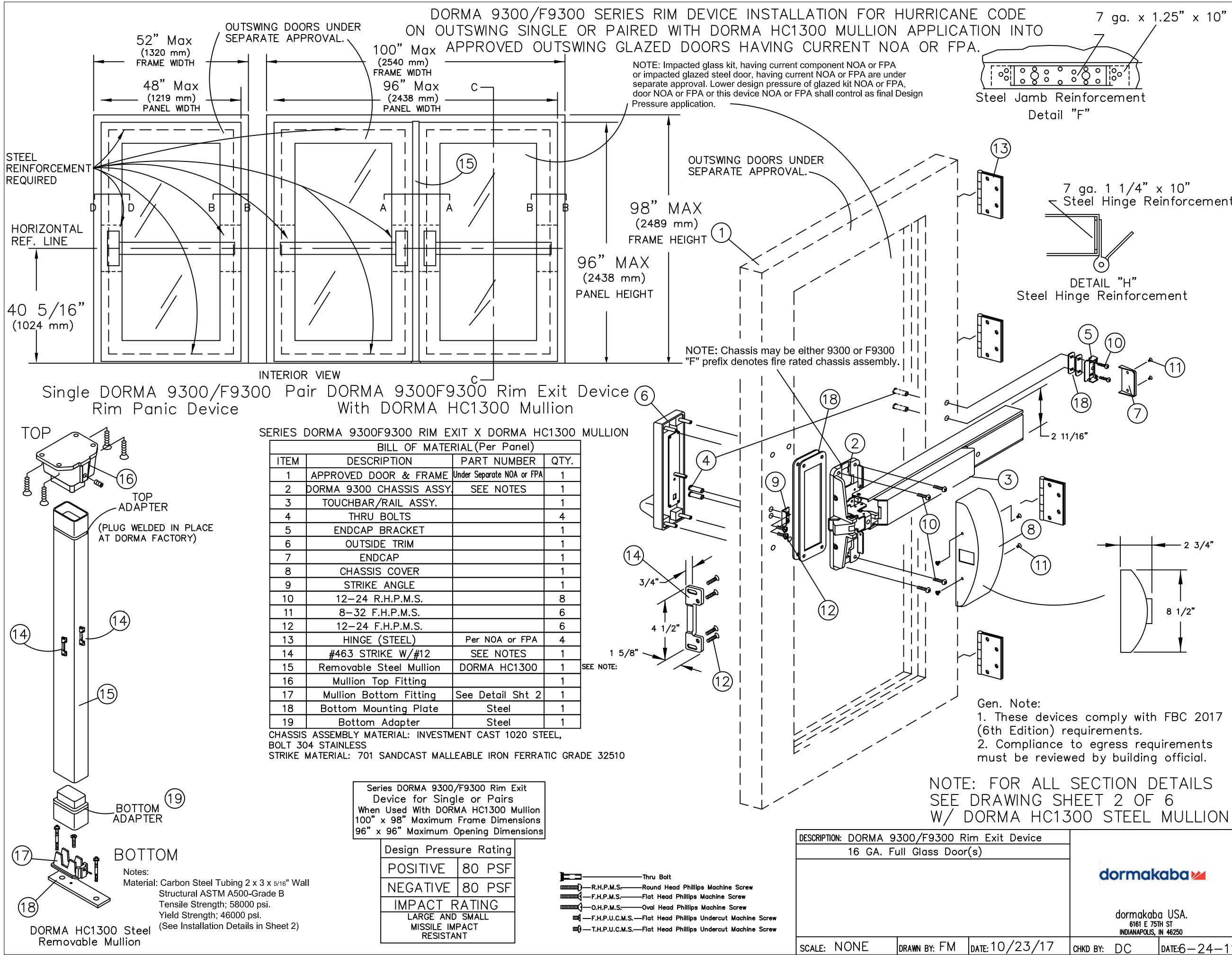




GENERAL NOTES

LIMITATIONS:

- Device complies with the current FBC and has been tested to TAS 201-94, 202-94 and 203-94.
- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA or FPA. Lowest Design Pressure Rating shall apply.
- Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
- Steel reinforcement required as indicated on detail drawings.
- Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:
Underwriter's Laboratories – UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device 3/4" Minimum latchbolt throw
All reinforcements to be spot welded or better by door manufacturer.
Frame: Steel 16ga Min. (.060 min.) Door: Steel 16ga Min. (.060 min.) Top & bottom rails– reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/ Hinge Stile reinforced with 12ga steel box channel full length. Strike/Hinge locations reinforced with 7ga steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model DORMA 9300 Series Rim Outside trim may be one of the following prefix designations: NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Building Drops, Inc.
1900 NE Miami Court Suite 2-1
Miami, FL 33132
FBPE Cert. of Authorization No. 29578

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.05.01 17:13:21 -0400
Hermes F. Norero, P.E.
Florida PE No. 73778

REVISIONS

NO.	BY	DATE
15		04-23-2024
12	FM	10-23-2017
11	LS	06-16-2015
10	TA	06-23-2011
9	TA	03-21-2011
8	TA	12-12-2007
7	TA	07-26-2007
6	TA	07-06-2007

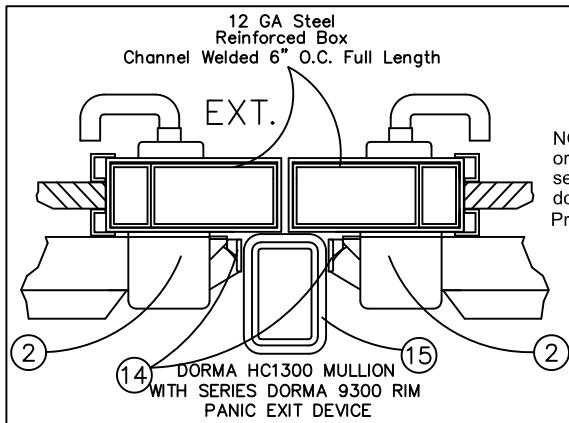
DWG. 1 OF 6

DWG. NO. 9000-003

DESCRIPTION: DORMA 9300/F9300 Rim Exit Device
16 GA. Full Glass Door(s)

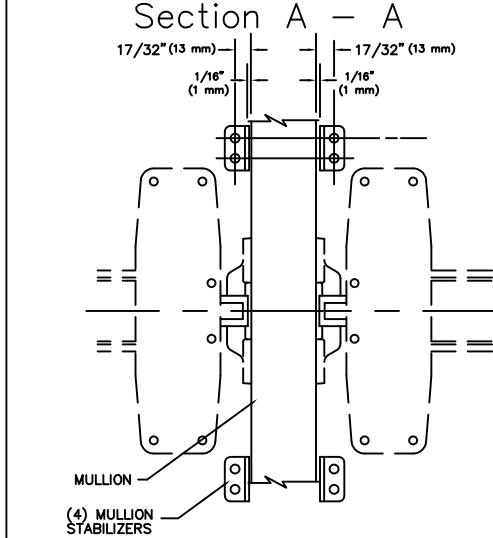
dormakaba USA.
6161 E 75TH ST
INDIANAPOLIS, IN 46250

SCALE: NONE
DRAWN BY: FM
DATE: 10/23/17
CHKD BY: DC
DATE: 6-24-11



NOTE: Impacted glass kit, having current component NOA or FPA or impacted glazed steel door, having current NOA or FPA are under separate approval. Lower design pressure of glazed kit NOA or FPA, door NOA or FPA or this device NOA or FPA shall control as final Design Pressure application.

