



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Republic Doors and Frame, Inc.
 155 Republic Drive
 McKenzie, TN 38201

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "DL416" Outswing Louvered Steel 16 ga Doors w/ 16 ga Frames-Impact

APPROVAL DOCUMENT: Drawing No. **RDF-005 REV B**, titled "DL416 Louvered Steel Door", sheets 1 through 9 of 9, prepared by Building Drops, Inc., dated 12/15/08 and last revised on 04-02-13, signed and sealed by Hermes F. Norero, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Not approved where Air & Water infiltration resistant requirements are needed.
2. Existing construction: Bldg. official to verify the existing frame meeting the frame material (sheet 1) and frame anchor installation thru pipe or channel and additional anchor per detail "W" per sheet 5 of this approval.
3. Installation of Air Louver 1500A w/ Security grill requires door cut out to be reinforced with spot welded 16 ga (.053") x 1.67 "x 0.62" steel channels around full perimeter reinforcement as details in sheet 8 of this approval.
4. Full length 14 ga reinforcement at door header is required. Refer to Bill of materials and cross-sections for additional reinforcements at lock stiles, hinge stiles and jambs.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

NOA No. 12-0601.21
 Expiration Date: May 02, 2018
 Approval Date: May 02, 2013
 Page 1



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **RDF-005 REV B**, titled "DL416 Louvered Steel Door", sheets 1 through 9 of 9, prepared by Building Drops, Inc., dated 12/15/08 and last revised on 04-02-13, signed and sealed by Hermes F. Norero, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94 (Not performed)
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test per FBC TAS 202-94 (Not Performed).
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Double Outswing Opaque & louvered Commercial Steel Doors, prepared by Intertek, Test Report No. **3080611**, dated January 19, 2006 and revised dated March 08, 2013 and April 16, 2013, signed and sealed by Rick Curkeet, P. E.

Note: This test report has an addendum letter dated 04/25/13, issued by Intertek, signed and sealed by Rick Curkeet, P. E.

C. CALCULATIONS

1. Anchor verification calculations, complying with FBC-2010 dated 05/25/12 and last revised on 11-20-2012, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Tensile test report prepared by prepared by Intertek, Test Report No. **3080611**, dated January 19, 2006 and revised dated March 08, 2013 & April 16, 2013, signed and sealed by Rick Curkeet, P. E.

F. STATEMENTS

1. Statesman letter of conformance to FBC 2010 and "No financial interest", dated 11/20/12, signed and sealed by Hermes F. Norero, P. E.
2. Lab compliance as part of the above referenced test reports.
3. Statement of Name change, dated July 25, 2012 by Republic Doors & Frames, signed by Steven Hugueley, Senior Engineer Republic Doors.
4. Amendment of Article # **201124900304**, dated 09/02/11 issued by State of Ohio to Republic Doors & Frame, Inc., signed by John Husted, Ohio secretary of State.
5. Amendment of Article # **2000422000488**, dated 01/13/04 issued by State of Ohio to Windsor Republic Door Inc., signed by J. Kenneth Blackwell, Ohio secretary of State.

G. OTHER

1. Name change documents, the company is formerly known as **Windsor Republic Door Inc.**
2. Technical brochures of Air Louvers, model 1500A w/ Security grills.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 12-0601.21
Expiration Date: May 02, 2018
Approval Date: May 02, 2013

REPUBLIC DOORS AND FRAMES

DL416 LOUVERED STEEL DOOR

Republic
doors · frames

155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/16 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION INFORMATION AND ANCHOR LAYOUTS ON JAMBS AND SILL, REFER TO SHEET 5.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 & GROUT CONFORMS TO ASTM C 476. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. SEE FBC SECTION 2105.2.2.1.2 (3) FOR GROUTED MASONRY REQUIREMENTS.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2010 FLORIDA BUILDING CODE, INCLUDING HVHZ.
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X OR 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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 IN NON-HVHZ AREA. IN HVHZ AREA, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE PERA OR AUTHORITY HAVING JURISDICTION (AHJ).
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- STEEL COMPONENTS SHALL BE COATED OR PROVIDED WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF FBC SECTION 2220.
- DOOR & FRAME MATERIAL: STEEL 16 GAUGE (0.053") MIN. FY MIN. = 45.7 KSI
- DESIGNATION "X" STANDS FOR THE FOLLOWING:
X: OPERABLE PANEL

STEEL DOOR CONSTRUCTION:

THE OVERALL PANEL THICKNESS IS 1 3/4 INCH THICK. THE DOOR PANEL HINGE AND LOCK CHANNELS ARE 1.677" X 0.62" X 94.875" INCH WIDE AND ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL. THE DOOR TOP AND BOTTOM END CHANNELS ARE 1.677" X 0.62" X 47.563" AND ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL. THE DOOR SKINS / FACE SHEETS ARE CONSTRUCTED OF 16 GAUGE (0.053") COLD-ROLLED STEEL AND ATTACHED TO THE END, HINGE AND LOCK CHANNELS. THE DOOR CORE IS CONSTRUCTED OF TYPE 99-0-3/4 KRAFT PAPER HONEYCOMB CORE AND ATTACHED TO THE FACES WITH GLUE. THE DOOR HINGE REINFORCEMENTS ARE 1.375" X 4.5" AND ARE CONSTRUCTED FROM 9 GAUGE (0.132") COLD-ROLLED STEEL. THE MORTISE DOOR LOCK REINFORCEMENTS ARE 1.677" X 5.313" X 14" AND ARE CONSTRUCTED FROM 14 GAUGE (0.067") COLD-ROLLED STEEL. THE CONTINUOUS DOOR HARDWARE REINFORCEMENTS ARE 1.677" X 6" X 85" AND ARE CONSTRUCTED FROM 12 GAUGE (0.101") COLD-ROLLED STEEL. THE DOOR EXIT DEVICE REINFORCEMENTS ARE 1.677" X 5.313" X 14" AND ARE CONSTRUCTED FROM 14 GAUGE (0.067") COLD-ROLLED STEEL. THE DOOR CLOSER REINFORCEMENTS ARE 1.677" X 6" X 18" AND ARE CONSTRUCTED FROM 12 GAUGE (0.101") COLD-ROLLED STEEL. THE DOOR INACTIVE LEAF ASTRAGAL IS 1.70" X 95.125" AND IS CONSTRUCTED FROM 14 GAUGE (0.067") COLD-ROLLED STEEL. THE DOOR DEAD LOCK REINFORCEMENTS ARE 3" X 3" AND ARE CONSTRUCTED FROM 16 GAUGE (0.053") FORMED STEEL. THE DOOR CYLINDRICAL LOCK REINFORCEMENTS ARE 3" X 2.5" AND ARE CONSTRUCTED FROM 16 GAUGE (0.053") FORMED STEEL. THE DOOR SURFACE BOLTS ARE ROCKWOOD 585 SURFACE BOLTS LOCATED AT THE TOP AND BOTTOM MEETING EDGE CORNER OF THE INACTIVE LEAF. THE DOOR CUT-OUT REINFORCEMENTS RUN THE PERIMETER OF THE DOOR CUT-OUT AND ARE 1.677" X 0.62" AND ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL TACK WELDED EVERY 8" TO DOOR SKIN.

FRAME CONSTRUCTION:

THE DOOR FRAMES ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL. THE CORNERS ARE MITERED KNOCK DOWN MECHANICALLY FASTENED. THE DOOR FRAME SECTIONS ARE T-SHAPED. THE DOOR FRAME CORNER REINFORCEMENTS ARE KNOCK DOWN WITH CORNER KEY. THE DOOR FRAME HINGES ARE PBB 4.5" X 4.5" X 0.134" FULL MORTISE BUTT-TYPE STANDARD WEIGHT HINGES. THE DOOR FRAME HINGE REINFORCEMENTS ARE 7.50" X 1.625" AND ARE CONSTRUCTED OF 9 GAUGE (0.132") COLD/HOT-ROLLED STEEL. THE DOOR FRAME HEADER SLEEVE REINFORCEMENTS ARE 5.6875" X 96" AND ARE CONSTRUCTED OF 14 GAUGE (0.067") FORMED STEEL. THE DOOR FRAME BASE ANCHORS ARE 1.875" X 1.875" AND ARE CONSTRUCTED OF 16 GAUGE (0.053") FORMED STEEL.

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SHEET	REVISION	SHEET DESCRIPTION
1	B	INSTALLATION & GENERAL NOTES
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3	B	CYLINDRICAL W/ DEADLOCK ELEVATIONS & DETAILS
4	B	MORTISE LOCK ELEVATIONS & DETAILS
5	B	ANCHOR LAYOUT
6	B	VERTICAL SECTIONS
7	B	HORIZONTAL SECTIONS
8	B	CORNER ASSEMBLY & COMPONENTS
9	B	BILL OF MATERIALS & COMPONENTS

Approved as complying with
Florida Building Code
Date MAY 02, 2013
12-2601-21
Product Control
L. Chang

