



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

BP-Glass Garage Doors & Entry Systems, Inc.
1511 W. 2nd St.
Pomona, CA 91766

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: Models BP-450 HD/BP-550 SHD Aluminum and Glass Sectional Garage Door up to 24'-2" Wide x 16'-1" High

APPROVAL DOCUMENT: Drawing No. **BPC005**, titled "BP-450 HD/BP-550 SHD Glass Garage Door" sheets 1 through 8 of 8, dated 01/13/2012, with last revision dated 11/2020, prepared by Building Drops, Inc, signed and sealed by Hermes F. Norero, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

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 **renews** and **revises** **NOA # 20-1123.02** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
01/30/2025

NOA No. 24-1218.03
Expiration Date: January 17, 2031
Approval Date: January 30, 2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS “Submitted under NOA # 16-0314.10”

1. Drawing No. **BPC005**, titled “BP-450 HD/BP-550 SHD Glass Garage Door”, sheets 1 through 8 of 8, dated 01/13/2012, with revision B dated 01/05/2016, prepared by Building Drops, Inc, signed and sealed by Hermes F. Norero, P.E.

B. TESTS “Submitted under NOA # 12-0620.15”

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC TAS 202-94
along with installation diagram on three Series/Model BP-450/ BP-550 SHD Hurricane Line, glazed sectional garage doors, prepared by Architectural Testing, Inc, Test Report No. **A6707.01-301-18**, dated 11/22/2011, with Revision 2 dated 06/01/2012, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS “Submitted under NOA # 16-0314.10”

1. Anchor calculations prepared by Building Drops, Inc., dated 01/05/2016, signed and sealed by Hermes F. Norero, P.E.

“Submitted under NOA # 14-0211.10”
2. Product evaluation report prepared by Building Drops, Inc., dated 01/07/2014, signed and sealed by Hermes F. Norero, P.E.

“Submitted under NOA # 12-0620.15”
3. Product evaluation report complying with FBC 2010, prepared by Building Drops, Inc, dated 05/11/2012, 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. None.

F. STATEMENTS “Submitted under NOA # 16-0314.10”

1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest issued by Building Drops, Inc., dated 01/05/2016, signed and sealed by Hermes F. Norero, P.E.

“Submitted under NOA # 14-0211.10”
2. Statement letter of code conformance to 2010 FBC and no financial interest issued by Building Drops, Inc., dated 09/23/2013, signed and sealed by Hermes F. Norero, P.E.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-1218.03
Expiration Date: January 17, 2031
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 17-1207.01

A. DRAWINGS

1. Drawing No. **BPC005**, titled “BP-450 HD/BP-550 SHD Glass Garage Door”, sheets 1 through 8 of 8, dated 01/13/2012, with revision C dated 10/12/2017, prepared by Building Drops, Inc, signed and sealed by Hermes F. Norero, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th edition (2017) FBC and of no financial interest issued by Building Drops, Inc., dated 10/12/2017, signed and sealed by Hermes F. Norero, P.E.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-1218.03
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3. New evidence submitted

A. DRAWINGS

1. Drawing No. **BPC005**, titled “BP-450 HD/BP-550 SHD Glass Garage Door”, sheets 1 through 8 of 8, dated 01/13/2012, with last revision dated 11/2020, prepared by Building Drops, Inc, signed and sealed by Hermes F. Norero, P.E.

B. TESTS

1. None.

D. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) FBC and of no financial interest issued by Building Drops, Inc., dated 11/18/2020, signed and sealed by Hermes F. Norero, P.E.
2. Statement letter of code conformance to the 8th edition (2023) FBC and of no financial interest issued by Building Drops, Inc., dated 12/04/2024, signed and sealed by Hermes F. Norero, P.E.



Sifang Zhao, P.E.
Product Control Examiner
NOA No. 24-1218.03
Expiration Date: January 17, 2031
Approval Date: January 30, 2025

bp-GLASS GARAGE DOORS & ENTRY SYSTEMS, INC.

bp-450 HD/bp-550 SHD GLASS GARAGE DOOR (U.S. PAT.) - HURRICANE SYSTEM

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 ±1/2 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE 3/8 INCH LAG SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION DIRECTLY INTO CONCRETE/MASONRY, SEE TABLES A-C (SHEET 6) FOR MINIMUM DIAMETER AND MINIMUM EMBEDMENT INFO.
- FOR INSTALLATION THROUGH STEEL STUD, USE 3/8 INCH DIAMETER STEEL BOLTS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF THREE (3) THREADS OF PENETRATION BEYOND STEEL STRUCTURE.
- 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 HOLLOW BLOCK AND 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 3000 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 2104.1 FOR GROUTED MASONRY REQUIREMENTS.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 118 MILS (11 GAUGE)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 7TH (2020) EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 4X 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.
- 4X 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.
- APPROVED IMPACT PROTECTIVE SYSTEM IS **NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: ALUMINUM
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE 7TH EDITION (2020) FBC.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.
- EPDM GLAZING GASKET HAS BEEN TESTED IN ACCORDANCE WITH FBC 2411.3.4.
- BP HURRICANE SYSTEM IS PATENTED IN THE USA.
- BP-DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACTS (EXTERIOR SHUTTERS NOT REQUIRED FOR WIND BORN DEBRIS PROTECTION).
- BP-DOORS ARE WATER RATED PER ASTM E331 & ASTM E547.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	ASSEMBLY DETAILS & GLAZING DETAILS
4	VERTICAL & HORIZONTAL SECTIONS
5	HORIZONTAL SECTIONS
6	ANCHOR TABLES & BRACKET DETAIL
7	COMPONENTS & BILL OF MATERIALS
8	COMPONENTS

DESIGN PRESSURE RATING	
DESIGN PRESSURE - ALL SIZES	MISSILE IMPACT RATING
+50.0 / -50.0 PSF*	SMALL AND LARGE MISSILE IMPACT RATED

*REMOVABLE REINFORCEMENT REQUIRED

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-1218.03
Expiration Date Jan. 17, 2031
By 
Miami-Dade Product Control



BP-GLASS GARAGE DOORS & ENTRY SYSTEMS, INC.
1511 W. 2ND ST.
POMONA, CA 91766
PH: (626) 442-1716 FX: (626) 579-5320
www.GlassGarageDoors.com

TITLE: BP-450/550 SHD GLASS GARAGE DOOR (U.S. PAT.) - HURRICANE SYSTEM
INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.
1500 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ANCHOR OPTS. ADDED	TJM	10/13
5TH ED. FBC UPDATE	SIM	01/16
6TH ED. FBC UPDATE	EG	10/17
7TH ED. FBC UPDATE	LL	11/20

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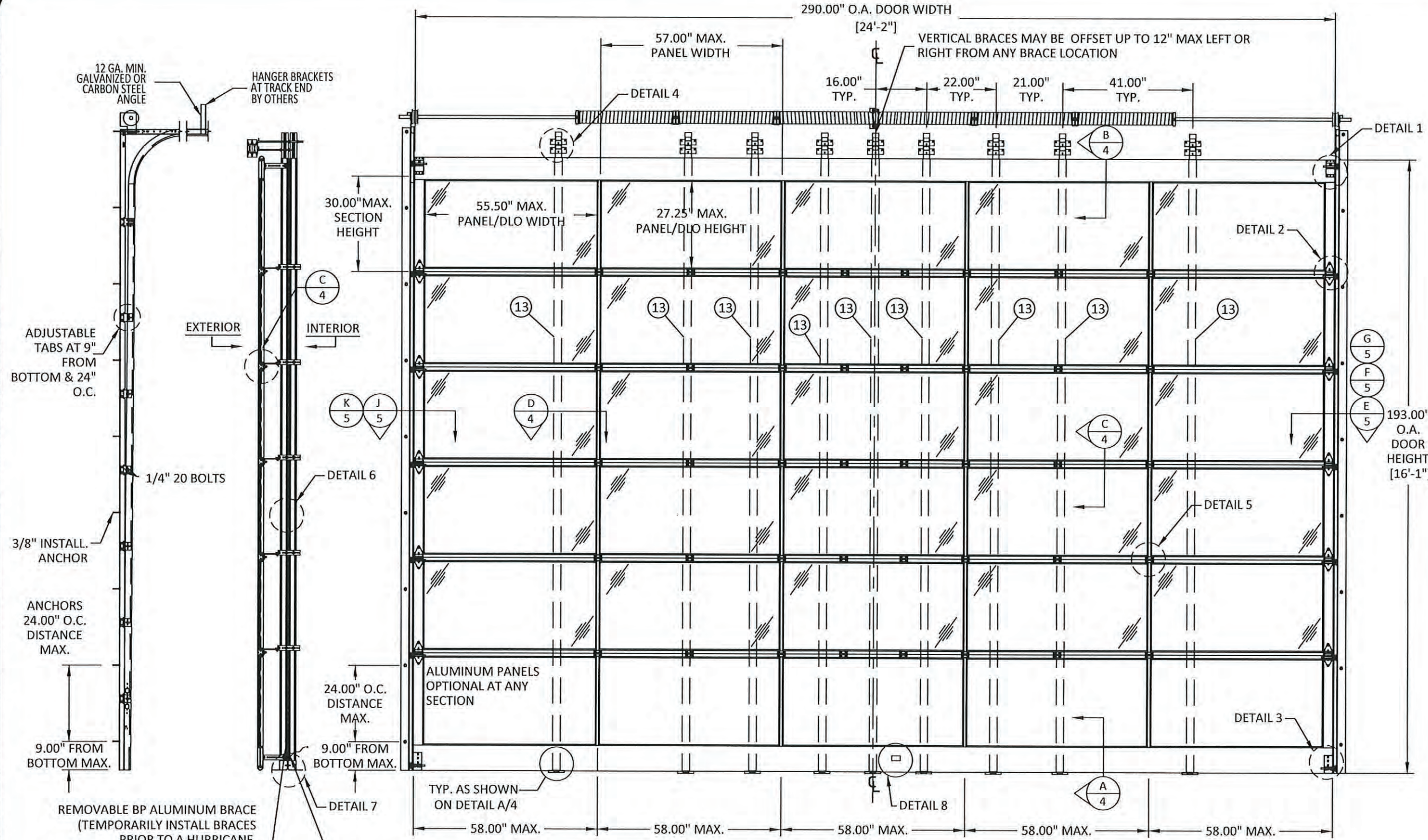