Notes:
Material:
Carbon Steel Tubing 2 x 3 x 5/16 Wall
Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.

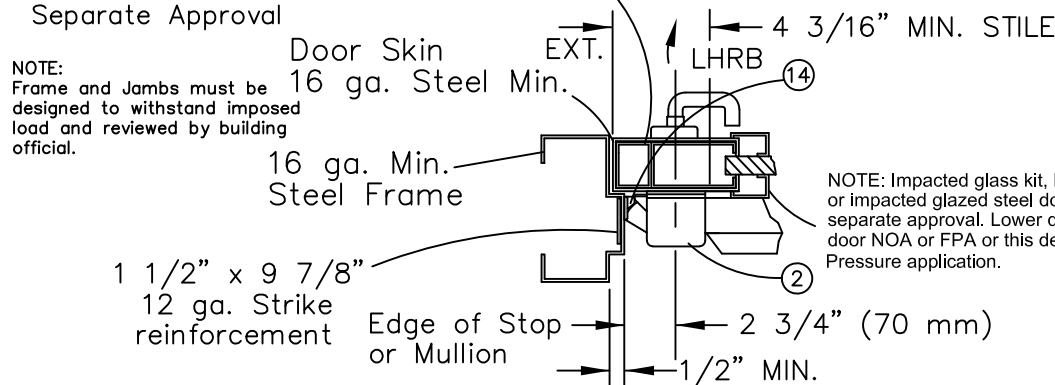


NOTE: Chassis may be either 9300 or F9300
"F" prefix denotes fire rated chassis assembly.

12 ga. Steel Box Channel
Welded @ 6" o.c. Full Length.

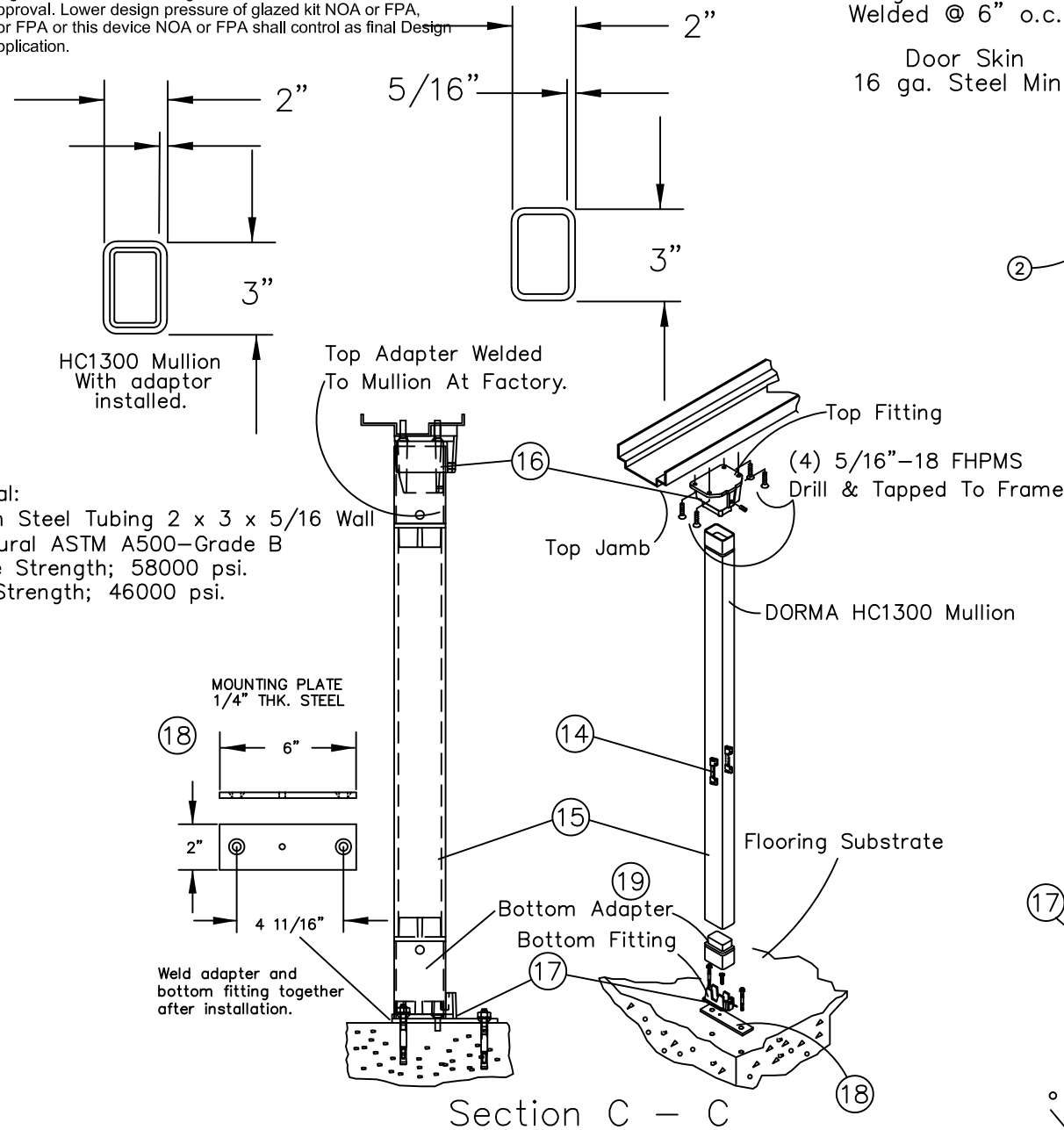
Outswing Doors Under
Separate Approval

NOTE:
Frame and Jambs must be
designed to withstand imposed
load and reviewed by building
official.

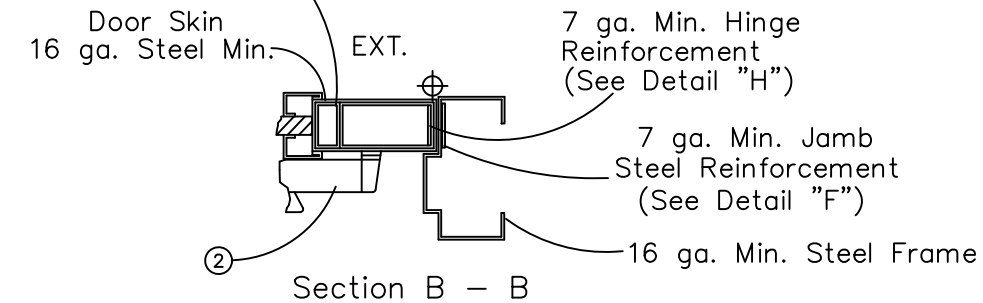


VERTICAL REF. LINE
Section D - D
OUTSWING SINGLE DOOR

DORMA 9300/F9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE ON OUTSWING SINGLE OR PAIRED WITH DORMA HC1300 MULLION APPLICATION INTO APPROVED OUTSWING GLAZED DOORS HAVING CURRENT NOA OR FPA.