TITLE: DL416 LOUVERED ST. DOOR
INSTALLATION & GENERAL NOTES
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

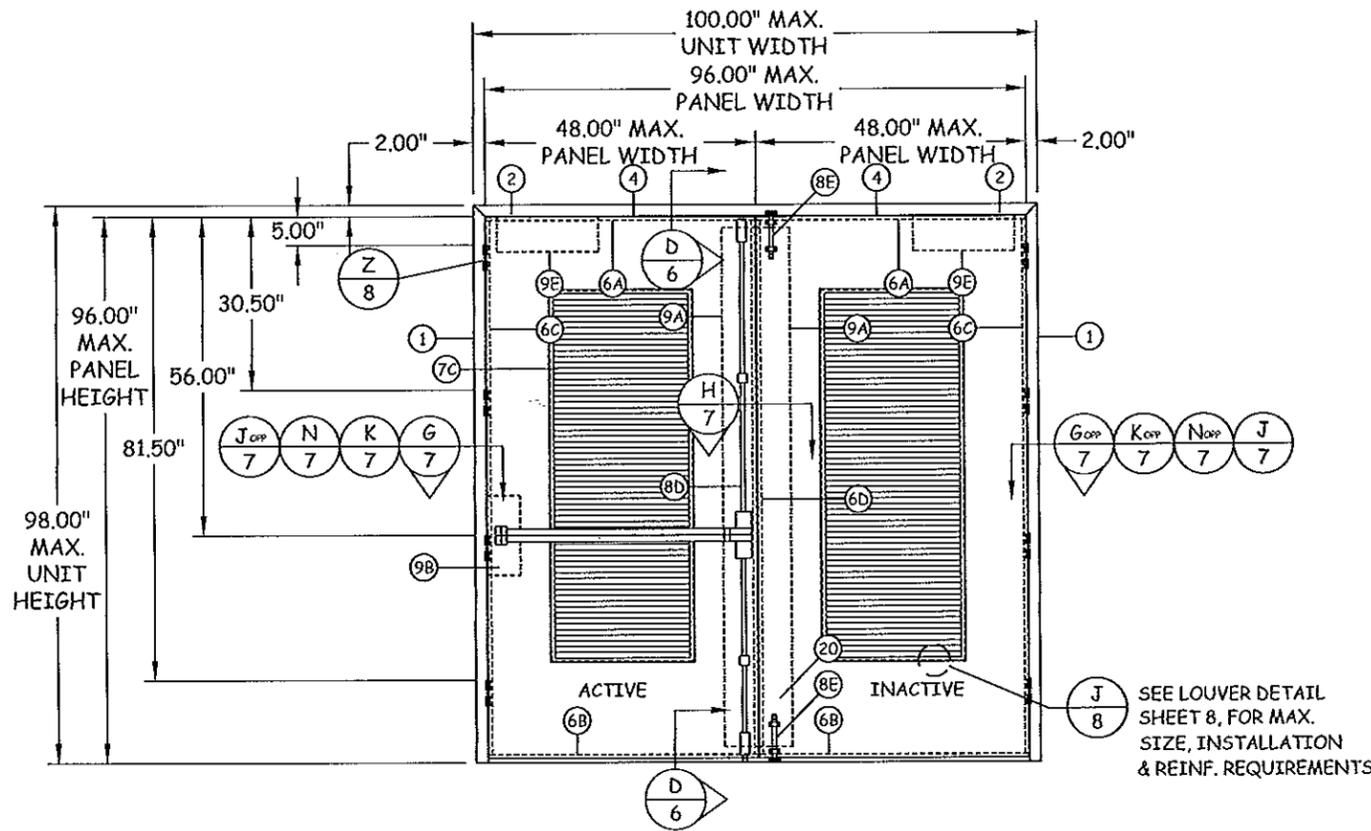
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NO.	DESCRIPTION		
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	2010 FBC UPDATES	MS	04.10.12

HERNANDEZ, P.E.
FLORIDA P. E. NO. 73778
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBC CERT. OF AUTHORIZATION NO. 49578

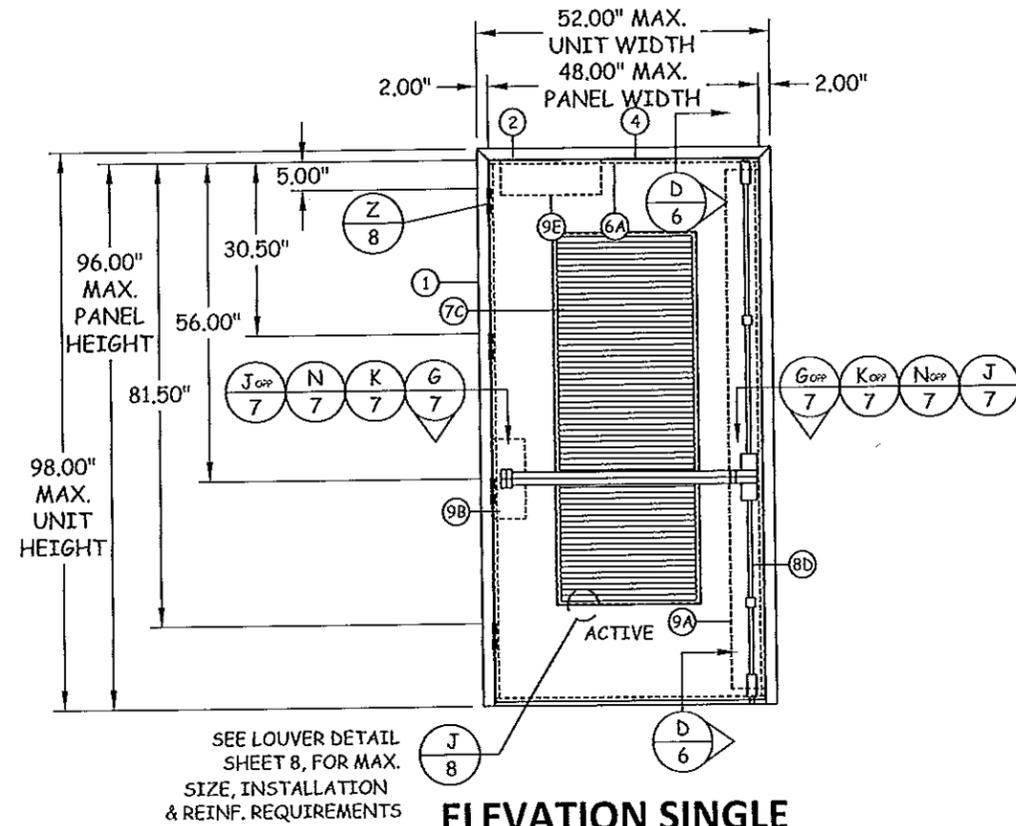
DESIGN PRESSURE RATING FOR LOUVERED DOOR ASSEMBLY		
DESIGN PRESSURE ALL SIZES		MISSILE IMPACT RATING
+60/-60 PSF	WITHOUT AIR & WATER* INFILTRATION	LARGE & SMALL MISSILE IMPACT RATED

*UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT GREATER THAN 1.0 WHERE WATER INFILTRATION IS REQUIRED.

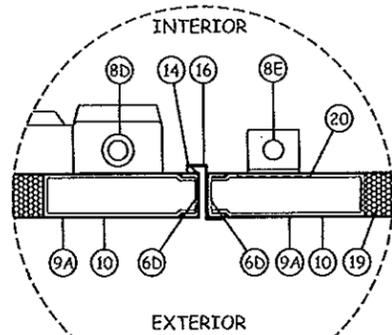
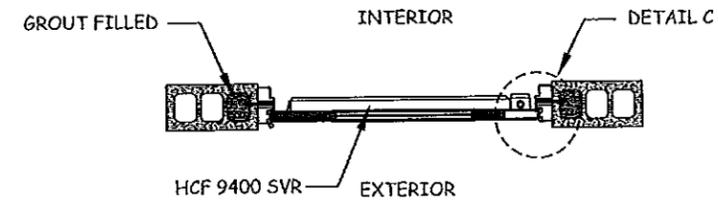
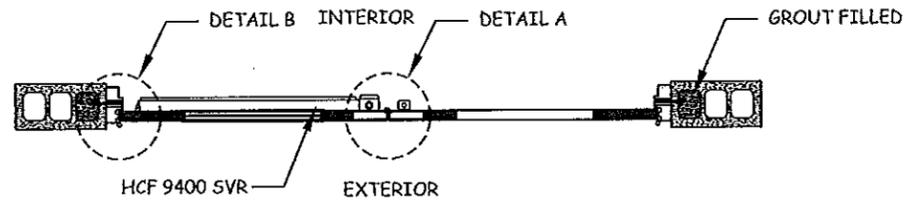
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DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: RDF005
SHEET: 1 OF 9



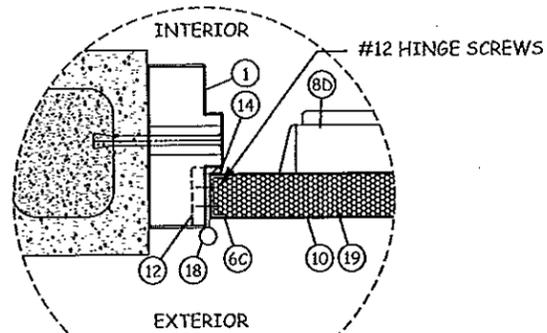
ELEVATION DOUBLE
HCF9400 SURFACE VERTICAL ROD
(OUTSWING DOOR - INTERIOR VIEW)



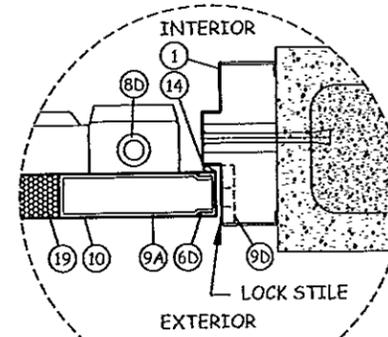
ELEVATION SINGLE
HCF9400 SURFACE VERTICAL ROD
(OUTSWING DOOR - INTERIOR VIEW)



