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Intertek Report No. 130708006GZU-001

EVALUATION

OF

Mortise Lock, ASM-10000-01, Grade 1

FOR

Angel Metal Co., Ltd

#1099 Woram-Dong, Dalseo-Gu, Daegu, South Korea

TEST STANDARD:

Per applicant's specifications, using the following standard as a guideline: ANSI/BHMA A156.13 - 2012 Mortise Locks and Latches

SAMPLES:

Samples were identified by the applicant as Mortise Lock, Model ASM-10000-01, Grade 1. Samples were received in good condition on July 6, 2013, which manufactured by Angel Metal Co., Ltd.

TEST DATES: July 6, 2013 to October 22, 2013

RESULTS: Compliant

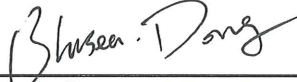
Subsection	Test Description	Test Results
8	Operational Tests	Compliant
9	Cycle Tests	Compliant
10	Strength Tests	Compliant
11	Material Evaluation Tests	Compliant
12	Security Tests	Compliant

The attached summary and data are results of the product testing and evaluation.

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Test Results

Model	Series	Function	Grade	Trim	Finish	Base Material
ASM-10000-01	1000	F13	1	Knob/Turn/Key	SS	Stainless Steel

8 Operational Tests

8.1 Dead Bolt Torque

8.1.1 Torque to Retract Dead Bolt or Torque to Retract Dead Bolt and Latch Bolt by Turn (lbf-in)

Compliant

CCW	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	1.9	2.3	2.1	2.5	1.9	2.3	9.0	11.0

8.1.2 Torque to Retract Dead Bolt or Torque to Retract Dead Bolt and Latch Bolt by Key (lbf-in)

Compliant

Key Direction CW CCW	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CCW	2.1	2.7	2.7	3.2	2.3	2.7	9.0	11.0

8.2 Force or Torque to Retract Latch Bolt or Latch Bolt and Dead Bolt

8.2.1 Knob or Lever (lbf-in)

Compliant

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	Outside CW	7.6	7.8	7.4	7.8	7.3	7.6	9.0
Outside CCW	7.8	8.0	7.6	8.0	7.4	7.8	9.0	11.0
Inside CW	6.2	7.2	7.6	7.8	7.6	7.8	9.0	11.0
Inside CCW	6.9	7.3	7.4	7.6	7.3	7.4	9.0	11.0

8.2.2 Entry Handleset Thumb Piece Force (lbf)

Not Applicable

Outside Inside	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

8.2.3 Paddle Force (lbf)

Not Applicable

Outside Inside	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

8.3 Force to Latch Door - Force (lbf (N))

Compliant

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
		2.5	2.8	2.7	2.8	2.7	2.9	4.5

8.4 Torque to Retract Latch Bolt by Key (lbf-in)

Compliant

Key Direction CW CCW	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CCW	3.0	3.9	2.7	4.2	3.2	3.9	9.0	11.0

8.5 Minimum Projection of Latch Bolt when Depressed to Dead Latched Position (in)

Compliant

	Specimen # 001		Specimen # 002		Specimen # 003		Minimum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
		0.589	0.511	0.583	0.531	0.581	0.529	0.563

*Latchbolt deadlatches when deadbolt is extended.

8.6 Minimum Projection of Auxiliary Dead Latch to Dead Lock Latch Bolt (in) Not Applicable

Specimen # 001		Specimen # 002		Specimen # 003		Minimum Allowable	
Initial	50%	Initial	50%	Initial	50%	Initial	50%
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

8.7 Warped Door Test 50 lbf (222 N) Applied to Door, Measure Torque to retract.

8.7.1 Turn or Key Compliant

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Torque (lbf-in)		Torque (lbf-in)		Torque (lbf-in)		Torque (lbf-in)	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Key CW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Key CCW	26.6	31.0	27.4	31.9	28.3	31.0	33.0	40.0
Turn CW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turn CCW	2.1	2.7	2.3	2.8	2.1	3.2	33.0	40.0

