

dormakaba
SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
GENERAL NOTES, ELEVATION,
AND SECTION VIEWS

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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1. THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE INCLUDING PROVISIONS SET FORTH FOR HIGH-VELOCITY HURRICANE ZONES (HVHZ).
2. DOOR PANEL FACE SHEETS TO BE MIN. 18 GA. (0.045" MIN.) STEEL, FRAME JAMBS AND STRIKE PLATE TO BE MIN. 16 GA. (0.057" MIN.) STEEL. LOCK REINFORCEMENT PLATE TO BE MIN. 12 GA. STEEL. MULLION TO MIN. 11 GA. (0.120" MIN.) STEEL UNDER SEPARATE APPROVAL
3. STRIKES, HINGES, AND ALL APPLICABLE REINFORCEMENTS AS REQUIRED ON DETAIL DRAWING IN THIS APPROVAL.
4. LOCKING HARDWARE SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. ALL FASTENERS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
6. STEEL COMPONENTS SHALL BE COATED OR COMPLY WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF FBC SECTION 2220.

1. LOCKING HARDWARE (DEADBOLT & CYLINDRICAL LOCKSETS IS AN APPROVED COMPONENT TO BE USED AS AN EQUAL ALTERNATIVE TO THE CORRESPONDING APPROVED LOCKING DEVICES IN STEEL OUTSWING DOORS WITH 16 GA. (.057" MIN.) FRAME AND 18 GA. (0.045" MIN.) SINGLE STEEL DOORS, HAVING CURRENT APPROVAL.
2. THE DOOR PANEL SHALL NOT BE WIDER THAN 48" OR HIGHER THAN 96"
3. TWO (2) SINGLE DOORS USING AN APPROVED MULLION (SEE MIN. SECTION PROPERTIES) CAN ALSO BE USED WITH QDB, QCL, & QTL LOCKING HARDWARE.
4. THE LOWER DESIGN PRESSURE OF COMPONENT HARDWARE OR DOOR OR MULLION (IF APPLICABLE) SHALL CONTROL FOR ENTIRE ASSEMBLY.
5. ELECTRICAL/ELECTRONIC FUNCTION AND INSTALLATION OTHER THAN SELF CONTAINED ELECTRONIC DEVICES ARE NOT PART OF THIS APPROVAL AND MUST BE REVIEWED BY AUTHORITY HAVING JURISDICTION(AHJ) IN THE AREA.
6. COMPLIANCE WITH BUILDING EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

A technical drawing showing a horizontal section of a mullion. The mullion is a vertical tube, labeled "MULLION 2" X 3" X 5/16" STEEL TUBE". Inside the tube, there is a "PANIC EXIT" mechanism. The drawing shows "LOCKING HARDWARE UNDER SEPARATE APPROVAL" and "STRIKE PLATE & SCREWS". The mullion is surrounded by "REINF. PLATES" (reinforcement plates). The drawing is labeled "HORIZONTAL SECTION" and "MULLION DETAIL". There is a circular callout with the letter "A" and the number "1".

MULLION 2" X 3" X 5/16" STEEL TUBE

PANIC EXIT

LOCKING HARDWARE
UNDER SEPARATE APPROVAL

STRIKE PLATE
& SCREWS

INT.

EXT.

REINF. PLATES

A

1

HORIZONTAL SECTION

MULLION DETAIL

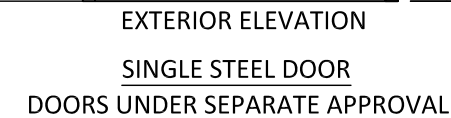
Ix
Sx

ASTM A5
MIN. Fy =

ASTM A500 GR. B OR BETTER
MIN. Fy = 46 KSI

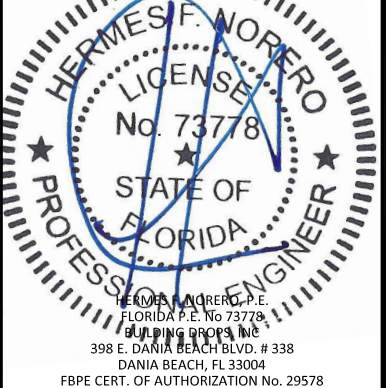


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THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.08.14 21:31:21 -04'00'



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DATE: 12.11.18

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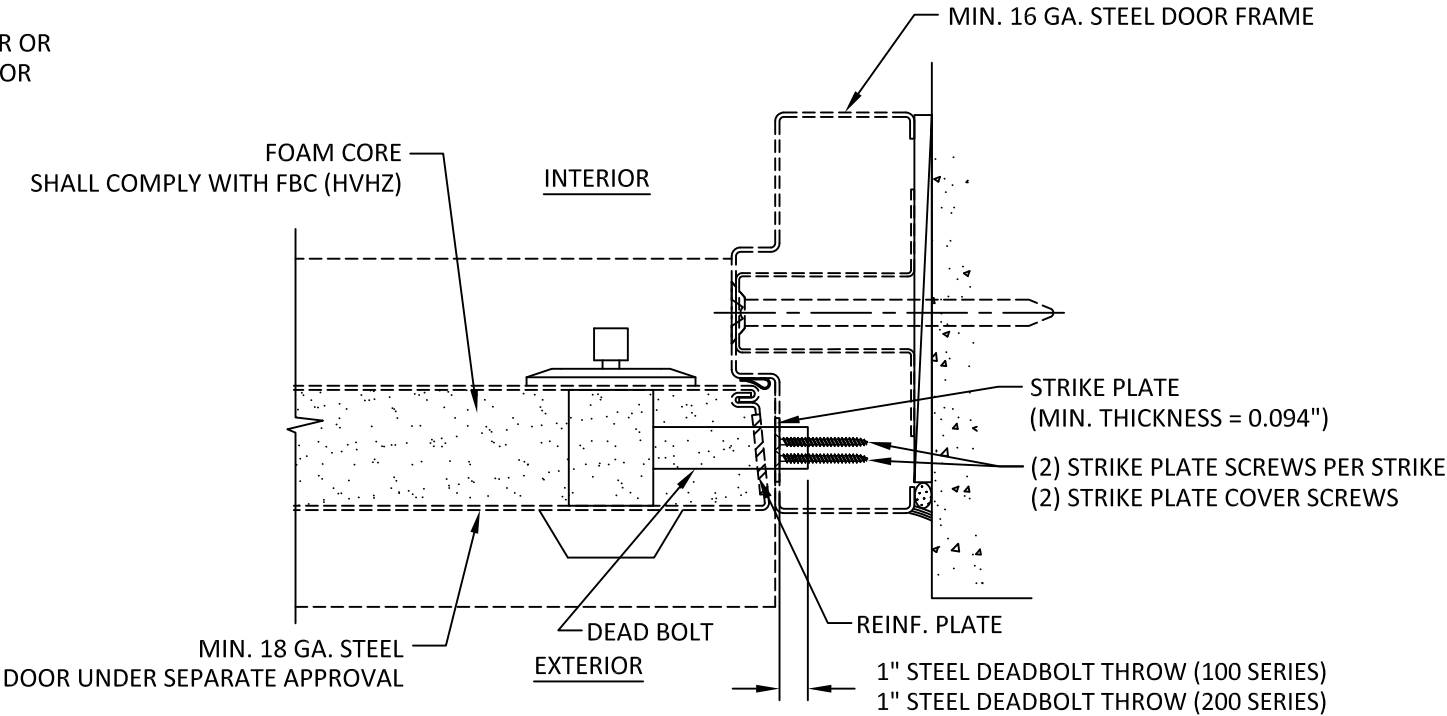
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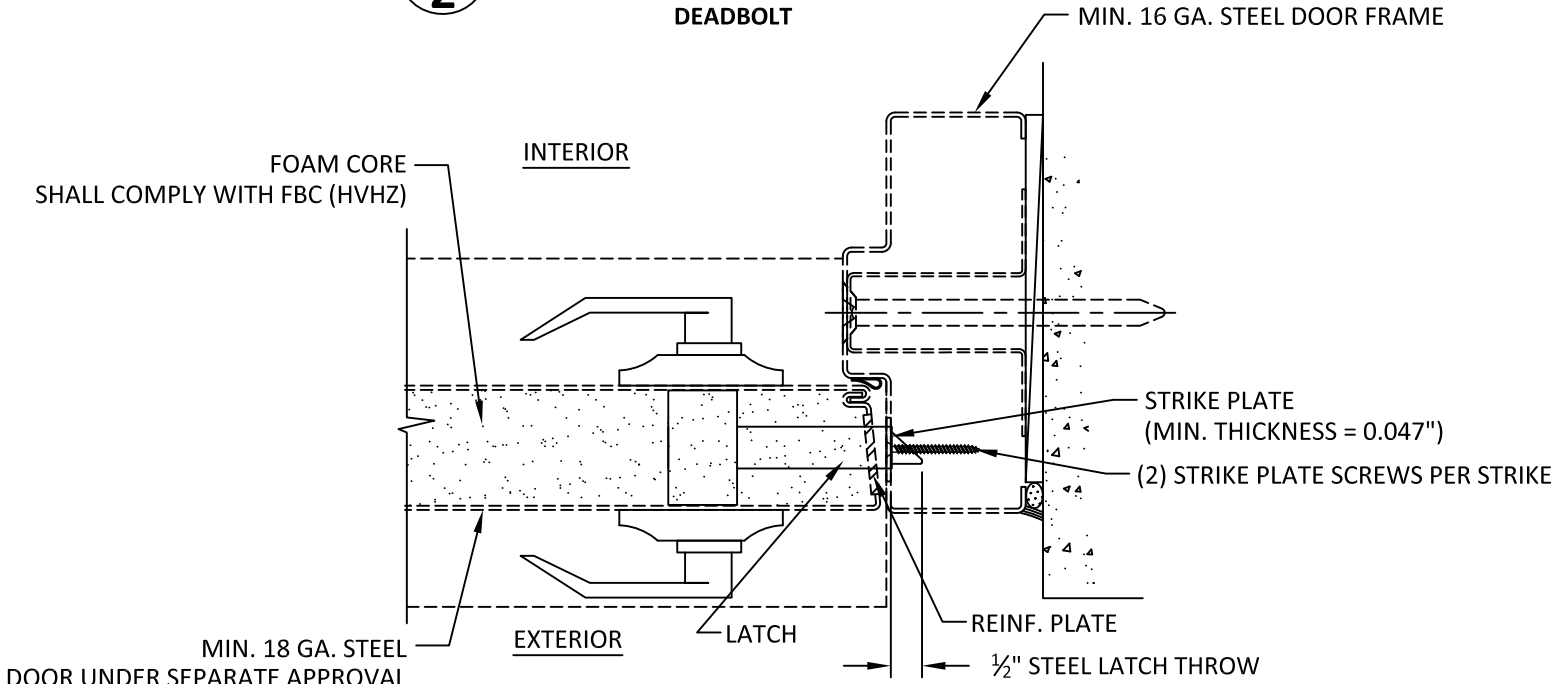
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NOTE: SEE APPROVED DOOR UNDER SEPARATE CURRENT APPROVAL FOR DOOR ASSEMBLY, INSTALLATION AND DESIGN PRESSURE RATINGS, LOWER DESIGN PRESSURE OF LOCKING HARDWARE OR DOOR OR MULLION (IF APPLICABLE) SHALL CONTROL FOR ENTIRE ASSEMBLY.



