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SAFEGUARDING YOUR SECURITY

Sant'Ambrogio 30/10/18

DICHIARAZIONE

La Mottura serrature dichiara che la **CLASSIFICAZIONE** riportata nel “RAPPORTO DI PROVA” ICIM 12072301SG_2 del 24/06/2013 paragrafo 4.0 relativa al prodotto (sample denomination) “MOTRONIC DUAL MODE”, è estendibile alle serrature della serie “**XMODE**” e “**XNOVA**” in quanto trattasi di variazione del nome commerciale di prodotto.

Mottura serrature di sicurezza SpA

ELECTROMECHANICALLY OPERATED LOCKS

Test report number:	12072301SG_2	
Issuing date and place:	24/06/2012	Sesto San Giovanni (MI) - Italy
Job number:	CI0004	
Company:	MOTTURA SERRATURE DI SICUREZZA S.p.A.	
Test object:	Tests on electromechanically operated locks	
Test place:	MOTTURA SERRATURE DI SICUREZZA S.p.A. Strada Antica di Francia, 34 Sant' Ambrogio di Torino (TO)	
Sample denomination:	The sample to be tested is called Electromechanically operated lock series " MOTRONIC DUAL MODE"	

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1.0	Normative reference.
2.0	Test apparatus.
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4.0	Classification
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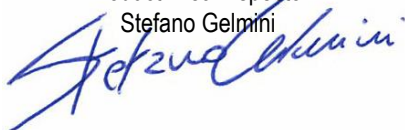
ICIM S.p.A. a socio unico

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info@icim.it - www.icim.it

Capitale Sociale
€ 260.000,00 int. versato ed esistente
C.F./P.IVA e Iscriz. Reg. Imprese
di Milano n. 12908230159
R.E.A. n. 1596292

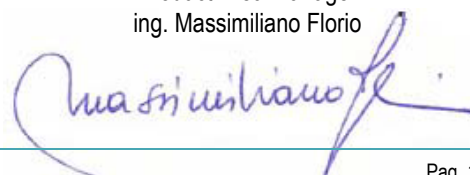
ICIM S.p.A.

Product Area Inspector
Stefano Gelmini



ICIM S.p.A.

Product Area Manager
ing. Massimiliano Florio



Date **24/06/2013** Job. number **CI0004** Company **MOTTURA SERRATURE S.p.A.** Nr. **12072301SG_2****1.0 Normative reference.**

- 1.1 EN 14846:08 “Building Hardware - Locks and latches - Electromechanically operated locks and striking plates Requirements and test methods”
- 1.2 Doc. ICIM 70R047 “ICIM rules for the authorization to use the ICIM conformity mark for Electromechanically operated locks”

2.0 Test apparatus

Dynamometer from 0 to 50 kN				Code: 09/30
Certificate number:	Issued from:	Emission date:	Expiry date:	Settlement
22912C	AEP Tranducers	02/07/12	02/07/2015	± 10 N

Dynamometer from 0 to 100 N				Code: 09/11
Certificate number:	Issued from:	Emission date:	Expiry date:	Settlement
0801361FRI	CERMET	12/02/12	12/02/2013	± 1%

Dynamometric key				Code: 10/01
Certificate number:	Issued from:	Emission date:	Expiry date:	Settlement
1011101FSI	CERMET	03/12/2010	03/12/2014	± 4%

Dynamometric key				Code: 10/03
Certificate number:	Issued from:	Emission date:	Expiry date:	Settlement
097/2012	GLM	27/02/2012	27/02/2016	± 6%

Dynamometric key				Code: 10/05
Certificate number:	Issued from:	Emission date:	Expiry date:	Settlement
1100675FSI	CERMET	01/02/2011	01/02/2015	± 6%

Test door	
Height of the door	2100 mm
Width of the door	1100 mm
Mass of the door:	200 kg

Date 24/06/2013

Job. number CI0004

Company MOTTURA SERRATURE S.p.A.