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
FBPE CERT. OF AUTHORIZATION No. 29578

DATE:	01.13.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	BPC005
SHEET:	

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REMOVABLE BP ALUMINUM BRACE
(TEMPORARILY INSTALL BRACES
PRIOR TO A HURRICANE.
AFTERWARDS, RETURN TO STORAGE
POSITION.)
REFER TO MANUFACTURER'S
INSTALLATION MANUAL FOR STEP BY
STEP INSTRUCTION DETAILS

ANCHOR LAYOUT

INTERIOR ELEVATION

SEE SHEET 3 FOR ALL
NOTED DETAILS

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-1218.03
Expiration Date Jan. 17, 2031
By *CS*
Miami-Dade Product Control



**BP-GLASS GARAGE DOORS
& ENTRY SYSTEMS, INC.**
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POMONA, CA 91766
PH: (626) 442-1716 FX: (626) 579-5320
www.GlassGarageDoors.com

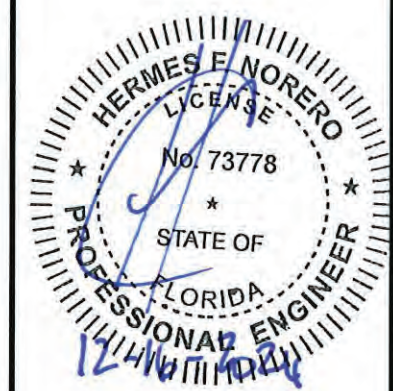
TITLE: BP-450/550 SHD GLASS GARAGE DOOR
(U.S. PAT.) - HURRICANE SYSTEM
ELEVATION &
ANCHOR LAYOUT

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 995-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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5TH ED. FBC UPDATE	SIM	01/16
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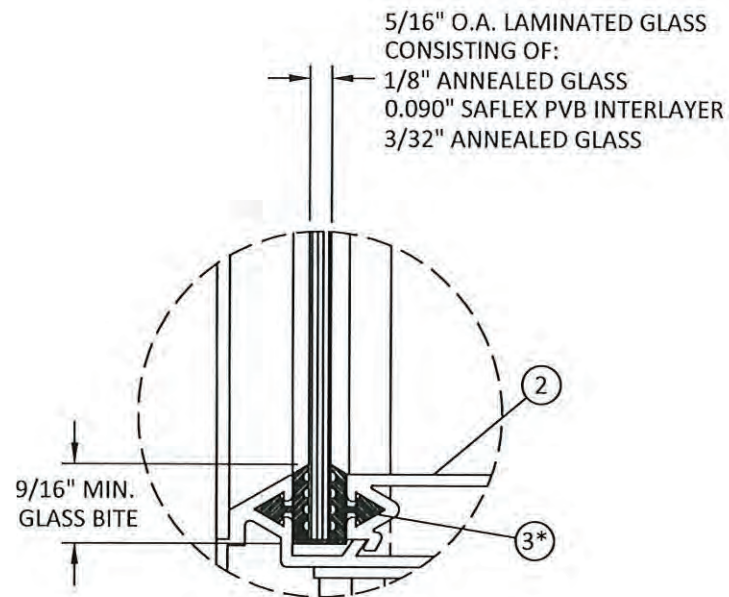
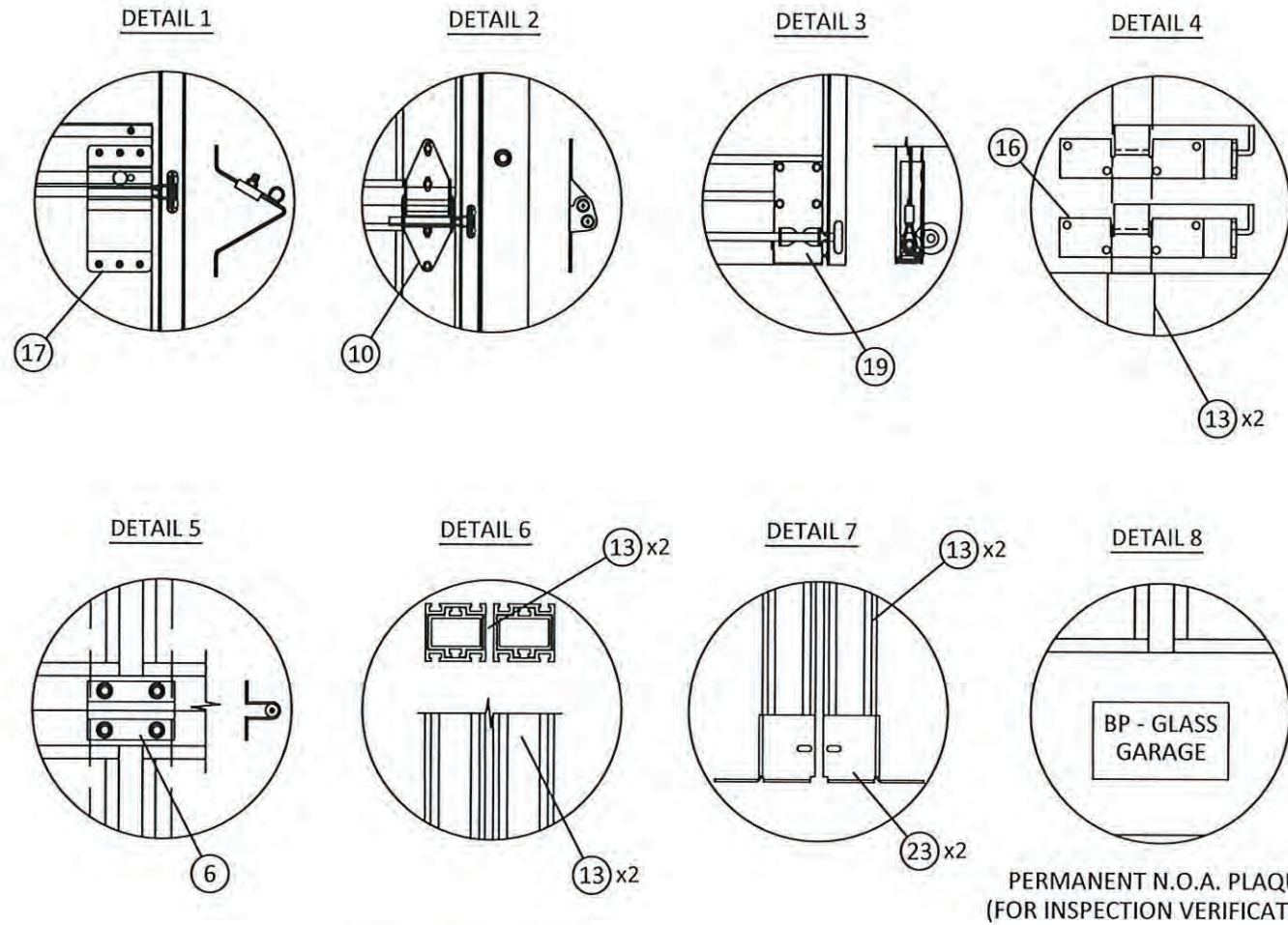


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
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DATE:	01.13.12
DWG. BY:	JLA
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SCALE:	NTS
DWG. #:	BPC005
SHEET:	