B
2 **HORIZONTAL SECTION**
QDB SERIES 100/200
DEADBOLT



C
2 **HORIZONTAL SECTION**
QCL SERIES 100/200 OR QTL 200
LEVERSET



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dormakaba
TITLE: QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
SECTION VIEWS

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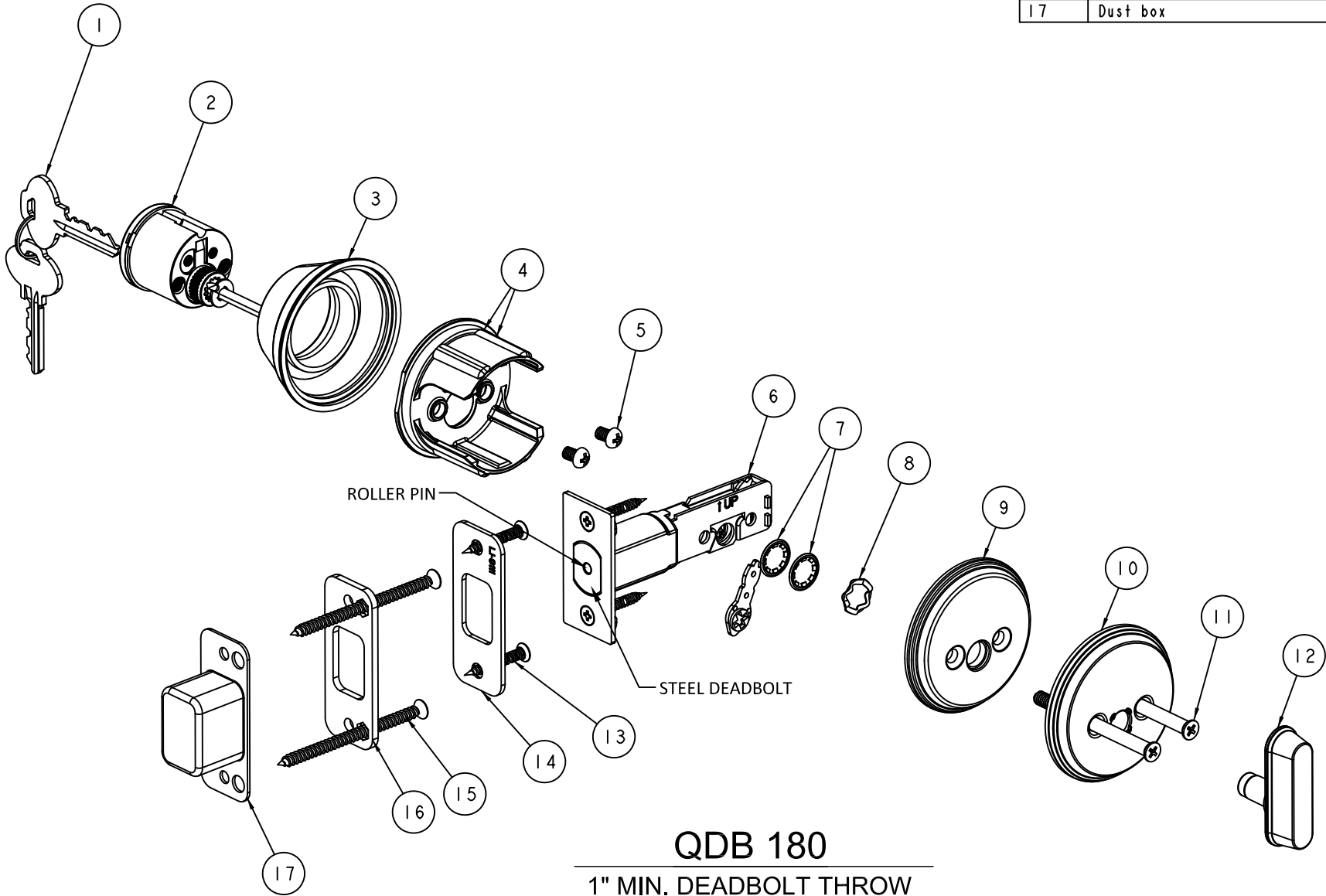
OF 17

QDB 100 SERIES AUXILIARY DEADBOLTS

TO BE USED WITH
QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET

MAX. DESIGN PRESSURE RATING-PSF
(48" WIDE X 96" HIGH SINGLE LEAF DOORS)

HARDWARE MODEL (GRADE 1)	CONFIG.	EXT. (+)	INT. (-)
QDB 180 (SHOWN)	SINGLE	75.0	75.0
QDB 181	TWO SINGLE W/ MULLION	65.0	65.0
QDB 182			
QDB 183			



QDB 180
1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)

NO	Component	Spec	Qty	Remark
1	Key	CU	2	
2	Single cylinder		1	
3	Outside rose maunting	brass forged	1	
4	Anti-pry	ZAMAK3	1	
5	Anti-Pry screw	steel	2	
6	Latch Casing	Brass with hardened steel pin	1	
7	Circular external rings	Ø9.7x12.6 0.4†	2	
8	Circular external rings	0.3† Ø14.5	1	
9	Inside rose hourting	steel	1	
10	Inside rose plate	CU. SUS 0.4†	1	
11	One way screw	10B21 #12-24 L=68	2	
12	Turn button	ZAMAK3	1	
13	#8 X 1-1/4" FH SCREWS	SAE GR. 5	2	
14	Strike plate	SUS 2.0†	1	
15	#8 X 3" FH SMS		2	
16	Strike plate cover	S45C3.0 heat-treatment	1	HRC30-35°
17	Dust box	POM	1	



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QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

QDB 180

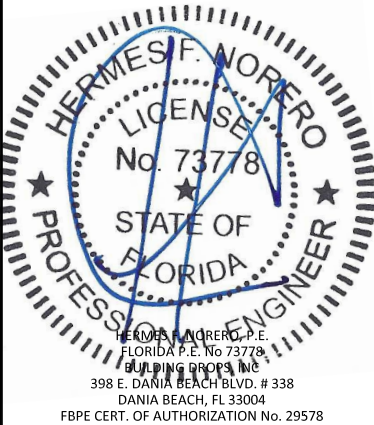
PREPARED BY: BUILDING DROPS, INC.



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QDB 100 SERIES AUXILIARY DEADBOLTS

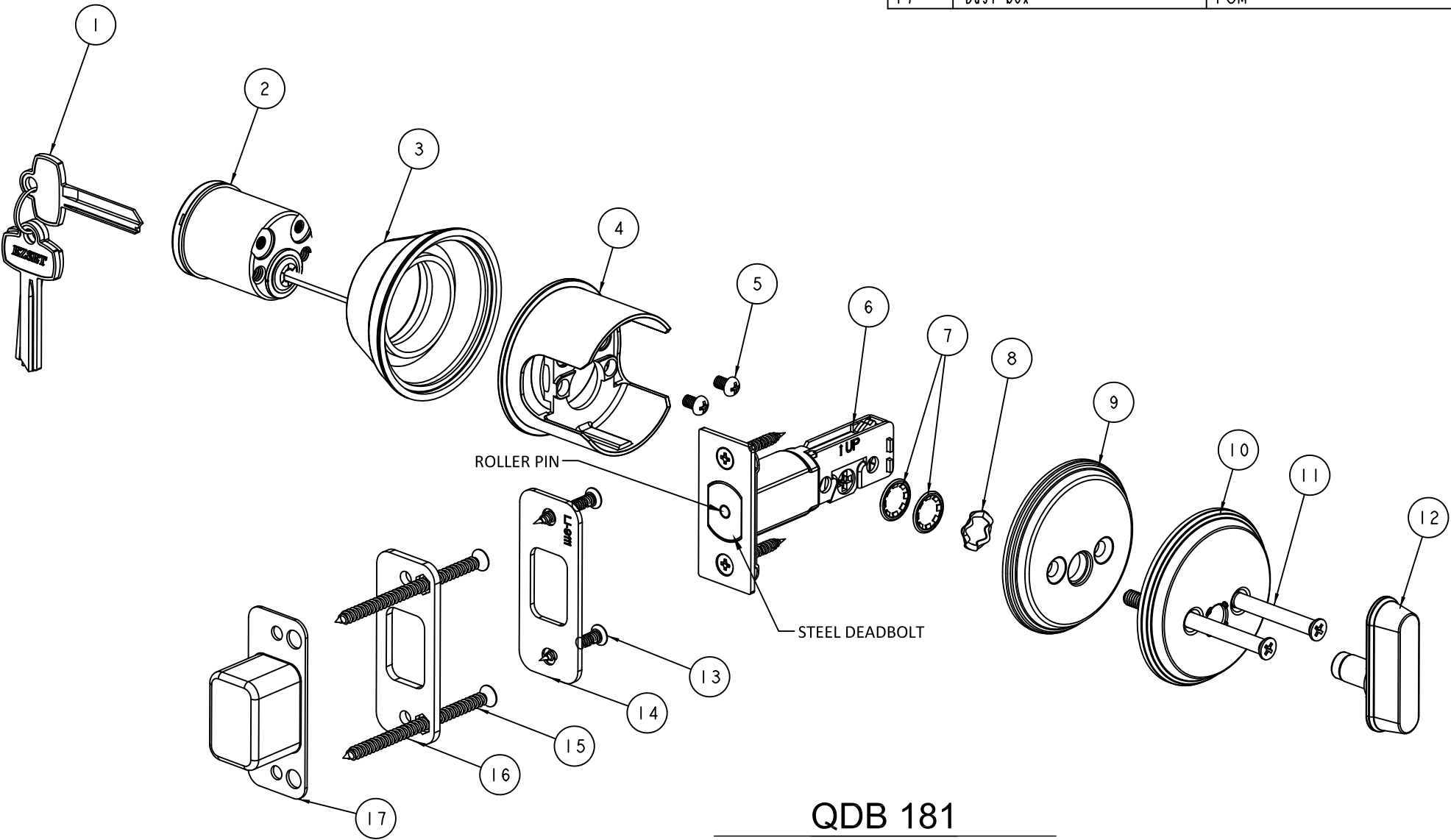
TO BE USED WITH
QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET

MAX. DESIGN PRESSURE RATING-PSF

(48" WIDE X 96" HIGH SINGLE LEAF DOORS)

HARDWARE MODEL (GRADE 1)	CONFIG.	EXT. (+)	INT. (-)
QDB 180	SINGLE	75.0	75.0
QDB 181 (SHOWN)			
QDB 182	TWO SINGLE W/ MULLION	65.0	65.0
QDB 183			

NO	Component	Spec	Qty	Remark
1	Key	CU	3	
2	Single cylinder		1	
3	Outside rose maunting	brass forged	1	
4	Anti-pry	ZAMAK3	1	
5	Anti-Pry screw	steel	2	
6	Latch Casing	Brass with hardened steel pin	1	
7	Circular external rings	spring steelØ15.4	2	
8	Circular external rings	spring steel0.3tØ14.5	1	
9	Inside rose hourting	steel	1	
10	Inside rose plate	cu. sus 0.4t	1	
11	One way screw	35ACR #12-24 L=68	2	
12	Turn button	ZAMAK3	1	
13	#8 X 1-1/4" FH SCREWS	SAE GR. 5	2	
14	Strike plate	SUS 2.0t	1	
15	#8 X 3" FH SMS		2	
16	Strike plate cover	S45C3.0 heat-treatment	1	HRC30-35°
17	Dust box	POM	1	



QDB 181

1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)



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TITLE: dormakaba
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

QDB 181

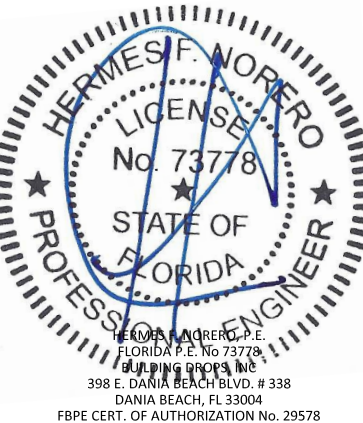
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DWG. BY: SM