DETAIL A



DETAIL B



DETAIL C

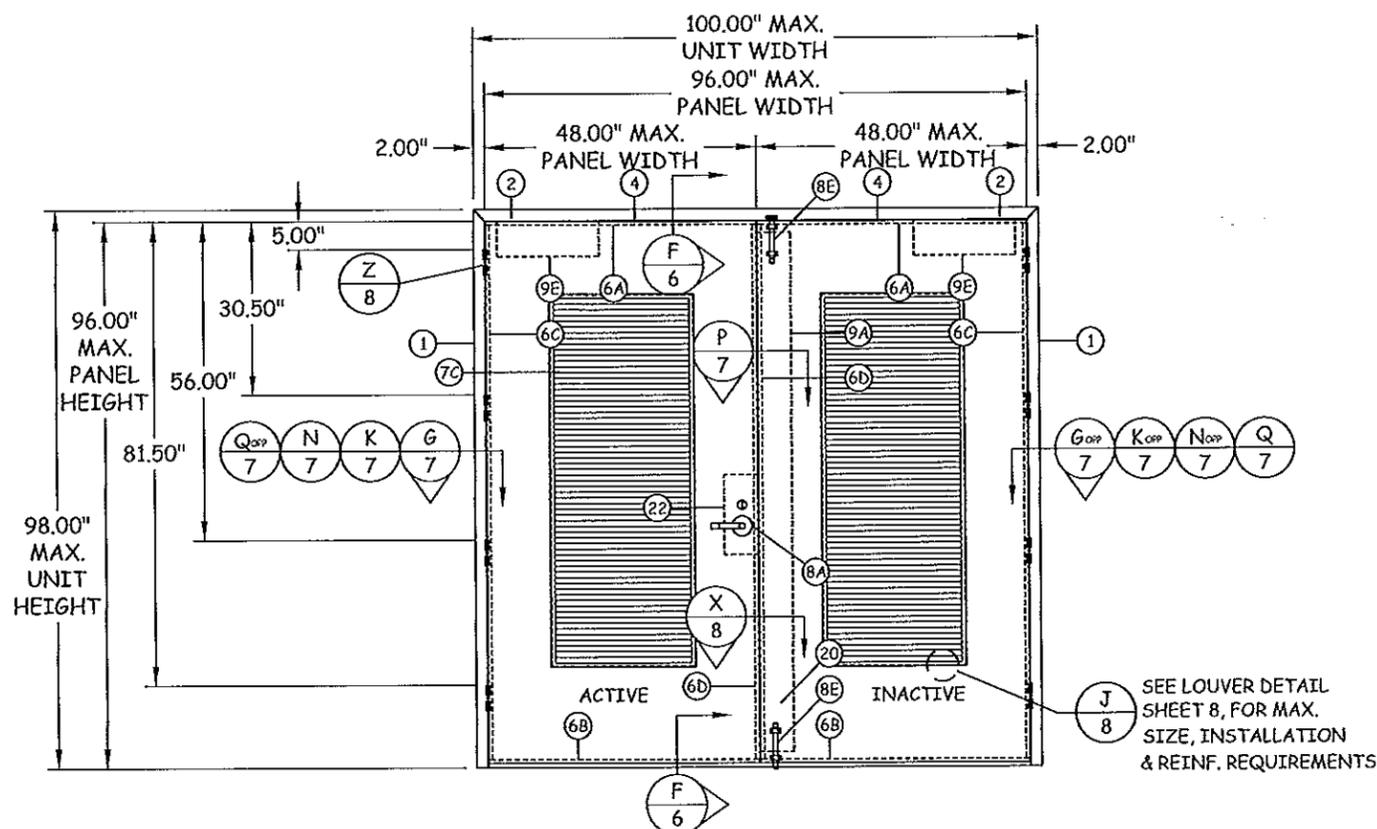
TITLE: DL416 LOUVERED ST. DOOR
SURFACE VERTICAL ROD
ELEVATIONS & DETAILS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	
NO.	DESCRIPTION
A	COMMENTS PER MIAMI-DADE CO.
B	2010 FBC UPDATES

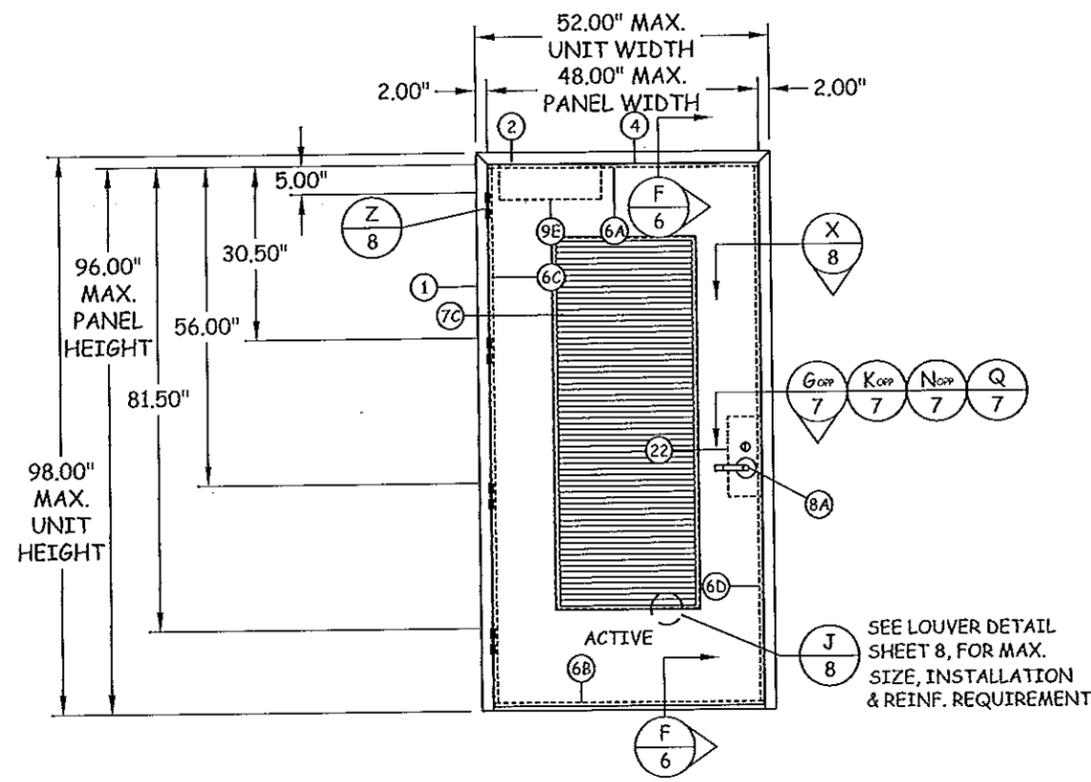
HERNAN F. NORRIS, P.E.
FLORIDA P. E. NO. 73775
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 24578

DATE:	12.15.08	DWN BY:	JLR	CHK BY:	HN	SCALE:	NTS
DWG #:	RDF005						
SHEET:	2 OF 9						

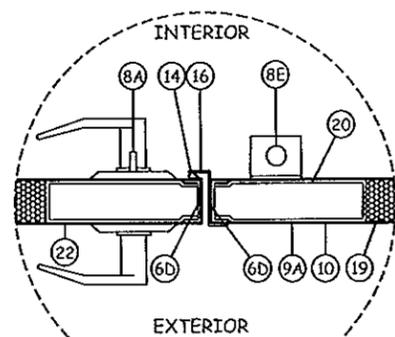
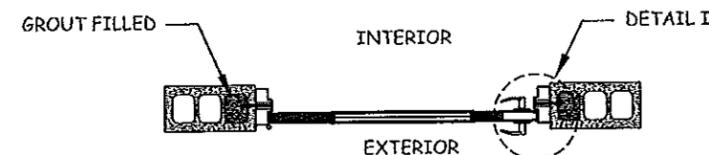
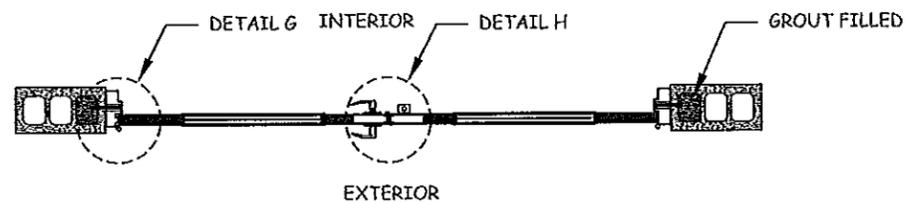
Approved as complying with Florida Building Code
Date 5/2/13
NOAA 12/02/21
Miami-Dade Product Control
By: Ismael Chaves



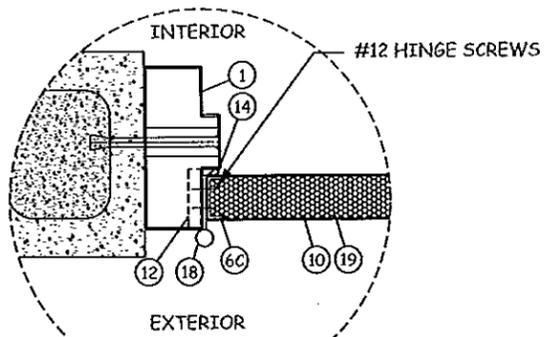
ELEVATION DOUBLE
MORTISE LOCK WITH DEADLOCK
(OUTSWING DOOR - INTERIOR VIEW)



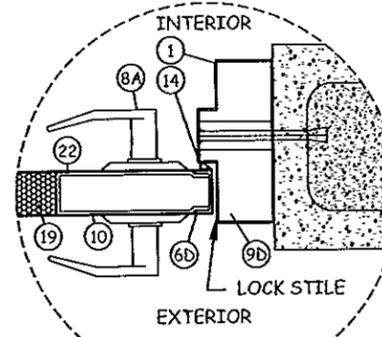
ELEVATION SINGLE
MORTISE LOCK WITH DEADLOCK
(OUTSWING DOOR - INTERIOR VIEW)