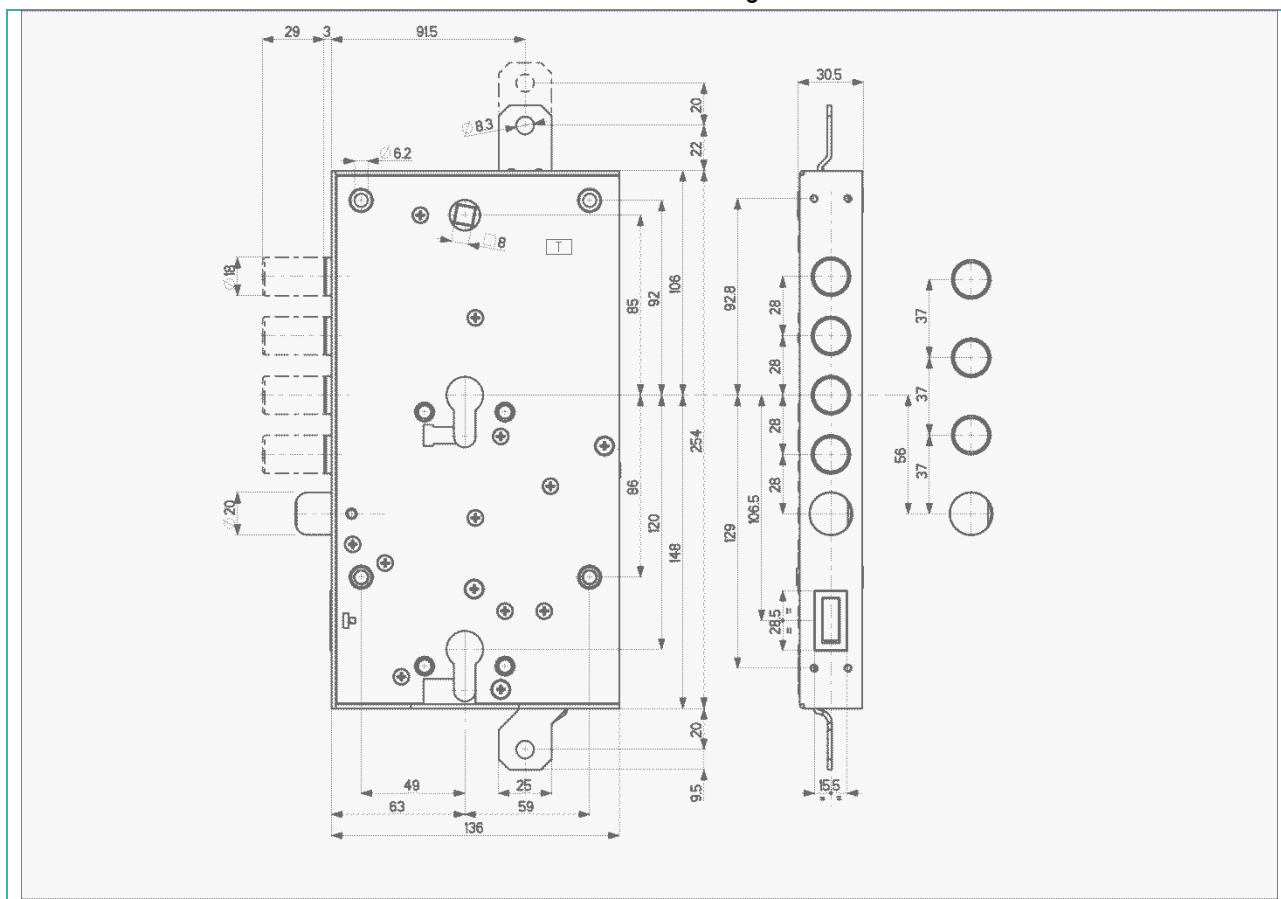
Nr. 12072301SG_2

3.0 Product description

Denomination: Rim lock electromechanically operated with european cylinder series "MOTRONIC DUAL MODE"

Code: 49604 Rim lock electromechanically operated with european cylinder series "MOTRONIC DUAL MODE"

Schematic drawing



Stefano Gelisio

Massimiliano Florio

Date 24/06/2013 Job. number CI0004 Company MOTTURA SERRATURE S.p.A. Nr. 12072301SG_2

3.1 Sample identification



Sample ID	Sampling date	Sampling form
SG 01 /12	11/07/2012	11072301SGsf
SG 02 /12	11/07/2012	11072301SGsf

Stefano Gelisio

Massimiliano Florio

Date 24/06/2013 Job. number CI0004 Company MOTTURA SERRATURE S.p.A. Nr. 12072301SG_2

4.0 Classification

3	S	8	NPD	0	M	7	1	3
1	2	3	4	5	6	7	8	9

1 Category of use (first digit)

grade 1: for use by people with a high incentive to exercise care and with a small chance of misuse, e.g. residential doors.
grade 2: for use by people with some incentive to exercise care but where there is some chance of misuse, e.g. office doors.
grade 3 : for use by the public where there is little incentive to exercise care and where there is a high chance of misuse, e.g. doors in public buildings.