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DWG. #: DOR003

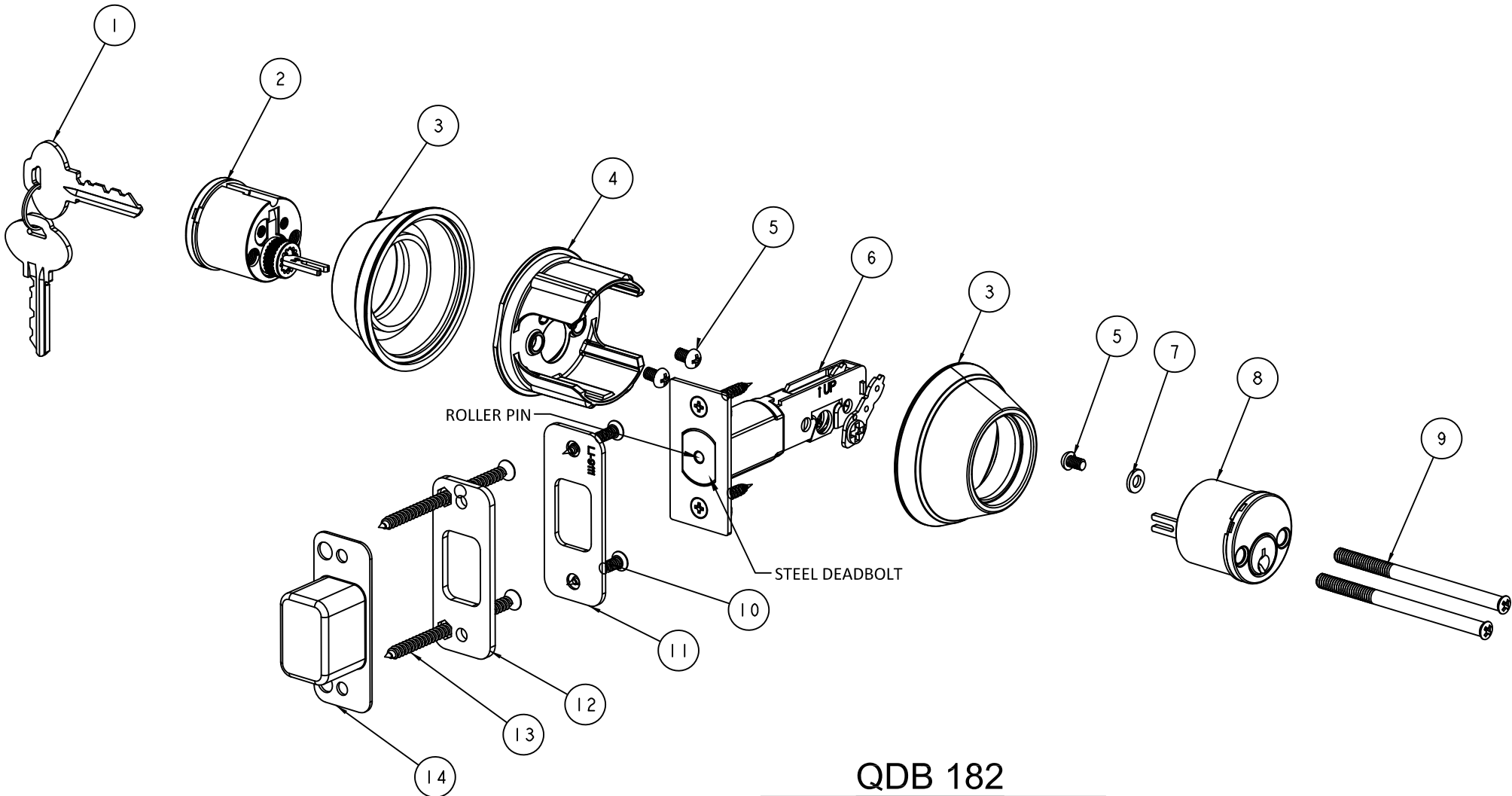
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OF 17

QDB 100 SERIES AUXILIARY DEADBOLTS			
TO BE USED WITH QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET			
MAX. DESIGN PRESSURE RATING-PSF (48" WIDE X 96" HIGH SINGLE LEAF DOORS)			
HARDWARE MODEL (GRADE 1)	CONFIG.	EXT. (+)	INT. (-)
QDB 180 QDB 181	SINGLE	75.0	75.0
QDB 182 (SHOWN) QDB 183	TWO SINGLE W/ MULLION	65.0	65.0

NO	Component	Spec	Qty	Remark
1	key		2	
2	Double outsidr cylinder		1	
3	Outside rose mounting	brass forged	2	
4	Anti-pry	ZAMAK	1	
5	Anti-Pry screw	steel	3	
6	Latch Casing	Brass with hardened steel pin	1	
7	washer	SPCC 1.2t	1	
8	Double inside cylinder		1	
9	Double installation screw	35ACR 12*24 L=83	2	
10	#8 X 1-1/4" FH SCREWS	SAE GR. 5	2	
11	Strike plate	SUS 2.0t	1	
12	Strike plate cover	S45C3.0t heat-treatment	1	HRC30-35°
13	#8 X 3" FH SMS		2	
14	Strike box	POM	1	



QDB 182
1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)



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TITLE:
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

QDB 182

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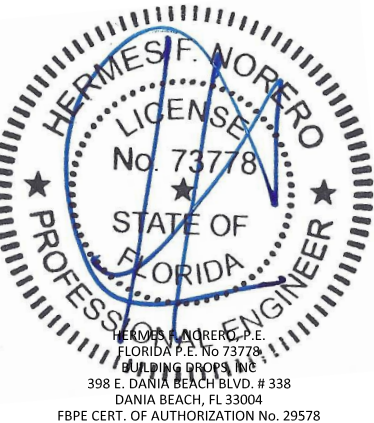
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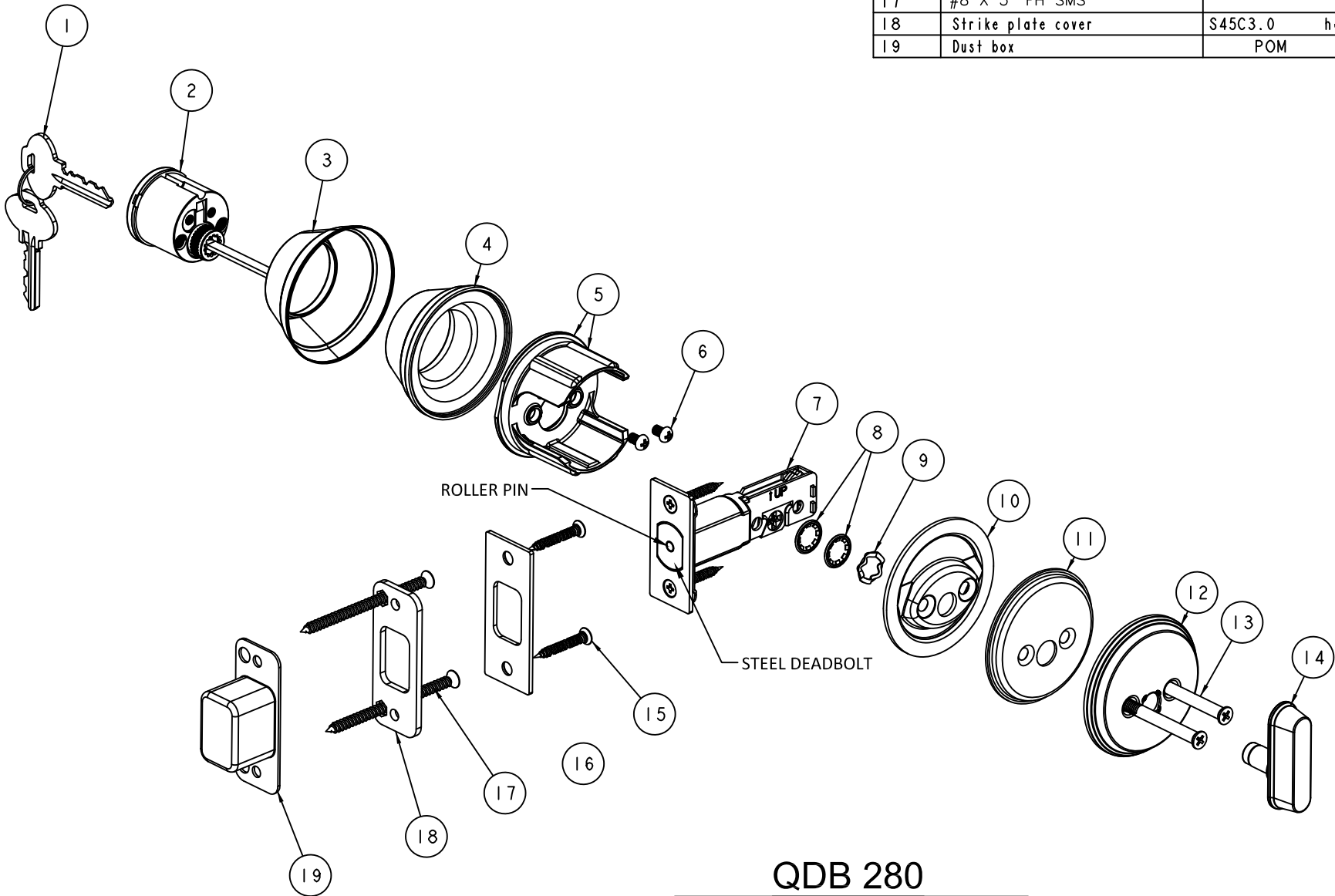
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QDB 200 SERIES AUXILIARY DEADBOLTS			
TO BE USED WITH QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET			
MAX. DESIGN PRESSURE RATING-PSF (48" WIDE X 96" HIGH SINGLE LEAF DOORS)			
HARDWARE MODEL (GRADE 2)	CONFIG.	EXT. (+)	INT. (-)
QDB 280 (SHOWN)	SINGLE	75.0	75.0
QDB 281			
QDB 282			
QDB 283			
QDB 284	TWO SINGLE W/ MULLION	65.0	65.0

NO	Component	Spec	Qty	Remark
1	Key	CU	2	
2	Single cylinder		1	
3	Outside protect sleeve	CU SUS 0.4t	1	
4	Inside protect sleeve	steel forged	1	
5	Anti-pry	ZAMAK3	1	
6	Anti-Pry screw	steel	2	
7	Latch Casing	Brass with hardened steel pin	1	
8	Circular external rings	spring steelØ9.7x12.6 0.4t	2	
9	Wave wash	spring steel0.3tØ14.5	2	
10	Inside support plate	SPCC2.0 63.9	1	
11	Inside rose plate	SPCC 1.2t	1	
12	Inside rose	0.4t	1	
13	One way screw	10B21 #12-24 L=68	2	
14	Turn button	ZAMAK3	1	
15	#8 X 1-1/4" FH SCREWS	SAE GR. 5	2	
16	Strike plate	SPCC 2.0t	1	
17	#8 X 3" FH SMS		2	
18	Strike plate cover	S45C3.0 heat-treatment	1	HRC30-35°
19	Dust box	POM	1	



QDB 280
1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)



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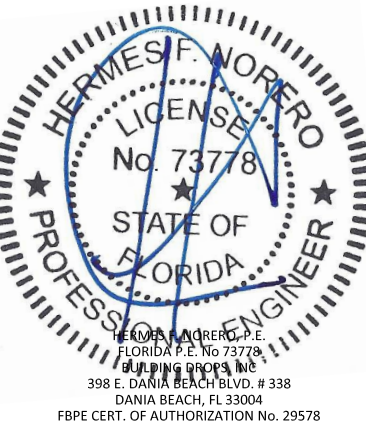
TITLE: **dormakaba**
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
QDB 280

