

SSF 1091

Norm for

**MECHATRONIC
CYLINDERS
- BURGLAR
RESISTANCE**

REQUIREMENTS AND TEST METHODS

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Swedish Theft Prevention
Association's Norm
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SSF (the Swedish Theft Prevention Association) is a non-profit association. The aim of the association is to promote safety and security for individuals and property through crime prevention measures, and to help shape opinions and disseminate information with regard to crime prevention.

Excerpt from SSF's by-laws § 1 and § 2
laid down on 13 May 2011.

SSF, the Swedish Theft Prevention Association, develops and specifies Norms for testing and classification within areas considered relevant to the aims of the association. A list of current SSF norms can be found on the SSF website at www.stoldskyddsforeningen.se

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CONTENTS

FOREWORD	4
ORIENTATION	4
1 SCOPE	5
2 DEFINITIONS	6
3 REFERENCES	7
4 CLASSIFICATION	8
5 REQUIREMENTS	8
5.1 DURABILITY	8
5.2 KEY STRENGTH.....	8
5.3 ENVIRONMENTAL IMPACT.....	9
5.4 ELECTRICALLY CONTROLLED OBSTRUCTION MECHANISMS	10
5.5 PERSONAL CODE-CONTROLLED OBSTRUCTION MECHANISMS	11
5.6 MECHANICALLY CONTROLLED OBSTRUCTION MECHANISMS	12
5.7 RESISTANCE TO ATTACKS.....	13
5.8 THE CYLINDER'S ATTACHMENT TO THE LOCKCASE	14
5.9 PICKING AND MANIPULATION	15
6 TEST METHODS	20
6.1 GENERAL	20
6.2 DURABILITY AND TEAR.....	21
6.2.1 OPERATION TESTING.....	24
6.3 THE KEY'S STRENGTH	26
6.4 ENVIRONMENTAL IMPACT.....	27
6.5 ELECTRICALLY CONTROLLED OBSTRUCTION MECHANISMS	30
6.6 PERSONAL CODE-CONTROLLED OBSTRUCTION MECHANISMS	30
6.7 MECHANICALLY CONTROLLED OBSTRUCTION MECHANISMS	31
6.8 RESISTANCE TO ATTACKS.....	31
6.9 CYLINDER ATTACHMENT TO A LOCKCASE	36
6.10 PICKING AND MANIPULATION	40
7 NEW TEST SERIES AND RETESTING	45
7.1 NEW TEST SERIES.....	45
7.2 RETESTING.....	46
7.3 REDESIGN	46
8 TEST REPORT	46
9 LABELLING	46
10 PRODUCT INFORMATION	47
ANNEX A (FOR INFORMATION) SUMMARY OF BURGLAR RESISTANCE FOR FIXED MOUNTED LOCKS	48
ANNEX B	50
BIBLIOGRAPHY	53

Foreword

SSF's norms state characteristics that are considered to be of importance for burglar resistance, performance and reliability. The regulations seek to specify quality and security ratings that can be applied in general, both in terms of specifying requirements and in conjunction with procurement.

The norms refer to, or wherever possible are based on, national and international standards and other applicable technical specifications or international quality standards.

Satisfying statutory requirements can be demonstrated by testing and certification by recognised testing and certification organisations. Products, services, companies and individuals that satisfy applicable regulatory requirements can be found in SSF lists, which are published in the Security Guide. The Security Guide is available in a print version or can be downloaded from the SSF website.

Orientation

This norm has been produced by representatives of SSF Swedish Theft Prevention Association, SEM Group, SLR, RPS and certification bodies.

This norm is one of several norms which form a basis for the classification of products related to burglar-resistant locks.

The norms for fixed mounted burglar-resistant locks relating to burglar resistance of fixed mounted locks in SSF 3522 are described in Annex A.

Mechatronic cylinders according to this norm are designed for fixed mounting in interaction with mechanical or electromechanical lockcases.

Mechatronic cylinders according to this norm are based on properties according to SS-EN 1303 and SS-EN 15684, supplemented with requirements and test methods for burglar-resistant properties and requirements and test methods for picking and manipulation

Mechatronic cylinders are designed to replace mechanical cylinders

Mechatronic cylinders can be operated with the following principles:

- A Key has both an electric code and a mechanical code for operation. Cylinder with obstruction which is operated electrically and controlled by an electric code, as well as a mechanically operated obstruction.
- B Key has only an electric code and is designed for manual operation of the cylinder. Cylinder with obstruction operated electrically and controlled by electric code. The cylinder has no mechanically operated obstruction but requires mechanical operation to actuate the lockcase's bolt.
- C Key/code reader unit has an electric code and has no ability to operate the cylinder manually. Cylinder interacts with a lockcase or knob, the obstruction of which is operated electrically and controlled by the key's/code reader unit's electric code.

Mechatronic cylinders according to this norm are classified in accordance with SSF 3522.

1 Scope

The norm covers electrically operated cylinders with or without interacting mechanical decoding, designed for fixed mounting and which interact with a mechanically or electrically controlled lockcase.

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

This norm does not include mechanical cylinders with electric switches which are activated without an electric code.

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