8.7.2 Lever, Knob or Thumb piece Compliant

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Torque (lbf-in)		Torque (lbf-in)		Torque (lbf-in)		Torque (lbf-in)	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Outside CW	31.0	33.6	31.9	33.6	30.1	34.5	45.0	54.0
Outside CCW	31.9	32.7	30.1	32.7	31.0	33.6	45.0	54.0
Inside CW	30.1	33.6	31.0	31.9	31.9	32.7	45.0	54.0
Inside CCW	31.0	34.5	31.9	33.6	30.1	31.9	45.0	54.0

8.7.3 Entry Handleset Thumb Piece Force (lbf) Not Applicable

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Outside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

8.7.4 Paddle Force (lbf) Not Applicable

	Specimen # 001		Specimen # 002		Specimen # 003		Maximum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Outside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9 Cycle Tests Compliant

Rotation	Counter Reading	Date	Technicians Initials
CW	0	2013-7-13	Credy Chen
CW	76,005	2013-7-15	Credy Chen
CW	146,976	2013-7-17	Credy Chen
CW	250,000	2013-7-20	Credy Chen
CCW	366,013	2013-7-24	Credy Chen
CCW	431,562	2013-7-26	Credy Chen
CCW	500,000	2013-7-28	Credy Chen
CW	567,595	2013-7-30	Credy Chen
CW	634,497	2013-8-1	Credy Chen
CW	750,000	2013-8-5	Credy Chen
CCW	828,646	2013-8-7	Credy Chen
CCW	897,321	2013-8-9	Credy Chen
CCW	965,234	2013-8-11	Credy Chen
CCW	1,000,000	2013-8-12	Credy Chen

9.6 Do the locks function as originally intended? Yes

Comments: _____

10 Strength Tests

10.1 Locked Outside Lever or knob Torque Test (Repeat in the opposite direction for knob only) Compliant

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
Outside CW	300	300	300	300
Outside CCW	300	300	300	300

10.2 Axial Load Test

10.2.1 Lever or Knob at the Spindle Axis Compliant

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	500	500	500	500
Inside	500	500	500	500

10.2.2 Outside Lever Load 2 inches from Spindle Not applicable

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A

10.2.3 Entry Handlesets Locked Outside Thumbpiece Load Not Applicable

	Specimen #004	Specimen #005	Specimen #006	Test Load
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A

10.2.4 Locked Outside Paddle Load Not Applicable

	Specimen #004	Specimen #005	Specimen #006	Test Load
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside at Axle	N/A	N/A	N/A	N/A
Outside at 2" from Axle	N/A	N/A	N/A	N/A
Inside at Axle	N/A	N/A	N/A	N/A
Inside at 2" from Axle	N/A	N/A	N/A	N/A

10.3 Vertical Load Test

10.3.1 Vertical Load Test Lever or Knob Compliant

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	360	360	360	360
Inside	360	360	360	360

Vertical Load Test Paddles - Test one mounted horizontally and one mounted vertically.

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Horizontal Outside	N/A	N/A	N/A	N/A
Horizontal Inside	N/A	N/A	N/A	N/A
Vertical Outside	N/A	N/A	N/A	N/A
Vertical Inside	N/A	N/A	N/A	N/A

10.3.2 Vertical Load Test Entry Handlesets Not Applicable

	Specimen #004	Specimen #005	Specimen #006	Test Load
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A

10.4 Bolt strength Test

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Latch Bolt	1200	1200	1200	1200
Dead Bolt	1350	1350	1350	1350

10.5 Unlocked Outside Lever or Knob Torque Test Compliant

	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
Outside CW	300	300	300	300
Outside CCW	300	300	300	300
Inside CW	300	300	300	300
Inside CCW	300	300	300	300

10.6 Unlocked Entry Handleset Load Test Not applicable

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A

10.7 Qualification Requirements

8.1 Dead Bolt Torque

8.1.1 Torque to Retract Dead Bolt or Torque to Retract Dead Bolt and Latch Bolt by Turn (lbf-in)

Compliant

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
	2.1	1.9	2.0	11.0

8.1.2 Torque to Retract Dead Bolt or Torque to Retract Dead Bolt and Latch Bolt by Key (lbf-in)

Compliant

Key Direction	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
CW	N/A	N/A	N/A	N/A
CCW	4.4	4.6	4.6	11.0

