



Nederlandse norm

# **NEN-EN 15684**

(en)

Hang- en sluitwerk - Mechatronische cilinders -  
Eisen en beproevingsmethoden

Building hardware - Mechatronic cylinders -  
Requirements and test methods

Vervangt NEN-EN 15684:2012 3e Ontw.

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Voorbeeld  
 Preview

Normcommissie 353644 "Hang- en sluitwerk, begeleiding CEN/TC 33/WG 4"



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## Nederlands voorwoord

Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

<u>vermelde norm</u>	<u>Nederlandse norm</u>	<u>titel</u>
EN 636:2003	NEN-EN 636:2003	Triplex - Specificaties
EN 1303:2005	NEN-EN 1303:2005	Hang- en sluitwerk - Cilinders voor sloten - Eisen en beproevingsmethoden
EN 1634-1	NEN-EN 1634-1	Bepaling van de brandwerendheid en rookwerendheid van deuren, luiken en te openen ramen en hang- en sluitwerk - Deel 1: Beproeving van de brandwerendheid van deuren, luiken en te openen ramen
EN 1634-2	NEN-EN 1634-2	Bepaling van de brandwerendheid en rookbeheersing van deuren, luiken, te openen ramen en hang- en sluitwerk - Deel 2: Brandwerende typeringsproef voor hang- en sluitwerk
EN 1634-3	NEN-EN 1634-3	Bepaling van de brandwerendheid en rookbeheersing van deuren, luiken, te openen ramen en hang- en sluitwerk - Deel 3: Beproeving van de weerstand tegen rookdoorgang van deuren en luiken
EN 1670:2007	NEN-EN 1670:2007	Hang- en sluitwerk - Bestandheid tegen corrosie - Eisen en beproevingsmethoden
EN 1906	NEN-EN 1906	Hang- en sluitwerk - Deurklinken en -knoppen - Eisen en beproevingsmethoden
EN 60068-2-1	NEN-EN-IEC 60068-2-1	Klimatologische en mechanische beproevingsmethoden voor elektrotechnische producten - Deel 2-1: Beproevingen - Proef A: Koude
EN 60068-2-2	NEN-EN-IEC 60068-2-2	Klimatologische en mechanische beproevingsmethoden voor elektrotechnische producten - Deel 2-2: Beproevingen - Beproeving B: Droge warmte
EN 60068-2-6:2008	NEN-EN-IEC 60068-2-6:2008	Klimatologische en mechanische beproevingsmethoden voor elektrotechnische producten - Deel 2-6: Beproevingen - Proef Fc: Trilling (sinusvormig)
EN 60068-2-29:1993	NEN-EN-IEC 60068-2-29:1998	Klimatologische en mechanische beproevingsmethoden voor elektrotechnische producten - Deel 2: Beproevingen - Sectie 29: Proef Eb en leidraad: Stoten
EN 60068-2-30:2005	NEN-EN-IEC 60068-2-30:2006	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 + 12 h cycle)
EN 60529:1991	NEN 10529:1992	Beschermingsgraden van omhulsels van elektrisch materieel (IP-codering)
EN 61000-4-2	NEN-EN-IEC 61000-4-2	Elektromagnetische compatibiliteit (EMC) - Deel 4-2: Beproevingen en meettechnieken - Elektrostatische ontlading - Immunitetsproef
EN ISO 10666:1999	NEN-EN-ISO 10666:1999	Borende plaatschroeven - Mechanische en functionele eigenschappen
EN ISO 15480	NEN-EN-ISO 15480	Borende zeskantplaatbouten met kraag
EN ISO 15481	NEN-EN-ISO 15481	Borende pancilinderplaatschroeven met kruisgleuf
EN ISO 15482	NEN-EN-ISO 15482	Borende platverzonken plaatschroeven met kruisgleuf
EN ISO 15483	NEN-EN-ISO 15483	Borende bolverzonken plaatschroeven met kruisgleuf

Voorbeeld  
Preview

EUROPEAN STANDARD

**EN 15684**

NORME EUROPÉENNE

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English Version

## Building hardware - Mechatronic cylinders - Requirements and test methods

Quincaillerie pour le bâtiment - Cylindres mécatroniques -  
Exigences et méthodes d'essai

Schlösser und Baubeschläge - Mechatronische  
Schließzylinder - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 23 September 2012.