DETAIL H



DETAIL G



DETAIL I

TITLE: DL416 LOUVERED ST. DOOR
MORTISE LOCK
ELEVATIONS & DETAILS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

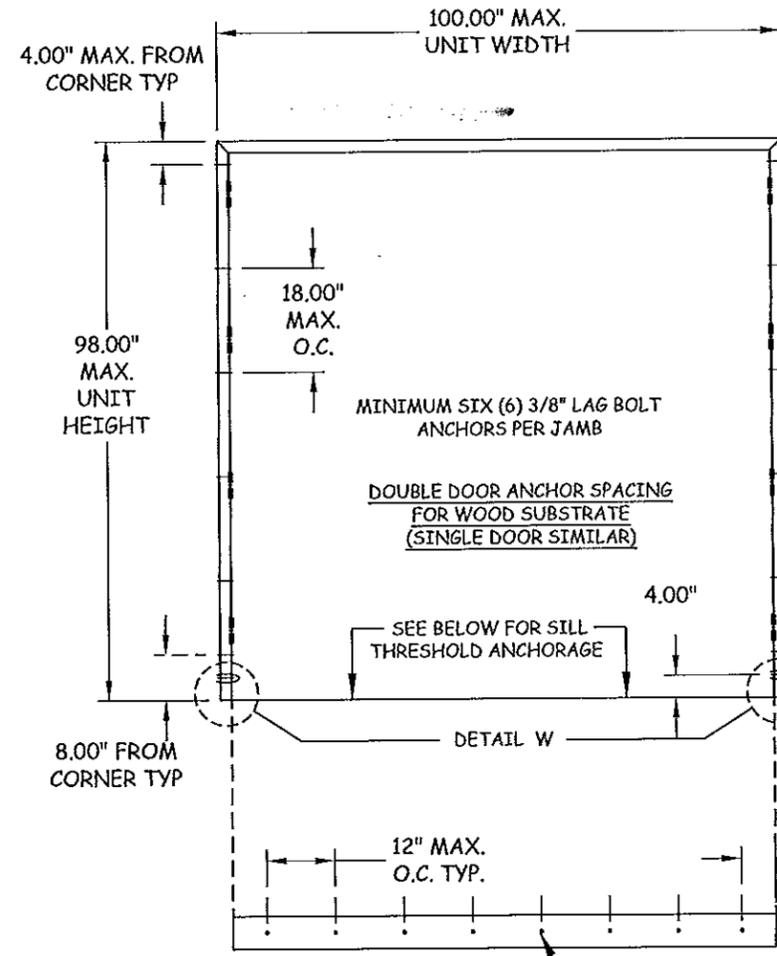
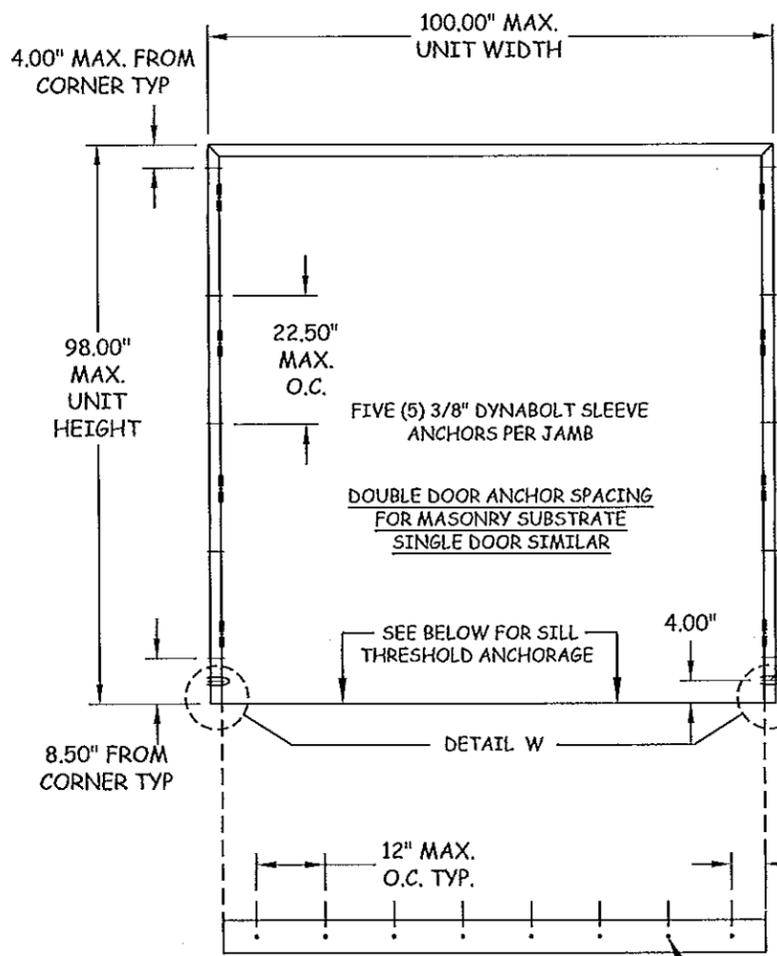
NO.	DESCRIPTION	DATE	BY	
			DATE	BY
A	COMMENTS PER MIAMI-DADE CO.	06.02.09	JLR	MS
B	2010 FBC UPDATES	04.10.12	MS	

HERMES F. HORSERO, P.E.
FLORIDA P. E. NO. 73775
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

Approved as complying with Florida Building Code
Date: 5/2/13
PH: 1-800-799-3667
Visual Code Product Control
Shag L. Llanos

DATE: 12.15.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: RDF005
SHEET: 4 OF 9

TITLE: DL416 LOUVERED ST. DOOR ANCHOR LAYOUT
 PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738



DOUBLE DOOR ANCHOR SPACING FOR MASONRY SUBSTRATE SINGLE DOOR SIMILAR

DOUBLE DOOR ANCHOR SPACING FOR WOOD SUBSTRATE (SINGLE DOOR SIMILAR)

ADDITIONAL BOLT IN LIEU OF BASE PLATE FOR EXISTING CONSTRUCTION ONLY (SEE NOTE BELOW DETAIL "W")

ADDITIONAL BOLT IN LIEU OF BASE PLATE FOR EXISTING CONSTRUCTION ONLY (SEE NOTE BELOW DETAIL "W")

SILL

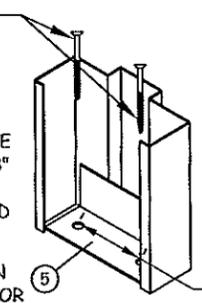
SILL

EIGHT (8) 1/4" ITW TAPCON INSTALLATION ANCHORS W/ 1 1/4" MIN. EMBEDMENT

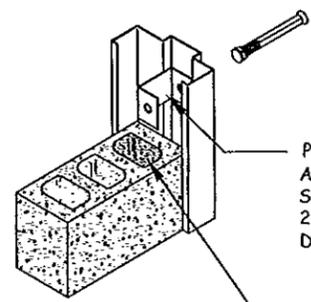
EIGHT (8) 1/4" ITW TAPCON INSTALLATION ANCHORS W/ 1 1/4" MIN. EMBEDMENT

TWO (2) 3/16" ITW TAPCONS (2.25" MIN. O.C.)

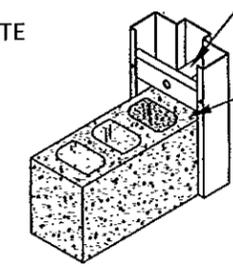
NOTE: JAMB CORNER BASE PLATE IS ONLY USED FOR NEW CONSTRUCTION AND IS NOT POSSIBLE FOR EXISTING CONSTRUCTION. IN LIEU OF BASE PLATE ANCHORS, ADD ONE (1) ADDITIONAL 3/8" DYNABOLT SLEEVE ANCHOR INTO MASONRY OR 3/8" LAG BOLT INTO WOOD SUBSTRATE ON JAMBS FOR EXISTING CONSTRUCTION.



DETAIL W
JAMB CORNER BASE PLATE

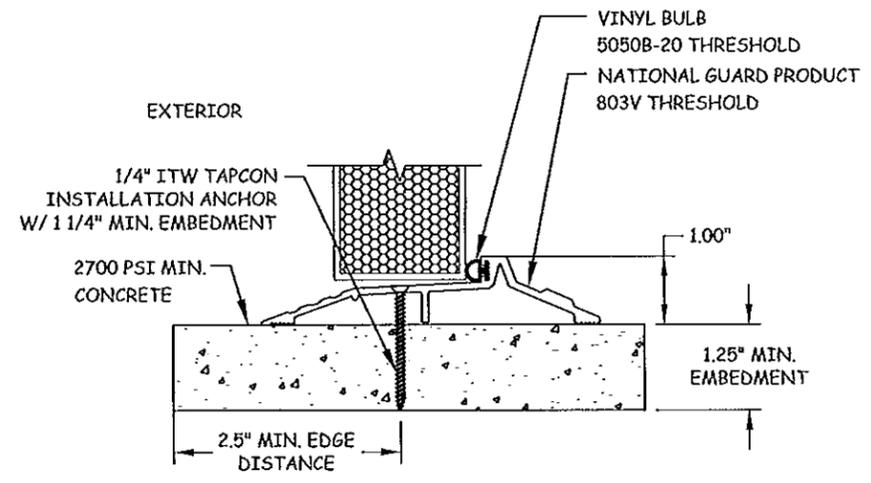


PREPARED OPENING CHANNEL ANCHOR MINIMUM CONCRETE STRENGTH AT SILL AND JAMB: 2700 PSI. FOR USE WITH 3/8" X 5" DYNA SLEEVE BY REDHEAD/ITW



TWIST-IN PREPARED PIPE ANCHORS TACK WELDED INTO PLACE FOR USE WITH 3/8" X 5" DYNA SLEEVE BY REDHEAD/ITW

MIN. 2000 PSI GROUT FILLED (SEE INSTALLATION NOTE 9, SHEET 1) & STEEL REINFORCING BAR AS REQUIRED BY CODE



THRESHOLD DETAIL (SILL)

REVISIONS

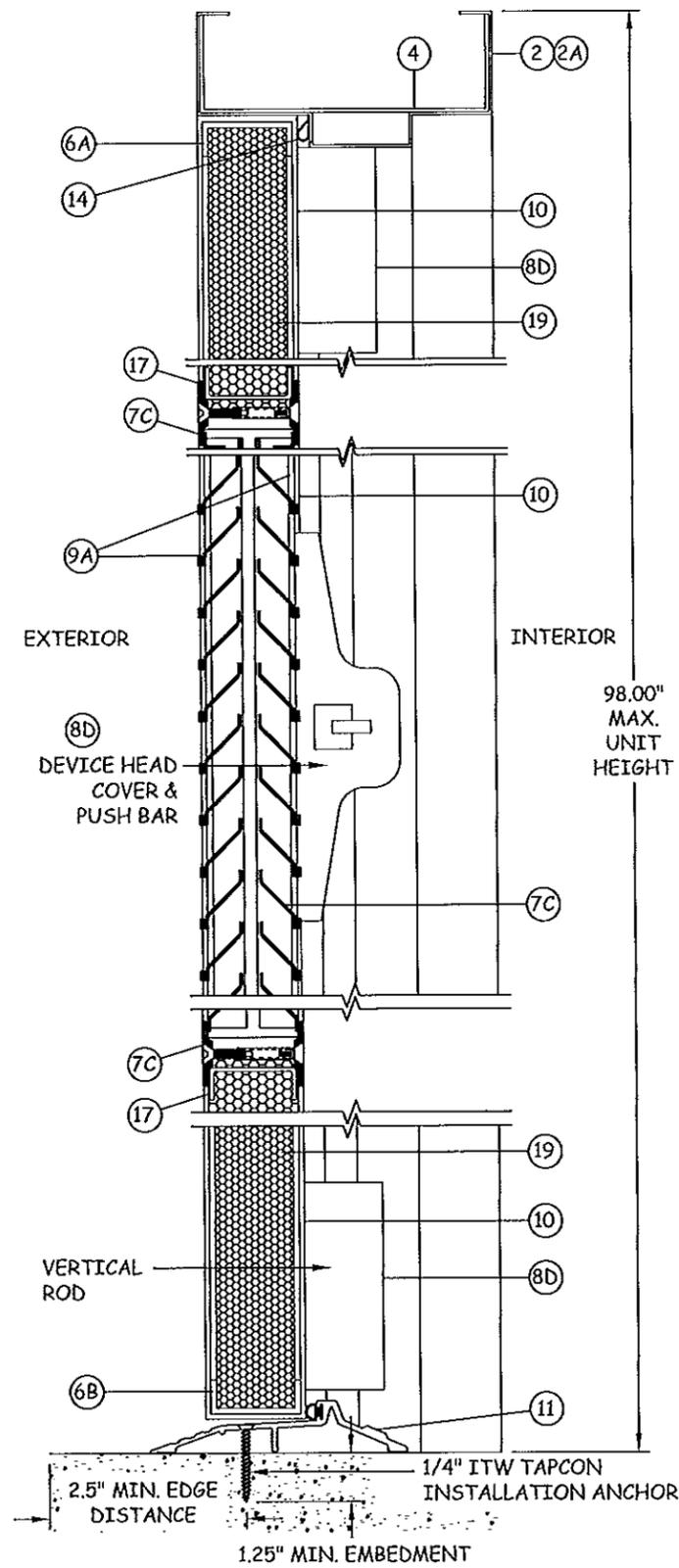
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A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	2010 FBC UPDATES	MS	04.10.12