8.2 Force or Torque to Retract Latch Bolt or Latch Bolt and Dead Bolt

8.2.1 Knob or Lever (lbf-in)

Compliant

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
Outside CW	7.8	7.6	7.7	11.0
Outside CCW	8.0	7.8	7.8	11.0
Inside CW	8.1	8.1	7.9	11.0
Inside CCW	7.8	8.0	7.8	11.0

8.2.2 Entry Handleset Thumb Piece Force (lbf)

Not Applicable

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A

8.2.3 Paddle Force (lbf)

Not Applicable

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A

8.3 Force to Latch Door - Force (lbf (N))

Compliant

	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
	2.8	2.7	2.7	5.4

8.4 Torque to Retract Latch Bolt by Key (lbf-in)				Compliant
Key	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
Direction	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
CW	N/A	N/A	N/A	N/A
CCW	4.6	4.8	4.6	11.0

8.5 Minimum Projection of Latch Bolt when Depressed to Dead Latched Position (in)				Compliant
	Specimen #004	Specimen #005	Specimen #006	Minimum Allowable
	Projection (in.)	Projection (in.)	Projection (in.)	Projection (in.)
	0.521	0.526	0.511	0.453

*Latchbolt deadlatches when deadbolt is extended.

8.7 Warped Door Test 50 lbf (222 N) Applied to Door, Measure Torque to retract.

8.7.1 Turn or Key				Compliant
	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
Key CW	N/A	N/A	N/A	N/A
Key CCW	28.3	29.2	28.3	33.0
Turn CW	N/A	N/A	N/A	N/A
Turn CCW	2.1	2.3	2.1	33.0

8.7.2 Lever, Knob or Thumb piece				Compliant
	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)	Torque (lbf-in)
Outside CW	31.9	33.6	33.6	45.0
Outside CCW	32.7	31.9	34.5	45.0
Inside CW	31.9	32.7	31.9	45.0
Inside CCW	33.6	33.6	32.7	45.0

8.7.3 Entry Handleset Thumb Piece Force (lbf)				Not Applicable
	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A

8.7.4 Paddle Force (lbf)				Not Applicable
	Specimen #004	Specimen #005	Specimen #006	Maximum Allowable
	Force (lbf)	Force (lbf)	Force (lbf)	Force (lbf)
Outside	N/A	N/A	N/A	N/A
Inside	N/A	N/A	N/A	N/A

11 Material Evaluation Tests

11.1 Knob Crush Test Sample #007 Compliant
 Grade 1 Base Material Stainless Steel
 Compression Load 1000 lbf

Deformation		Recorded Deformation (%)	Maximum Allowable (%)
Outside Knob		0.09	10
Inside Knob		0.04	10
		Measured Torque (lbf-in)	Maximum Allowable (lbf-in)
Key Torque	CW	N/A	N/A
at Test Compression	CCW	N/A	N/A

Comments: _____

11.2 Rose/Escutcheon Dent Test

Sample # 008

Grade 1

	Measured Depth (in)	Maximum Depth Allowable (in)	Compliant / Non Compliant
Inside	0.011	0.075	Compliant
Outside	0.009	0.075	Compliant

11.3 Outside Rose Deformation Test

Sample #009

Compliant

Grade 1 Base Material Stainless steel

	Compression Load (lbf)	Deformation	Deformation Maximum Allowable
Outside	650	0.04%	10%

Comments: _____

12 Security Tests

12.1 Knob, Lever, Handleset Thumbpiece, or Paddle Impact Test

Sample #010

Compliant

Impact 75lbf-ft(100J) 10 Blows Operable _____ Entry _____
 Inoperable X Non-Entry X

Comments: When applied 2 blows, the knob was destroyed, but can not gain entry with a screw driver or by hand within 5 minutes.

12.2 Cylinder Guard (Sectional Trim) or Escutcheon Impact Test

Sample #

Not applicable

Impact _____ Operable _____ Entry _____
 Inoperable _____ Non-Entry _____

Comments: The cylinder guard projects 0.313", not over 3/8" from the surface of the door.