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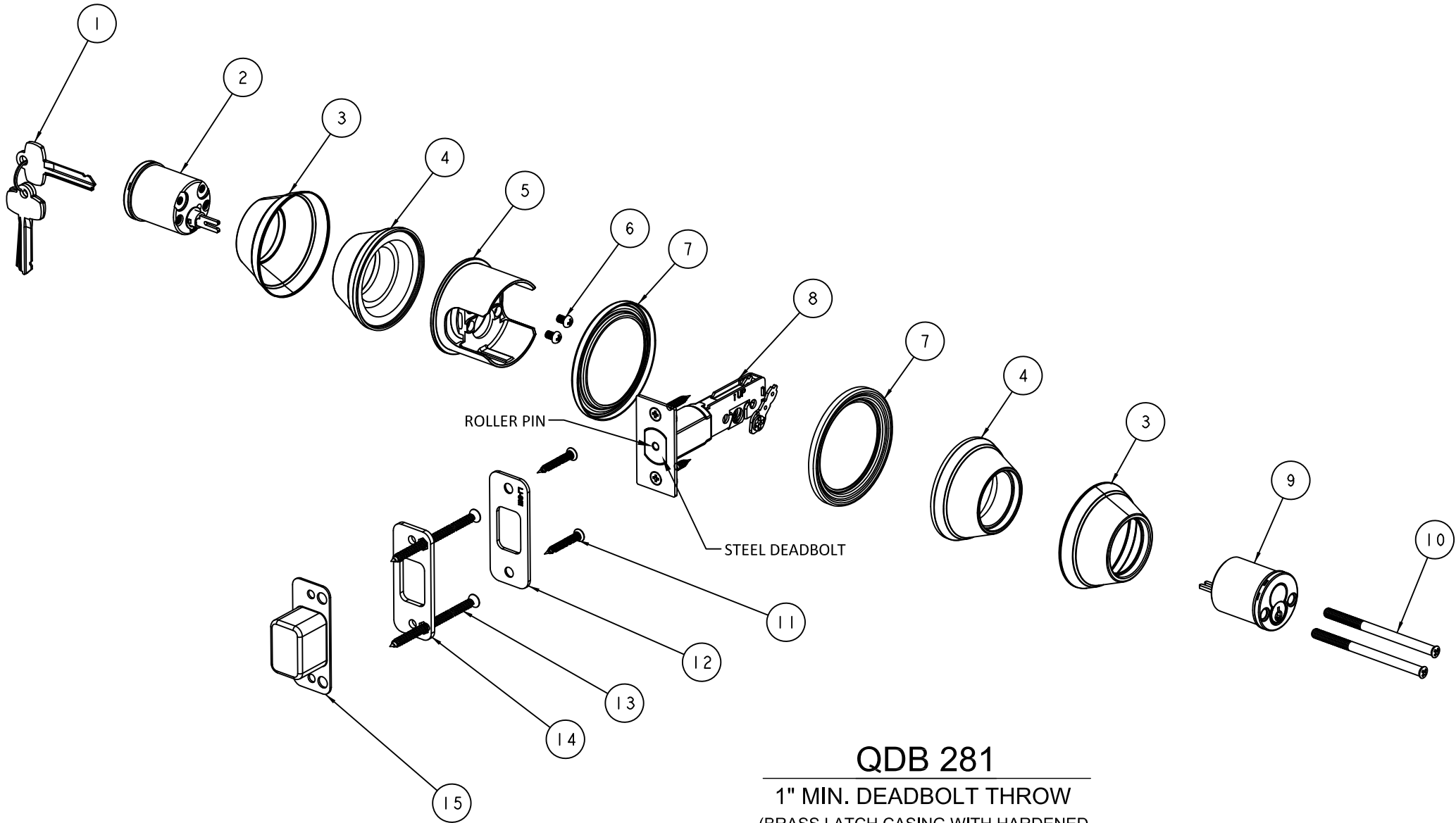
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QDB 200 SERIES AUXILIARY DEADBOLTS			
TO BE USED WITH QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET			
MAX. DESIGN PRESSURE RATING-PSF (48" WIDE X 96" HIGH SINGLE LEAF DOORS)			
HARDWARE MODEL (GRADE 2)	CONFIG.	EXT. (+)	INT. (-)
QDB 280	SINGLE	75.0	75.0
QDB 281 (SHOWN)			
QDB 282	TWO SINGLE W/ MULLION	65.0	65.0
QDB 283			
QDB 284			

NO	Component	Spec	Qty	Remark
1	Key	CU	3	
2	Double outsidr cylinder		1	
3	Outside protect sleeve	CU SUS 0.4t	2	
4	Inside protect sleeve	steel forged	2	
5	Anti-pry	ZAMAK	1	
6	Anti-Pry screw	steel	2	
7	Outside washer maunting	SUS CU 0.6t	2	
8	Latch Casing	Brass with hardened steel pin	1	
9	Double inside cylinder		1	
10	Double installation screw	35ACR 12*24 L=83	2	
11	#8 X 1-1/4" FH SCREWS	SAE GR. 5	4	
12	Strike plate	SPCC 2.0t	1	
13	#8 X 3" FH SMS		2	
14	Strike plate cover	S45C 3.0t heat-treatment	1	HRC30-35°
15	Dust box	POM	1	



QDB 281
1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)



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SERIES LEVERSET

QDB 281

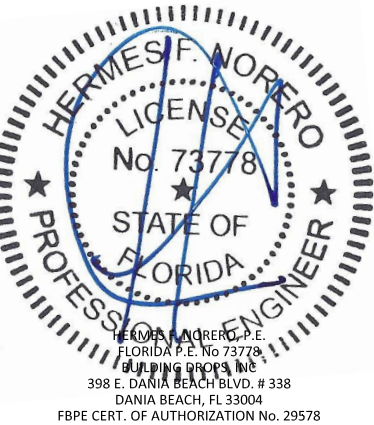
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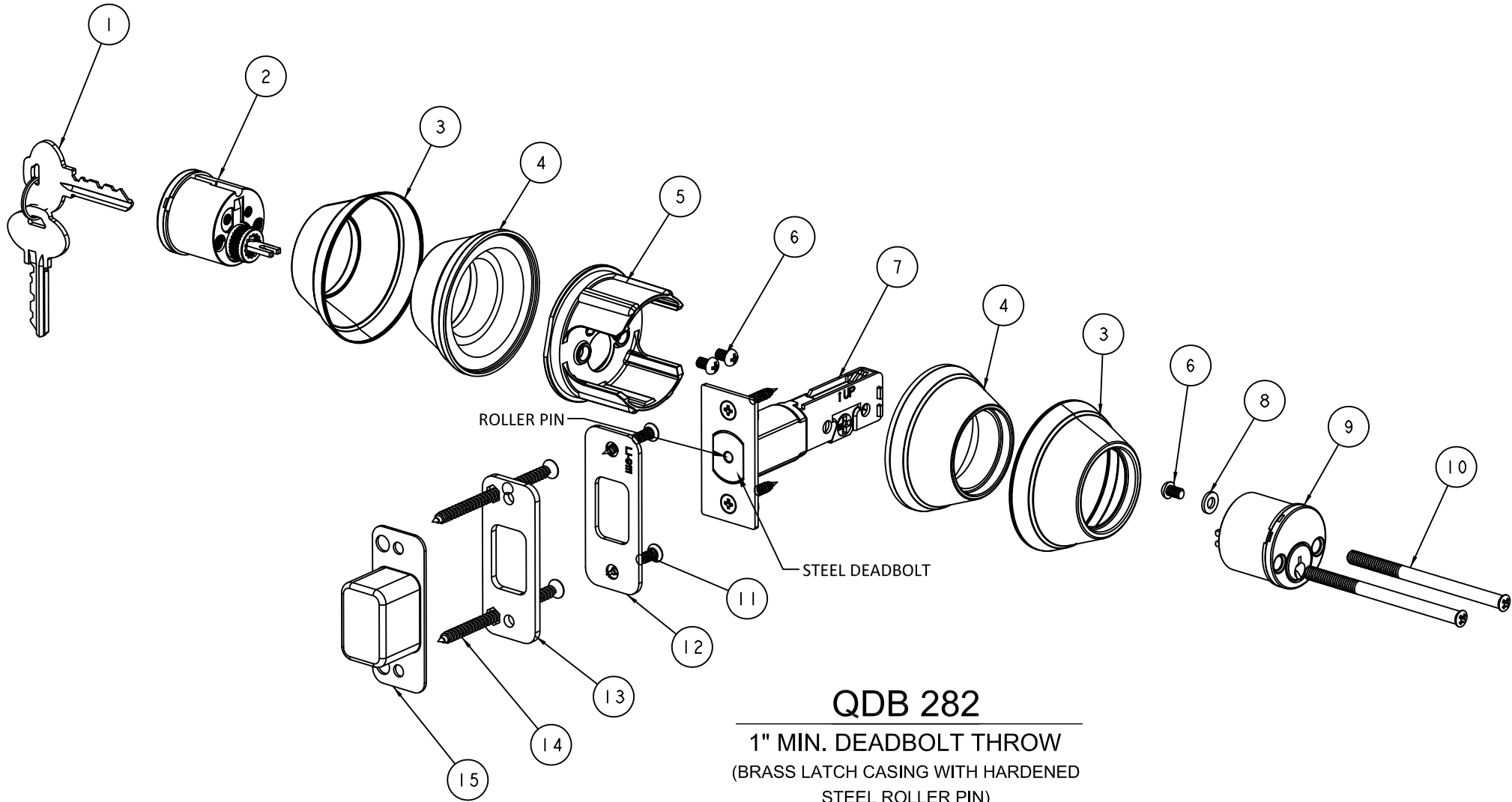
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OF 17

QDB 200 SERIES AUXILIARY DEADBOLTS			
TO BE USED WITH QCL SERIES 100/200 OR QTL SERIES 200 LEVERSET			
MAX. DESIGN PRESSURE RATING-PSF (48" WIDE X 96" HIGH SINGLE LEAF DOORS)			
HARDWARE MODEL (GRADE 2)	CONFIG.	EXT. (+)	INT. (-)
QDB 280 QDB 281 QDB 282 (SHOWN) QDB 283 QDB 284	SINGLE	75.0	75.0
	TWO SINGLE W/ MULLION	65.0	65.0

NO	Component	Spec	Qty	Remark
1	Key	CU	2	
2	Double outsidr cylinder		1	
3	Outside protect sleeve	SUS CU 0.4†	2	
4	Inside protect sleeve	steel forged	1	
5	Anti-pry	ZAMAK	1	
6	Anti-Pry screw	steel	3	
7	Latch Casing	Brass with hardened steel pin	1	
8	wash	SPCC 1.2†	1	
9	Double installation screw		1	
10	Double installation screw	35ACR 12*24 L=83	2	
11	#8 X 1-1/4" FH SCREWS	SAE GR. 5	2	
12	Strike plate	SPCC 2.0†	1	
13	Strike plate cover	S45C3.0† heat-treatment	1	HRC30-35°
14	#8 X 3" FH SMS		2	
15	Dust box	POM	1	



QDB 282
1" MIN. DEADBOLT THROW
(BRASS LATCH CASING WITH HARDENED
STEEL ROLLER PIN)



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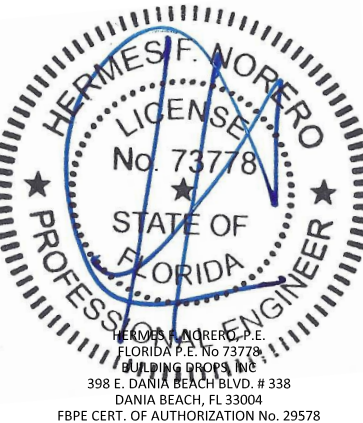
TITLE: **dormakaba**
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
QDB 282

PREPARED BY: **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC 2020 UPDATE	LL	07/22