2 Durability (second digit)

grade A: 50 000 test cycles;	no load on latch bolt; or for locks without latch bolt;
grade B: 100 000 test cycles;	no load on latch bolt; or for locks without latch bolt;
grade C: 200 000 test cycles;	no load on latch bolt; or for locks without latch bolt;
grade D: 500.000 test cycles;	no load on latch bolt; or for locks without latch bolt;
grade L: 100 000 test cycles;	25 N load on latch bolt;
grade M: 200 000 test cycles;	25 N load on latch bolt;
grade N: 500.000 test cycles;	25 N load on latch bolt;
grade R: 100 000 test cycles;	50 N load on latch bolt;
grade S: 200 000 test cycles;	50 N load on latch bolt;
grade W: 100 000 test cycles;	120 N load on latch bolt;
grade X: 200 000 test cycles;	120 N load on latch bolt.
grade Z: 500.000 test cycles;	120 N load on latch bolt;

3 Door mass and closing force (third digit)

grade 1: up to 100 kg door mass;	50 N maximum closing force;
grade 2: up to 200 kg door mass;	50 N maximum closing force;
grade 3: above 200 kg door mass as specified by the manufacturer;	50 N maximum closing force;
grade 4: up to 100 kg door mass;	25 N maximum closing force;
grade 5: up to 200 kg door mass;	25 N maximum closing force;
grade 6: above 200 kg door mass as specified by the manufacturer;	25 N maximum closing force;
grade 7: up to 100 kg door mass;	15 N maximum closing force;
grade 8: up to 200 kg door mass;	15 N maximum closing force;
grade 9: above 200 kg door mass as specified by the manufacturer;	15 N maximum closing force.

4 Suitability for use on fire/smoke doors (fourth digit)

Grade 0: not approved for use on fire/smoke door assemblies;	
Grade A: suitable for use on smoke door assemblies;	
Grade B: suitable for use on smoke and fire door assemblies.	With a classification time of 15 min.
Grade C: suitable for use on smoke and fire door assemblies.	With a classification time of 30 min.
Grade D: suitable for use on smoke and fire door assemblies.	With a classification time of 60 min.
Grade E: suitable for use on smoke and fire door assemblies.	With a classification time of 90 min.
Grade F: suitable for use on smoke and fire door assemblies.	With a classification time of 120 min. or greater

5 Safety (fifth digit)

No safety requirements

Date	24/06/2013	Job. number	CI0004	Company	MOTTURA SERRATURE S.p.A.	Nr.	12072301SG_2
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6 Corrosion resistance and temperature (sixth digit)

grade 0: No defined corrosion resistance;	No temperature requirement;	No humidity resistance.
grade A: No defined corrosion resistance;	No temperature requirement;	Level 1.
grade B: No defined corrosion resistance;	No temperature requirement;	Level 2.
grade C: Low corrosion resistance;	From +5°C to +55°C temperature requirement;	Level 1.
grade D: Moderate corrosion resistance;	From +5°C to +55°C temperature requirement;	Level 1.
grade E: High corrosion resistance;	From +5°C to +55°C temperature requirement;	Level 1.
grade F: Very high corrosion resistance;	From +5°C to +55°C temperature requirement;	Level 1.
grade G: Moderate corrosion resistance;	From -10°C to +55°C temperature requirement;	Level 1.
grade H: High corrosion resistance;	From -10°C to +55°C temperature requirement;	Level 1.
grade J: Very high corrosion resistance;	From -10°C to +55°C temperature requirement;	Level 2.
grade K: Moderate corrosion resistance;	From -25°C to +70°C temperature requirement;	Level 2.
grade L: High corrosion resistance;	From -25°C to +70°C temperature requirement;	Level 2.
grade M: Very high corrosion resistance;	From -25°C to +70°C temperature requirement;	Level 2.
grade N: No defined corrosion resistance;	From -25°C to +70°C temperature requirement;	Level 1.
grade P: No defined corrosion resistance;	From -25°C to +70°C temperature requirement;	Level 2.

7 Security (seventh digit)

grade 0: No security requirements	
grade 3: Medium security	no drill resistance;
grade 4: High security	no drill resistance;
grade 5: High security	with drill resistance;
grade 6: Very high security	no drill resistance;
grade 7: Very high security	with drill resistance.

8 Security for electrical function (eighth digit)

grade 0: No requirement,
grade 1: Status indication.

9 Security for electrical manipulation (ninth digit)

grade 0: No requirement,
grade 1: Resistance to electrostatic discharge.
grade 2: Voltage drop protection protection against cutting cables resistance to electromagnetic manipulation Resistance to electrostatic discharge Resistance to electrostatic manipulation.
grade 3: Voltage drop protection protection against cutting cables resistance to electromagnetic manipulation Resistance to electrostatic discharge Resistance to electrostatic manipulation protection against effects of cutting cables.

Date: 24/06/2013 Job. number: CI0004 Company: MOTTURA SERRATURE S.p.A. Nr.: 12072301SG_2

5.0 Test

5.1.1 Compatibility between cooperating parts

Requirement: EN 14846:08– 5.1.1

The manufacturer shall state which cooperating parts have been designed to be used in combination.

Date: 23/07/12

Verified: Positive NegativeNot verified: Not applicable:

5.1.2 Dangerous substances

Requirement: EN 14846:08– 5.1.2

Materials in products shall not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations in the country of intended use.