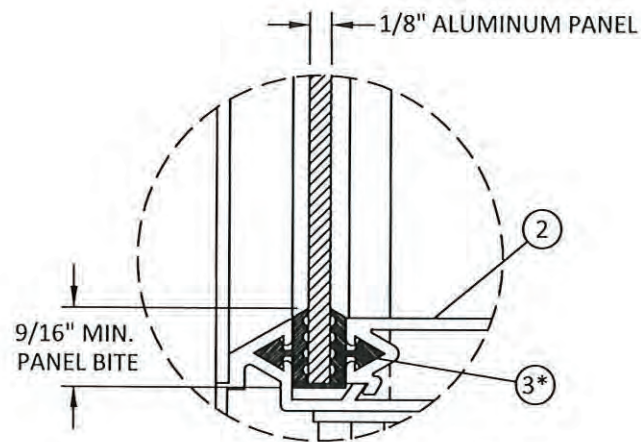
2

OF 8



GLAZING DETAIL


*GLAZING GASKET MIN.
DUROMETER = 70



PANEL DETAIL

*GLAZING GASKET MIN.
DUROMETER = 70

PERMANENT N.O.A. PLAQUE
(FOR INSPECTION VERIFICATION)

PRODUCT RENEWED
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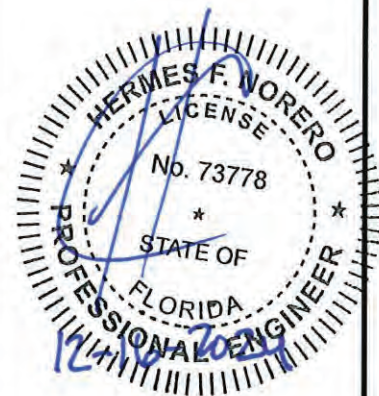
TITLE: BP-450/550 SHD GLASS GARAGE DOOR
(U.S. PAT.) - HURRICANE SYSTEM
ASSEMBLY DETAILS &
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 395-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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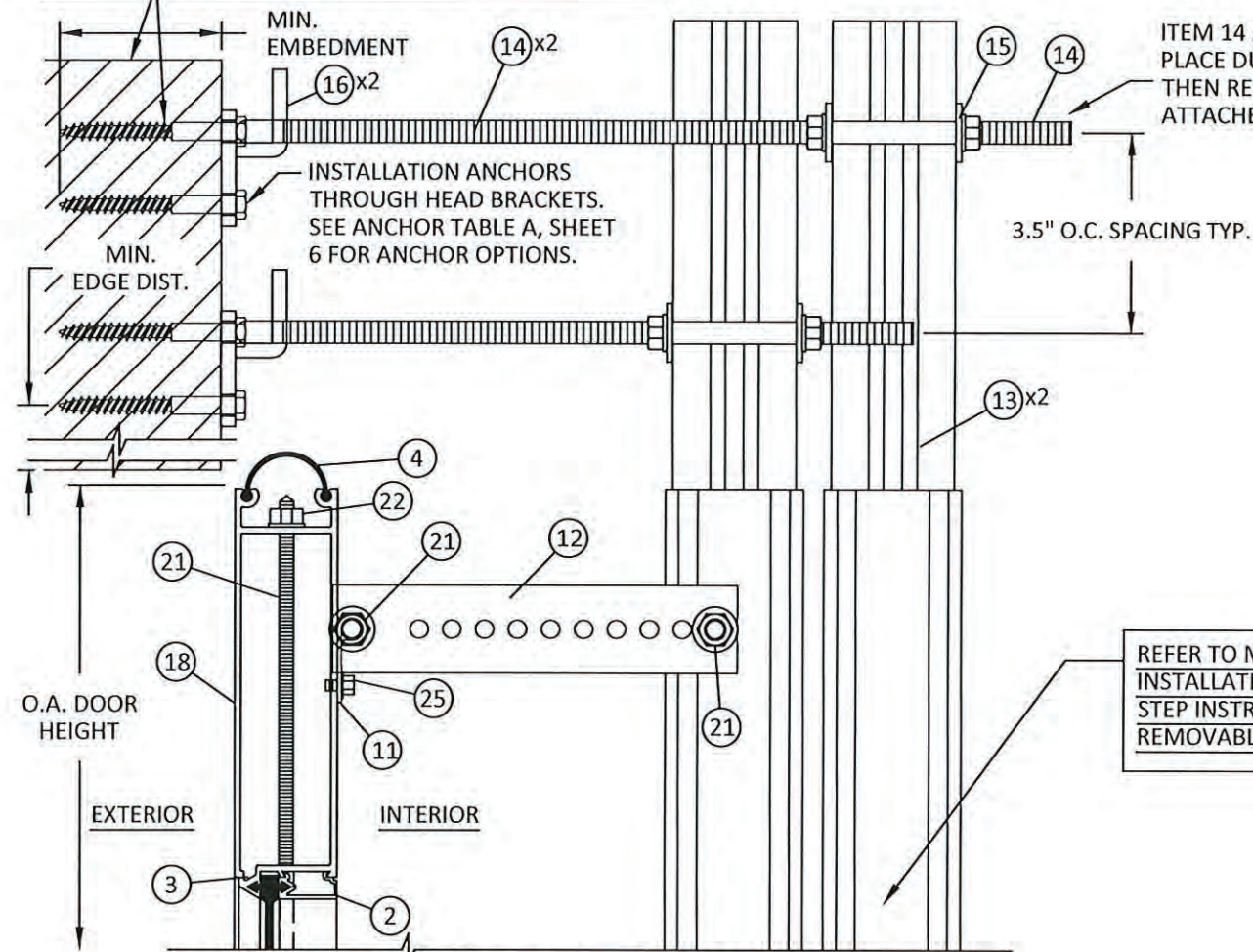
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DWG. #:	BPC005
SHEET:	3

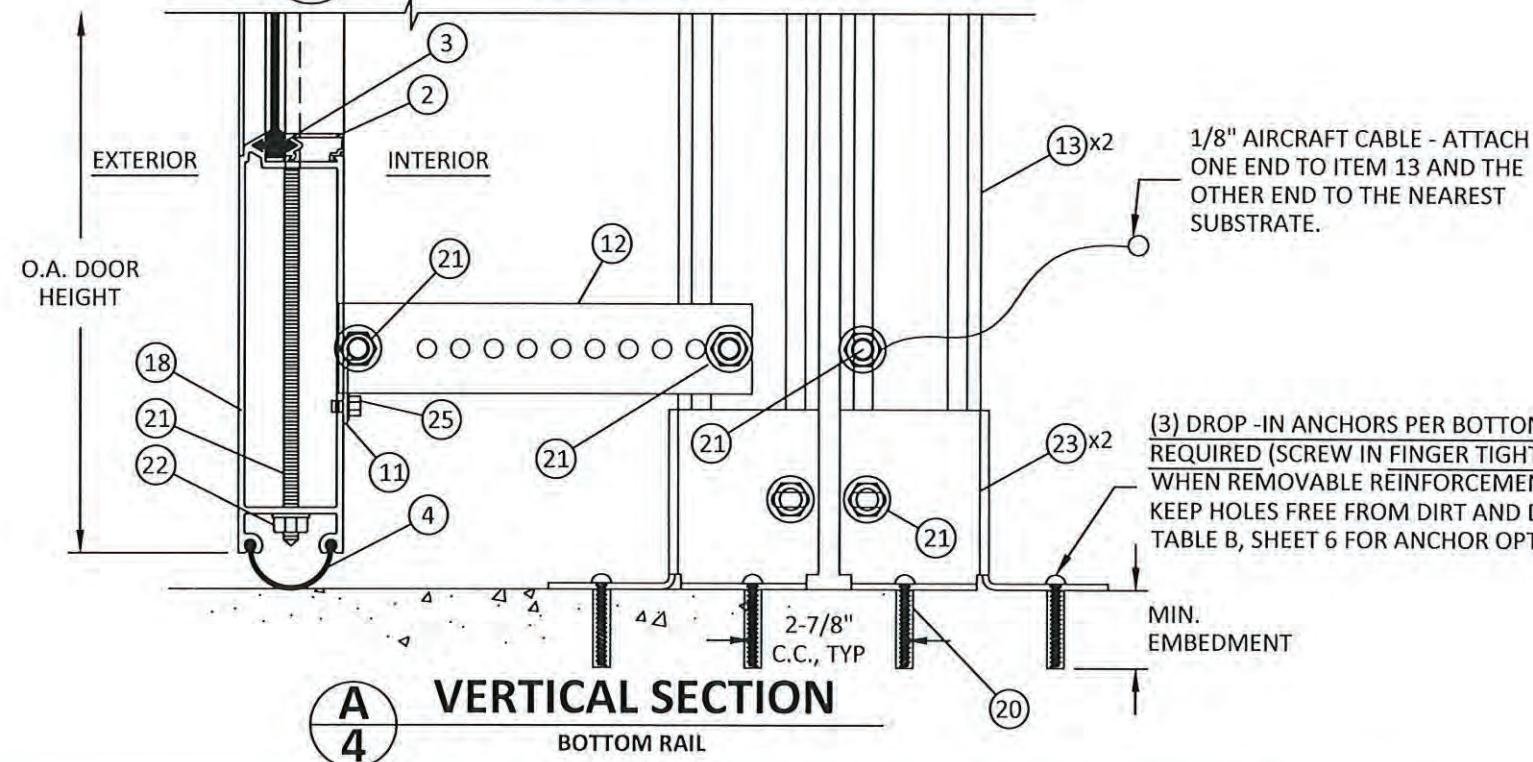
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NOTE: HEADER DETAIL CAN MATCH ANY OF THE JAMB AND/OR ANCHOR TYPES ON 4 OF 7.