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FL16202

DATE: **12.11.18**

DWG. BY: **SM**

CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **DOR003**

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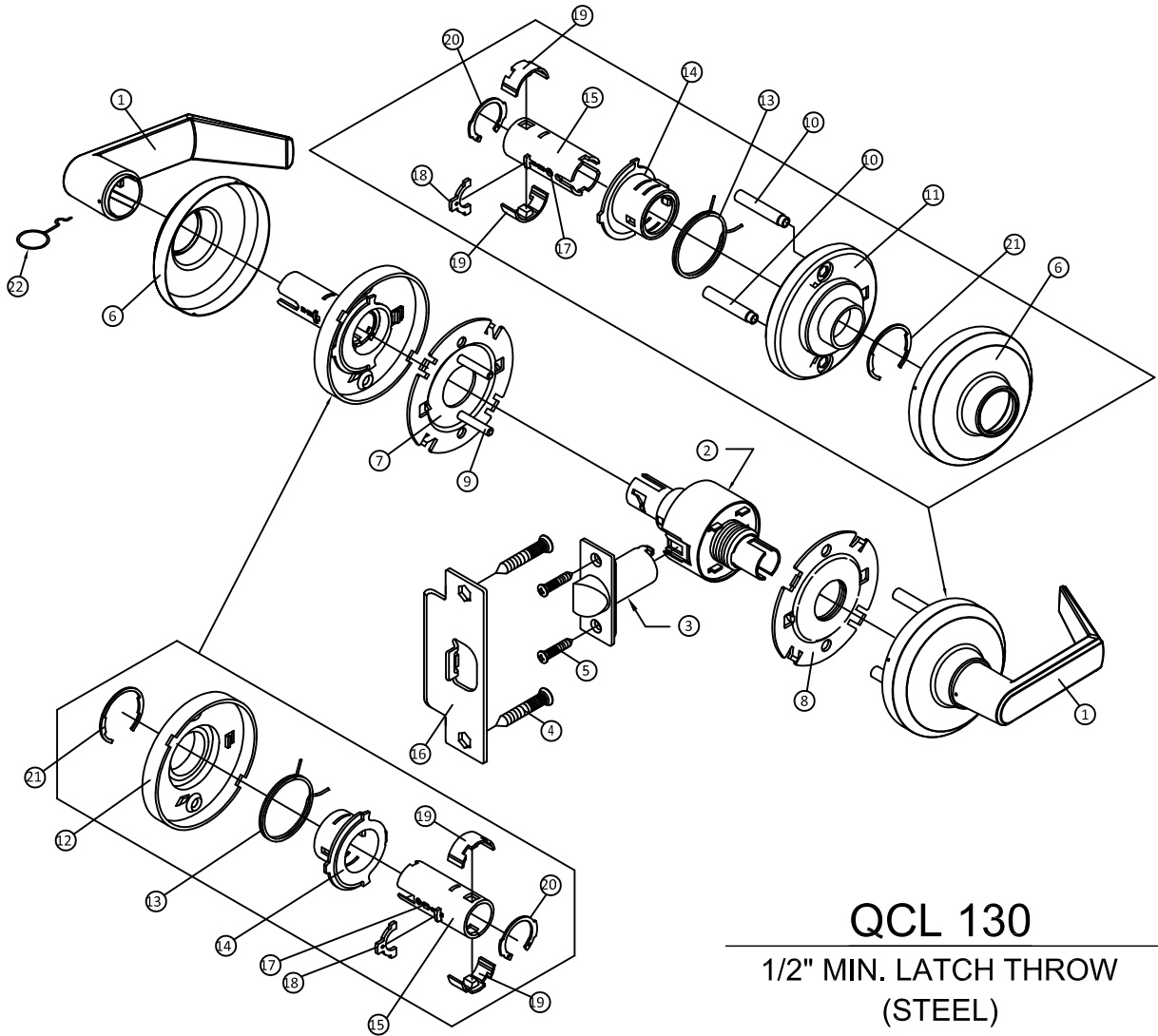
8

QCL 100 SERIES CYLINDRICAL LEVERS

TO BE USED WITH
QDB SERIES 100/200 DEADBOLTS

HARDWARE MODEL (GRADE 1)

- QCL 120
- QCL 130 (SHOWN)
- QCL 135
- QCL 140
- QCL 150
- QCL 151
- QCL 160
- QCL 161
- QCL 170
- QCL 171



QCL 130

1/2" MIN. LATCH THROW
(STEEL)

No.	Component	Spec	QTY	Remark
1	PASSAGE LEVER	ZINC ALLOY	2	
2	#82 LOCK CHASSIS		1	
3	#82 LATCH	STEEL	1	
4	SCREW	#12-24 UNCx23.8	2	SAE GR. 5
5	SCREW	#8x3/4	2	
6	ROSE	CU,SUS 0.5t	2	
7	INSIDE MOUNTING PLATE	SPCC 2.0t	1	
8	OUTSIDE MOUNTING PLATE	SPCC 2.0t	1	
9	FIXED PIN	STEEL	2	
10	SUPPORTING NUT	STEEL	2	
11	OUTSIDE ROSE PLATE	SPCC 2.0t	1	
12	INSIDE ROSE PLATE	SPCC 2.0t	1	
13	ROTATING SPRING	SWPB	2	
14	ROTATING FIXED PLATE	SPCC 1.8t	2	
15	LEVER SLEEVE SUPPORT	SPCC 2.0t	2	
16	STRIKE PLATE-9109	SPCC,SUS 2.4t	1	
17	SPRING WIRE	0.7	2	
18	INSIDE RETAINER PLATE	SPCC 2.0t	2	
19	ROTATING KEY PLATE	ZINC ALLOY	4	
20	INSIDE RETAINING RING	SK5 1.2t	2	
21	RING	SK5 1.2t	2	
22	LEVER CATCH TOOL	WIRE	1	



dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE:
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

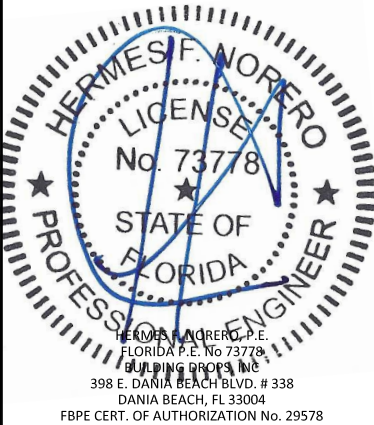
QCL 130

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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FBC 2020 UPDATE	LL	07/22

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FL16202

DATE: 12.11.18

DWG. BY:
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SCALE: NTS

DWG. #: DOR003

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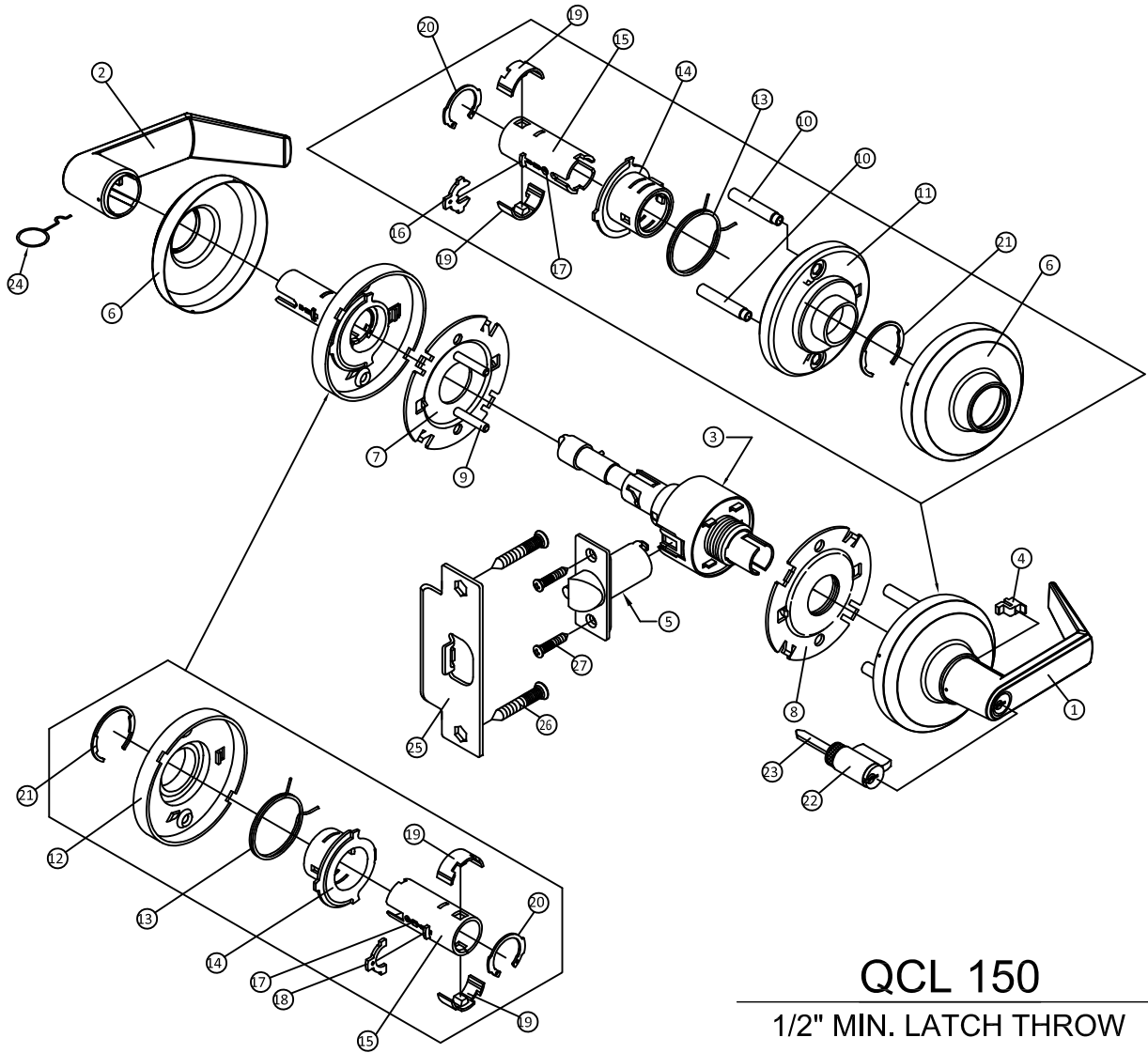
9

QCL 100 SERIES CYLINDRICAL LEVERS

TO BE USED WITH
QDB SERIES 100/200 DEADBOLTS

HARDWARE MODEL (GRADE 1)

- QCL 120
- QCL 130
- QCL 135
- QCL 140
- QCL 150 (SHOWN)
- QCL 151
- QCL 160
- QCL 161
- QCL 170
- QCL 171



QCL 150

1/2" MIN. LATCH THROW
(STEEL)

No.	Component	Spec	QTY	Remark
1	ENTRY LEVER	ZINC ALLOY	1	
2	PASSAGE LEVER	ZINC ALLOY	1	
3	#62 LOCK CHASSIS		1	
4	LEVER AIDED SLEEVE	PLASTIC	1	
5	#00 LATCH	304 PM STEEL	1	
6	ROSE	CU,SUS 0.5t	2	
7	INSIDE MOUNTING PLATE	SPCC 2.0t	1	
8	OUTSIDE MOUNTING PLATE	SPCC 2.0t	1	
9	FIXED PIN	STEEL	2	
10	SUPPORTING NUT	STEEL	2	
11	OUTSIDE ROSE PLATE	SPCC 2.0t	1	
12	INSIDE ROSE PLATE	SPCC 2.0t	1	
13	ROTATING SPRING	SWPB	2	
14	ROTATING FIXED PLATE	SPCC 1.8t	2	
15	LEVER SLEEVE SUPPORT	SPCC 2.0t	2	
16	S KEYWAY RETAINER PLATE	SPCC 2.0t	1	
17	SPRING WIRE	0.7	2	
18	INSIDE RETAINER PLATE	SPCC 2.0t	1	
19	ROTATING KEY PLATE	ZINC ALLOY	4	
20	INSIDE RETAINING RING	SK5 1.2t	2	
21	RING	SK5 1.2t	2	
22	S KEYWAY CYLINDER		1	
23	#00 TAIL PIECE	"AISI 1018 HR15N 79-97"	1	
24	LEVER CATCH TOOL	WIRE	1	
25	STRIKE PLATE-9109	SPCC,SUS 2.4t	1	
26	SCREW	#12-24 UNCx23.8	2	SAE GR. 5
27	SCREW	#8x3/4	2	



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TITLE:
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

QCL 150

PREPARED BY:

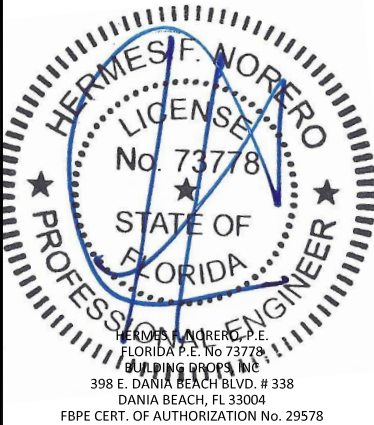
BUILDING DROPS, INC.