Date: 23/07/12

Verified: Positive NegativeNot verified: Not applicable:

5.1.3 Operation time for locking and unlocking

Sample reference: SG01/12

Requirement:

Operation time in both directions between the end positions shall not exceed 3 sec.

Requirement check:

Opening time 1° <1 sec 2° <1 sec 3° <1 sec Closing time 1° <1 sec 2° <1 sec 3° <1 sec

Date: 23/07/12

Verified: Positive NegativeNot verified: Not applicable: 

Date **24/06/2013** Job. number **CI0004** Company **MOTTURA SERRATURE S.p.A.** Nr. **12072301SG_2**

5.2 Category of use

Grade obtained 3

5.2.1 Torque to operate latch and the deadbolt

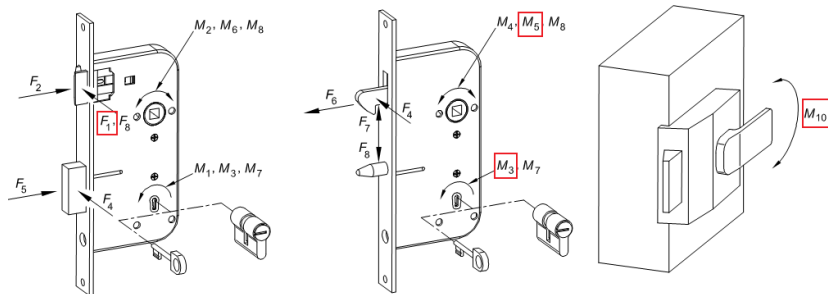
Reference sample: **SG01/12**

Requirement: EN 14846:08– 5.2.1, 5.2.2, 5.2.3, 5.2.4

The manufacturer shall declare the category of use according to the table

Requirement	Test parameter	Grade 1	Grade 2	Grade 3
Resistance to side load on latch	F1	2 kN / 60 sec.	3 kN / 60 sec.	3 kN / 60 sec.
Torque to operate deadbolt	M3	1,5 Nm	1 Nm	0,8 Nm
Strength of normal latch and stops	M5	40 Nm	40 Nm	60 Nm
Torque resistance of lockable follower	M10	60 Nm	60 Nm	80 Nm

Requirement check:



F1 registered	3 kN
Time application F1	60 sec
M3 registered clockwise	0,8 Nm
M3 registered anticlockwise	0,8 Nm
M5 registered clockwise	NA
M5 registered anticlockwise	NA
M10 registered clockwise	NA
M10 registered anticlockwise	NA
M2 registered	1,5 Nm

Notes:

After the test the lock works correctly

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

Stefano Gelisio

Massimiliano Florio

Date: **24/06/2013** Job. number: **CI0004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**

5.3 Durability

Grade obtained **S**

5.3.2 Durability of latch action, manual locking, Sample reference: **SG01/12**

Requirement: EN 14846:08– 5.3

Grade	Latch action	Manual locking	Automatic locking	Electric locking
A, F	50.000	10.00	50.000	50.000
B, G, L, R, W	100.000	25.000	100.000	100.000
C, H, M, S, X, Y	200.000	50.000	200.000	200.000

Latch action - Requirement check: EN 14846:08– 6.3.2

Door dimensions	2100 x 1100	Door mass	200 kg
Start test	11/07/12	End test	23/07/12
Nr done cycles	200.000	Operation speed	10 cycles/ min
F3 applied	50 N	F11 applied	7 N
M2 start test	0,5 Nm	M2 end test	0,5 Nm

Manual locking - Requirement check: EN 14846:08– 6.3.2

Start test	01/08/12	End test	18/08/12
Nr done cycles	50.000	Operation speed	10 cycles/ min
M3 start test	0,5 Nm	M4 end test	0,5 Nm

Electric locking - Requirement check: EN 14846:08– 6.3.2

Start test	18/07/12	End test	01/10/12
Nr done cycles	200.000	Operation speed	9 cycles/ min

Notes:

The lock is working after the test

Date: **05/11/12** Verified: **Positive** **Negative** Not verified: Not applicable:

Stefano Gelisio

Massimiliano Florio

Date: **24/06/2013** Job. number: **CI0004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**

5.4 Door mass

Grade obtained 8

5.4.1 Door mass and closing force Reference sample: SG01/12

Requirement: EN 14846:08– 5.4.1 – 5.4.2.

F9 max force closing door			Door mass		
Force	Grade		Mass	Grade	
50 N	1,2,3		100 kg	1,4,7	
25 N	4,5,6		200 kg	2,5,8	■
15 N	7,8,9	■	> 200 kg	3,6,9	

When tested in accordance with 6.4.2, a closing force of F9, shall enable the latch bolt(s) to correctly engage the locking plate every time.