HERNANDEZ, P.E.
 FLORIDA P.E. NO. 73775
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 FBPE CERT. # AUTH0022-1001 NO. 295578

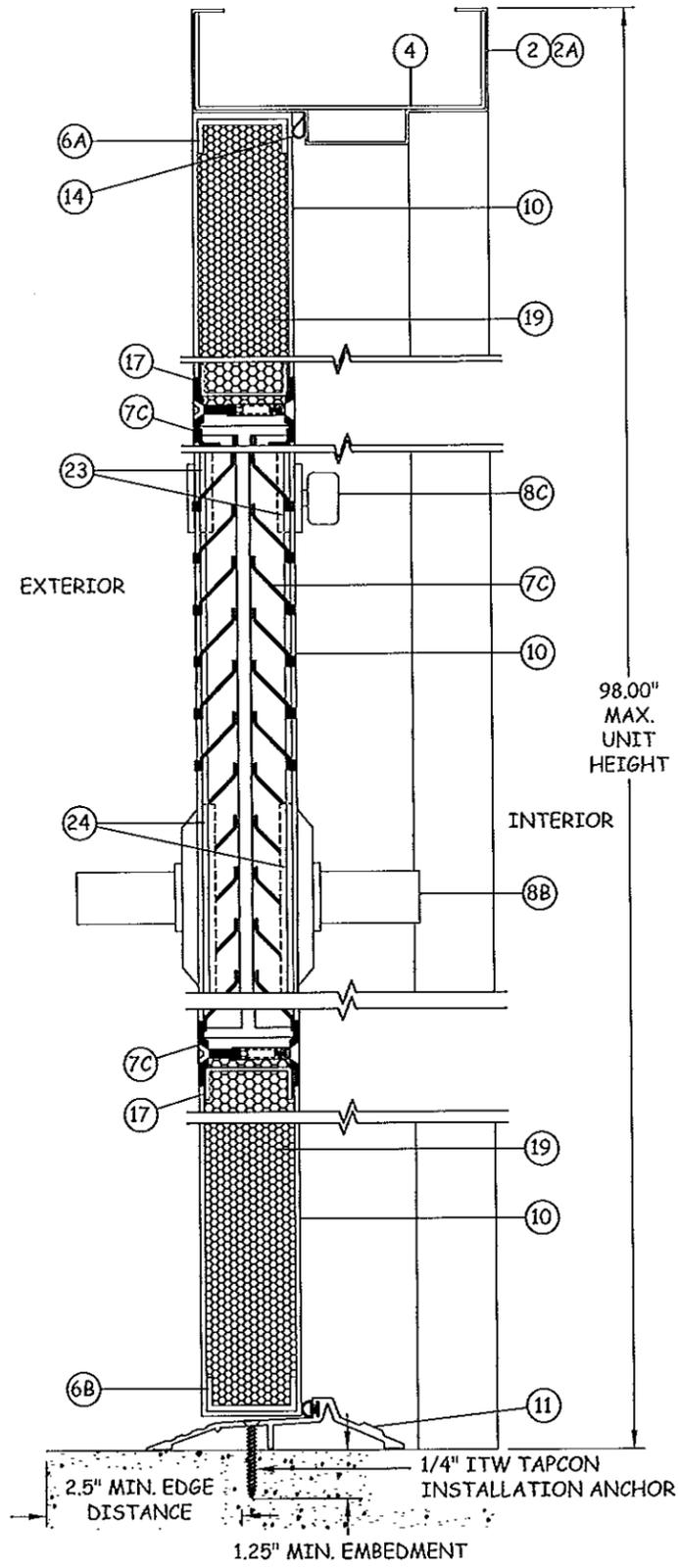
Approved as complying with Florida Building Code
 Date 5/2/13
 NO. 12-0601-21
 Miami-Dade Product Control
 By *Gregory L. Chavira*

DATE: 12.15.08
 DWN BY: JLR
 CHK BY: HN
 SCALE: NTS
 DWG #: RDF005
 SHEET: 5 OF 9

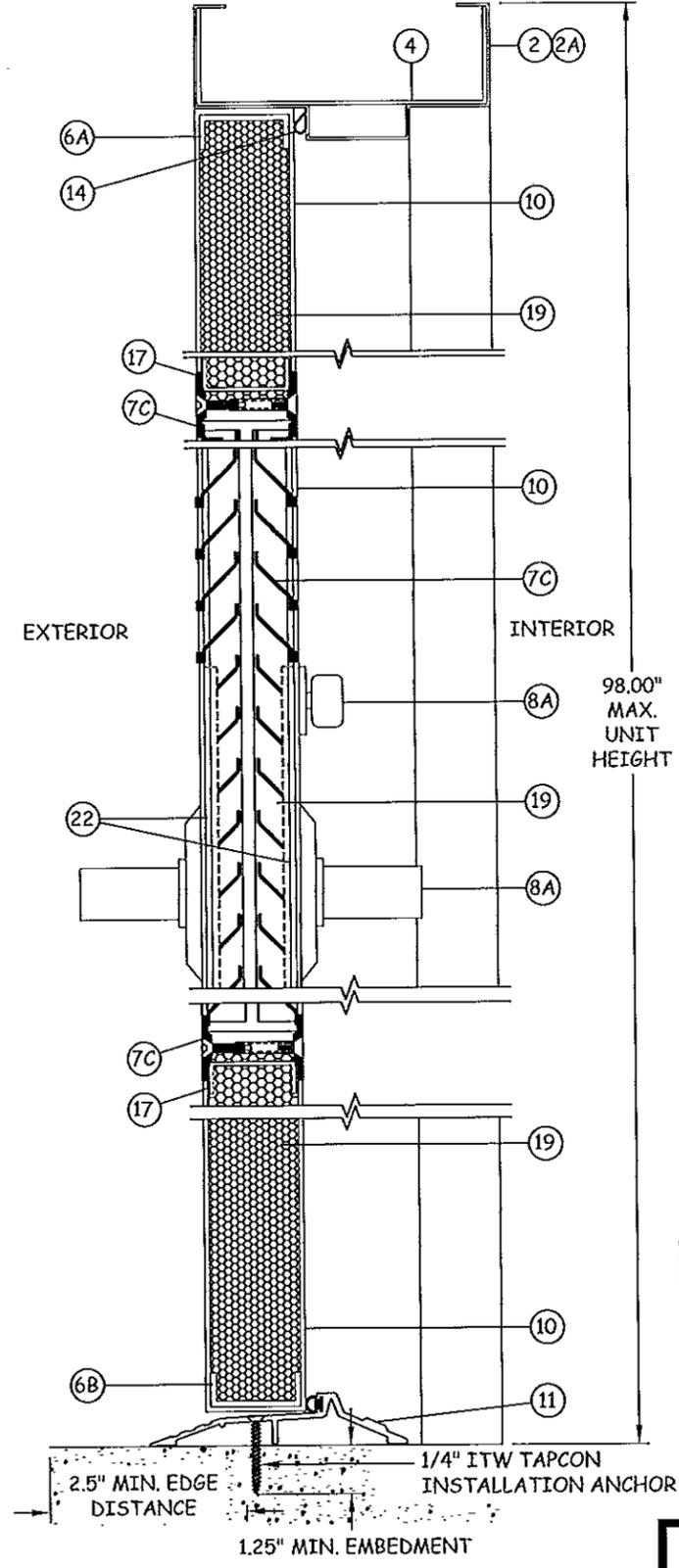
s:\projects\republic doors\ind-12-0227.4 (ind submittal - lower door)\dwg\rdff005.dwg 4/12/2013 7:19 PM



D
6 VERTICAL SECTION
SURFACE VERTICAL ROD



E
6 VERTICAL SECTION
CYLINDRICAL LOCK WITH DEADLOCK



F
6 VERTICAL SECTION
MORTISE LOCK WITH DEADLOCK

Approved as complying with the Florida Building Code
Date: 5/2/13
Notes: 12-0601-21
Without Date Product Control
By: [Signature]

Republic
doors · frames

155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

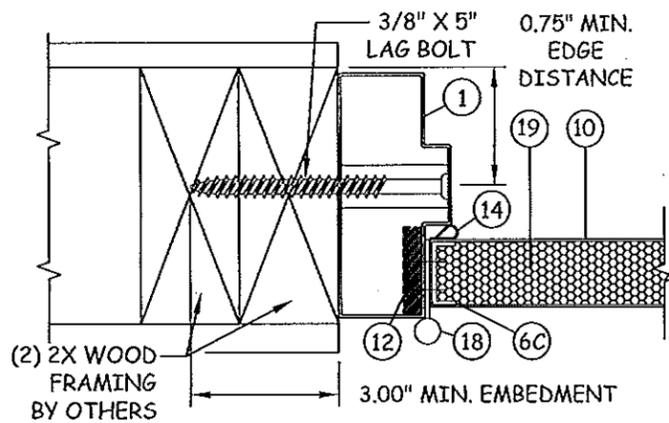
TITLE: DL416 LOUVRED ST. DOOR
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	
NO.	DESCRIPTION
A	COMMENTS PER MIAMI-DADE CO.
B	2010 FBC UPDATES