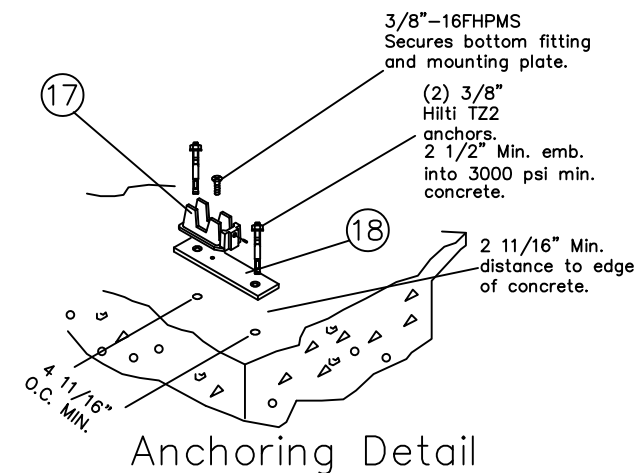


12 ga. Steel Box Channel
Welded @ 6" o.c. Full Length. Outswing Doors Under
Separate Approval



Series DORMA 9300/F9300 Rim Exit
Device for Single or Pairs
When Used With DORMA HC1300 Mullion
96" x 96" Maximum Opening
100" x 98" Maximum Frame Dimensions

Design Pressure Rating	
POSITIVE	80 PSF
NEGATIVE	80 PSF
IMPACT RATING	
LARGE AND SMALL MISSILE IMPACT RESISTANT	



GENERAL NOTES

- LIMITATIONS:**
1. Device complies with the current FBC and has been tested to TAS 201-94, 202-94 and 203-94.
 2. Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA or FPA. Lowest Design Pressure Rating shall apply.
 3. Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
 4. Steel reinforcement required as indicated on detail drawings.
 5. Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.
- Certification:**
Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw
All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.
Strike/Hinge locations reinforced with 7ga Steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model 9300 Series Rim
Outside trim may be one of the following prefix designations:
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Building Drops, Inc.
1900 NE Miami Court Suite 200
Miami, FL 33132
FBPE Cert. of Authorization No. 29576

HERMES F. NORERO
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Hermes F. Norero, P.E.
Florida License No. 73778

DESCRIPTION: DORMA 9300/F9300 Rim Exit Device
16 GA. Full Glass Door(s)

dormakaba

dormakaba USA.
6161 E 75TH ST
INDIANAPOLIS, IN 46250

SCALE: NONE

DRAWN BY: FM

DATE: 10/23/17

CHKD BY: DC

DATE: 6-24-11

Mullion Anchor Update	13	DM	04-23-2024
6th Edition FBC Update	12	FM	10-23-2017
5th Edition FBC Update	11	LS	06-16-2015
Rev. Print	10	TA	06-23-2011
Rev. Print	9	TA	03-21-2011
Rev. Print	8	TA	12-12-2007
Rev. Print	7	TA	07-26-2007
Rev. Print	6	TA	07-06-2007
REVISIONS	NO.	BY	DATE

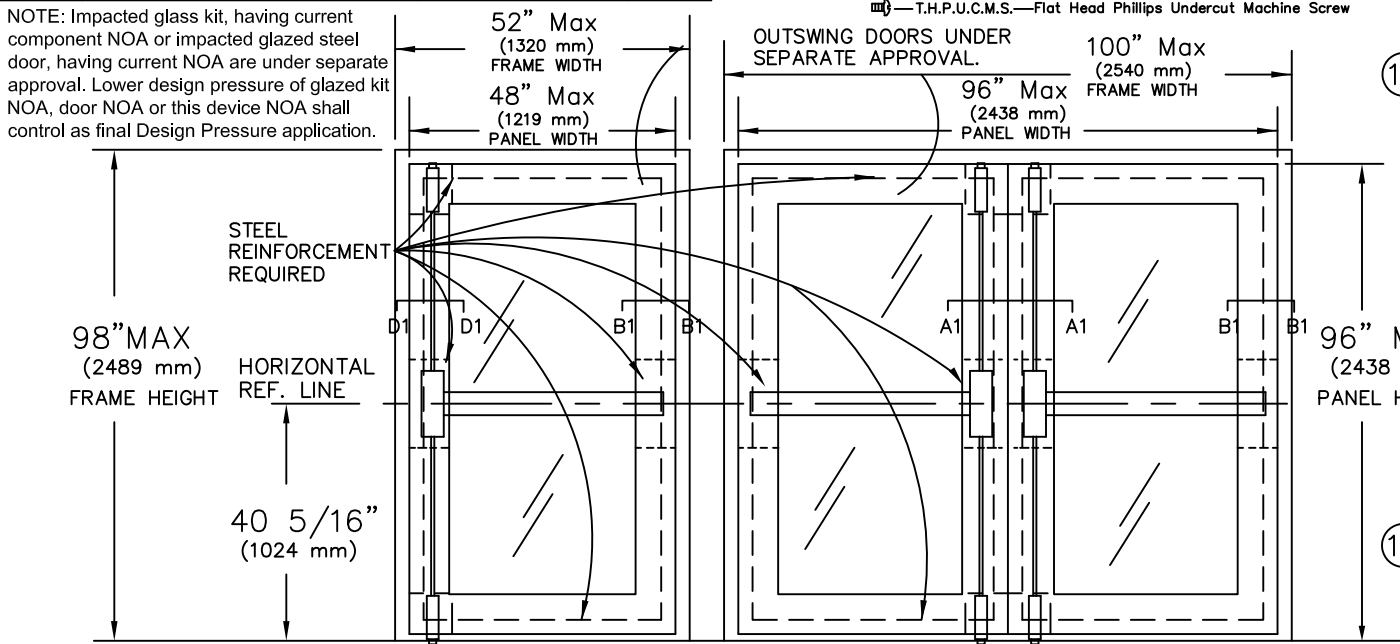
DWG. 2 OF 6

DWG. NO.

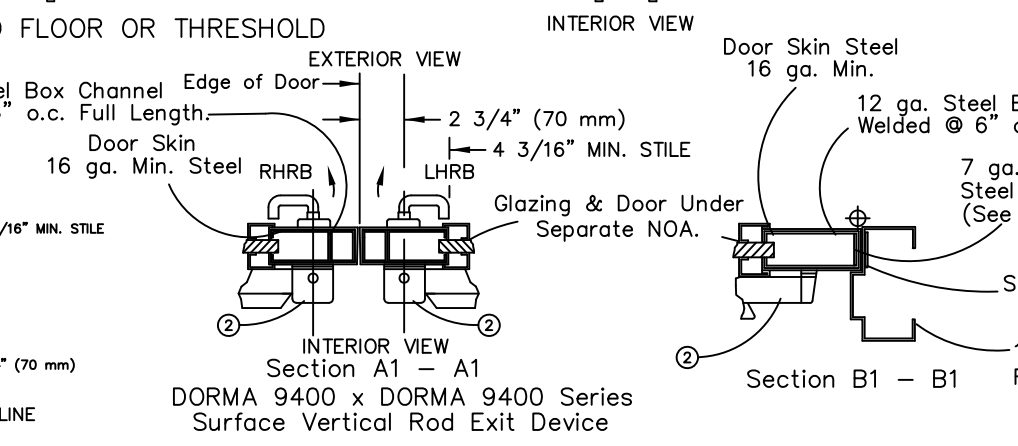
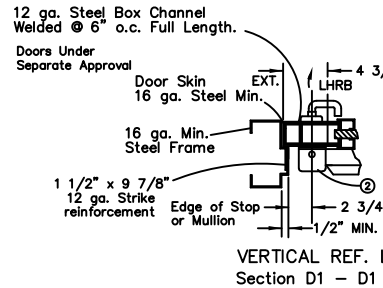
9000-003