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## Contents

Page

Foreword.....	4
Introduction.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	7
4 Requirements.....	9
4.1 General.....	9
4.2 Category of use.....	9
4.2.1 Key strength.....	9
4.2.2 Stability of electronic key.....	9
4.2.3 Wrong electronic code.....	9
4.2.4 Bump requirements.....	9
4.2.5 Vibration requirements.....	9
4.2.6 Electrostatic discharge requirement.....	10
4.2.7 Minimum knob transmission.....	10
4.3 Durability requirements.....	10
4.4 Fire/smoke resistance.....	10
4.5 Environmental resistance.....	10
4.5.1 Corrosion resistance requirements.....	10
4.5.2 Resistance of MC against water.....	11
4.5.3 Dry Heat.....	11
4.5.4 Cold.....	11
4.5.5 Damp heat cyclic.....	11
4.5.6 Resistance of electronic key against water.....	11
4.6 Key related security.....	12
4.6.1 General.....	12
4.6.2 Minimum number of effective mechanical code variations.....	12
4.6.3 Minimum numbers of movable detainers.....	13
4.6.4 Maximum number of identical steps.....	13
4.6.5 Direct coding on key.....	14
4.6.6 Torque resistance of plug/cylinder relevant to key related security.....	14
4.6.7 Minimum number of electronic code variations.....	14
4.7 System management.....	15
4.8 Attack resistance requirements.....	15
4.8.1 General.....	15
4.8.2 Resistance to drilling.....	15
4.8.3 Resistance to attack by chisel.....	15
4.8.4 Resistance to attack by twisting.....	15
4.8.5 Resistance to attack by plug/cylinder extraction.....	16
4.8.6 Torque resistance of plug/cylinder relevant to attack resistance.....	16
4.8.7 Attack by hits.....	16
4.8.8 Attack by vibrations.....	16
4.8.9 Increased voltage attack.....	16
4.8.10 Electrostatic discharge attack.....	16
4.8.11 Magnetic field attack.....	16
4.9 Requirements for product information.....	17
5 Testing, assessment and sampling methods.....	18
5.1 General.....	18
5.2 Operational test.....	19

5.2.1	MC's operated by key .....	19
5.2.2	MC's operated by knob or thumb turn.....	19
5.2.3	MC's with freely rotating means, operated by key .....	20
5.2.4	MC's with freely rotating means, operated by knob or thumb turn.....	20
5.3	Performance tests.....	20
5.4	Category of use.....	21
5.4.1	Key strength .....	21
5.4.2	Stability of electronic key .....	21
5.4.3	Bump test (cylinder) .....	21
5.4.4	Vibration test.....	22
5.5	Durability tests.....	22
5.6	Fire/smoke resistance tests.....	24
5.7	Environmental resistance tests.....	24
5.7.1	Corrosion tests .....	24
5.7.2	Resistance of MC against water.....	24
5.7.3	Dry heat test (functional) .....	24
5.7.4	Cold test.....	25
5.7.5	Damp heat test (cyclic).....	25
5.7.6	Resistance of electronic key against water .....	26
5.8	Key related security.....	26
5.8.1	General.....	26
5.8.2	Minimum number of effective mechanical code variations .....	26
5.8.3	Torque resistance of plug/cylinder relevant to key related security.....	26
5.8.4	Minimum number of electronic code variations .....	26
5.9	System Management .....	26
5.10	Attack resistance tests.....	26
5.10.1	Resistance to drilling .....	26
5.10.2	Resistance to attack by chisel.....	27
5.10.3	Resistance to attack by twisting.....	28
5.10.4	Resistance to attack by plug/cylinder extraction.....	28
5.10.5	Torque resistance of plug/cylinder.....	32
5.10.6	Attack by hits test.....	33
5.10.7	Attack by vibrations test.....	34
5.10.8	Increased voltage attack test.....	34
5.10.9	Electrostatic discharge attack test .....	34
5.10.10	Magnetic field attack test.....	35
6	Classification system .....	35
6.1	Classification.....	35
6.2	Category of use: (1st character).....	36
6.3	Durability (2nd character): .....	36
6.4	Fire/smoke resistance (3rd character): .....	36
6.5	Environmental resistance (4th character):.....	36
6.6	Mechanical key related security (5th character): .....	36
6.7	Electronic key related security (6th character): .....	36
6.8	System Management (7th character):.....	36
6.9	Attack resistance (8th character):.....	37
6.10	Example of classification.....	37
7	Marking .....	37
Annex A	(normative) Suitability for use on fire/smoke resistant doors .....	38
Annex B	(normative) Tool sets for attack resistance tests.....	39
Annex C	(normative) Table of test procedures .....	42
Annex D	(informative) Installation instructions .....	44
Bibliography	.....	45

## Foreword

This document (EN 15684:2012) 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.

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Forbodeel  
Preview



## Introduction

Mechanical cylinders have been used to provide security and control of locks. Increasing demand for higher security, flexibility of master key systems, flow control, copy control of keys, etc. have made it desirable to incorporate additional functions to such mechanical cylinders, and new technologies have made it possible to develop electronically controlled cylinders.

Mechanical performance of the mechatronic cylinder are based on EN 1303:2005.

Mechatronic Cylinder can technically be described in three main designs:

- a cylinder with both electrically and mechanically operated locking parts;
- a cylinder with electrically operated locking part and a key for mechanically rotating the plug;
- a cylinder with electrically operated locking part and with manual operated opening/closing function.

Increasingly such Mechatronic Cylinders (MCs) form a part of the security system of a building and may involve the use of electrical locking and controlling elements.

The performance tests incorporated in this European Standard are considered to be reproducible and as such will provide a consistent and objective assessment of the performance of these devices throughout CEN Member States.

It is assumed that mechatronic cylinders will conform to the legal regulations i.e. of the Electromagnetic Compatibility (**EMC**) - **Directive** 2004/108/EG, The Low Voltage (LV) - **Directive** 2006/95/EG, Radio & Telecommunications Terminal Equipment (**R&TTE**) - **Directive** 1999/5/EC and other relevant directives concerning electronic apparatus.

On occasions there may be a need for additional functions within the design of the cylinder. Purchasers should satisfy themselves that the products are suitable for their intended use. This is particularly important when the operation of such additional functions is safety-related. Accordingly, this European Standard includes assessment of such features when they are included in the cylinder design.

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