Requirement check: EN 14846:08– 6.4.2

Door dimensions: **1,1 x 2,1 h m** Door mass: **200 kg** Closing force F9 registered: **12 N**

Notes:

After the test the lock works correctly

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

5.5 Suitability for use on fire/smoke doors

Grade obtained NPD

5.5.1 Suitability for use on fire/smoke doors

Requirement: EN 14846:08 - annex "A"

Products representative of their type, shall have been subjected to a successful fire test from both sides, in accordance with EN 1634-1 to prove the effect of the product on the fire resistance of the complete door assembly. It is not necessary for the product to be operable after such a fire test

Requirement check:

No Performance Declared from the company for suitability for use on fire/smoke doors requirements requirement

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

5.6 Safety

Grade obtained 0

5.5.1 Safety

Requirement:

Not applicable

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

Stefano Gelisio

Massimiliano Florio



Date: **24/06/2013** Job. number: **C10004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**

5.7 Corrosion resistance, temperature and humidity requirements

Grade obtained **M**

5.7.1 Corrosion resistance

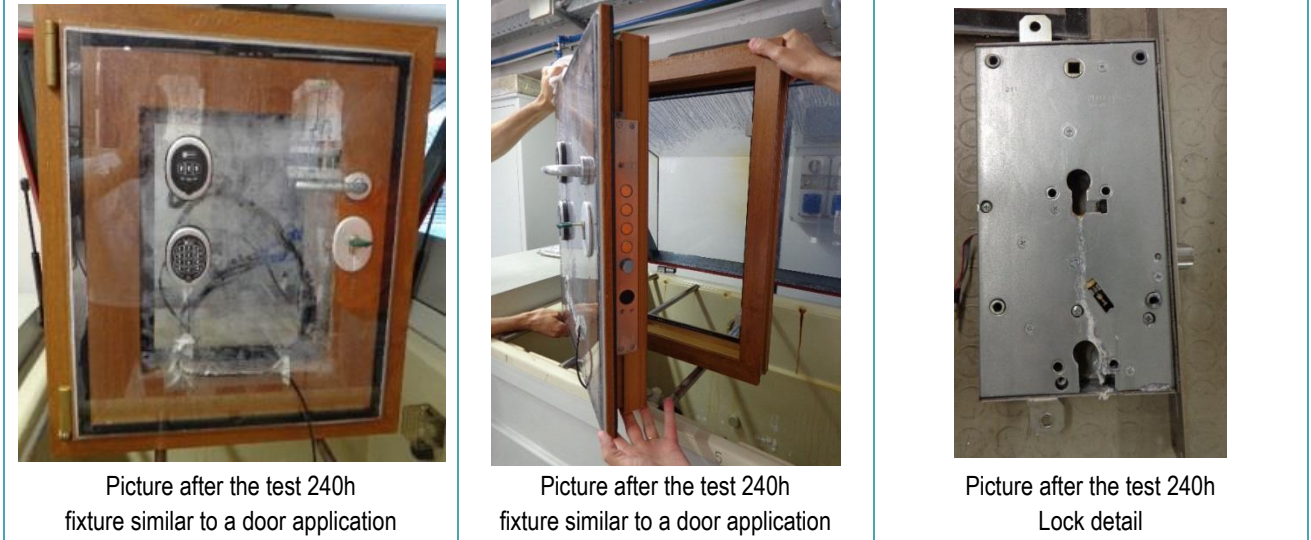
Reference sample: -

Requirement:	EN 14846:08– 5.7.1
The grade of corrosion resistance achieved shall be included in the classification coding as specified in EN 1670. The corrosion resistance shall be tested in accordance with 6.7.1.	
Requirement check:	EN 14846:08– 6.7.1
Where applicable corrosion resistance testing shall be carried out in accordance with EN 1670:2007, 6.2 (neutral salt spray test). The lock or latch shall be mounted in a fixture similar to a door application and subjected to a neutral salt spray test in accordance with EN 1670:2007, 6.2, to determine its ability to operate after environmental exposure. The duration of the test shall be dependent on the grading number as follows:	
– grade 1: 24 h ± 1 h (low resistance);	
– grade 2: 48 h ± 1 h (moderate resistance);	
– grade 3: 96 h ± 1 h (high resistance);	
– grade 4: 240 h ± 1 h (very high resistance).	
The lock shall not be operated during the test.	
On completion of the neutral salt spray test, the lock or latch shall be operated 20 times. The opening force/energy shall be measured and recorded during the last three cycles.	
The energy required to operate the deadbolt or latch bolt for the last three shall not exceed the operation energy for normal operations by more than 20 %.	
Immediately following the neutral salt spray test, the cleaned lock or latch shall be subjected to testing in accordance with EN 12209:2003, 6.2.2 and 6.11.1.	
M3 after test	1,0 Nm (open and close) (max. 1,5 Nm)
M4 after test	(not applicable)
M2 after test	1,8 Nm (max. 5 Nm)

Notes:
The lock is working, with electrical function and manual function after 240 h in neutral salt spray chamber (see picture)

- Start test 14/06/2013 09.00 a.m.
- End test 24/06/2013 14.00 p.m.

