread (ISO 15483)*

## 3 Terms, definitions and symbols

### 3.1 Definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

#### 3.1.1

##### **cam**

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