B 4 VERTICAL SECTION
TOP RAIL



A 4 VERTICAL SECTION
BOTTOM RAIL

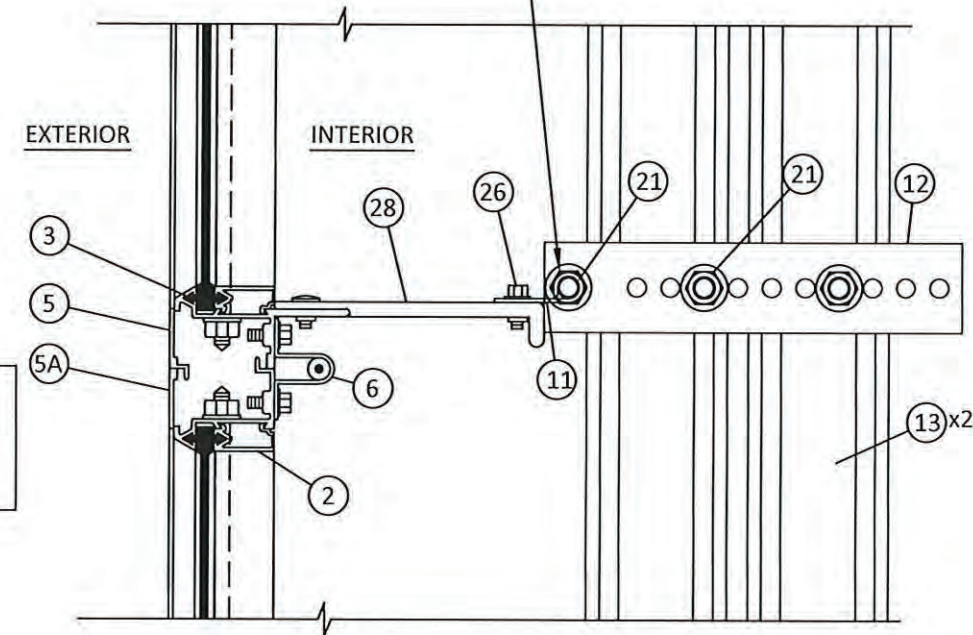
ITEM 14 AND 15 ARE ADJUSTED IN PLACE DURING FIRST INSTALLATION, THEN REMAIN PERMANENTLY ATTACHED TO ITEM 13 THEREAFTER

REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR STEP BY STEP INSTRUCTION DETAILS ON REMOVABLE REINFORCEMENT

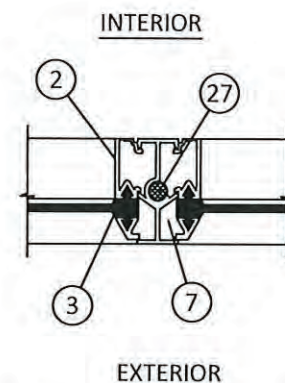
1/8" AIRCRAFT CABLE - ATTACH ONE END TO ITEM 13 AND THE OTHER END TO THE NEAREST SUBSTRATE.

(3) DROP-IN ANCHORS PER BOTTOM BRACKET REQUIRED (SCREW IN FINGER TIGHT AND KEEP IN PLACE WHEN REMOVABLE REINFORCEMENT IS NOT IN USE TO KEEP HOLES FREE FROM DIRT AND DEBRIS). SEE ANCHOR TABLE B, SHEET 6 FOR ANCHOR OPTIONS.

ITEM 21 - THROUGH BOLT WITH WING NUT (SCREW IN FINGER TIGHT AND KEEP ATTACHED TO ITEM 12 DEFLECTION BRACKETS WHEN REMOVABLE REINFORCEMENT IS NOT IN USE)



C 4 VERTICAL SECTION
INTERMEDIATE RAIL



D 4 HORIZONTAL SECTION
VERTICAL MULLION

PRODUCT RENEWED
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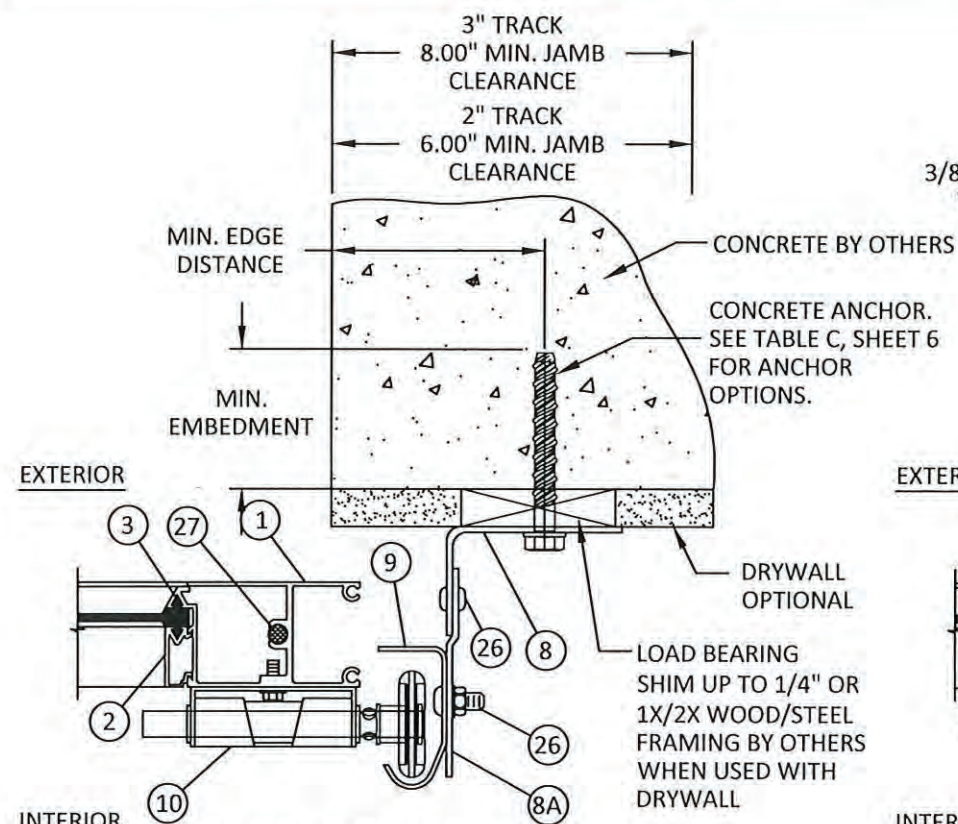
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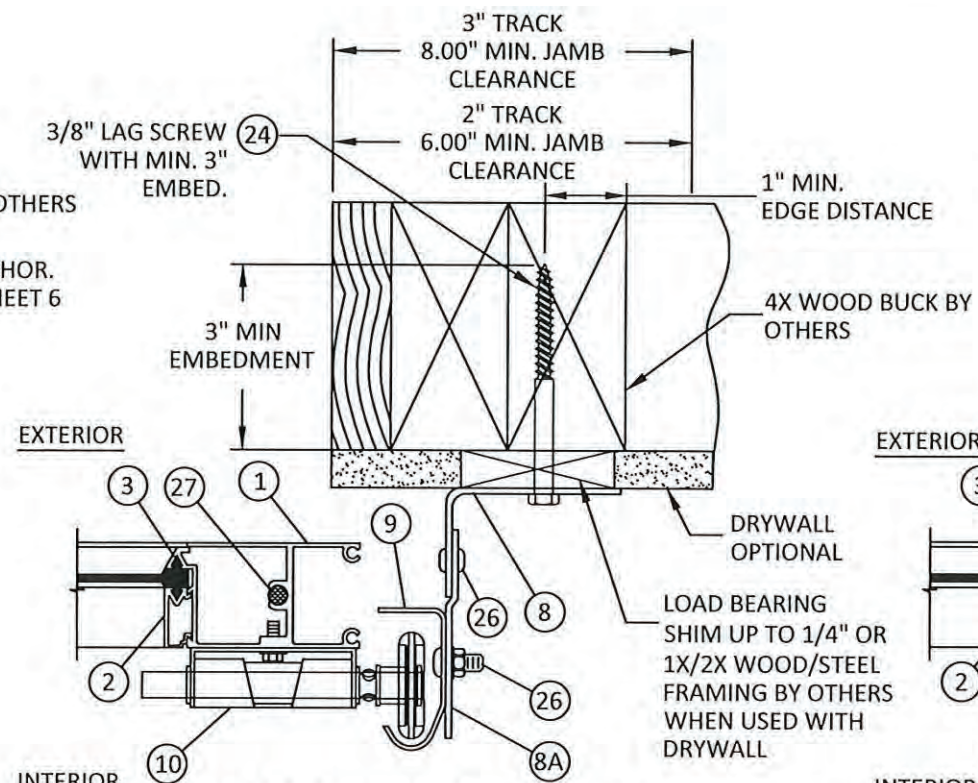
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SHEET:	4