Total hours staying in chamber 245 h



Date: **24/06/13** Verified: Positive Negative Not verified: Not applicable:



Date: **24/06/2013** Job. number: **CI0004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**

5.7.2 Operation at extremes of temperature

Reference sample: -

Requirement: EN 14846:08– 5.7.2

Requirement 5.2.2		
M1	M2	Gr.
1,2 Nm	10 Nm	1
1,0 Nm	7 Nm	2
0,8 Nm	5 Nm	3

When tested in accordance with 6.7.2, the torque to operate the locking point(s) and/or anti-separation function and/or clenching function and/or latch bolt shall not exceed requirements in clause 5.2.2, as appropriate, by more than 20 %.

Requirement check: EN 14846:08– 6.7.2

Temperature	Humidity	Gr
+ 5°C	+ 55°C	Lev.1 C
+ 5°C	+ 55°C	Lev.1 D
+ 5°C	+ 55°C	Lev.1 E
+ 5°C	+ 55°C	Lev.1 F
- 10°C	+ 55°C	Lev.1 G
- 10°C	+ 55°C	Lev.1 H
- 10°C	+ 55°C	Lev.1 J
- 25°C	+ 70°C	Lev.2 K
- 25°C	+ 70°C	Lev.2 L
- 25°C	+ 70°C	Lev.2 M
- 25°C	+ 70°C	Lev.1 N
- 25°C	+ 70°C	Lev.2 P

The lock shall be stabilized before the test by subjecting it to constant temperature of 20 °C ± 5 °C and a relative humidity of 60 % ± 5 % for a period of at least 1 h. The key shall be kept separately at normal room temperature during the tests. The temperature shall be changed at the rate of 10 °C ± 10 % per hour until the required temperature is reached. The test temperature shall be maintained for minimum 2 hours and at the end of this time each lock shall be operated as described below:

- by its correct key to fully withdraw and where applicable to throw the bolts, anti-separation and/or clenching points;
- through its follower to operate the latch bolt, ensuring that it is fully withdrawn and still extends to its fully thrown position;
- where applicable, any anti-thrust slide shall be manually operated to ensure its freedom of operation.

Operating torques are to be recorded, in the interval of the last 20 minutes of the stabilizing time.

Notes:

The test was performed by TÜV sud laboratory
TÜV Italia S.r.l. – Via Montalenghe, 8 – I 10010 SCARMAGNO (TO)
Test report number 067_13_STAMB
Issued on date 12/04/13
Positive - Grade M

Date: **24/06/13** Verified: **Positive** **Negative** Not verified: Not applicable:

Stefano Gelisio

Massimiliano Florio

Date **24/06/2013** Job. number **CI0004** Company **MOTTURA SERRATURE S.p.A.** Nr. **12072301SG_2**

5.8 Security

Grade obtained 7

General requirement:
EN 12209:2003, 5.8 shall apply. The security shall be tested according to 6.8

5.8.1 Resistance to side load on locking points Reference sample: SG01/12

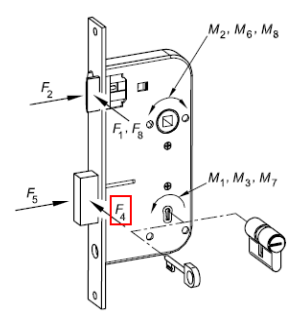
Requirement: EN 12209:03 – 5.8.2

When tested in accordance with 6.8.3, each locking point shall resist a side load of F4

Requirement check: EN 12209:03 – 6.8.2

Drilling machine characteristic:
Power from 500 W to 700 W
Speed from 500 rpm to 800 rpm.
Drill bit made in steel ISO 10899
Drill bit diameter Ø 5mm.
Penetration force 300 ±25 N
Lubrication not permitted
Maximum nr. Of drill bit 3