DORMA 9400/F9400 SURFACE VERTICAL ROD EXIT DEVICE			
BILL OF MATERIAL (Per Panel)			
ITEM	DESCRIPTION	PART NUMBER	QTY.
1	APPROVED DOOR & FRAME	Under Separate NOA	1
2	DORMA 9400 CHASSIS ASSY.	ALUMINUM	1
3	TOUCHBAR/RAIL ASSY.		1
4	THRU BOLTS		8
5	ENDCAP BRACKET		1
6	OUTSIDE TRIM		1
7	ENDCAP		1
8	CHASSIS COVER		1
9	STRIKE ANGLE	STAINLESS STEEL	1
10	12-24 R.H.P.M.S.		12
11	8-32 F.H.P.M.S.		10
12	ROD RETAINING PLATE		2
13	HINGES	PER NOA	4
14	TOP LATCH ASSEMBLY	STEEL	1
15	#426 TOP STRIKE PACK W/ #26	SANDCAST GRAY IRON CLASS 20	1
16	TOP CONNECTING ROD	1/2" O.D. STAINLESS TUBING	1
17	BOTTOM CONNECTING ROD	1/2" O.D. STAINLESS TUBING	1
18	8-32 x 3/4" R.H.P.M.S.		2
19	BOTTOM LATCH BRACKET		1
20	SLIDE BOLT ASSEMBLY	STEEL	1
21	LATCH COVER		2
22	#340 BOTTOM STRIKE PLATE	STEEL	8
23	ROD GUIDE		2
24	#6 x 1 1/4" F.H.P.T.S.		4
25	ROD GUIDE COVER		2
26	#12-24 x 3/4" OHPMS		2

NOTE: Impacted glass kit, having current component NOA or impacted glazed steel door, having current NOA are under separate approval. Lower design pressure of glazed kit NOA, door NOA or this device NOA shall control as final Design Pressure application.



NOTE: Frame and Jamb must be designed to withstand imposed load and reviewed by building official.



DORMA 9400/F9400 SERIES SURFACE VERTICAL ROD ON OUTSWING SINGLE OR PAIRED APPLICATION ON APPROVED OUTSWING GLAZED DOORS HAVING CURRENT NOA or FPA.

TYPICAL SURFACE VERTICAL ROD INSTALLATION
LEFT HAND REVERSE BEVEL SHOWN
RIGHT HAND REVERSE BEVEL OPPOSITE

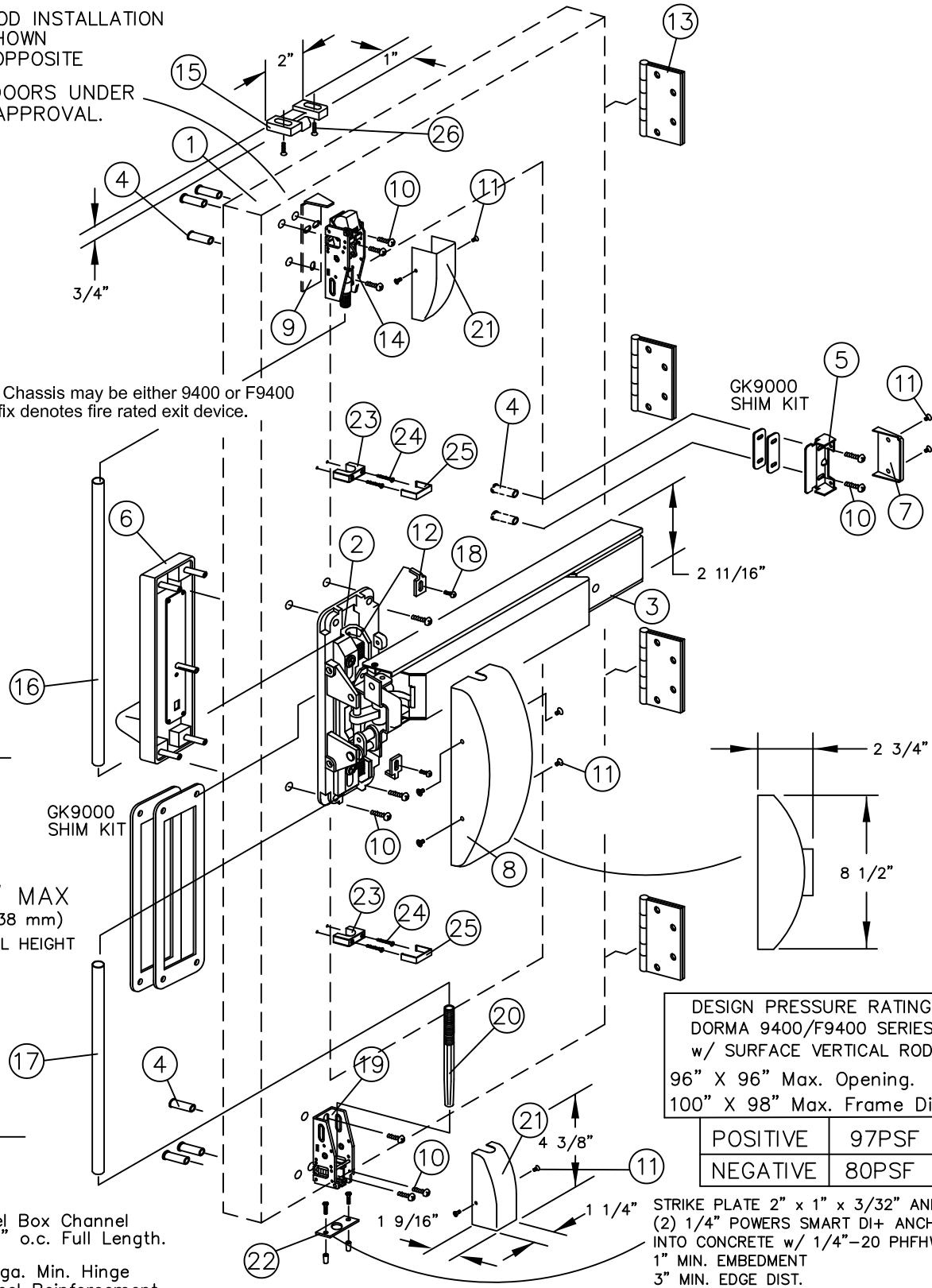
OUTSWING DOORS UNDER SEPARATE APPROVAL.

DETAIL "H"
Steel Hinge Reinforcement
7 ga. 1 1/4" x 10"

DETAIL "F"
Steel Jamb Reinforcement
7 ga. x 1.25" x 10"

- Thru Bolt
- R.H.P.M.S.—Round Head Phillips Machine Screw
- F.H.P.M.S.—Flat Head Phillips Machine Screw
- O.H.P.M.S.—Oval Head Phillips Machine Screw
- F.H.P.U.C.M.S.—Flat Head Phillips Undercut Machine Screw
- T.H.P.U.C.M.S.—Flat Head Phillips Undercut Machine Screw

NOTE: Chassis may be either 9400 or F9400
"F" prefix denotes fire rated exit device.



DESIGN PRESSURE RATING
DORMA 9400/F9400 SERIES
w/ SURFACE VERTICAL RODS
96" X 96" Max. Opening.
100" X 98" Max. Frame Dim.

POSITIVE	97PSF
NEGATIVE	80PSF

STRIKE PLATE 2" x 1" x 3/32" AND
(2) 1/4" POWERS SMART DI+ ANCHOR
INTO CONCRETE w/ 1/4"-20 PHFHWS
1" MIN. EMBEDMENT
3" MIN. EDGE DIST.