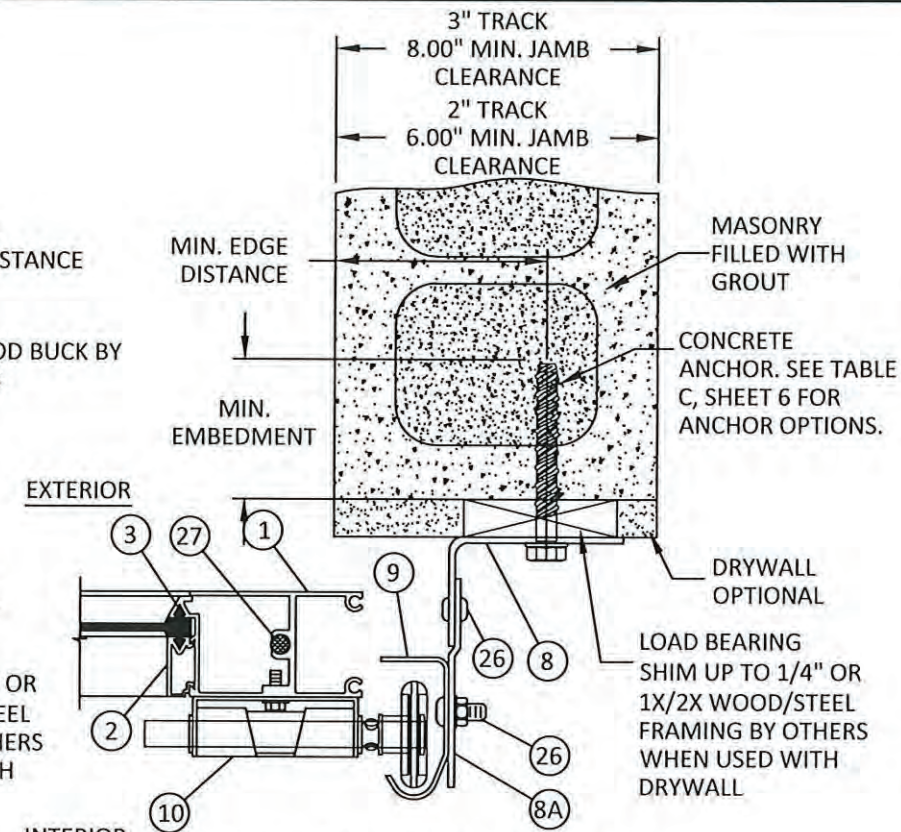
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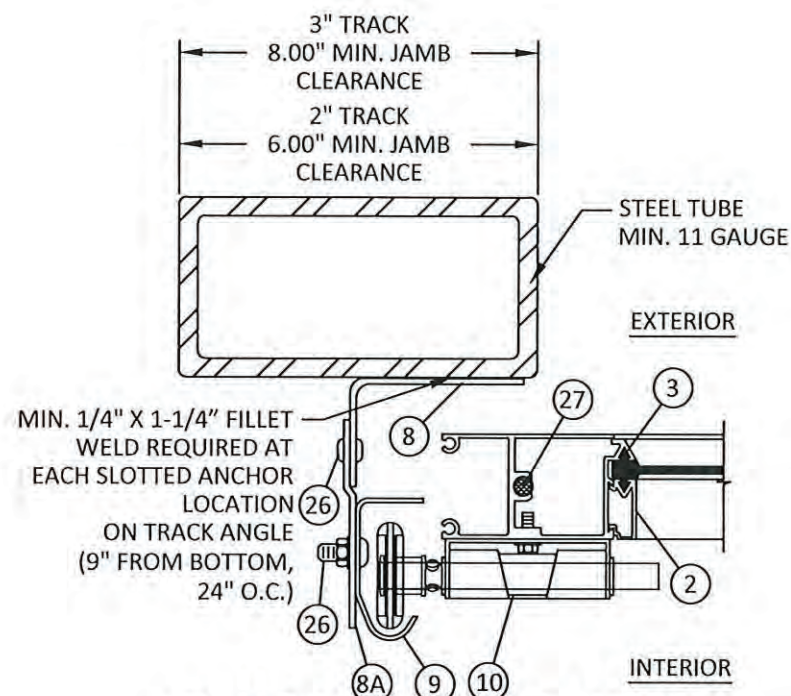
E HORIZONTAL SECTION
5 JAMBS - DRYWALL OVER CONCRETE ANGLE MOUNTED



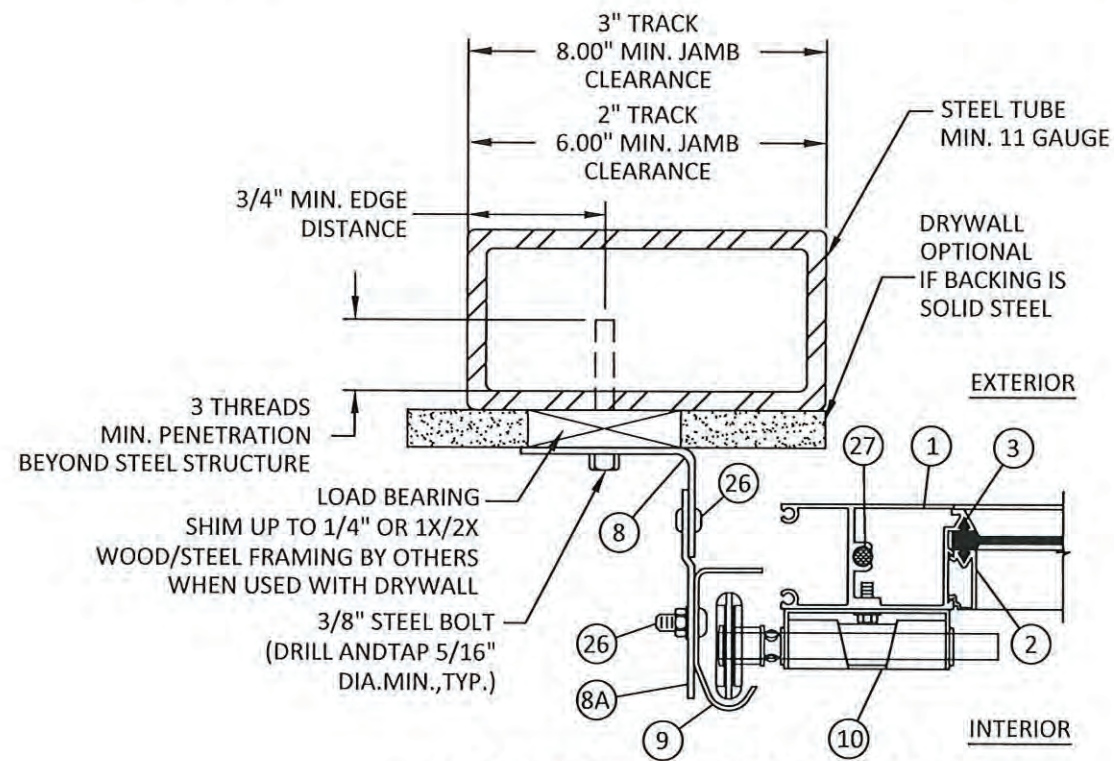
F HORIZONTAL SECTION
5 JAMBS - DRYWALL OVER 4X WOOD FRAME ANGLE MOUNTED



G HORIZONTAL SECTION
5 JAMBS - DRYWALL OVER CMU ANGLE MOUNTED



J HORIZONTAL SECTION
5 JAMBS - STEEL REVERSE ANGLE MOUNTED



K HORIZONTAL SECTION
5 JAMBS - STEEL W/ DRYWALL ANGLE MOUNTED

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-1218.03
Expiration Date Jan. 17, 2031
By *ca*
Miami-Dade Product Control



BP-GLASS GARAGE DOORS
& ENTRY SYSTEMS, INC.