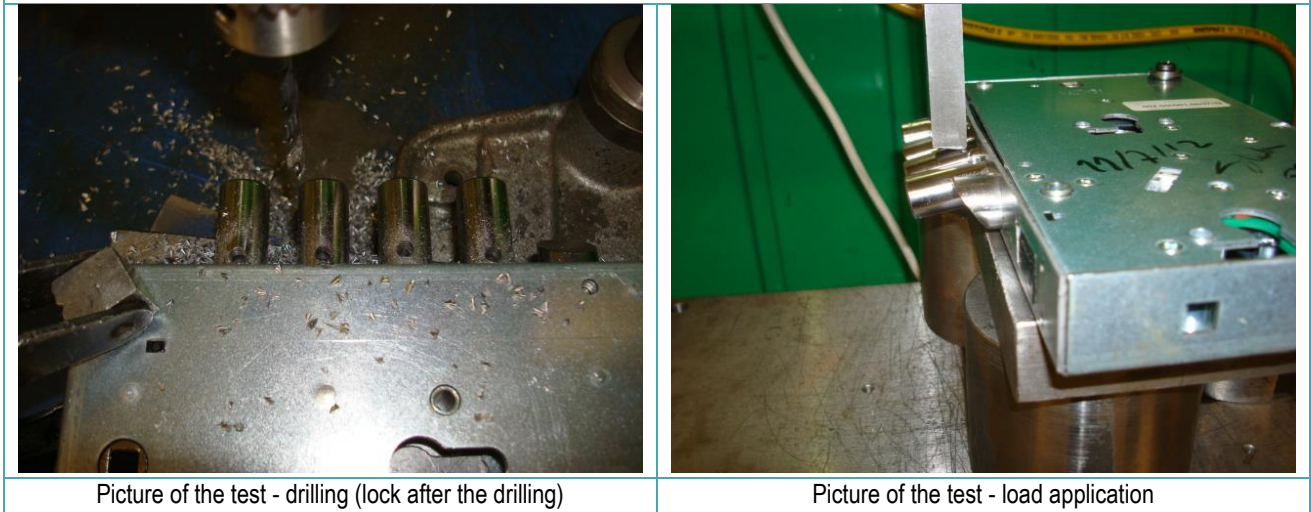
Grade	F4	t _{net}	t _{total}	distance
1	1 kN	-	-	3 mm
2	3 kN	-	-	3 mm
3	5 kN	-	-	3 mm
4	7 kN	-	-	3 mm
5	7 kN	3 min	5 min	3 mm
6	10 kN	-	-	3 mm
7	10 kN	5 min	10 min	3 mm



Load application after drilling
Application point 3 mm from supported forend
Time of load application 60 sec

Power	701 W	Speed	650 rpm	Drill bit type	HSS	Drill diameter	Ø 5mm
Penetration force	300 N	Lubrication	none	Nr. Drill bit used	1	Net time	5 min
Total time	10 min	F4 applied	10 kN	Forend distance	3 mm	T _{application F4}	60 sec

Notes:
The locking point did not break after the test and meet the “criteria C” requirement
The lock is not working after the test



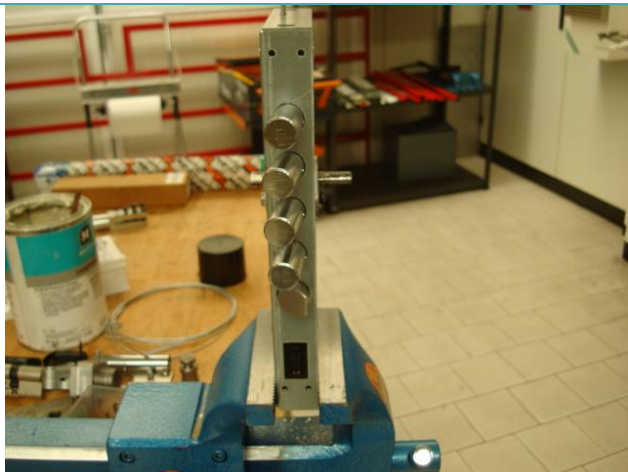
Picture of the test - drilling (lock after the drilling)

Picture of the test - load application

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Massimiliano Florio

Date: **24/06/2013** Job. number: **CI0004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**



Picture of the lock after the test - load application



Picture of the lock after the test - load application

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

5.8.2 Deadbolt projection

Reference sample: **SG05/11**

Requirement: **EN 12209:03 – 5.8.3**

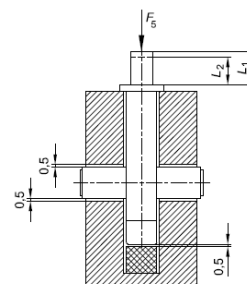
When measured in accordance with 6.8.4, the bolt at each locking point when fully thrown in the locking direction and detained, shall have a minimum projection, measured from the forend of L1

Requirement check: **EN 12209:03 – 6.8.3**

Measure length L1 perpendicular to the forend, on the unloaded bolt

L1 measured **32,0 mm**

Gr	L 1
1	10 mm
2	12 mm
3	14 mm
4	20 mm
5	20 mm
6	20 mm
7	20 mm



Notes:

Positive

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

Date: **24/06/2013** Job. number: **CI0004** Company: **MOTTURA SERRATURE S.p.A.** Nr.: **12072301SG_2**

5.8.3 Requirements for end load on deadbolt

Reference sample: **SG01/12**

Requirement: EN 12209:03 – 5.8.4

When tested in accordance with 6.8.4.2 the product shall be subjected to drilling for a time "t", and afterwards resist an end load of F5. At no time during or after the test shall the bolt projection be less than L2 (see Figure B.4 and Table 5).

