

**SSF 1090**

REGULATIONS FOR

# **LOCKS AND FITTINGS MECHANICAL CYLINDERS BURGLAR RESISTANCE**

CLASSIFICATION, REQUIREMENTS,  
AND TEST METHODS

NOVEMBER 2023

**SSF 1090 Edition 2**

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## Foreword

This standard (SSF1090, Edition 2) has been developed by SSF Swedish Theft Prevention Association (SSF) in cooperation with market representatives and other stakeholders.

This standard is one of several standards which form a basis for the classification of products related to burglar-resistant lock unit.

Standards for burglar-resistant lock set included in SSF 3522 are described in Appendix A.

Mechanical cylinders according to this standard are designed for fixed mounting in interaction with mechanical or electromechanical lock cases.

Mechanical cylinders according to this standard are based on properties as described in SS-EN 1303, which is a necessary document, supplemented with requirements and test methods for burglar-resistant properties and requirements and test methods for picking and manipulation.

Please note that some parts of this document may be covered by patent rights. SSF is not responsible for identifying any or all such patent rights.

## Changes from previous edition, SSF 1090 Edition 1

- Editorial adaptation to SSF template for product standard.
- Number of levels changed from 5 to 3. Levels 1, 3 and 5. Levels 2 and 4 are removed.
- Reference to SS-EN 1303, Edition 2015 introduced in requirements and test methods, which means that the requirements have been amended and some test methods have been modified compared to previously.
- Extending the requirements for durability in levels 3 and 5.
- The cylinders shall be able to withstand temperatures ranging from -25 °C to +65 °C.
- Key number of effective differs increased for level 3.
- The cylinder plug turning resistance, where the requirement is reduced from 20 Nm to 15 Nm.
- The cylinder's drill resistance at level 1 is adapted to EN 1303.
- The cylinder's extraction resistance has been removed at level 1.
- Tables adjusted to include reference to EN 1303, including direct values.
- Interpretation of 5.5 Resistance to attacks with attack from 10 July 2018 introduced as the reference to SS-EN 1303 is introduced.
- Interpretation of 6.2 Durability from 12 August 2020 introduced.

This standard is valid from 6 November 2023 and replaces SSF 1090, edition 1. Edition 1 will be suspended on 6 May 2024.

## 1 Scope

This standard covers mechanical cylinders with mechanical decoding, designed for fixed mounting which interacts with a mechanically or electrically operated lock case.

The standard specifies requirements and test methods, as well as requirements for product information and labelling.

The standard may also be applied to cylinders in other applications, such as padlocks.

## 2 References

The following publications include requirements which, in part or in full, constitute requirements in this standard.

Only the listed edition applies in the case of dated references.

The latest edition of the publication, including any published interpretations and additions, applies in the case of undated references.

SSF 1050: 2003	<i>Metodbeskrivning för dyrkning av lås</i>
SSF 3522	<i>Burglar-resistant fixed mounted lock unit – Classification, requirements and testing</i>
SS 2218	<i>Building hardware – Door and window fittings – Terminology</i>
SS-EN 1303: 2015	<i>Building hardware – Cylinders for locks – requirements and test methods</i>
SS-EN 1670: 2005	<i>Building hardware – Corrosion resistance – Requirements and test methods</i>

## 3 Definitions

The terms and definitions specified below are applicable when using this document.

### **one differ fault**

fault in a mechanical keycode in a position with a difference of one step according to the manufacturer's differences used in practice between cuts.

### **forced cylinder**

the cylinder's locking or latching function has ceased.

### **m- value**

weighted mean value for acceptance level of picking results.

## 4 Classification

Mechanical cylinders according to this standard are specified with 3 levels for classification in 7 classes according to SSF 3522.