DESCRIPTION: DORMA 9400/F9400 Surface Vertical Rod
Exit Device 16 GA. Full Glass Door(s)

dormakaba

dormakaba USA.
6161 E 75TH ST
INDIANAPOLIS, IN 46250

SCALE: NONE

DRAWN BY: FM

DATE: 10/23/17

CHKD BY: DC

DATE: 6-24-11

GENERAL NOTES

LIMITATIONS:

- Device complies with the current FBC and has been tested to TAS 201-94, 202-94 and 203-94.
- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA or FPA. Lowest Design Pressure Rating shall apply.
- Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
- Steel reinforcement required as indicated on detail drawings.
- Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:

Underwriter's Laboratories – UL10C, UBC 7-2 (1997)

ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw top & bottom.

All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)

Door: Steel 16ga Min. (.060 min.) Top & bottom rails– reinforced w/ full length 16 ga. (.060 min.) Steel Channel.

Lock Stile/ Hinge Stile reinforced with 12ga steel box channel full length.

Strike/Hinge locations reinforced with 7ga steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.

Exit device Model DORMA 9400 Series Surface Vertical Rod Exit Device.

Outside trim may be one of the following prefix designations:

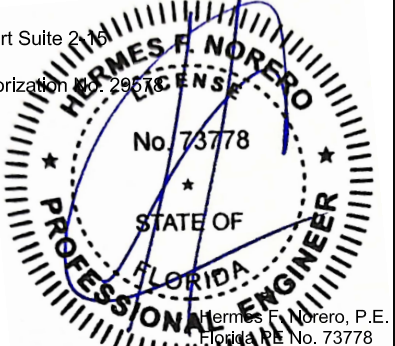
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.

Thru bolts must be used on all installations as shown.

Interlocking strike angle must be installed on all installations as shown.

Quantities double for the opposite doors.

Building Drops, Inc.
1900 NE Miami Court Suite 200
Miami, FL 33132
FBPE Cert. of Authorization No. 29516



Mullion Anchor Update	13	FM	04-23-2024
6th Edition FBC Update	12	FM	10-23-2017
5th Edition FBC Update	11	LS	06-16-2015
Rev. Print	10	TA	06-23-2011
Rev. Print	9	TA	03-21-2011
Rev. Print	8	TA	12-12-2007
Rev. Print	7	TA	07-26-2007
Rev. Print	6	TA	07-06-2007
REVISIONS	NO.	BY	DATE

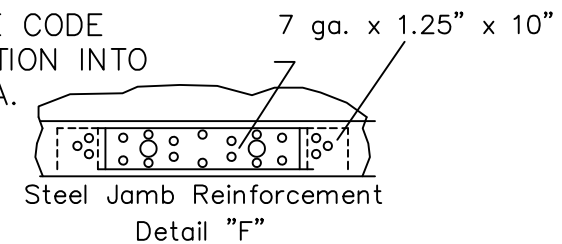
DWG. 3 OF 6

DWG. NO.

9000-003

GENERAL NOTES

LIMITATIONS:



7 ga. 1 1/4" x 10"
Steel Hinge Reinforcement

NOTE: Chassis may be either 9300 or F9300
"F" prefix denotes fire rated chassis assembly.

SERIES DORMA 9300/F9300 RIM PANIC W/ DORMA HC1300 MULLION

NOTE: FOR ALL SECTION DETAILS
SEE DRAWING SHEET 5 OF 6
W/ DORMA HC1300 STEEL MULLION

Series DORMA 9300/F9300 Rim Exit
Device for Single or Pairs
When Used With DORMA HC1300 Mullion
96" x 96" Maximum Opening
100" x 98" Maximum Frame Dimensions

 Thru Bolt
 R.H.P.M.S. Round Head Phillips Machine Screw
 F.H.P.M.S. Flat Head Phillips Machine Screw
 O.H.P.M.S. Oval Head Phillips Machine Screw
 F.H.P.U.C.M.S. Flat Head Phillips Undercut Machine Screw
 T.H.P.U.C.M.S. Flat Head Phillips Undercut Machine Screw



SCALE: NONE	DRAWN BY: FM	DATE: 10-23-17	CHKD BY: DC	DATE: 6-24-11
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Mullion Anchor Update	13	DI	04-23-2024
6th Edition FBC Update	12	FM	10-23-2017
5th Edition FBC Update	11	LS	06-16-2015
Rev. Print	10	TA	06-23-2011
Rev. Print	9	TA	03-21-2011
Rev. Print	8	TA	12-12-2007
Rev. Print	7	TA	07-26-2007
Rev. Print	6	TA	07-06-2007
REVISIONS	NO.	BY	DATE

DWG. 4 OF 6

9000-003

HORIZONTAL
REF. LINE
↑
40 5/16"
(1024 mm)

Diagram showing two vertical lines with a bracket between them labeled 14, and a line below labeled 15.

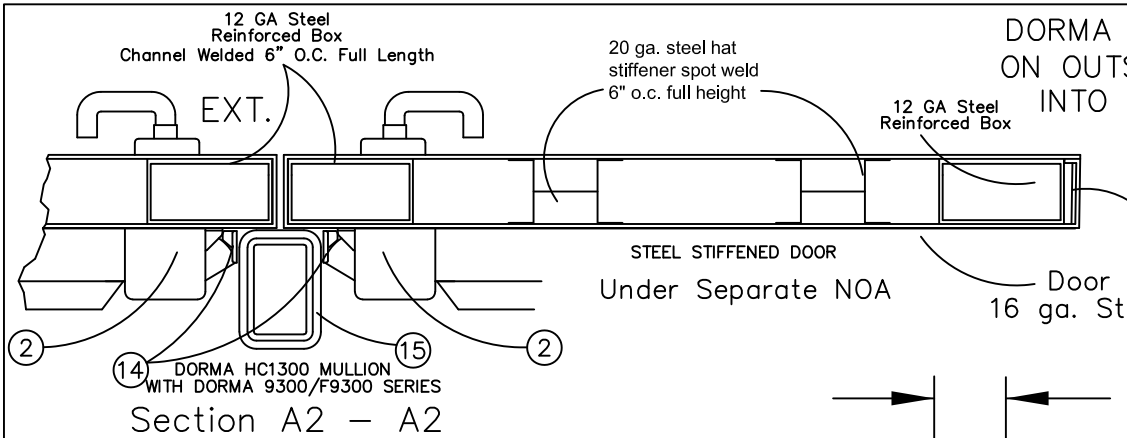


Diagram showing the bottom adapter assembly. A line points to the bottom adapter, labeled **BOTTOM ADAPTER** (19).

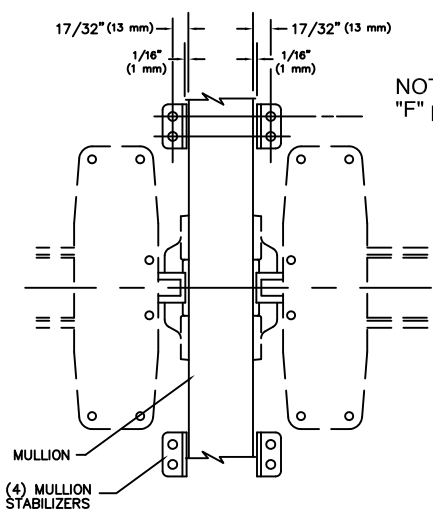
BOTTOM

Notes:
Material: Carbon Steel Tubing 2 x 3 x 5/16" Wall
Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.
Steel (See Installation Details in Sheet 5)

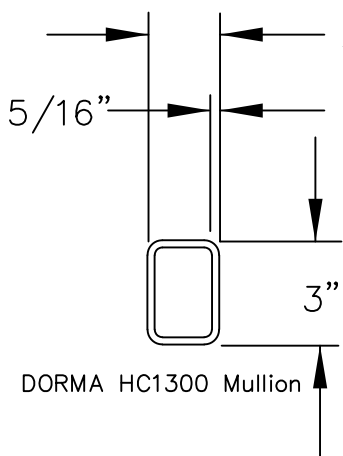
DORMA HC1300 Steel
Removable Mullion
SECTION C2 - C2



NOTE: Chassis may be either 9300 or F9300
"F" prefix denotes fire rated chassis assembly.