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FL16202

DATE: 12.11.18

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HFN

SCALE: NTS

DWG. #: DOR003

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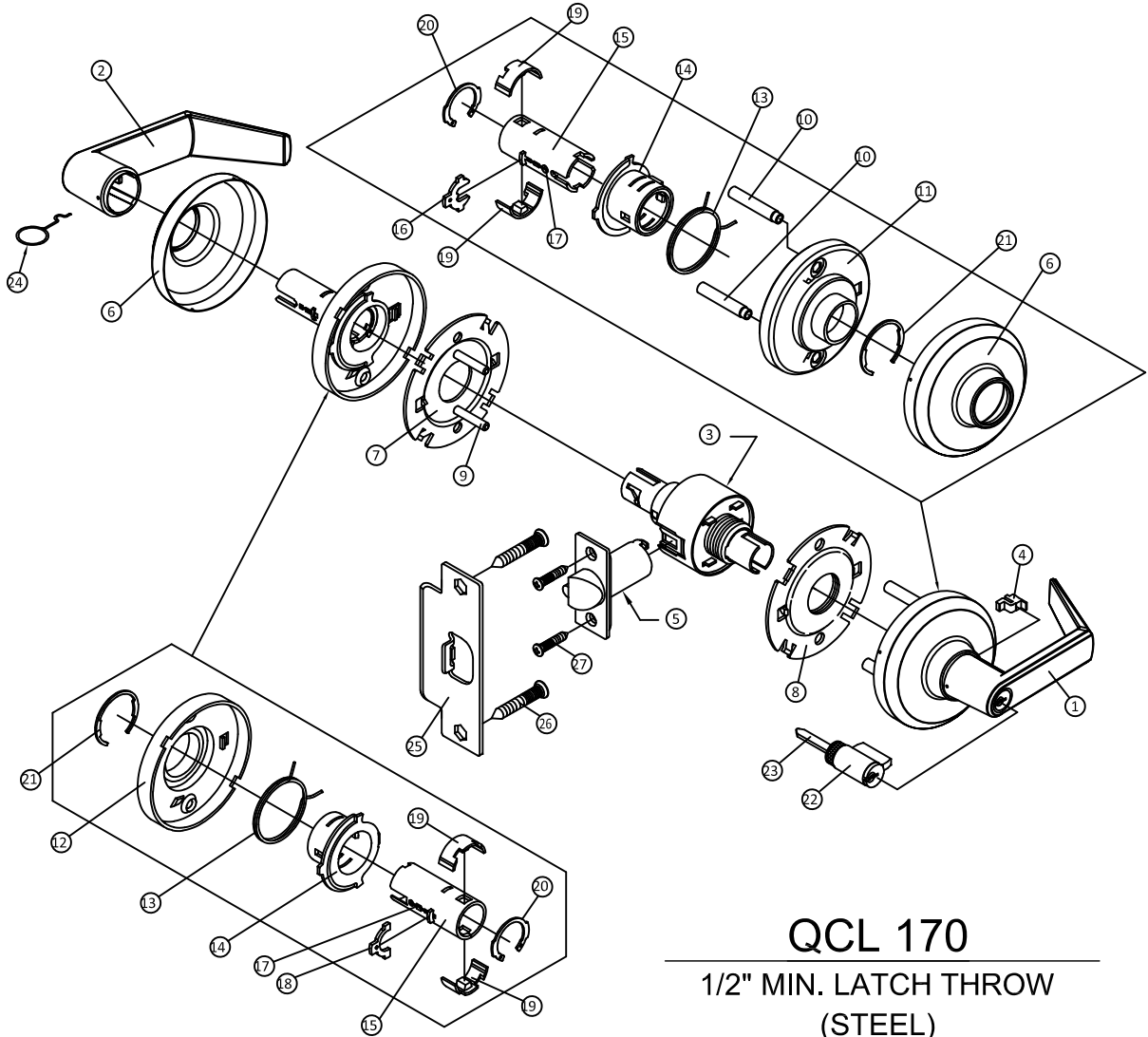
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QCL 100 SERIES CYLINDRICAL LEVERS

TO BE USED WITH
QDB SERIES 100/200 DEADBOLTS

HARDWARE MODEL (GRADE 1)

QCL 120
QCL 130
QCL 135
QCL 140
QCL 150
QCL 151
QCL 160
QCL 161
QCL 170 (SHOWN)
QCL 171



QCL 170

1/2" MIN. LATCH THROW
(STEEL)

No.	Component	Spec	QTY	Remark
1	ENTRY LEVER	ZINC ALLOY	1	
2	PASSAGE LEVER	ZINC ALLOY	1	
3	#62 LOCK CHASSIS		1	
4	LEVER AIDED SLEEVE	PLASTIC	1	
5	#00 LATCH	304 PM STEEL	1	
6	ROSE	CU,SUS 0.5t	2	
7	INSIDE MOUNTING PLATE	SPCC 2.0t	1	
8	OUTSIDE MOUNTING PLATE	SPCC 2.0t	1	
9	FIXED PIN	STEEL	2	
10	SUPPORTING NUT	STEEL	2	
11	OUTSIDE ROSE PLATE	SPCC 2.0t	1	
12	INSIDE ROSE PLATE	SPCC 2.0t	1	
13	ROTATING SPRING	SWPB	2	
14	ROTATING FIXED PLATE	SPCC 1.8t	2	
15	LEVER SLEEVE SUPPORT	SPCC 2.0t	2	
16	S KEYWAY RETAINER PLATE	SPCC 2.0t	1	
17	SPRING WIRE	0.7	2	
18	INSIDE RETAINER PLATE	SPCC 2.0t	1	
19	ROTATING KEY PLATE	ZINC ALLOY	4	
20	INSIDE RETAINING RING	SK5 1.2t	2	
21	RING	SK5 1.2t	2	
22	S KEYWAY CYLINDER		1	
23	#00 TAIL PIECE	"AISI 1018 HR15N 79-97"	1	
24	LEVER CATCH TOOL	WIRE	1	
25	STRIKE PLATE-9109	SPCC,SUS 2.4t	1	
26	SCREW	#12-24 UNCx23.8	2	SAE GR. 5
27	SCREW	#8x3/4	2	



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PH: (317) 806-3288

dormakaba
TITLE: QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
QCL 170

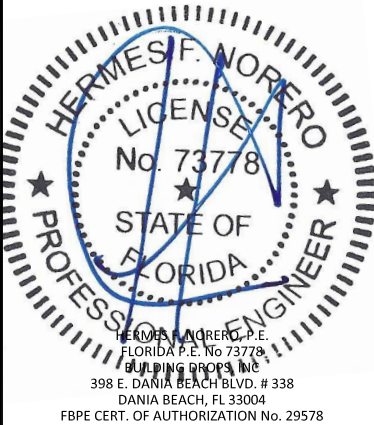
PREPARED BY:
BUILDING DROPS, INC.

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FL16202

DATE: 12.11.18

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SCALE: NTS

DWG. #: DOR003

SHEET:

11

OF 17

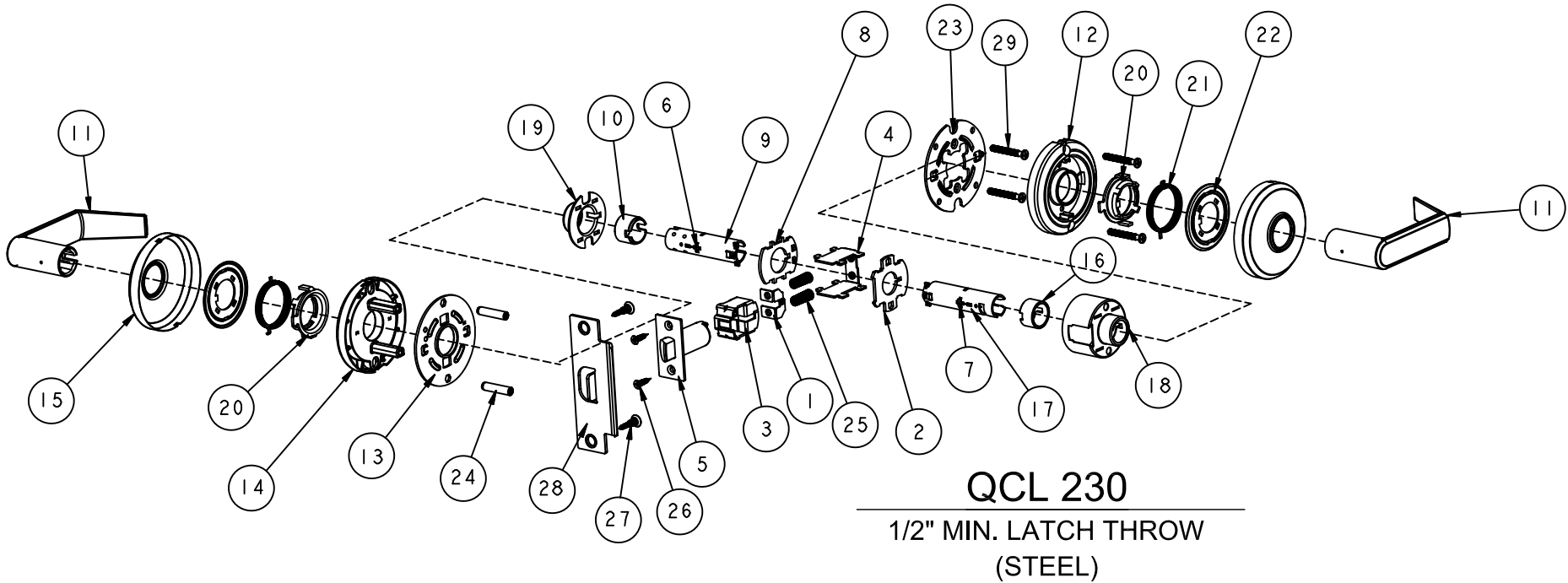
QCL 200 SERIES CYLINDRICAL LEVERS

TO BE USED WITH
QDB SERIES 100/200 DEADBOLTS

HARDWARE MODEL (GRADE 2)

- QCL 220
QCL 230 (SHOWN)
QCL 235
QCL 240
QCL 250
QCL 251
QCL 260
QCL 261
QCL 270
QCL 271

No	COMPONENT	SPEC	QTY	REMARK
1	Retractor spring plate	SPCC 0.9†	1	
2	Inside reactor plate	SPCC 2.3†	1	
3	Retractor	SPCC 1.6†	1	
4	Retractor sleeve	SPCC 1.4†	1	
5	Latch (Spring Loaded)	304 PM STEEL	1	
6	Retainer plate	SPCC 2.0†	1	
7	Inside retainer plate	SPCC 2.0†	1	
8	Outside reactor plate	SPCC 2.3†	1	
9	Outside spindle	SPCC 1.5†	1	
10	Seady bushing	FC-0208-40	1	
11	Passage lever	ZAMK 3	2	
12	Inside rose mounting	ZAMK	1	
13	Outside mounting plate	SPCC 2.0†	1	
14	Outside spindle	ZAMK	1	
15	Rose	C2600, SUS304 0.5†	2	
16	Inside seady bushing	ZAMAK 8	1	
17	Inside spindle	SPCC 1.5†	1	
18	Cylinder case	SPCC 0.9†	1	
19	Outside sleeve support	SPCC 1.2†	1	
20	Turning mounting	SPCC 2.0†	2	
21	Turning spring	SWPB	2	
22	Turning plate	SPCC 1.2†	2	
23	Inside mounting plate	SPCC 2.0†	1	
24	Supporting nut	Steel	2	
25	Retractor spring	SWB	2	
26	EA Twin thread wood screw	#8x19	2	
27	EA Twin thread screw	#12x23.8	2	SAE GR. 5
28	Strike	SUS	1	
29	FC Monting screw	M5x38	4	



dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE:
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET

QCL 230

PREPARED BY:

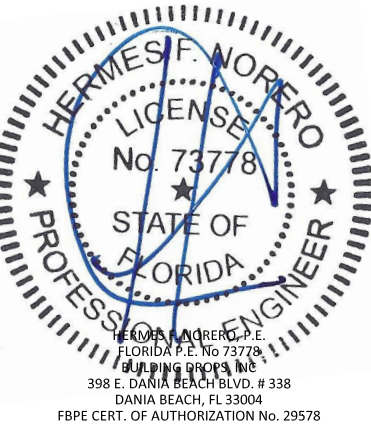
BUILDING DROPS, INC.