12.3 Cylinder Guard (Sectional Trim) or Escutcheon Tension Test

Sample #011

Compliant

Tension 3600 lbf Operable _____ Entry _____
 Inoperable X Non-Entry X

Comments: _____

12.4 Lock Body or Housing Tension Test

Sample #012

Compliant

Tension 3600 lbf Operable _____ Entry _____
 Inoperable X Non-Entry X

Comments: _____

12.5 Lock Body or Housing Torque Test

Sample #013

Compliant

Torque 120 ft-lbf Operable _____ Entry _____
 Inoperable X Non-Entry X

Comments: _____

12.6 Locked Knob, Lever, or Paddle Test Sample #014 Compliant
10.5.1 Locked Knob or Lever.

Torque	<u>120 ft-lbf</u>	Operable	<u> </u>	Entry	<u> </u>
Actual Torque	<u>75 ft-lbf</u>	Inoperable	<u> X </u>	Non-Entry	<u> X </u>

Comments: when the torque reached 75 ft-lbf, the knob was destroyed, but can not gain entry with a screw driver or by hand within 5 minutes.

10.5.2 Locked Paddle Force	<u> </u>	Operable	<u> </u>	Sample #	Not applicable
Actual Force	<u> </u>	Inoperable	<u> </u>	Entry	<u> </u>
				Non-Entry	<u> </u>

Comments:

12.7 Cylinder Guard (Sectional Trim) or Escutcheon Torque Test Sample #015 Compliant

Torque	<u> N/A </u>	Operable	<u> X </u>	Entry	<u> </u>
		Inoperable	<u> </u>	Non-Entry	<u> X </u>

Comments: The attempted torque can not be achieved due to the design features.

12.8 Cylinder Face Impact Test Sample #016 Compliant

Impact	<u>75lbf-ft (100J) 10 Blows</u>	Operable	<u> </u>	Entry	<u> </u>
		Inoperable	<u> X </u>	Non-Entry	<u> X </u>

Comments:

12.9 Dead Bolt or Latch Bolt or Dead Bolt and Latch Bolt Impact Test Sample #0117 Compliant

Impact	<u>2 blows of 60 lbf-ft plus</u> <u>2 blows of 90 lbf-ft plus</u> <u>2 Blows of 120 lbf-ft plus</u> <u>2 Blows of 150 lbf-ft</u>	Operable	<u> X </u>	Entry	<u> </u>
		Inoperable	<u> </u>	Non-Entry	<u> X </u>

Comments:

12.10 Dead Bolt Sawing Test - All Grades - 5 Minutes with 5 lbf (22 N) Sample #018 Compliant

Width of Dead Bolt	<u>1.12"</u>	Time:	<u>more than 5 minutes</u>
Thickness of Dead Bolt	<u>0.51"</u>		