1511 W. 2ND ST.
POMONA, CA 91766
PH: (626) 442-1716 FX: (626) 579-5320
www.GlassGarageDoors.com

TITLE: BP-450/550 SHD GLASS GARAGE DOOR
(U.S. PAT.) - HURRICANE SYSTEM

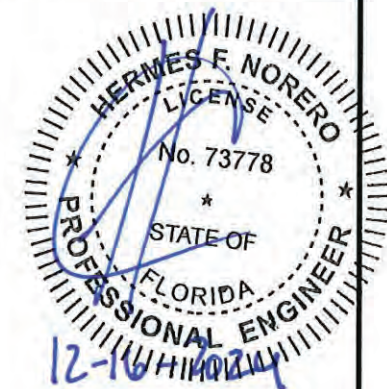
HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
1500 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 995-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ANCHOR OPTS. ADDED	TJM	10/13
5TH ED. FBC UPDATE	SIM	01/16
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7TH ED. FBC UPDATE	LL	11/20

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
FBPE CERT. OF AUTHORIZATION No. 29578

DATE:	01.13.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	BPC005
SHEET:	5

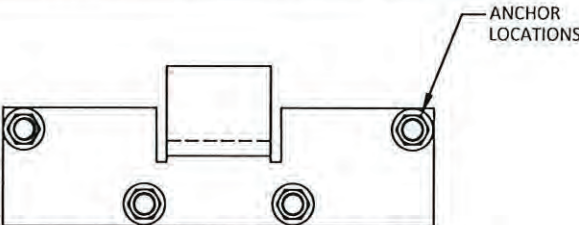
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Type	Anchor	Substrate	Embedment	Edge Distance	Max Allowable Capacity/Anchor
Drop-In	3/8" Hilti HDI	2000 psi concrete	1 9/16"	3 1/2"	539.75
	3/8" ITW Redhead	2000 psi concrete	1 5/8"	2 7/8"	745.00
	3/8" Powers Smart DI+	3000 psi concrete	1 9/16"	3 1/2"	556.64
Epoxy	3/8" ITW Redhead A7	2000 psi concrete	3 3/8"	3 1/2"	1192.33
	3/8" Simpson AT	2000 psi concrete	1 3/4"	3"	840.00
	3/8" Hilti HY150 MAX	2000 psi concrete	1 3/4"	3"	725.00
Expansion	3/8" Hilti Kwik Bolt 3	3000 psi concrete	2 1/2"	3 1/2"	1301.30
	3/8" Hilti Kwik Bolt 3	grout filled CMU	2 1/2"	3 1/2"	682.50
	3/8" ITW Redhead Wedge	2000 psi concrete	3"	3"	870.00
	3/8" Powers Bolt Expansion	3000 psi concrete	2 1/2"	3 1/2"	952.56
Tapcon/ Wedge Bolts	3/8" Redhead LDT	3000 psi concrete	1 1/2"	2"	413.00
	3/8" Redhead LDT	grout filled CMU	1 1/2"	3 1/2"	398.00
	3/8" Powers Wedge	2000 psi concrete	2 1/2"	3"	1025.00
	3/8" Powers Wedge	grout filled CMU	2 1/2"	3 1/2"	625.33
	3/8" Hilti Kwik HUS-EZ	3000 psi concrete	2 1/2"	3"	480.00
	3/8" Hilti Kwik HUS-EZ	grout filled CMU	1 5/8"	4"	1295.00
Lag Screw	3/8" Lag Screw	Wood (min S.G. = 0.55)	3"	3 1/2"	1193.00
Bolt	3/8" Steel Bolt	Steel (118 mils min. wall thickness)	3 threads penetration beyond steel structure	3/4"	1222.00

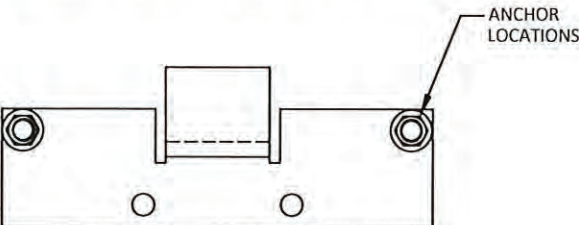
- ALL ANCHOR TYPES LISTED ABOVE VALID FOR MIN. SPECIFIED SUBSTRATE OR GREATER
- ANCHOR OPTION MUST MEET MINIMUM EMBEDMENT, EDGE DISTANCE, AND C.C. DISTANCE SPECIFIED
- ANCHORAGE AT BRACKET MUST CONFORM TO APPLICABLE BRACKET DETAIL BELOW

FASTENER ANCHOR TABLE A - HEADER



BRACKET ANCHOR LOCATIONS FOR INSTALLATION INTO WOOD FRAME OR STEEL SUBSTRATE

BRACKET DETAIL A
(WOOD/STEEL INSTALLATION)



BRACKET ANCHOR LOCATIONS FOR INSTALLATION INTO CONCRETE OR CMU

BRACKET DETAIL B
(CONCRETE/CMU INSTALLATION)

Type	Anchor	Substrate	Embedment	Edge Distance	Max Allowable Capacity/Anchor (lbs)
Drop-In	3/8" Hilti HDI	2000 psi concrete	1 9/16"	3 1/8"	313.63
	3/8" ITW Redhead	2000 psi concrete	1 5/8"	2 7/8"	434.50
	3/8" Powers Smart DI+	3000 psi concrete	1 9/16"	4 1/2"	773.90

- ALL ANCHOR TYPES LISTED ABOVE VALID FOR MIN. SPECIFIED SUBSTRATE OR GREATER
- ANCHOR OPTION MUST MEET MINIMUM EMBEDMENT AND EDGE DISTANCE SPECIFIED

FASTENER ANCHOR TABLE B - SILL

Type	Anchor	Substrate	Embedment	Edge Distance	C.C. Distance	Max Allowable Capacity/Anchor
Epoxy	3/8" ITW Redhead A7	2000 psi concrete	3 3/8"	3 1/2"	3 1/2"	934.07
	3/8" Simpson AT	2000 psi concrete	1 3/4"	3"	3 1/2"	607.95
	3/8" Hilti HY150 MAX	2000 psi concrete	1 3/4"	3"	3 1/2"	725.00
Expansion	3/8" Hilti Kwik Bolt 3	3000 psi concrete	2 1/2"	3 1/2"	3 1/2"	864.45
	3/8" Hilti Kwik Bolt 3	grout filled CMU	2 1/2"	3 1/2"	3 1/2"	212.28
	3/8" ITW Redhead Wedge	2000 psi concrete	3"	3"	3 1/2"	652.50
	3/8" Powers Bolt Expansion	3000 psi concrete	2 1/2"	3 1/2"	3 1/2"	588.11
Tapcon/ Wedge Bolts	3/8" Redhead LDT	3000 psi concrete	1 1/2"	2"	3 1/2"	220.27
	3/8" Redhead LDT	grout filled CMU	2 1/2"	3 1/2"	3 1/2"	212.27
	3/8" Powers Wedge	2000 psi concrete	2 1/2"	3"	3 1/2"	852.80
	3/8" Powers Wedge	grout filled CMU	2 1/2"	3 1/2"	3 1/2"	340.46
	3/8" Simpson Titen HD	3000 psi concrete	2 3/4"	3 1/2"	3 1/2"	1068.44
	3/8" Hilti Kwik HUS-EZ	3000 psi concrete	2 1/2"	3"	3 1/2"	495.00
Lag Screw	3/8" Lag Screw	Wood (min S.G. = 0.55)	3"	3 1/2"	-	1193.00
Bolt	3/8" Steel Bolt	Steel (118 mils min. wall thickness)	3 threads penetration beyond steel structure	3/4"	-	1222.00

- ALL ANCHOR TYPES LISTED ABOVE VALID FOR MIN. SPECIFIED SUBSTRATE OR GREATER
- ANCHOR OPTION MUST MEET MINIMUM EMBEDMENT AND EDGE DISTANCE SPECIFIED

FASTENER ANCHOR TABLE C - TRACK

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By 
Miami-Dade Product Control



BP-GLASS GARAGE DOORS
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www.GlassGarageDoors.com