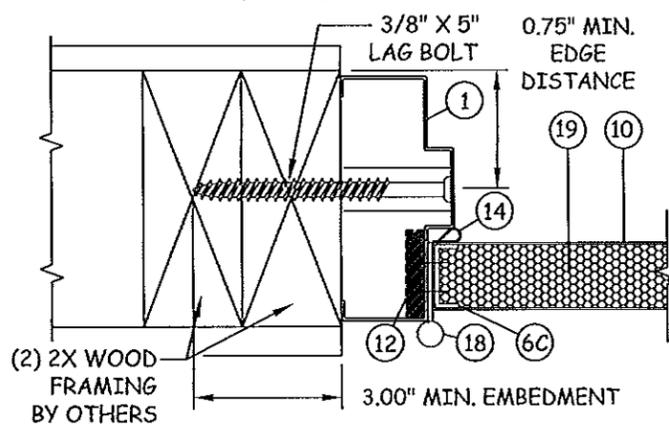
HERMES F. NORRIS, P.E.
FLORIDA P. E. NO. 73773
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBC CERT. OF AUTHORIZATION NO. 29378

DATE: 12.15.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: **RDF005**
SHEET: **6 OF 9**

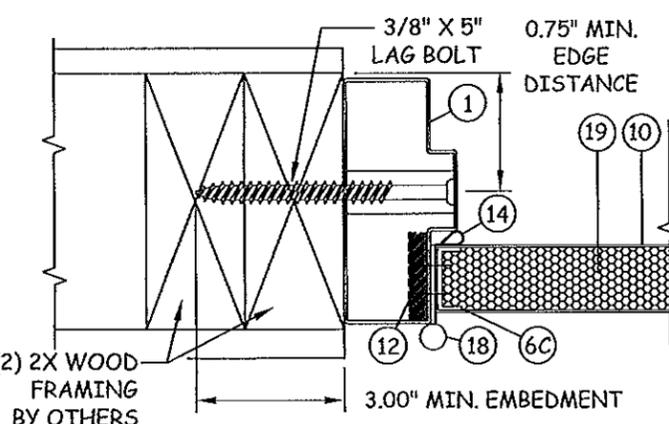
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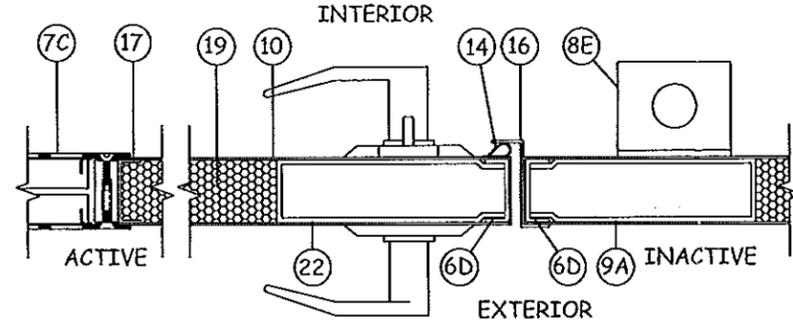
N
7 **HORIZONTAL SECTION**
3/8" X 6" LAG BOLT
JAMB - 2X WOOD FRAME



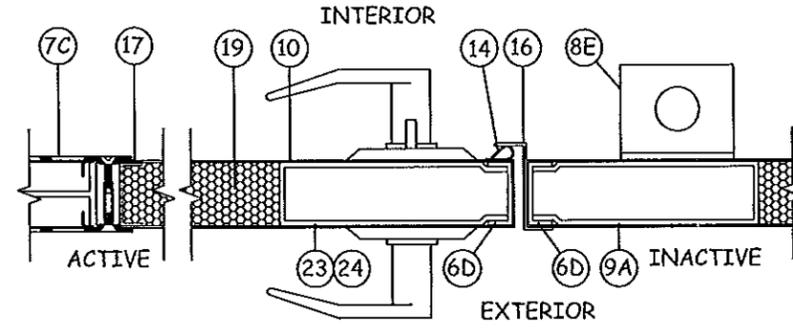
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7 **HORIZONTAL SECTION**
3/8" X 6" LAG BOLT
JAMB - 2X WOOD FRAME



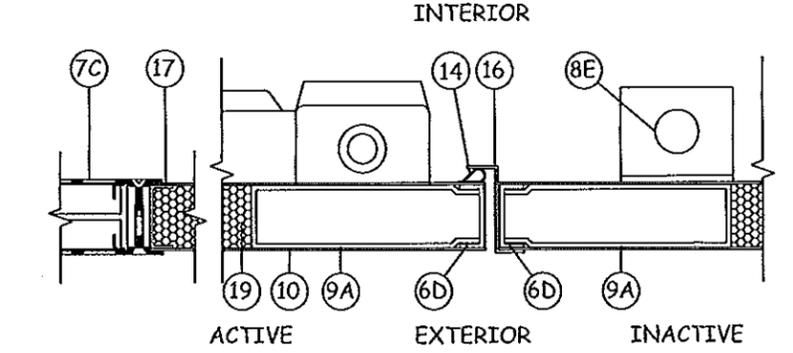
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7 **HORIZONTAL SECTION**
3/8" X 6" LAG BOLT
JAMB - 2X WOOD FRAME



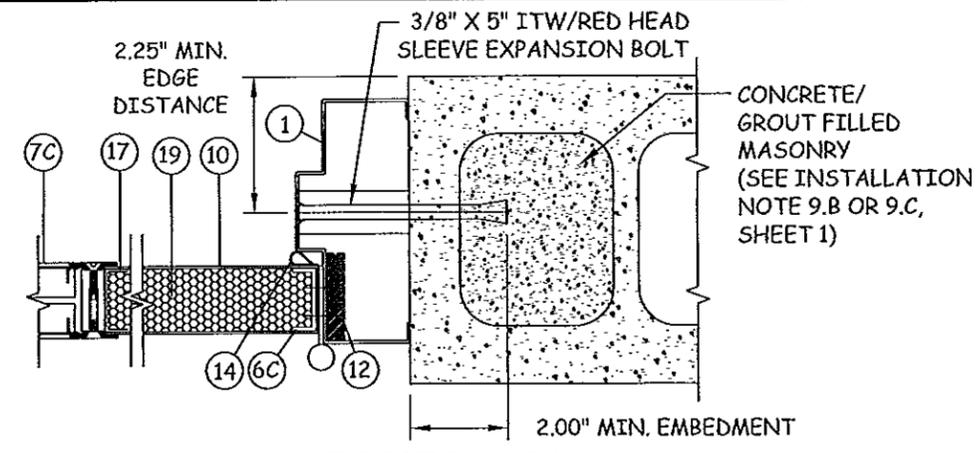
P
7 **HORIZONTAL SECTION**
MORTISE LOCK WITH DEADLOCK



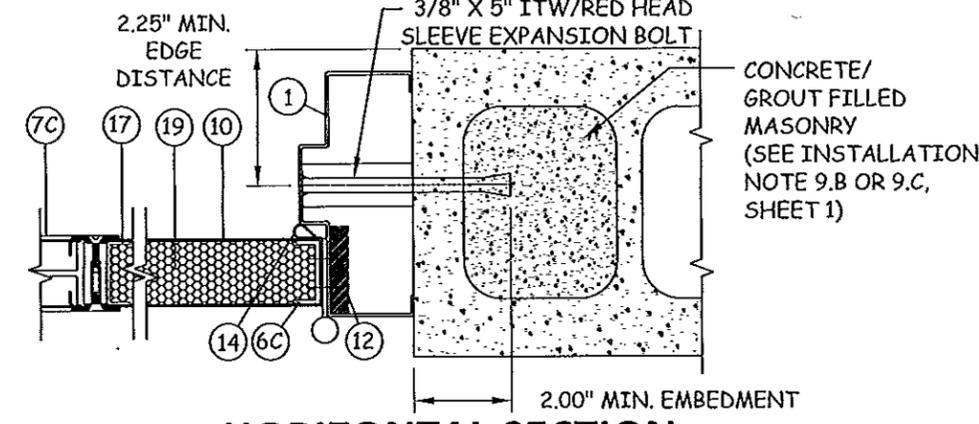
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7 **HORIZONTAL SECTION**
CYLINDRICAL LOCK WITH DEADLOCK



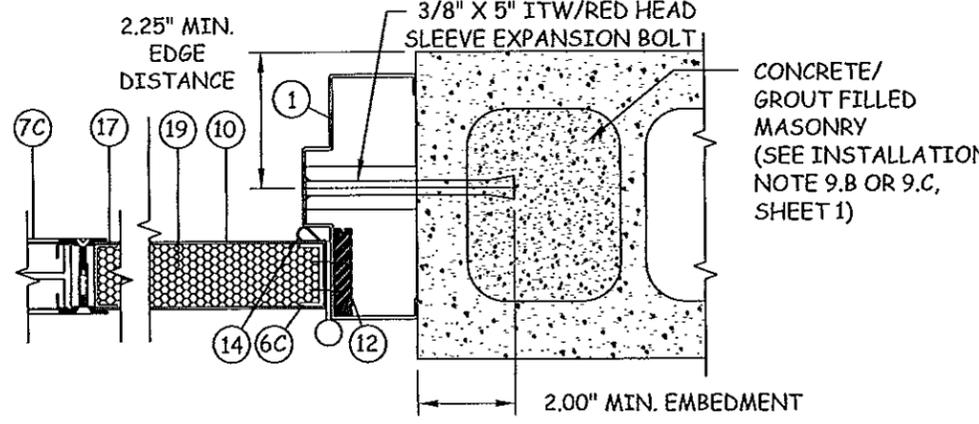
H
7 **HORIZONTAL SECTION**
HCF SURFACE VERTICAL ROD W/ PANIC



Q
7 **HORIZONTAL SECTION**
EXPANSION BOLT WITH PIPE AND STRAP
JAMB - CONCRETE/MASONRY



M
7 **HORIZONTAL SECTION**
EXPANSION BOLT WITH PIPE AND STRAP
JAMB - CONCRETE/MASONRY



J
7 **HORIZONTAL SECTION**
EXPANSION BOLT WITH PIPE AND STRAP
JAMB - CONCRETE/MASONRY

Approved on compliance with the
 Florida Building Code
 Date: 3/22/13
 NO. 12-0601-2
 Miami-Dade Product Control
 By: [Signature]