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FL16202

DATE: 12.11.18

DWG. BY:
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HFN

SCALE: NTS

DWG. #: DOR003

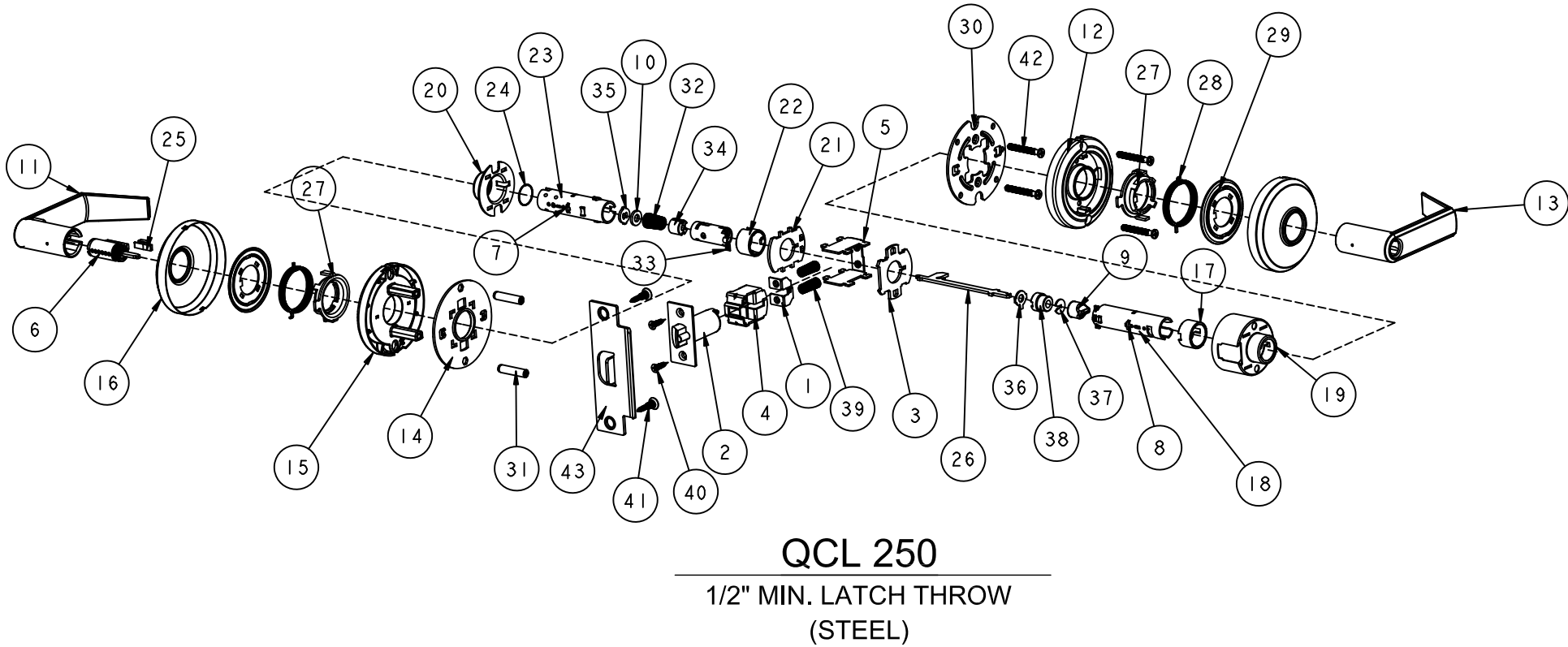
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12

OF 17

No	COMPONENT	SPEC	QTY	REMARK	No	COMPONENT	SPEC	QTY	REMARK
1	Retractor spring plate	SPCC 0.9†	1		23	Outside spindle	SPCC 1.5†	1	
2	Latch (Spring Loaded)	304 PM STEEL	1		24	Outside spindle washer	SWC	1	
3	Inside reactor plate	SPCC 2.3†	1		25	Lever aided sleeve	ABS	1	
4	Retractor	SPCC 1.6†	1		26	Button stem	SPCC 2.3†	1	
5	Retractor sleeve	SPCC 1.4†	1		27	Turning mounting	SPCC 2.0†	2	
6	Clinder		1		28	Turning spring	SWPB	2	
7	Retainer plate	SPCC 2.0†	1		29	Turning plate	SPCC 1.2†	2	
8	Inside retainer plate	SPCC 2.0†	1		30	Inside mounting plate	SPCC 2.0†	1	
9	Button leeve	SUS,CU 0.4†	1		31	Supporting nut		2	
10	Key locking ring	SPCC 2.0†	1		32	Key turn spring	SWB	1	
11	Entry lever	ZAMK 3	1		33	key turn spindle	SPCC 1.5†	1	
12	Inside rose mounting	ZAMK	1		34	Turn push mounting	Stainless powder metallurgy	1	
13	Inside lever	ZAMK 3	1		35	Turn plate	SPCC 2.0† 15N80° ~85°	1	
14	Outside mounting plate	SPCC 2.0†	1		36	Entry up button washer	SPCC 1.4†	1	
15	Outside rose mounting	ZAMK	1		37	Down button washer	SPCC 1.2†	1	
16	Rose	C2600,SUS304 0.5†	2		38	Plstic button	ABS	1	
17	inside steady bushing	ZAMAK 8	1		39	Retvactor spring	SWB	2	
18	Inside spindle	SPCC 1.5†	1		40	EA Twin thread wood screw	#8x19	2	
19	Cylinder case	SPCC 0.9†	1		41	EA Twin thread screw	#12x23.8	2	SAE GR. 5
20	Outside sleeve support	SPCC 1.2†	1		42	FC Monting screw	M5x38	4	
21	Outside reactor plate	SPCC 2.3†	1		43	Strike	SUS	1	
22	Outside steady bushing	ZAMK	1						

QCL 200 SERIES CYLINDRICAL LEVERS	
TO BE USED WITH QDB SERIES 100/200 DEADBOLTS	
HARDWARE MODEL (GRADE 2)	
QCL 220	
QCL 230	
QCL 235	
QCL 240	
QCL 250 (SHOWN)	
QCL 251	
QCL 260	
QCL 261	
QCL 270	
QCL 271	



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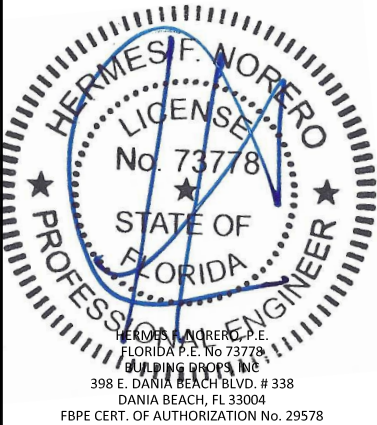
TITLE: **dormakaba**
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
QCL 250

PREPARED BY: **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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DATE: 12.11.18

DWG. BY: SM

CHK. BY: HFN

SCALE: NTS

DWG. #: DOR003

SHEET:

13

	
dormakaba USA Inc. 6161 E. 75TH STREET INDIANAPOLIS, IN 46250 PH: (317) 806-3288	
TITLE: <i>dormakaba</i> QDB SERIES DEADBOLTS WITH QCL & QTL SERIES LEVERSET QCL 270	PREPARED BY: BUILDING DROPS, INC. 308 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 PH: (954)399-8478 FAX: (954)744.4738 WEB: www.buildingdrops.com 

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FL16202	
DATE: 12.11.18	
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SCALE: NTS	
DWG. #: DOR003	
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OF 17	

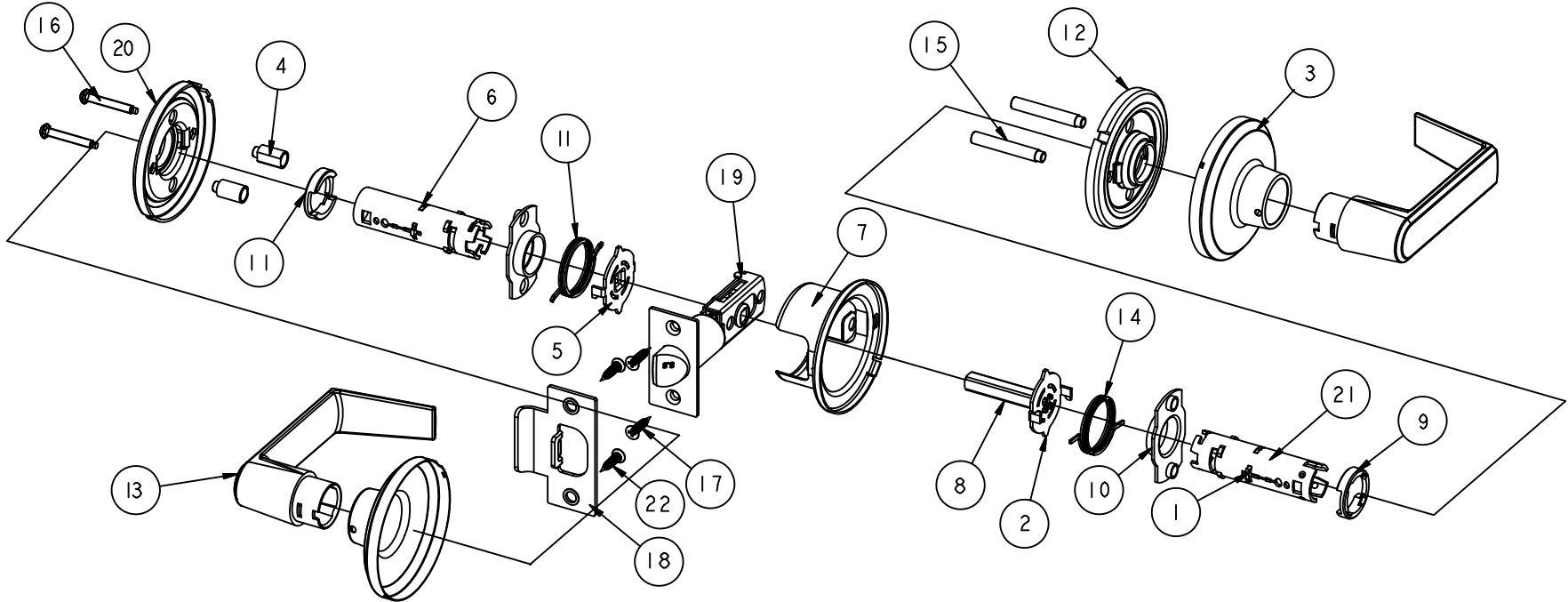
This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor. The parts are numbered 1 through 38. The assembly sequence generally proceeds from the left side (input/output shafts) towards the right side (housing and mounting). Key components include a shaft assembly (10, 6, 24, 27, 26, 25, 14, 13, 29, 38, 36), a central rotor or impeller assembly (19, 23, 7, 33, 9, 30, 32, 21, 20, 2, 4, 1, 34, 5, 31, 3), and a housing assembly (28, 37, 12, 8, 16, 18, 11). The diagram shows the relative positions and assembly order of these parts.