TITLE:
BP-450/550 SHD GLASS GARAGE DOOR
(U.S. PAT.) - HURRICANE SYSTEM
ANCHOR TABLES &
BRACKET DETAIL

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 999-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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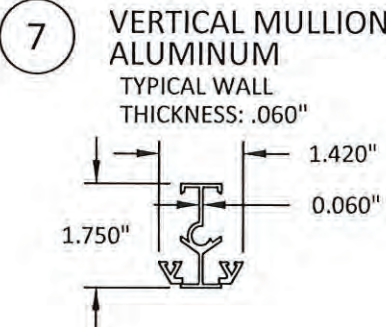
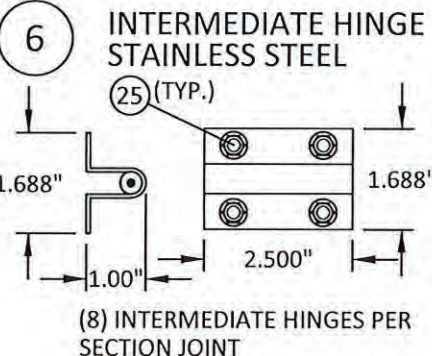
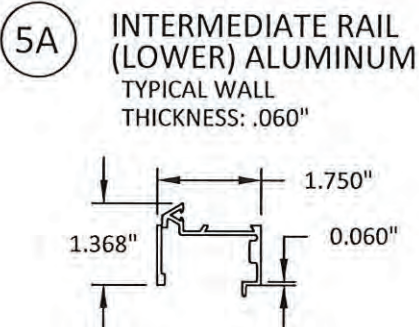
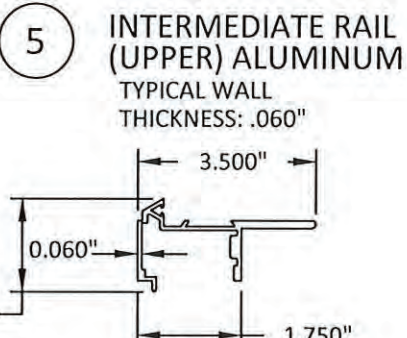
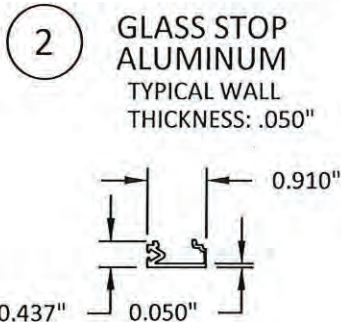
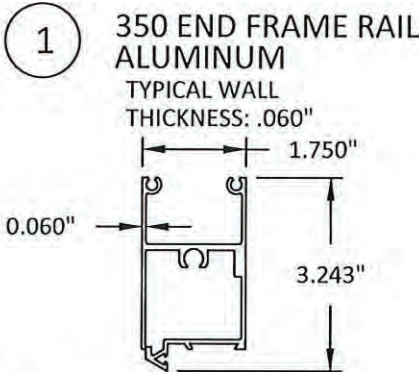


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
FBPE CERT. OF AUTHORIZATION No. 29578

DATE:	01.13.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	BPC005
SHEET:	

6

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	350 END FRAME RAIL	ALUMINUM	BP GLASS DOORS
2	GLASS STOP	ALUMINUM	BP GLASS DOORS
3	GLAZING GASKET	EPDM	GLS
4	BOTTOM GASKET	EPDM	GLS
5	INTERMEDIATE RAIL (UPPER)	ALUMINUM	BP GLASS DOORS
5A	INTERMEDIATE RAIL (LOWER)	ALUMINUM	BP GLASS DOORS
6	INTERMEDIATE HINGE	0.083" THK. STAINLESS STEEL	BP GLASS DOORS
7	VERTICAL MULLION	ALUMINUM	BP GLASS DOORS
8	ANGLE	12 GA. STEEL	BP GLASS DOORS
8A	ADJUSTABLE TAB	12 GA. STEEL	BP GLASS DOORS
9	TRACK 2"	15 GA. STEEL	BP GLASS DOORS
10	UNIVERSAL HINGES	12 GA. STAINLESS STEEL	BP GLASS DOORS
11	HF-PIN BRACKET	12 GA. STAINLESS STEEL	BP GLASS DOORS
12	DEFLECTION BRACKET	11 GA. G-90 GALV. STEEL	BP GLASS DOORS
13	REMOVABLE REINFORCEMENT	1/8" THK. ALUMINUM	BP GLASS DOORS
14	3/8" U-BOLT & LOCK NUTS	STEEL	BP GLASS DOORS
15	U-BOLT PLATES	12 GA. GALV. STEEL	BP GLASS DOORS
16	TOP BRACKET	1/4" STEEL	BP GLASS DOORS
17	TOP FIXTURE	1/8" THK. STAINLESS STEEL	BP GLASS DOORS
18	450/550 TOP AND BOTTOM RAIL	ALUMINUM	BP GLASS DOORS
19	BOTTOM FIXTURE	1/8" THK. STAINLESS STEEL	BP GLASS DOORS
20	3/8" DROP IN CONCRETE ANCHOR	STEEL	BP GLASS DOORS
21	1/4" - 20 HEX BOLT & NUTS	STEEL	BP GLASS DOORS
22	1/4" NUT	STEEL	BP GLASS DOORS
23	FLOOR FLANGE	0.134" THK. G-90 GALV. STEEL	BP GLASS DOORS
24	3/8" X 3" LAG BOLT	STEEL	BP GLASS DOORS
25	1/4" X 1/2" SELF THREADING SCREW	STEEL	BP GLASS DOORS
26	1/4" X 1/2" CARRIAGE BOLT	STEEL	BP GLASS DOORS
27	1/4" X 20 GALV. THRU BOLT W/ NUT	STEEL	BP GLASS DOORS
28	REINFORCING STRUT	1/4" THK. ALUMINUM	BP GLASS DOORS



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**BP-GLASS GARAGE DOORS
& ENTRY SYSTEMS, INC.**
1511 W. 2ND ST.
POMONA, CA 91766
PH: (626) 442-1716 FX: (626) 579-5320
www.GlassGarageDoors.com

TITLE: BP-450/550 SHD GLASS GARAGE DOOR
(U.S. PAT.) - HURRICANE SYSTEM
COMPONENTS &
BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FLORIDA 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