Republic
doors · frames

155 REPUBLIC DRIVE
 MCKENZIE, TN 38201
 PH: (800) 799-3667 FX: (731) 352-2556

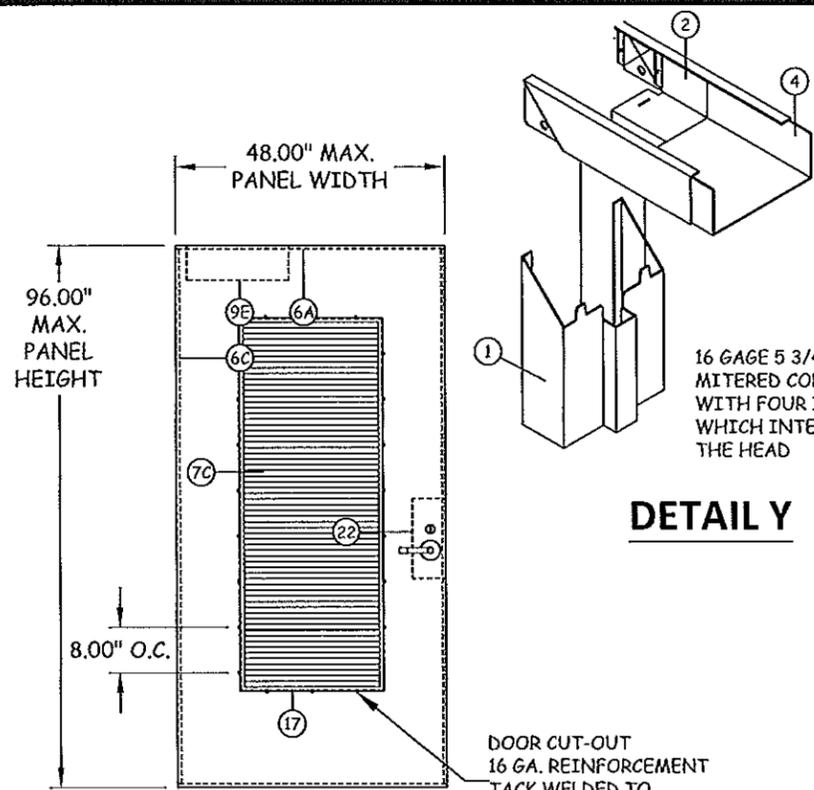
TITLE: DL416 LOUVERED ST. DOOR
 HORIZONTAL SECTIONS
 PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		DESCRIPTION	BY	DATE
NO.	A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
	B	2010 FBC UPDATES	MS	04.10.12

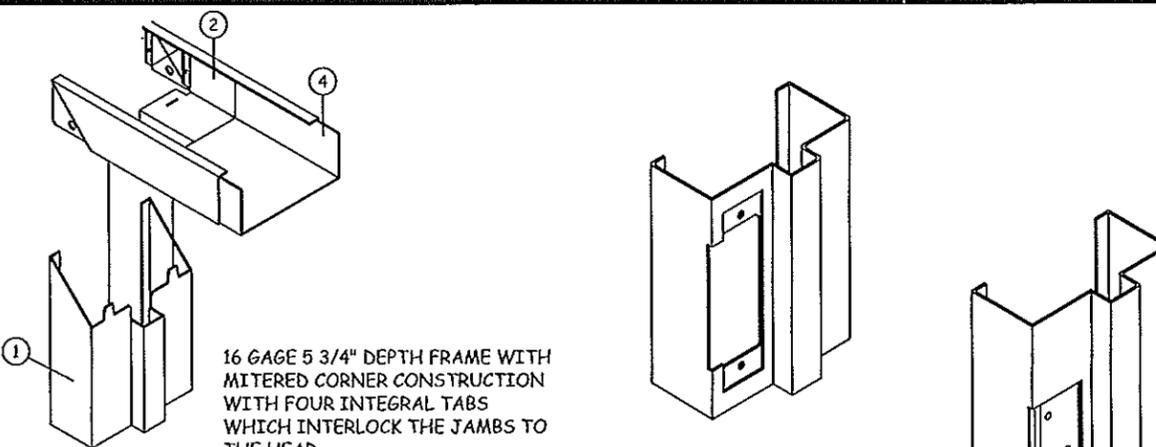
HERMES F. NORRIS, P.E.
 FLORIDA P. E. NO. 73772
 398 E. DANIA BEACH BLVD. #338
 DANIA BEACH, FL 33004
 FBPE CERT. OF AUTHORIZATION NO. 29878

DATE:	12.15.08	DWN BY:	JLR	CHK BY:	HN	SCALE:	NTS
DWG #:	RDF005						
SHEET:	7 OF 9						

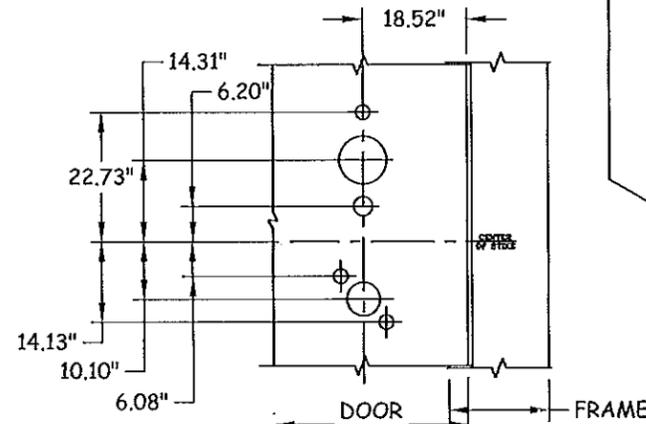
TITLE: DL416 LOUVERED ST. DOOR
CORNER ASSEMBLY & COMPONENTS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 395-8478 FX: (954) 744-4738



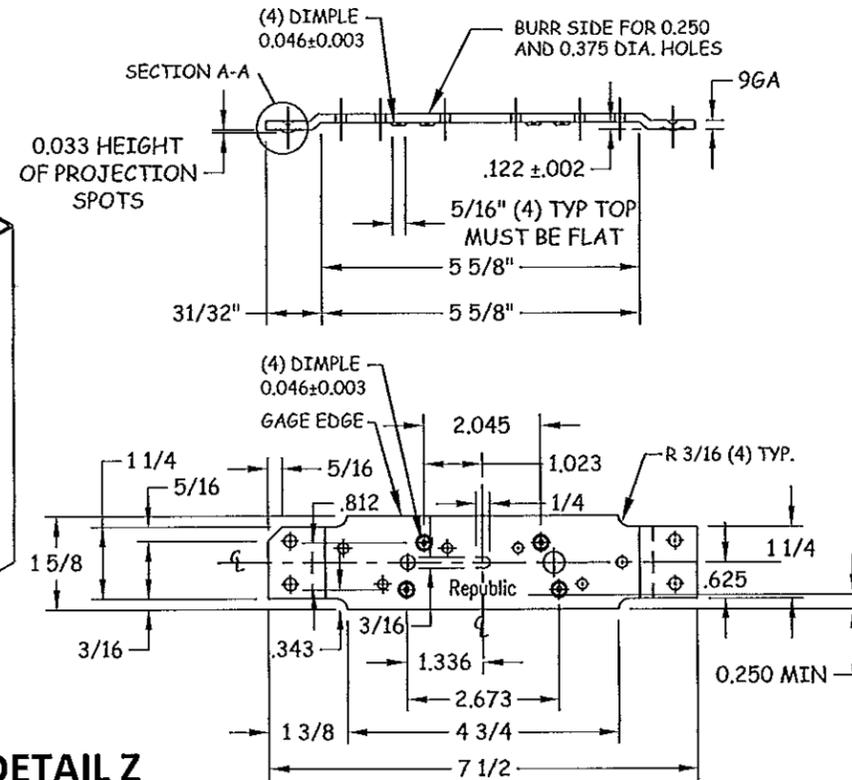
DOOR CUT-OUT REINFORCEMENT DETAIL



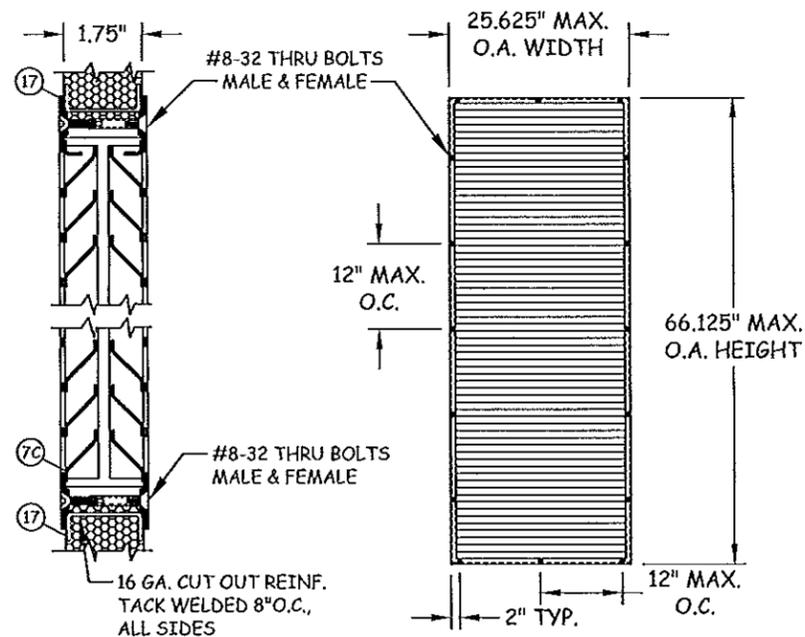
DETAIL Y



**DETAIL X
LOCK REINFORCEMENT**



**DETAIL Z
HINGE REINFORCEMENT**



DETAIL J

LOUVER PROFILE
ANCHORING PATTERN
#8-32 THRU BOLTS
LOUVER DETAIL & ANCHOR LAYOUT
AIR LOUVERS MODEL 1500A

HONEYCOMB CORE			
Part Number	A	B	C
3993000	2'-0 TO 2'-6	CUT TO LENGTH	1.73
3993001	2'-8 TO 3'-4	CUT TO LENGTH	1.73
3993013	3'-6 TO 4'-0	CUT TO LENGTH	1.73

- General**
Type 99-0-3/4 Honeycomb core is fabricated of Kraft paper and is bonded together to form 3/4" wide hexagonal cells when expanded. Core is to be Non-impregnated, not expanded with cut edges, 1.730" ± .010 thick.
- Honeycomb Core Data**

Base Material, lbs./3000 sq. ft. sheet stock	99
Resin Content	0
Moisture Content	6-8%
Cell Size	3/4"
Density lbs./cubic ft. expanded	1.56
Crushing lbs./sq. in.	48