QCL 270
1/2" MIN. LATCH THROW
(STEEL)

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QTL 200 SERIES TUBULAR LEVERS
TO BE USED WITH QDB SERIES 100/200 DEADBOLTS
HARDWARE MODEL (GRADE 2)
QTL 230 (SHOWN)
QTL 240
QTL 250
QTL 251
QTL 260
QTL 261
QTL 270
QTL 271

No	COMPONENT	SPEC	QTY	REMARK
1	Retainer plate	SPCC 2.0†	1	
2	Outside turning plate	SPCC 1.5†	1	
3	Rose	C2600, SUS304 0.5†	2	
4	Inside supporting nut	Free cutting iron	2	
5	Inside turning plate	SPCC 1.5†	1	
6	Inside spindle	SPCC 1.5†	2	
7	Fixed cylinder housing	SPCC 0.9†	1	
8	Roating stem	Steel	1	
9	Locking ring	Powder metallurgy	2	
10	Turning mounting	SPCC 1.5†	2	
11	Inside turning spring	SWPB	1	
12	Rose plate	SPCC 1.4†	2	
13	Passage lever	ZAMK 3	2	
14	Turning spring	SWPB	1	
15	Supporting nut	Free cutting iron	2	
16	TA screw	#8x24	2	
17	EA Twin thread screw	#8x19	4	SAE GR. 5
18	Strike	SUS	1	
19	Latch (Spring Loaded)	304 PM Steel	1	
20	Rose plate	SPCC 1.4†	2	
21	Entry outside spirdle	SPCC 1.5†	1	
22	EA Twin thread screw	#12x23.8	2	SAE GR. 5



QTL 230
1/2" MIN. LATCH THROW
(STEEL)



dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

TITLE:

QDB SERIES DEADBOLTS WITH QCL & QTL SERIES LEVERSET

dormakaba

QTL 230

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

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FAX: (954)744-4738

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

FLORIDA P.E. No 73778

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD. # 338

DANIA BEACH, FL 33004

FBPE CERT. OF AUTHORIZATION No. 29578

FL16202

DATE: 12.11.18

DWG. BY:	CHK. BY:
SM	HFN

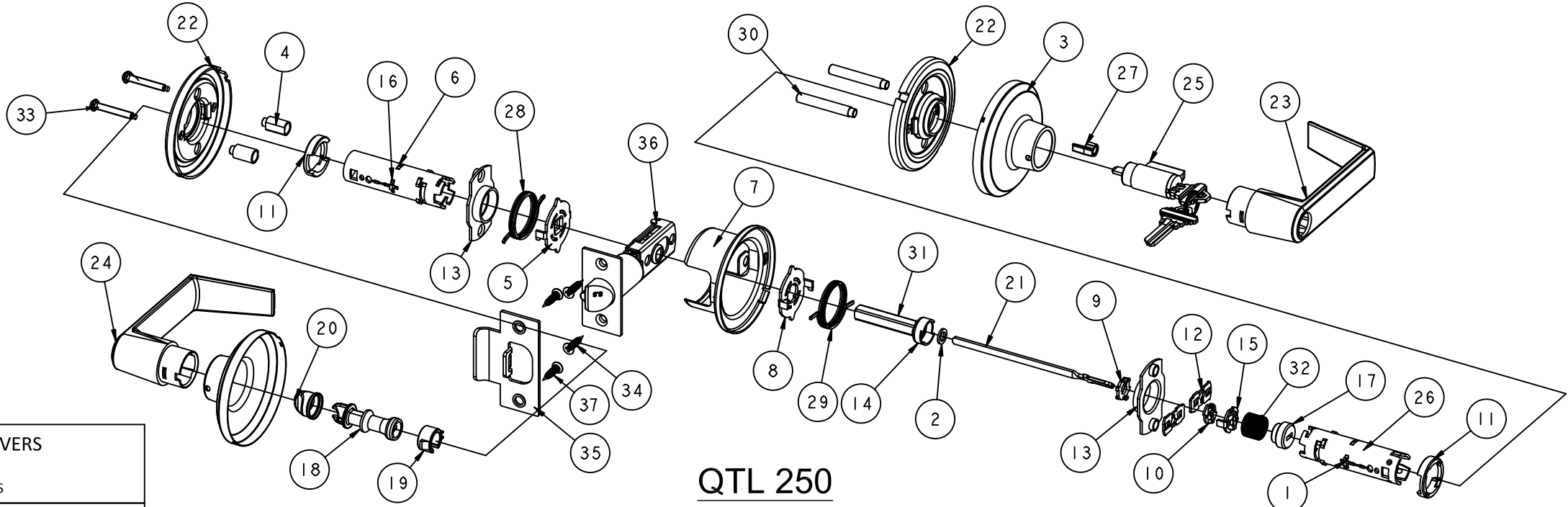
SCALE: NTS

DWG. #: DOR003

SHEET:

15

Nº	COMPONENT	SPEC	QTY	REMARK	Nº	COMPONENT	SPEC	QTY	REMARK
1	Retainer plate	SPCC 2.0†	1		20	Turn button Cover	SUS304, C2600 0.4†	1	
2	Steady piece	SPCC 1.2†	1		21	Entry turn button stem	SPCC 2.0†15N80~85°	1	
3	Rose	C2600, SUS304 0.5†	2		22	Rose plate	SPCC 1.4†	2	
4	Inside supporting nut	Free cutting iron	2		23	Entry lever	ZAMK 3	1	
5	Inside turning plate	SPCC 1.5†	1		24	Inside lever	ZAMK 3	1	
6	Outside spindle	SPCC 1.5†	1		25	Cylinder		1	
7	Fixed cylinder housing	SPCC 0.9†	1		26	Entry outside spirdle	SPCC 1.5†	1	
8	Outside turning plate	SPCC 1.5†	1		27	Lever aided sleeve	ABS	1	
9	Locking recover plate	SPCC 1.6†15N70~75°	1		28	Inside turning spring	SWPB	1	
10	Locking Fixed plate	SPCC 1.2†	1		29	Turning spring	SWPB	1	
11	Locking ring	Powder metallurgy	2		30	Supporting nut	Free cutting iron	2	
12	Locking plate	SPCC 1.2†15N80~85°	2		31	Roating stem	Steel	1	
13	Turning mounting	SPCC 1.5†	2		32	Locking spring	SWC Ø0.7	1	
14	Turning stem mounting	SPCC 1.2T	1		33	TA screw	#8x24	2	
15	Roating key plate	SPCC 1.4†15N70~75°	1		34	EA Twin thread screw	#8x19	4	SAE GR. 5
16	Retainer plate	SPCC 2.0†	1		35	Strike	SUS	1	
17	Cylinder lock turn mounting	Powder metallurgy	1		36	Latch (Spring Loaded)	304 PM Steel	1	
18	Turn button	POM	1		37	EA Twin thread screw	#12x23.8	2	SAE GR. 5
19	Turn button mounting	POM	1						



QTL 250
1/2" MIN. LATCH THROW
(STEEL)

QTL 200 SERIES TUBULAR LEVERS	
TO BE USED WITH	
QDB SERIES 100/200 DEADBOLTS	
HARDWARE MODEL (GRADE 2)	
QTL 230	
QTL 240	
QTL 250 (SHOWN)	
QTL 251	
QTL 260	
QTL 261	
QTL 270	
QTL 271	



dormakaba USA Inc.
6161 E. 75TH STREET
INDIANAPOLIS, IN 46250
PH: (317) 806-3288

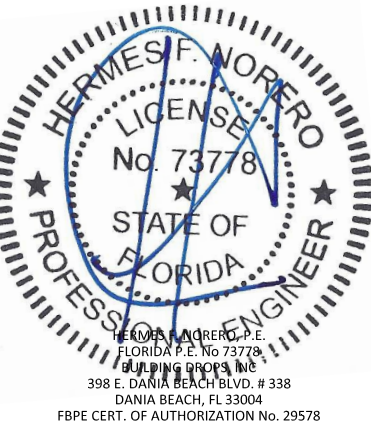
TITLE: **dormakaba**
QDB SERIES DEADBOLTS WITH QCL & QTL
SERIES LEVERSET
QTL 250

PREPARED BY: **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC 2020 UPDATE	LL	07/22

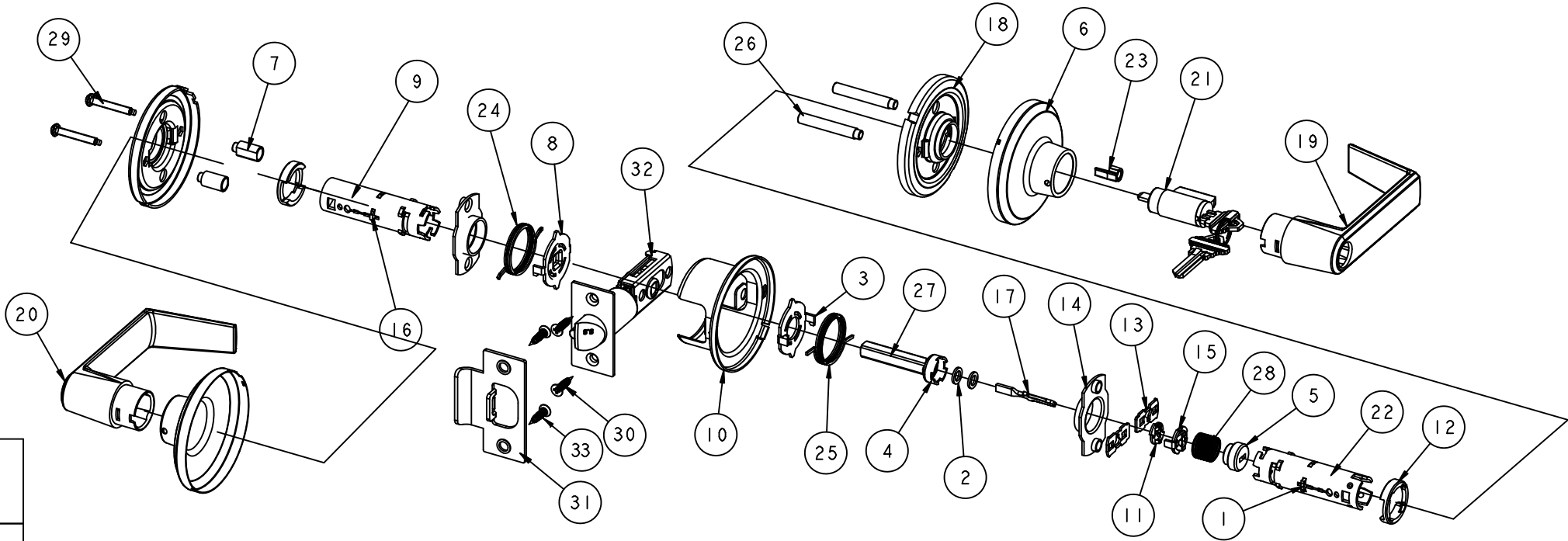
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL16202

DATE:	12.11.18	
DWG. BY:	SM	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	DOR003	
SHEET:	16	

No	COMPONENT	SPEC	QTY	REMARK	No	COMPONENT	SPEC	QTY	REMARK
1	Retainer plate	SPCC 2.0t	1		20	Passage lever	ZAMK 3	1	
2	Inside retainer plate	SPCC 1.2t	2		21	Cylinder		1	
3	Outside turning plate	SPCC 1.5t	1		22	Entry outside spindle	SPCC 1.5t	1	
4	Turning stem mounting	SPCC 1.2T	1		23	Lever aided sleeve	ABS	1	
5	Cylinder lock turn mounting	Powder metalluigy	1		24	Inside turning spring	SWPB	1	
6	Rose	C2600,SUS304 0.5t	2		25	Turning spring	SWPB	1	
7	Inside supdrting nut	Free cutting iron	2		26	Supporting nut	Free cutting iron	2	
8	Inside turning plate	SPCC 1.5t	1		27	Roating stem	Steel	1	
9	Inside spindle	SPCC 1.5t	1		28	Locking spring	SWC Ø0.7	1	
10	Fixed cylinder housing	SPCC 0.9t	1		29	TA screw	#8x24	2	
11	Locking fixed plate	SPCC 1.2t	1		30	EA Twin thread screw	#8x19	4	SAE GR. 5
12	Locking ring	Powder metalluigy	2		31	Strike	SUS	1	
13	Locking plate	SPCC 1.2t15N80~85°	2		32	Latch (Spring Loaded)	304 PM Steel	1	
14	Turning mounting	SPCC 1.5t	2		33	EA Twin Thread Screw	#12 x 23.8	2	SAE GR. 5
15	Roating key plate	SPCC 1.4t15N70~75°	1						
16	Retainer plate	SPCC 2.0t	1						
17	Turn button stem	SPCC 2.0t15N80~85°	1						
18	Rose plate	SPCC 1.4t	2						
19	Entry lever	ZAMK 3	1						



QTL 270
1/2" MIN. LATCH THROW
(STEEL)

QTL 200 SERIES TUBULAR LEVERS	
TO BE USED WITH QDB SERIES 100/200 DEADBOLTS	
HARDWARE MODEL (GRADE 2)	
QTL 230	
QTL 240	
QTL 250	
QTL 251	
QTL 260	
QTL 261	
QTL 270 (SHOWN)	
QTL 271	



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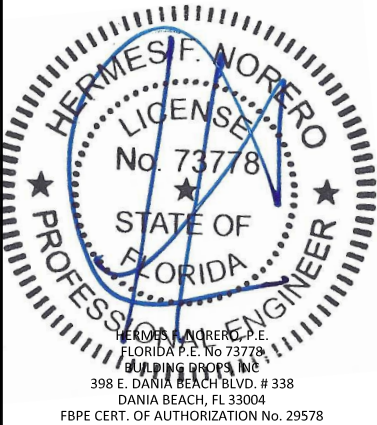
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17