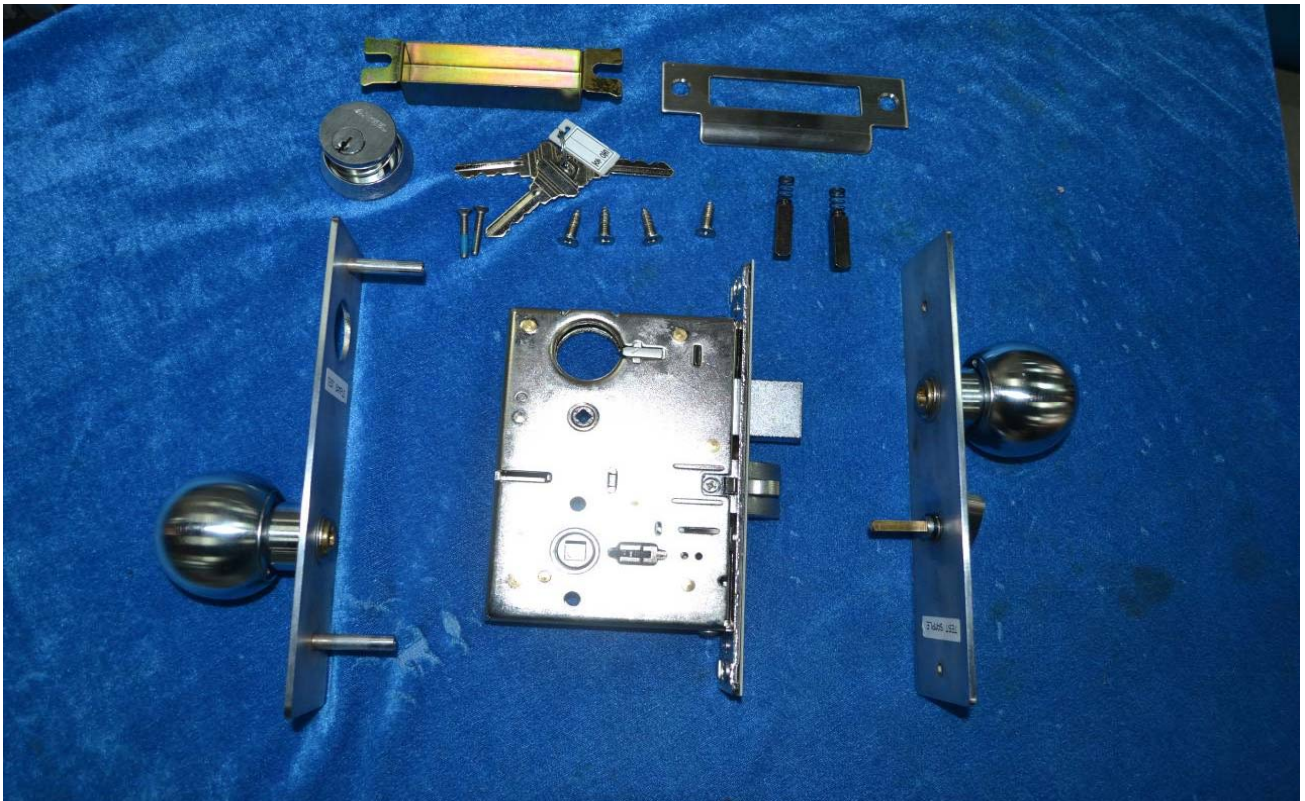
Comments: The dead bolt was not sawn off within 5 minutes

12.11 Bolt Compressive Load Test Sample # 019 Compliant

All Grades	<u>Latch Bolt: 360 lbf</u> <u>Dead Bolt: 600 lbf</u>
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Comments: After test, the Latch Bolt projects: 0.501"; Deadbolt projects:0.984"