HONEYCOMB CORE

Approved as complying with the Florida Building Code
Date: MAY 02, 2013
NON-IMPREGNATED
By: [Signature]

DATE: 12.15.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS
DWG #: RDF005
SHEET: 8 OF 9

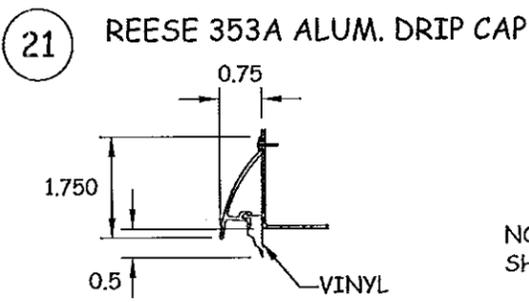
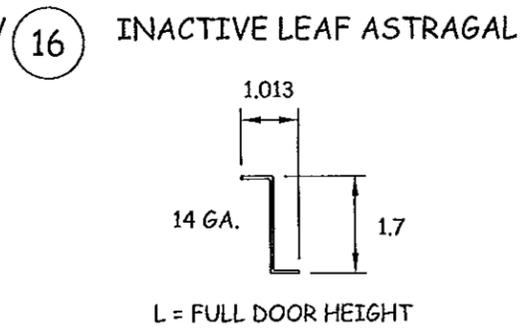
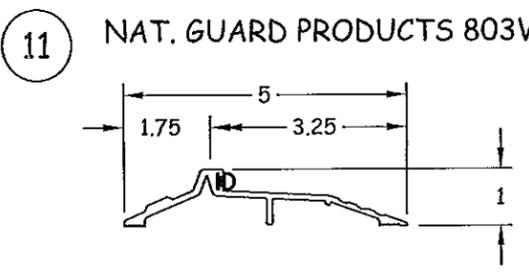
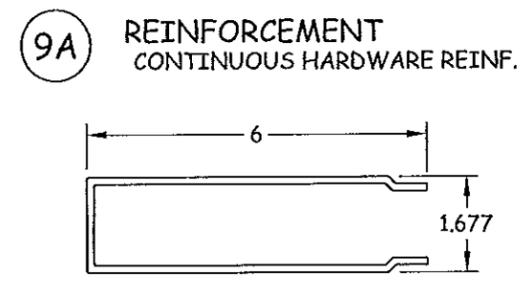
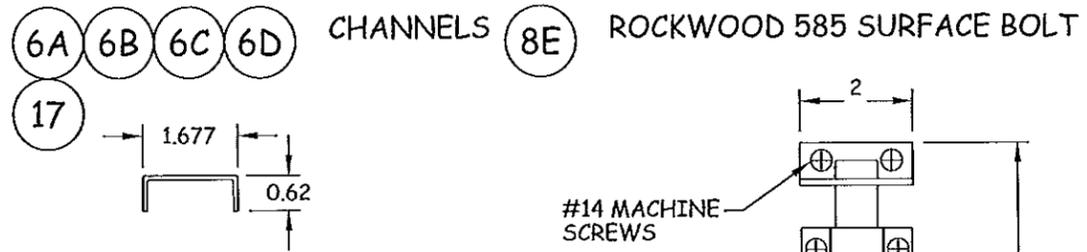
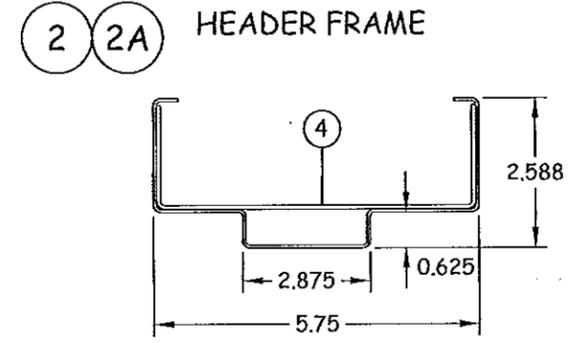
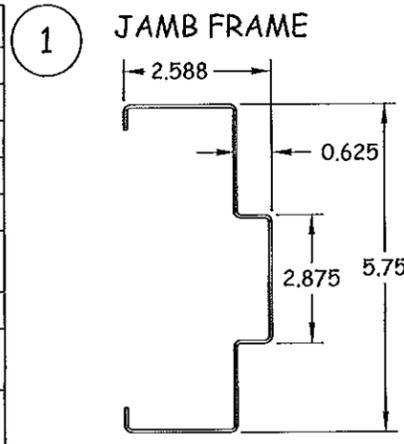
REVISIONS

NO.	DESCRIPTION	BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	2010 FBC UPDATES	MS	04.10.12

[Signature]
HERMES F. MORERO, P.E.
FLORIDA P. E. NO. 73770
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PERM. CERT. OF AUTHORIZATION, INC. 20978

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	96" X 5.75" DOUBLE SWING JAMB PAIR OR SINGLE JAMB	0.053" STEEL	REPUBLIC DOOR & FRAMES
2	96" X 5.75" FACE DOUBLE OPENING HEADER	0.053" STEEL	REPUBLIC DOOR & FRAMES
2A	52" X 5.75" SINGLE DOOR HEADER	0.053" STEEL	REPUBLIC DOOR & FRAMES
3	HINGE REINFORCING FRAME	0.132" STEEL	REPUBLIC DOOR & FRAMES
4	HEADER SLEEVE REINFORCEMENT 14 GA. (.067") X 5.6875" X FULL LENGTH HEADER	0.067" STEEL	REPUBLIC DOOR & FRAMES
5	BASE ANCHOR 1.875" X 1.875"	0.053" STEEL	REPUBLIC DOOR & FRAMES
6A	TOP CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL LENGTH DOOR PANEL WIDTH	0.053" STEEL	REPUBLIC DOOR & FRAMES
6B	BOTTOM CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL LENGTH OF DOOR PANEL WIDTH	0.053" STEEL	REPUBLIC DOOR & FRAMES
6C	HINGE CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
6D	LOCK CHANNELS 16 GA. X 1.677" X 0.62" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
7C	AIR LOUVER 1500A W/ SECURITY GRILL	STEEL	AIR LOUVERS INC.
8A	DORMA ML9953D MORTISE LOCK W/ DEADBOLT	STEEL	DORMA
8B	DORMA CL753D STANDARD LATCH	STEEL	DORMA
8C	DORMA DB660D DEADLOCK	STEEL	DORMA
8D	HCF 9400 SURFACE VERTICAL ROD W/ PANIC DEVICE	STEEL	PRECISION
8E	ROCKWOOD 585 SURFACE BOLTS	STEEL	ROCKWOOD
9A	CONTINUOUS HARDWARE REINF. 12 GA. (.0101") 1.677" X 6" X (DOOR HEIGHT - 11")	0.101" STEEL	REPUBLIC DOOR & FRAMES
9B	EXIT DEVICE REINFORCEMENT 14 GA. (.0067") 1.677" X 5.313" X 14"	0.067" STEEL	REPUBLIC DOOR & FRAMES
9D	CH LOCK REINFORCEMENT 16 GA. X 1.677" X 0.62" X 1.677" CHANNEL FULL DOOR HEIGHT	0.053" STEEL	REPUBLIC DOOR & FRAMES
9E	CLOSER REINFORCEMENT 12 GA. (.01001") X 1.677" X 6" X 18"	0.101" STEEL	REPUBLIC DOOR & FRAMES
10	DOOR SKINS, 16 GA., Fy=45.7 KSI MIN.	0.054" STEEL	REPUBLIC DOOR & FRAMES
11	NATIONAL GUARD PRODUCTS 803V (THRESHOLD)	ALUMINUM	NATIONAL GUARD PRODUCTS
12	DOOR HINGE REINFORCEMENT 9 GA. (.0132") X 7.5" X 1.625"	0.132" STEEL	REPUBLIC DOOR & FRAMES
13	ANCHORS (SEE SHEET 5) 3/8" LAG BOLT, 3/8" DYNABOLT ITW/RED HEAD, & 1/4" ITW (SILL ONLY)	VARIABLES	ITW / RED HEAD
14	NATIONAL GUARD PROD. 5050B-20	VINYL BULB	NATIONAL GUARD PRODUCTS
15	ALL PURPOSE SILICONE CAULK	SILICONE	
16	INACTIVE LEAF ASTRAGAL 14 GA. (.0067") X 1.7" X FULL DOOR HEIGHT	0.067" STEEL	REPUBLIC DOOR & FRAMES
17	16 GA. CUT OUT REINFORCEMENT	0.053" STEEL	REPUBLIC DOOR & FRAMES
18	PBB - STANDARD WT. 4 1/2" X 4 1/2" X .134" THICK HINGES		PBB
19	HONEYCOMB CORE TYPE 99-0-3/4	KRAFT PAPER	REPUBLIC DOOR & FRAMES
20	SURFACE BOLT ANGLE REINFORCEMENT 7 GAUGE X 0.175" X 1.5" X 1.5"	0.175" STEEL	
21	REESE 353A ALUMINUM DRIP CAP	ALLOY 6063-T5	
22	MORTISE LOCK REINFORCEMENT 14 GAUGE X 1.677" X 5.313" X 14"	0.067" STEEL	REPUBLIC DOOR & FRAMES
23	DEAD LOCK REINFORCEMENT 16 GAUGE X 3" X 3"	0.053" STEEL	REPUBLIC DOOR & FRAMES
24	CYLINDRICAL LOCK REINFORCEMENT 16 GAUGE X 3" X 2.5"	0.053" STEEL	REPUBLIC DOOR & FRAMES



REESE 353A ALUMINUM DRIP CAP WITH VINYL FLAP AT HEADER

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES.

Approved as complying with the Florida Building Code

DATE: 12.15.08
DWN BY: JLR
CHK BY: HN
SCALE: NTS

DWG #: RDF005
SHEET: 9 OF 9

Republic doors · frames

155 REPUBLIC DRIVE
MCKENZIE, TN 38201
PH: (800) 799-3667 FX: (731) 352-2556

TITLE: DL416 LOUVERED ST. DOOR
BILL OF MATERIALS & COMPONENTS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

NO.	DESCRIPTION	REVISIONS	
		BY	DATE
A	COMMENTS PER MIAMI-DADE CO.	JLR	06.02.09
B	2010 FBC UPDATES	MS	04.10.12

HERMES F. NORRISO, P.E.
FLORIDA P.E. NO. 73778
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBBE CERT. OF AUTHORIZATION NO. 20578

3/25/2013 12:10 PM
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