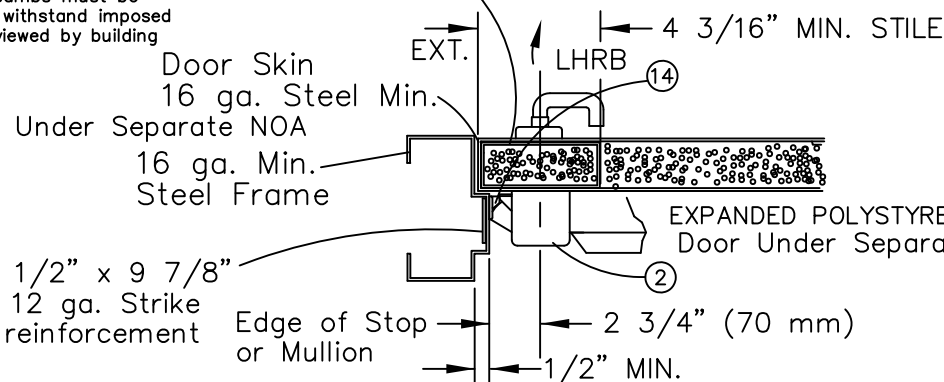


ELEVATION VIEW
Section A2 - A2



12 ga. Steel Box Channel
Welded @ 6" o.c. Full Length.

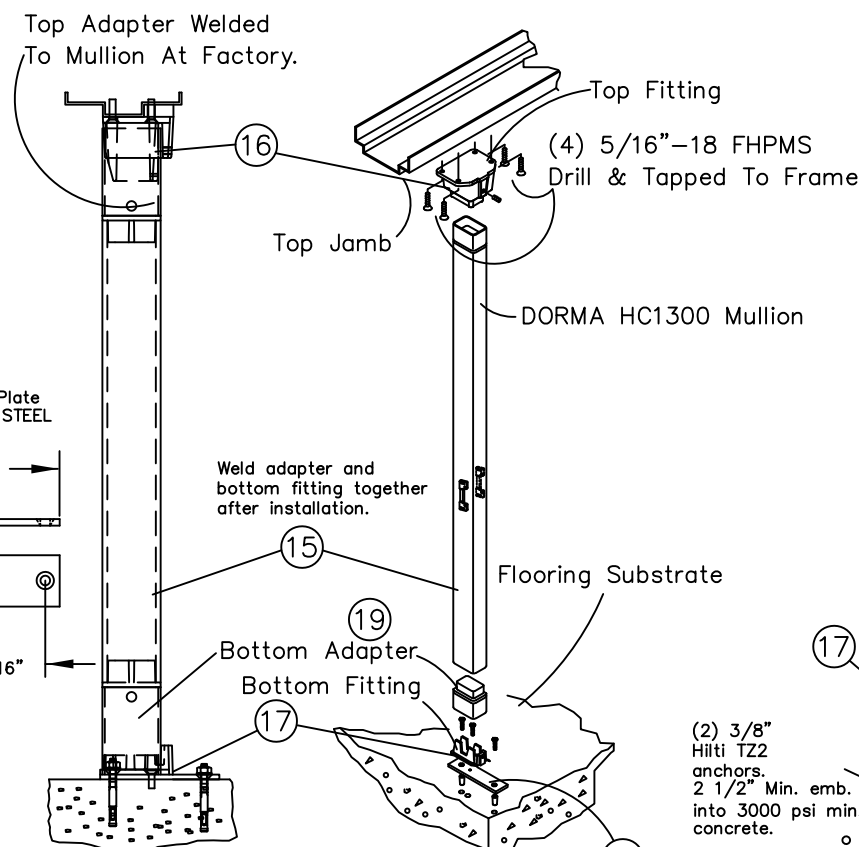
NOTE:
Frame and Jamb must be
designed to withstand imposed
load and reviewed by building
official.



VERTICAL REF. LINE
Section D2 - D2 (Rim Exit Device)

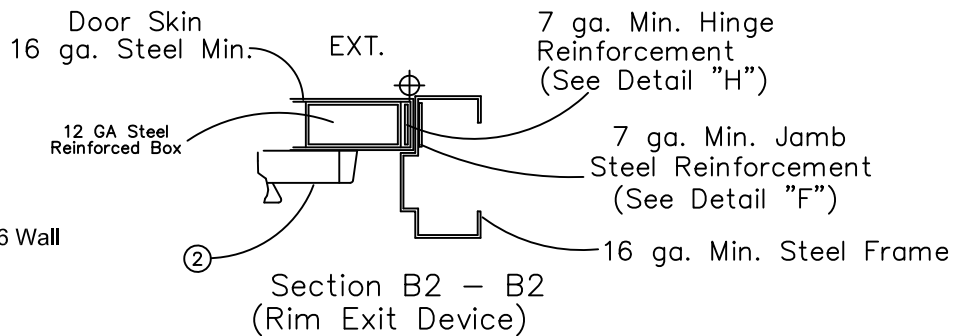
DORMA 9300/F9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE ON OUTSWING SINGLE OR PAIRED WITH DORMA HC1300 MULLION APPLICATION INTO APPROVED OUTSWING FLUSH DOORS HAVING CURRENT NOA OR FPA.

Notes:
Material: Carbon Steel Tubing 2 x 3 x 5/16 Wall
Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.



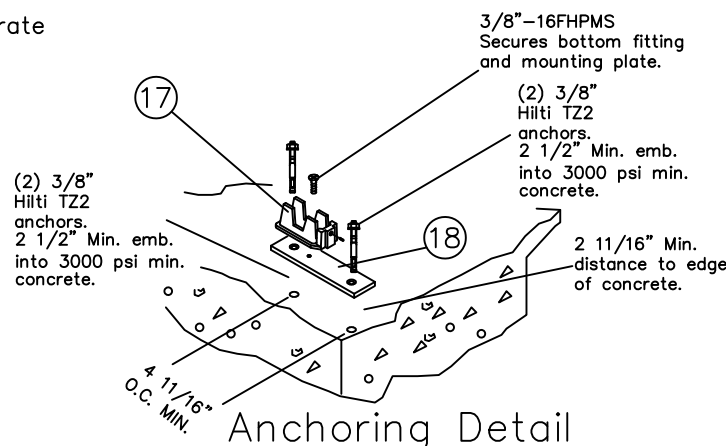
Section C2 - C2

Under Separate NOA



Series DORMA 9300/F9300 Rim Exit
Device for Single or Pairs
When Used With DORMA HC1300 Mullion
96" x 96" Maximum Opening
100" x 98" Maximum Frame Dimensions

Design Pressure Rating	
POSITIVE	80 PSF
NEGATIVE	80 PSF
IMPACT RATING	
LARGE AND SMALL MISSILE IMPACT RESISTANT	



Anchoring Detail

GENERAL NOTES

LIMITATIONS:

1. Device complies with the current FBC and has been tested to TAS 201-94, 202-94 and 203-94.
2. Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA or FPA. Lowest Design Pressure Rating shall apply.
3. Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
4. Steel reinforcement required as indicated on detail drawings.
5. Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:

Underwriter's Laboratories - UL10C, UBC 7-2 (1997)

ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw

All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)

Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.

Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.

Strike/Hinge locations reinforced with 7ga Steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.

Exit device Model DORMA 9300 Series Rim Outside trim may be one of the following prefix designations:

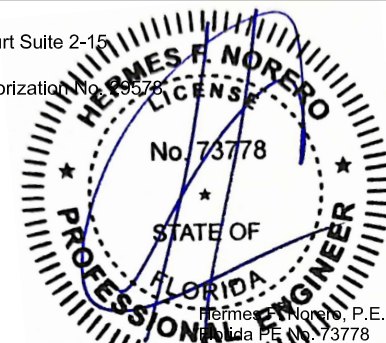
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.

Thru bolts must be used on all installations as shown.

Interlocking strike angle must be installed on all installations as shown.

Quantities double for the opposite doors.

Building Drops, Inc.
1900 NE Miami Court Suite 2-15
Miami, FL 33132
FBPE Cert. of Authorization No. 19578



DESCRIPTION: DORMA 9300/F9300 Rim Exit Device
16 ga. steel door and frame

dormakaba

dormakaba USA.
6161 E 75TH ST
INDIANAPOLIS, IN 46250

SCALE: NONE

DRAWN BY: FM

DATE: 10/23/17

CHKD BY: DC

DATE: 6-23-11

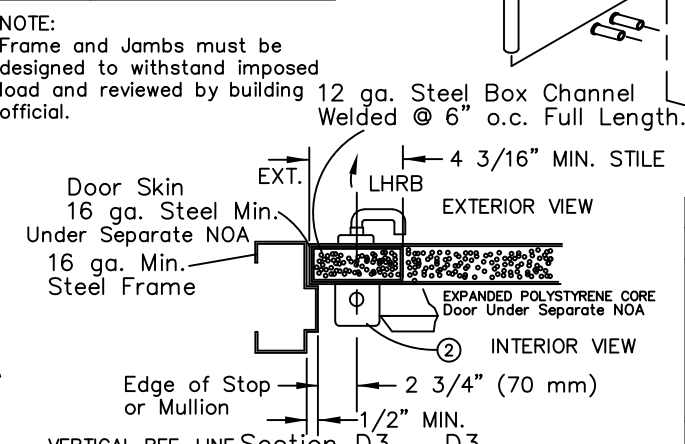
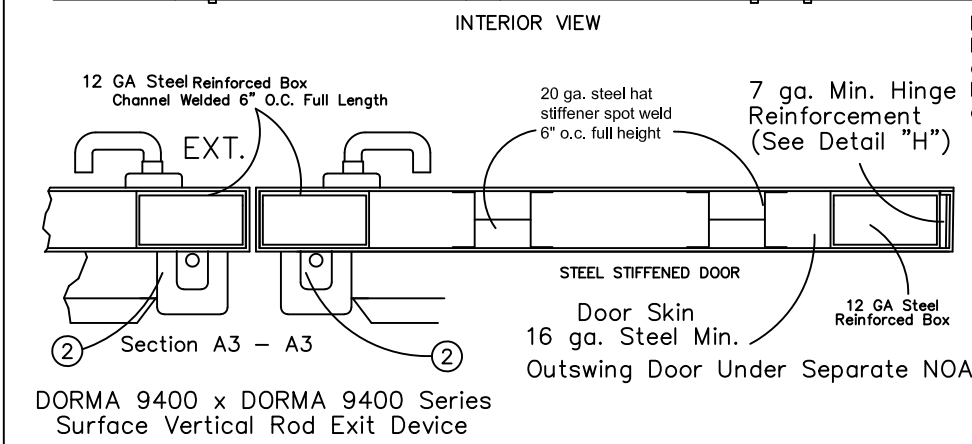
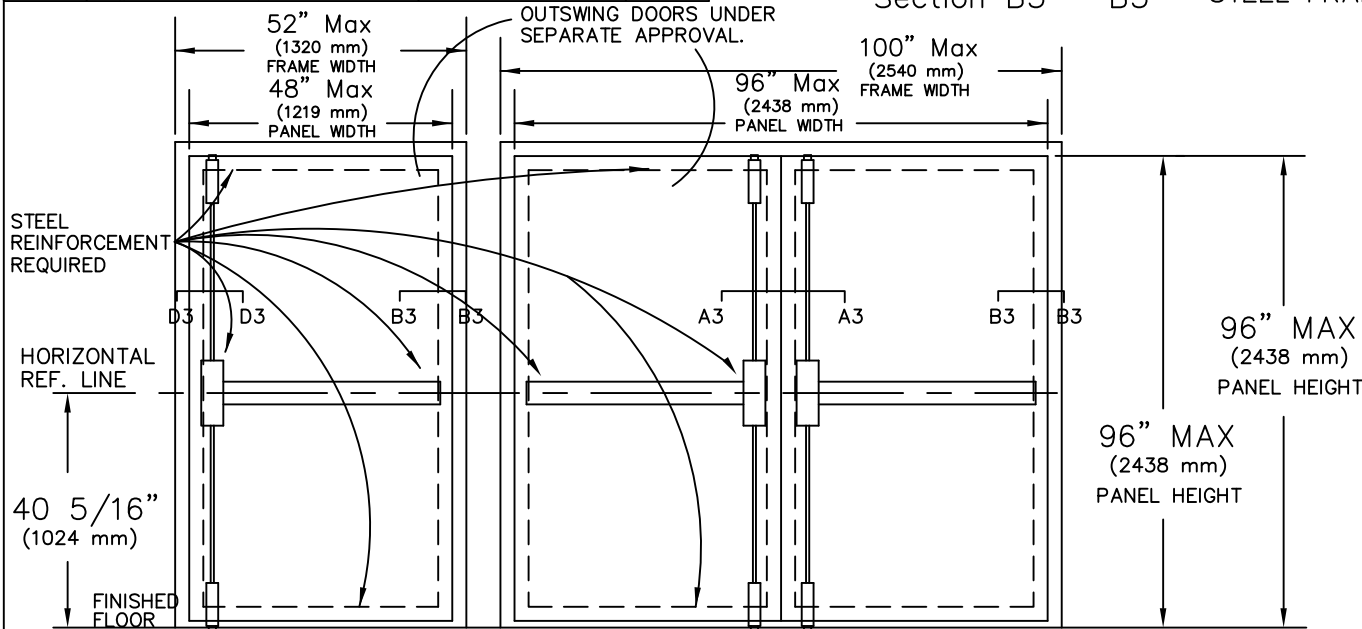
Mullion Anchor Update	13	FM	04-23-2024
6th Edition FBC Update	12	FM	10-23-2017
5th Edition FBC Update	11	LS	06-16-2015
Rev. Print	10	TA	06-23-2011
Rev. Print	9	TA	03-21-2011
Rev. Print	8	TA	12-12-2007
Rev. Print	7	TA	07-26-2007
Rev. Print	6	TA	07-06-2007
REVISIONS	NO.	BY	DATE

