Certificate of Compliance

We declare that the following 5 pin sawn key cylinder has been successfully tested to: EN1303:2015.

With the following classification:

Category of use	Durability	Door Mass	Fire Resistance	Safety	Corrosion Resistance & Temperature		Attack Resistance
1	6	-	В		С	3	0

And the following optional requirements: Und den folgenden optionalen anforderungen:

Evidence of standards compliance:

LAIC	Evidence of Standards Compilance.				
X	Type testing by Manufacturer				
	Type testing by Manufacturer to EN 17025				
	Type testing by Independent recognized laboratory				
	Regular audit testing by Manufacturer				
	Regular audit testing by Manufacturer to EN 45001				
	Regular audit testing by independent recognized laboratory				
	Other (specify)				

Signature: SDZ (1.

Position:

Test Laboratory Manager

Date: 15.7.2021

Company Address: ASSA ABLOY Opening Solutions CZ s.r.o.

Strojnická 633 516 01 Rychnov nad Kněžnou Czech Republic

Strojnická 633,

516 01 Rychnov n. Kněžnou

TEST REPORT

Product

Door lock cylinder LCC - 5 (Gemini)

Quotation

1 20 pcs

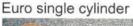
Sponsor

MR Volf

Request acc. EN 1303 - 1-6-0-B-0-C-3-0

Euro double cylinder







Euro knob cylinder



A) Key strength test (EN 1303 – point 6.2)

Requirement

Apply torque of 2,5 Nm

Key subsequently operation cylinder by <1,5 Nm.

Using equipment

Torque meter MOKL-14-0207-12

Findings

Samples No.1 – 2,5 Nm applied subsequently operates by 0,016 Nm

NOTTE: deformation of the key begins at applied the torque 5 Nm (Lock cylinder is after this test fully function).

Assessment - Pass

B) Test of mechanism durability (EN1303 - point 6.3 - class 4)

Requirement

Grade 6 - 100 000 cycles

New original Key operates after test by <1,5 Nm.

Using equipment

Torque meter MOKL-14-0207-12

Durability test benches KOMA 3992, KOMA 3993 and FESTO 3483

Execution of test:

One cycles is combination of inserting key, key turning -360° , key extracting, insert key, key turning -360° backwards, key extracting. Cylinder lubricated before the durability test by Isoflex Topas.

Findings:

- Euro double cylinder after 100 000 cycles is lock cylinder fully functional.
 Operation torque with new key left 0,026 Nm / right 0,018 Nm.
- 2) Euro single cylinder after 100 000 cycles is lock cylinder fully functional.

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Operation torque with new key left 0,016 Nm / right 0,018 Nm.

3) Euro knob cylinder – after 100 000 cycles is lock cylinder fully functional. Operation torque with new key left 0,068 Nm / right 0,072 Nm.

Assessment - Pass

C) Door Mass (EN1303 – point 6.4)

Not applicable to cylinders, no tests required

D) Fire Resistance (EN1303 – point 6.5 – grade B)

Manufacturer's declaration of melting point greater than 840 ° C

Assessment - Pass

E) Safety (EN1303 - point 6.6)

Not applicable to cylinders, no tests required

F) Corrosion and Extremes of Temperature (EN1303 – point 6.7 – grade C)

F1) – Corrosion (data from test report No. 20210129)

Requirement

Grade C - 96 hours exposure subsequently operates with max torque of 1,5 Nm

Using equipment

Torque meter MOKL-14-0207-12

Corrosion chamber Weiss (test laboratory ALPHA Týniště)

Findings

Sample no.1 – Door lock cylinder without plating 30 + 35

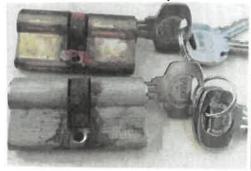
Side 30 mm - torque to left 0,136 Nm / right 0,098 Nm

Side 35 mm - torque to left 0,214 Nm / right 0,126 Nm

Sample no.2 - Door lock cylinder nickel-plating 30 + 35

Side 30 mm - torque to left 0,258 Nm / right 0,124 Nm

Side 35 mm - torque to left 0,096 Nm / right 0,164 Nm





Assessment - Pass

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F2) - Operation at extreme of temperatures

Requirement

Grade C - +65°C and - 25°C at each temperature the key will operate (within 5 attempts) and not exceed a torque of 1,5 Nm

Using equipment

Torque meter MOKL-14-0207-12

Climatic chamber Weiss KOM-1

Findings

Every samples could operation at 1st attempt by torque at table below

Type of door lock	+65°C		-25°C	
	Torque to left	Torque to right	Torque to left	Torque to right
30+30 without plating	0,020 Nm	0,016 Nm	0,016 Nm	0,024 Nm
30+30 nickel- plating	0,020 Nm	0,012 Nm	0,014 Nm	0,018 Nm
30+30 Knob without plating	0,034 Nm	0,042 Nm	0,034 Nm	0,028 Nm
35+40 Knob nickel-plating	0,036 Nm	0,056 Nm	0,042 Nm	0,046 Nm
35+40 without plating	0,026 Nm	0,026 Nm	0,014 Nm	0,018 Nm
35+40 Emergency clutch without plating*	0,096 Nm	0,048 Nm	0,044 Nm	0,042 Nm

^{*} Keys inserting into both side of cylinder lock

Assessment - Pass

G) Key Related Security (EN1303 – point 6.8 – grade 3)

- **1 min. number of effective differs (point 6.8.1)** 15 000 differs System provides 16 334 effective differs Pass
- **2 min. number of moveable detainers (point 6.8.2)** 5 moveable detainers System has 5 moveable detainers Pass
- 3 max. number of identical steps (point 6.8.3) 60% maximum identical steps with max 2 identical steps adjacent system has 60% maximum identical steps with maximum 2 identical steps adjacent Pass
- 4 direct coding of key no coding on key Pass
- **5 operating of security** mechanism before durability next closest key up and own shall not operate by max. torque of 1,5 Nm + 0,2 Nm Key code 37462 before durability test

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Key code	Torque left 1,5 Nm	Torque right 1,5 Nm
2 7462	OK - not operation	OK - not operation
37463	OK - not operation	OK - not operation

Pass

6 – Torque resistance of the plug / cylinder – cylinder shall not operate with torque of 15 Nm applied via suitable tool - 15 Nm applied cylinder remained secure - Pass

Assessment - Pass

H) Attack resistance – cylinder only (EN1303 – point 6.9 – grade 0)

Without request

CONCLUSION:

Door lock cylinder LCC - 5 (Gemini) meet cod according EN 1303 - 1-6-0-B-0-C-3-0

Date of processing: 13. 7. 2021

Test report processed by: Petr Sedlacek - head of test laboratory