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ANCHOR OPTS. ADDED	TJM	10/13
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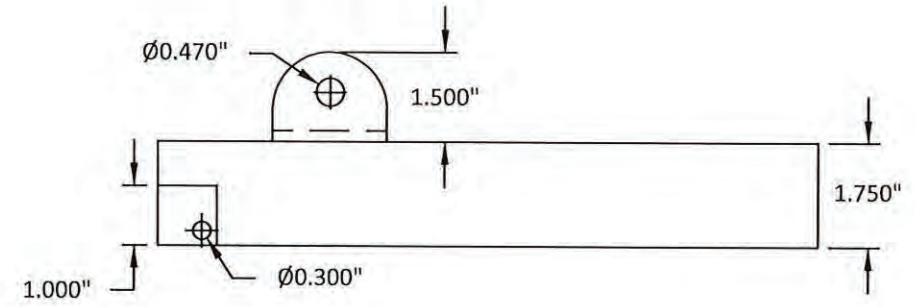
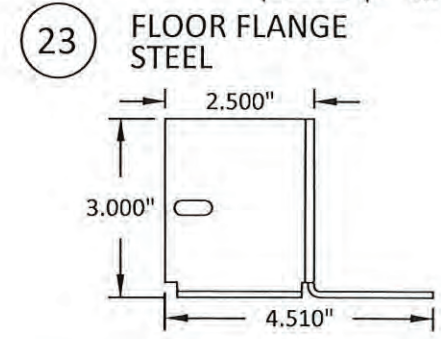
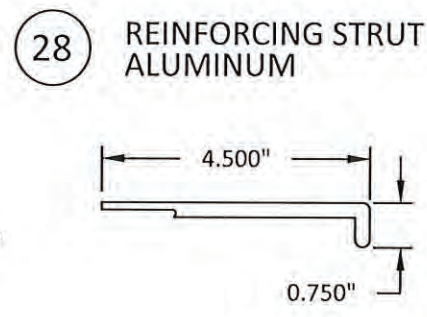
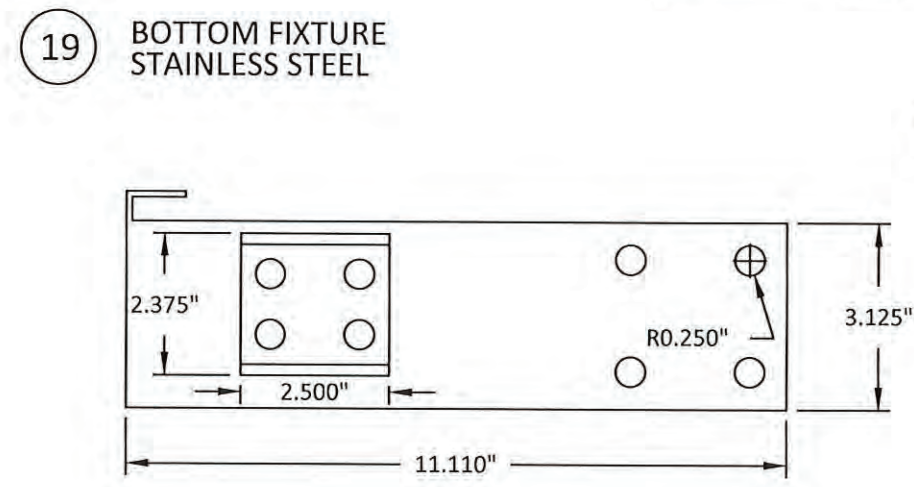
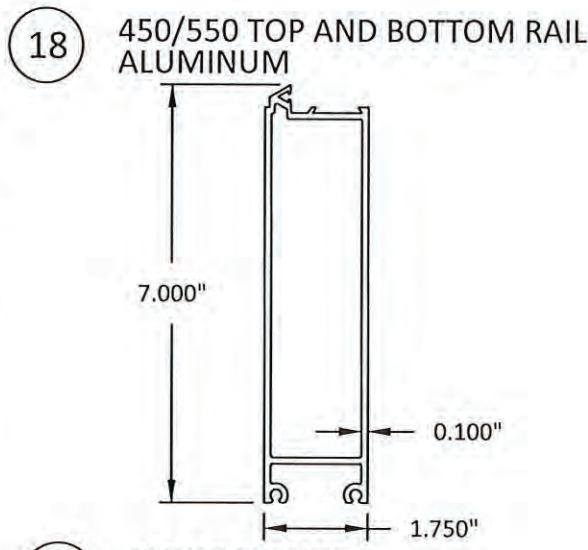
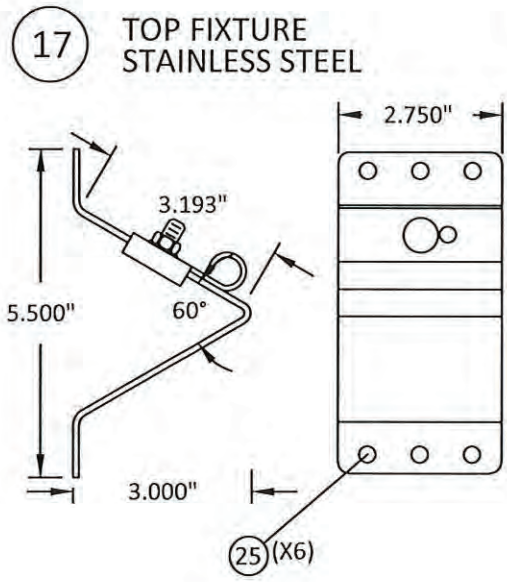
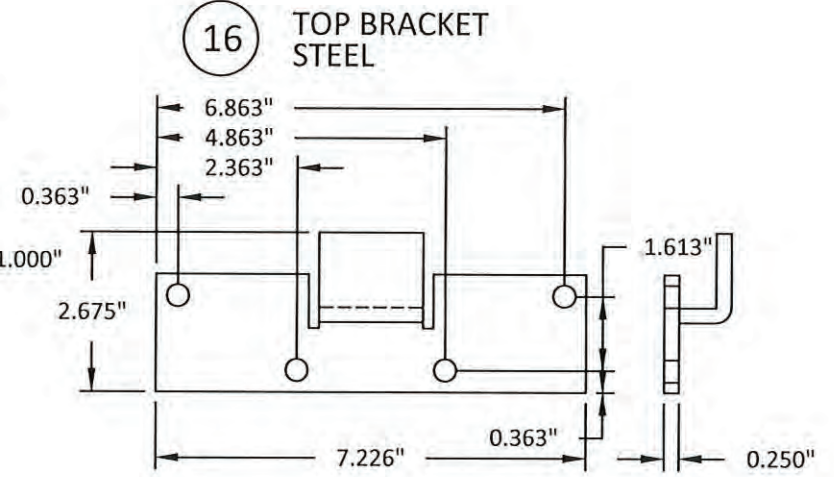
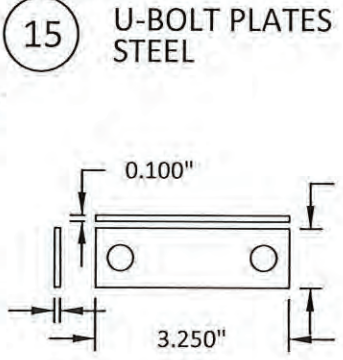
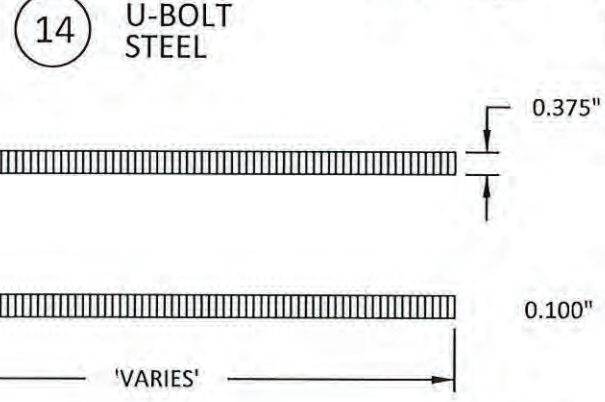
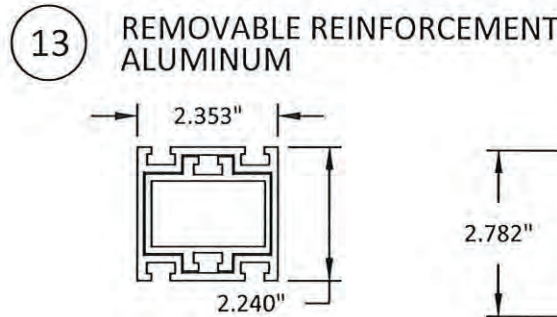
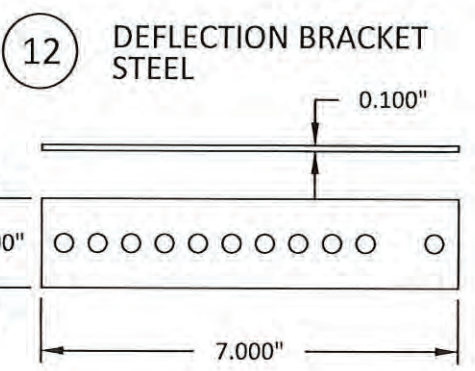
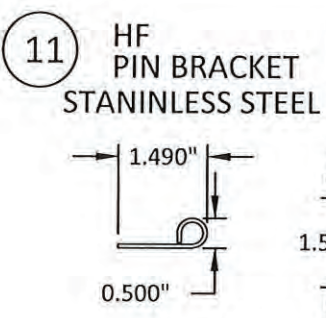
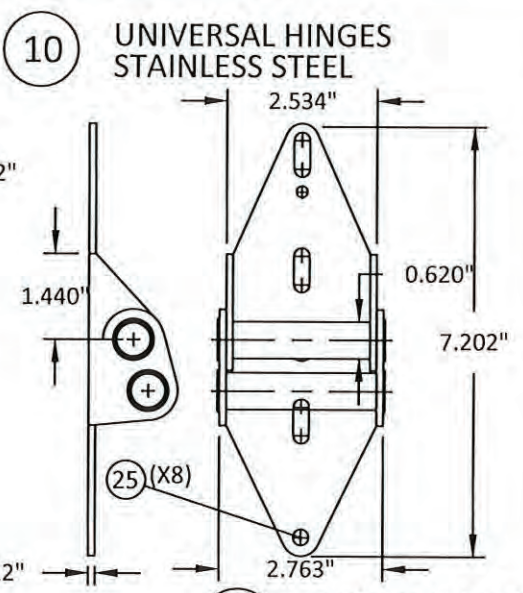
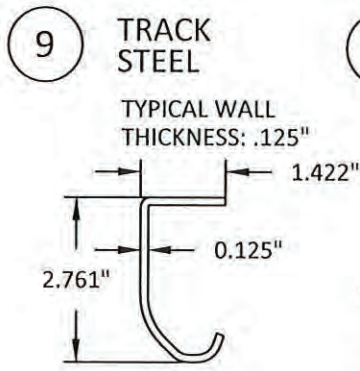
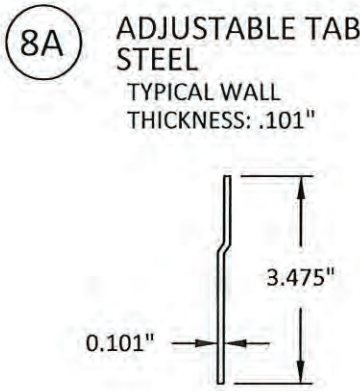
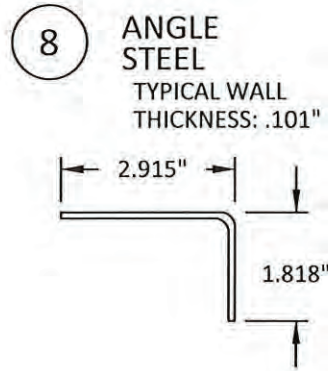


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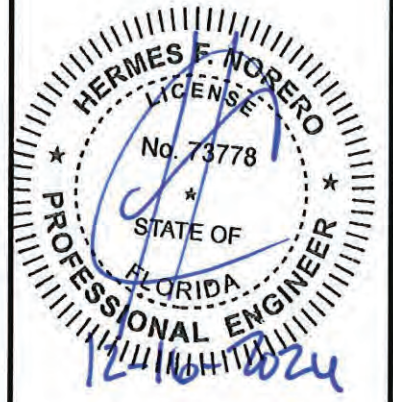
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