Product photos

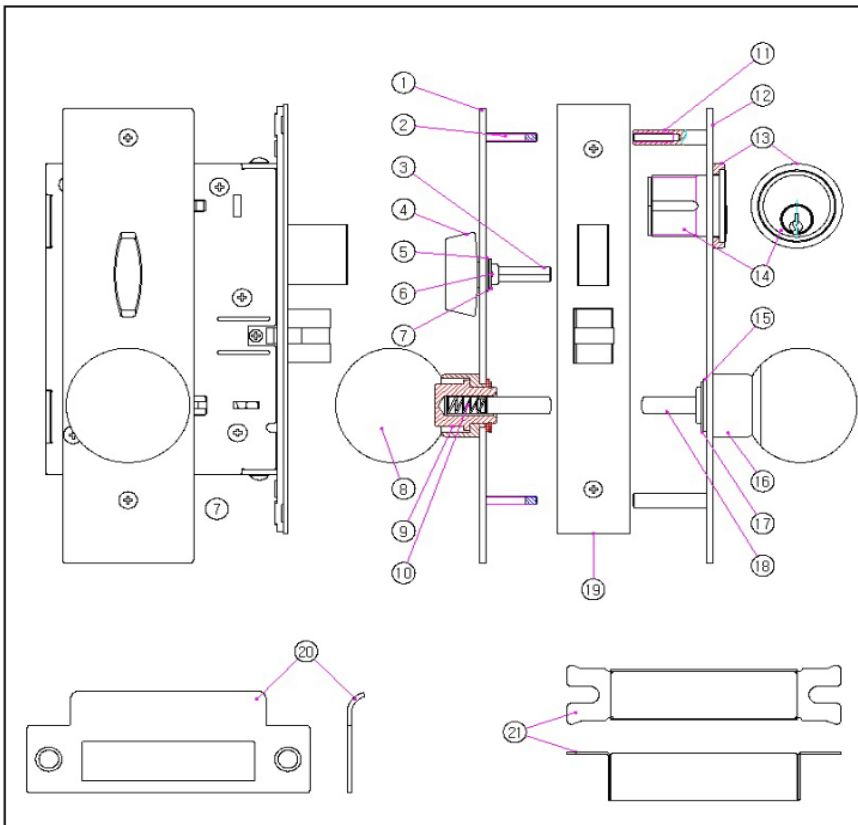


Components



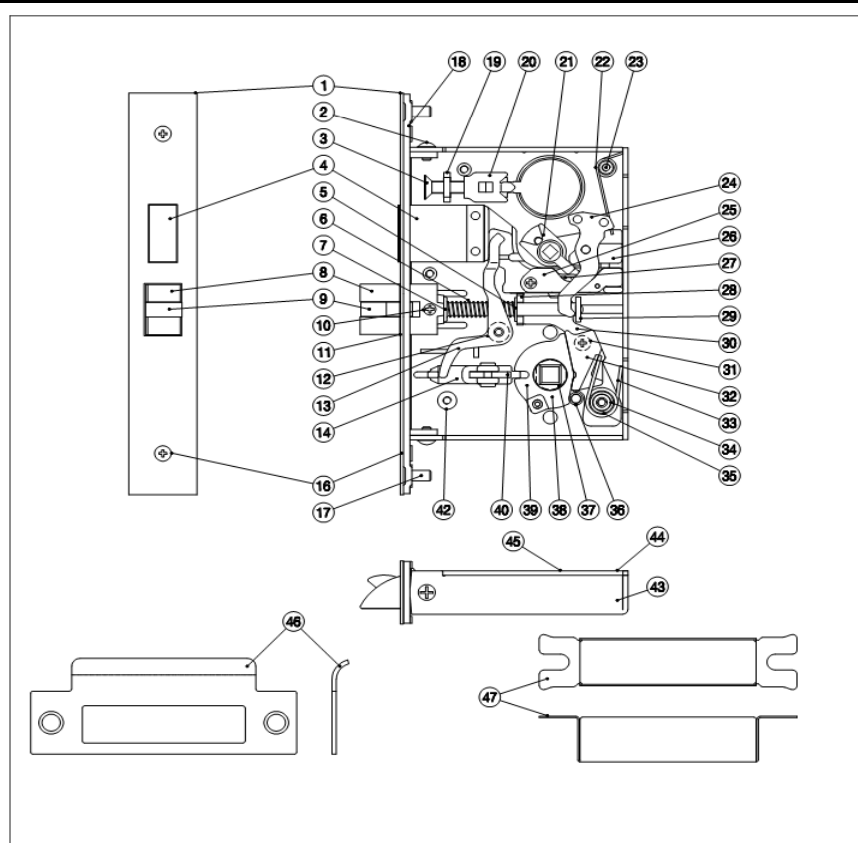
Side view

Product Drawing



PART NO.	QTY	TITLE	MATERIAL	QTY	UNIT	DESCRIPTOR	REMARKS
1	1	IN PLATE	ST304	1		12.5	
2	2	PLATE SCREW	ST3	2		M4x25L (2x12.5)	
3	1	THUMB TURN SHAFT	M3S	1			
4	1	THUMB TURN KNOB	ST304	1			
5	1	THUMB TURN SPRING	PWR	1		φ1.2	
6	1	SPRING PIN	SKS	1			
7	1	SNAP RING	SKS	1		10E	
8	2	KNOB ASSY		2			
9	2	KNOB SHAFT	M3S	2			
10	2	LEVER SHAFT SPRING	PWR	2		φ0.6	
11	2	CLAMPING SHAFT	M3S	2		φ7.0	
12	1	OUT PLATE	ST304	1		12.5	
13	1	CYLINDER RING	ST304	1			
14	1	CYLINDER ASSY		1			
15	2	WASHER	ST304	2			
16	2	PLATE BUSHING	M3S	2		14E	
17	2	SNAP RING	SKS	2		14E	
18	2	LEVER SHAFT	SK41	2		□8x8	
19	1	MORTISE ASSY		1			
20	1	STRIKE	ST304	1		12.0	
21	1	DUST BOX	SPC1	1		10.8	