DWG. 5 OF 6

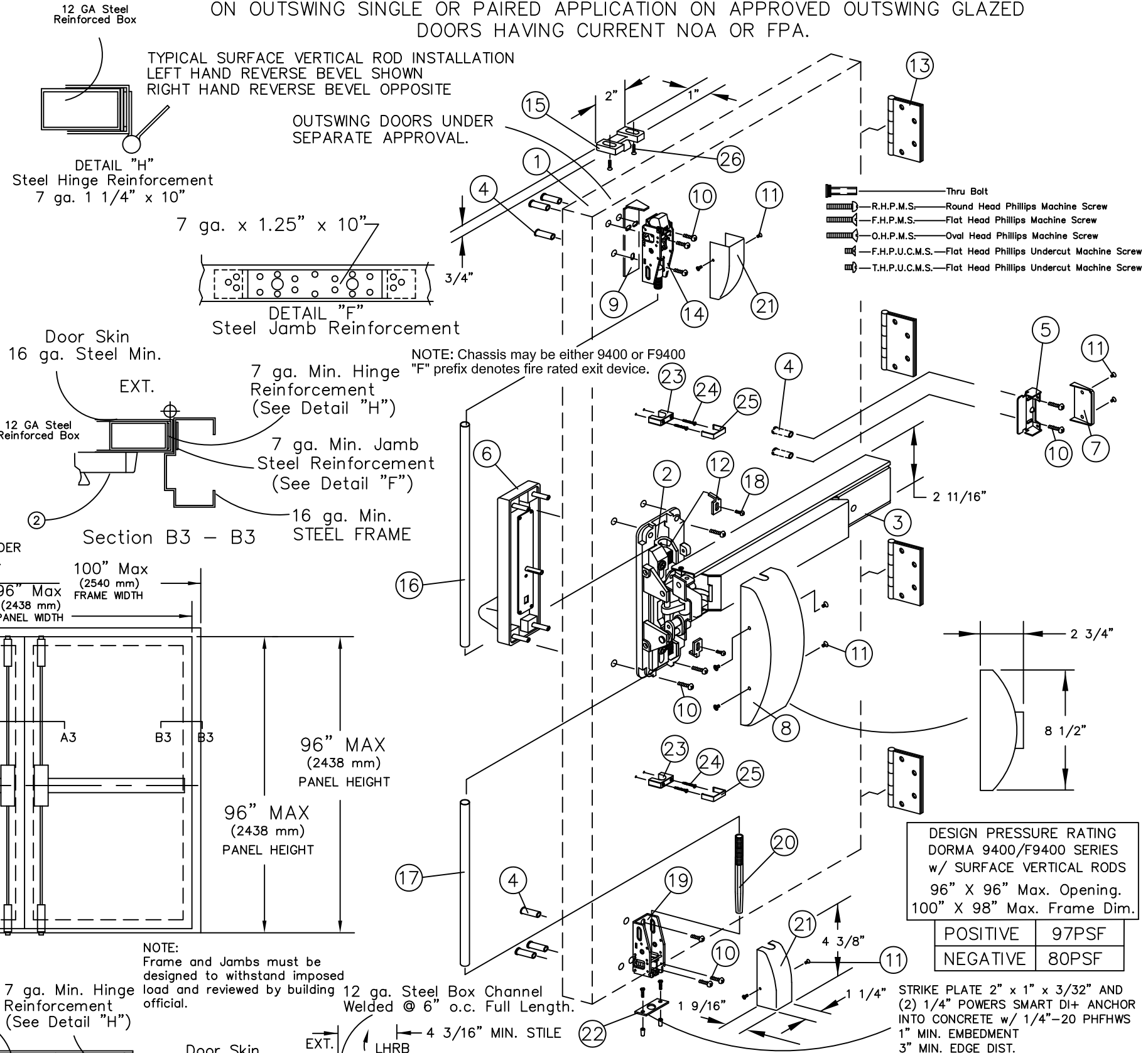
DWG. NO.

9000-003

DORMA 9400/F9400 SURFACE VERTICAL ROD EXIT DEVICE			
BILL OF MATERIAL (Per Panel)			
ITEM	DESCRIPTION	PART NUMBER	QTY.
1	APPROVED DOOR & FRAME	Under Separate NOA	1
2	DORMA 9400 CHASSIS ASSY.	ALUMINUM	1
3	TOUCHBAR/RAIL ASSY.		1
4	THRU BOLTS		8
5	ENDCAP BRACKET		1
6	OUTSIDE TRIM		1
7	ENDCAP		1
8	CHASSIS COVER		1
9	STRIKE ANGLE	STAINLESS STEEL	1
10	12-24 R.H.P.M.S.		12
11	8-32 F.H.P.M.S.		10
12	ROD RETAINING PLATE		2
13	HINGES	PER NOA	4
14	TOP LATCH ASSEMBLY	STEEL	1
15	#426 TOP STRIKE w/ #26	SANDCAST GRAY IRON CLASS 20	1
16	TOP CONNECTING ROD	1/2" O.D. STAINLESS TUBING	1
17	BOTTOM CONNECTING ROD	1/2" O.D. STAINLESS TUBING	1
18	8-32 x 3/4" R.H.P.M.S.		2
19	BOTTOM LATCH BRACKET		1
20	SLIDE BOLT ASSEMBLY	STEEL	1
21	LATCH COVER		2
22	#340 BOTTOM STRIKE PLATE	STEEL	8
23	ROD GUIDE		2
24	#6 x 1 1/4" F.H.P.T.S.		4
25	ROD GUIDE COVER		2
26	#12-24 x 3/4" OHPMS		2



DORMA 9400/F9400 SERIES SURFACE VERTICAL ROD ON OUTSWING SINGLE OR PAIRED APPLICATION ON APPROVED OUTSWING GLAZED DOORS HAVING CURRENT NOA OR FPA.



GENERAL NOTES

- LIMITATIONS:**
- Device complies with the current FBC and has been tested to TAS 201-94, 202-94 and 203-94.
 - Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA or FPA. Lowest Design Pressure Rating shall apply.
 - Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
 - Steel reinforcement required as indicated on detail drawings.
 - Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.
- Certification:**
Underwriter's Laboratories – UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw top & bottom.
All reinforcements to be spot welded or better by door manufacturer.
Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails– reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.
Strike/Hinge locations reinforced with 7ga Steel plate.
All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model DORMA 9400 Surface Vertical Rod Exit Device.
Outside trim may be one of the following prefix designations:
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Building Drops, Inc.
1900 NE Miami Court Suite 2-15
Miami, FL 33132
FBPE Cert. of Authorization No. 23576

HERMES F. NORERO
Professional Engineer
No. 73778
STATE OF FLORIDA

Mullion Anchor Update	13	FM	04-23-2024
6th Edition FBC Update	12	FM	10-23-2017
5th Edition FBC Update	11	LS	06-16-2015
Rev. Print	10	TA	06-23-2011
Rev. Print	9	TA	03-21-2011
Rev. Print	8	TA	12-12-2007
Rev. Print	7	TA	07-26-2007
Rev. Print	6	TA	07-06-2007
REVISIONS	NO.	BY	DATE

DWG. 6 OF 6

9000-003

DESCRIPTION: DORMA 9400/F9400 Surface Vertical Rod Exit Device 16 ga. flush door and frame		dormakaba USA. 6161 E 75TH ST INDIANAPOLIS, IN 46250	
SCALE: NONE	DRAWN BY: FM	DATE: 10/23/17	CHKD BY: TA
		DATE: 6-23-11	