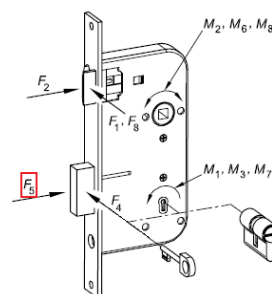
Performance criteria C shall apply. Where the deadbolt is protected by a box locking plate, the end load requirement for grades 5 and 7 shall be 2 kN

Requirement check: EN 12209:03 – 6.8.4

Drilling machine characteristic:

Power from 500 W to 700 W
Speed from 500 rpm to 800 rpm.
Drill bit made in steel ISO 10899
Drill bit diameter Ø 5mm.
Penetration force 300 ±25 N
Lubrication not permitted
Maximum nr. Of drill bit 3

Grade	F5	t net	t total	L2
1	-	-	-	-
2	-	-	-	-
3	4 kN	-	-	13 mm
4	5 kN	-	-	19 mm
5	5 kN	3 min	5 min	19 mm
6	6 kN	-	-	19 mm
7	6 kN	5 min	10 min	19 mm



Load application after drilling

Application point 3 mm from supported forend
Time of load application 60 sec

Power	701 W	Speed	650 rpm	Drill bit type	HSS	Drill diameter	Ø 5mm
Penetration force	300 N	Lubrication	none	Nr. Drill bit used	1	Net time	5 min
Total time	10 min	F5 applied	6 kN	T application F5	60 s	L2 measured	30,0 mm

Notes:

The locking point did not break after the test and the final projection is more than the minimum requirement

The lock is still working after the test (mechanically and electrically operated)



Picture of the test drilling



Picture of the test load application

Date: **23/07/12** Verified: **Positive** **Negative** Not verified: Not applicable:

Date: 24/06/2013 Job. number: CI0004 Company: MOTTURA SERRATURE S.p.A. Nr.: 12072301SG_2

5.9 Security – Electrical function tests – Status indication

Grade obtained 1

Requirement: EN 14846:08– 5.9.1, 5.9.2

There shall be an audio or visual signal from the lock that can be used as an indication that the bolt is fully thrown and deadlocked or, in the case of electric strikes, that movement of the electric strike is blocked. The security of the electrical function shall be tested according to 6.9.

Requirement check: EN 14846:08– 6.9.1, 6.9.2

Before and after the test cycles, the correct function shall be confirmed during durability tests 6.3.2 or 6.3.3.

Notes:

The status is indicated by a video signal



Lock closed – red indication



Lock open – green indication

Date: 23/07/12 Verified: Positive Negative Not verified: Not applicable:

Stefano Gelisio

Massimiliano Florio

Date: 24/06/2013 Job. number: CI0004 Company: MOTTURA SERRATURE S.p.A. Nr.: 12072301SG_2

5.10 Security – Electrical manipulation**Grade obtained 3**

5.10.1 General

Reference sample: -

Requirement: EN 14846:08– 5.10.1

During the tests the product shall be in locked and deadlocked state and that state shall be maintained during and after the test. The status indications of product shall be in accordance with the performance criteria of the test, if applicable.

Requirements in relation to grading shall be as specified in Table

TABLE 7					
Requirement	Test parameter	Gr. 0	Gr. 1	Gr. 2	Gr. 3
Voltage drop protection	6.10.1	-	-	Yes	Yes
Protection against the effect of cutting cables	6.10.2	-	-	Yes	Yes
Protection against the effects of wire manipulation	6.10.3	-	-	-	Yes
Resistance to electromagnetic manipulation	6.10.4	-	-	Yes	Yes
Resistance to electrostatic discharge EN 61000-4-2	6.10.5	-	Level 2	Level 4	Level 4
Resistance to electrostatic manipulation EN 61000-4-2	6.10.6	-	-	Level 4	Level 4

Notes:

The test was performed by RTM laboratory
RTM S.r.l. – Via Circonvallazione 10 – I 10011 AGLIÈ (TO)
Test report number 067/12
Issued on date 21/12/12
Positive - Grade 3

Date: 24/06/13 Verified: Positive Negative Not verified: Not applicable:


Stefano Gelisio



Massimiliano Florio

Date 24/06/2013 Job. number CI0004 Company MOTTURA SERRATURE S.p.A. Nr. 12072301SG_2**6.0 Final evaluations**

6.1 Test apparatus		ICIM evaluation	
Instruments		According to EN 14846:08 requirements	
Test door		According to EN 14846:08 requirements	
6.2 Tests		Test result	Grade reached
Category of use		Positive	3
Durability		Positive	S
Door mass		Positive	8
Suitability for use on fire/smoke doors		N.P.D. (No Performance Declared)	NPD
Safety		Not applicable	0
Corrosion resistance, temperature, humidity		N.P.D. (No Performance Declared)	M
Security		Positive	7
Security – electrical function		Positive	1
Security – electrical manipulation		N.P.D. (No Performance Declared)	3



Stefano Gelisio



Massimiliano Florio