DRAWN	CHECKED	APPROVED	SCALE	1/1	MODEL	GRADE 1 MORTISE (엔젤)
13.09.23			UNIT	mm	TITLE	KNOB TYPE ASSY
MONDAY			먼데이			



PART NO.	QTY	TITLE	MATERIAL	QTY	UNIT	DESCRIPTOR	REMARKS
1	1	FACE PLATE	ST304	1		11.5	
2	2	BACK PLATE FOR SCREW	MSWR	2		M4x5.0L	
3	1	CYL. LOCKER SCREW	MSWR	1		M5x9.0L	
4	1	DEAD BOLT ASSY	ST3	1			
5	1	WASHER	ST304	1		11.0	
6	1	LATCH SPRING	PWR	1		φ0.5	
7	1	LATCH ROD	MSWR	1			
8	1	LATCH BOLT	ST3	1			
9	1	LATCH CAM	ST3	1			
10	1	LATCH BOLT SCREW	ST3	1		M4x15.5L	
11	1	LATCH SPRING PIN	ST3	1		φ2.5	
12	1	LOCKING FIXED	M3S	1		φ10	
13	1	DEAD LOCKING LINK	SPC1	1		12.3	
14	1	HUB LOCKER	ZND/C	1			
15	2	FACE PLATE SCREW	ST3	2		M4x6L	
16	4	SCREW	MSWR	4			
17	1	BACK PLATE	SPC1	1		13.0	
18	1	CYL. LOCKER PLATE	SPC1	1		13.0	
19	1	CYLINDER LOCKER	SPC1	1		12.5	
20	1	DEAD BOLT CAM ASSY	ZND/C	1			
21	1	KEY LINK SPRING	PWR	1		φ1.0	
22	1	FIXED CYLINDER	M3S	1		φ6.5	
23	1	KEY LINK CAM	SPC1	1		12.3	
24	1	DEAD BOLT COVER	ST304	1		10.5	
25	1	DEAD BOLT COVER FORSD PLATE	ZND/C	1			
26	1	DEAD BOLT SPRING	ST3	1		φ1.2	
27	1	LATCH ROD FIXED PLATE	SPC1	1		13.0	
28	1	STOP PLATE	SPC1	1		12.3	
29	1	LATCH CAM LEVER	SPC1	1		13.0	
30	1	LATCH CAM LEVER SCREW	MSWR	1		M4x10L	
31	1	LATCH CAM LEVER STOPPER	Fe	1			
32	1	LATCH CAM LEVER SPRING	MSWR	1		φ1.5	
33	1	CAM LEVER STOPPER	M3S	1		φ10	
34	1	BUSHING	M3S	1			
35	1	HUB STOP PIN	M3S	1		φ6.5	
36	1	HUB BUSHING	SB	1			
37	1	TOP HUB	Fe	1			
38	1	BOTTOM HUB	Fe	1			
39	2	HUB LOCKING DISC	SPC1	2		13.0	
40	1	HUB SPRING PIN	M3S	1		φ6.0	
41	1	CASE	SPC1	1		12.3	
42	1	CASE COVER	SPC1	1		12.3	
43	1	CASE SCREW	MSWR	1			
44	1	STRIKE	ST304	1		12.0	
45	1	DUST BOX	SPC1	1		10.8	

DESCRIPTION	01 MORTISE
PARTS NAME	MORTISE ASSY
REV. NO.	

Revision Page

Revision No.	Date	Changes	Author	Reviewer
Original	6-Nov-2013	First issue	Credy Chen	Blusea Dong
1.0	6-Nov-2013	Revised model name from 'ASM-10000-1' to 'ASM-10000-01'		