



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](http://www.miamidade.gov/economy)

**Air Master Awning, LLC**  
**Road PR#2 Interior KM 56.7**  
**Barceloneta, Puerto Rico 00617**

**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 “HP” Aluminum Sliding Glass Doors -L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **AIR001 Rev B**, titled “Series Aluminum Sliding HP Door”, sheets 1 through 10 of 10, dated 07/20/18 and last revised on 04/14/2021, 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**

**Limitations:**

1. See Design Pressure VS unit sizes, number of panels, max DLO and glazing type in sheet **8** and **9**. All SGD configured with pocket jambs are limited to +60.0/-50 PSF (see pocket installation details in sheet **3**).
2. Pocket wall under separate approval, to be reviewed by AHJ.

**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 **revises** NOA # **15-0309.01** 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 **Ishaq I. Chanda, P.E.**



*Ishaq I. Chanda*

NOA No. 21-0205.05  
 Expiration Date: September 05, 2023  
 Approval Date: May 13, 2021  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **12-202**, titled Series "High Performance Sliding Door IR", sheets 01 through 08 of 08, dated 12/10/12 with the latest revision dated 08/19/13, prepared by Knezevich Associates, signed and sealed by V. John Knezevich, P. E.

B. TESTS (submitted under file #12-1219.05)

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 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, and TAS 202-94along with marked-up drawings and installation diagram of Aluminum sliding glass door w/ pockets, prepared by Blackwater Testing, Inc., Test Report No. **BT-AM-12-003**, dated 11/12/12, signed and sealed by Yami Gerardo Kuri, P. E.
2. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 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, and TAS 202-94along with marked-up drawings and installation diagram of Aluminum sliding glass door w/ pockets, prepared by Blackwater Testing, Inc., Test Report No. **BT-AM-12-003A**, dated 06/03/13, signed and sealed by Yami Gerardo Kuri, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010** and ANSI/ AAMA/ NWWDA 101/ I.S.2-97, dated 02/18/13, prepared by V. J. Knezevich & Associates, LLC, dated 07/31/13, signed and sealed by V. J. Knezevich, P. E.
2. Glazing complies with ASTM E1300-04e1.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company (MA) dba Solutia, Inc. for their "**Saflex Clear and Color Glass Interlayers**" dated 03/14/13, expiring on 05/21/16.

*Ishaq I. Chanda*

\_\_\_\_\_  
Ishaq I. Chanda, P.E.  
Product Control Unit Supervisor  
NOA No. 21-0205.05  
Expiration Date: September 05, 2023  
Approval Date: May 13, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-2010** and ANSI/ AAMA/ NWWDA 101/ I.S.2-97, prepared by V.J. Knezevich & Associates, LLC, dated 11/20/12, signed and sealed by V. J. Knezevich, P. E.
2. Laboratory compliance letter for Test Report No. **BT-AM-12-003A**, issued by Blackwater Testing, Inc., dated 06/03/13, signed and sealed by Yami Gerardo Kuri, P. E.
3. Laboratory compliance letter for Test Report No. **BT-AM-12-003**, issued by Blackwater Testing, Inc., dated 11/12/12, signed and sealed by Yami Gerardo Kuri, P. E.

**G. OTHERS**

1. None.

**2. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **AIR001** (former **12-202**), titled "Series Aluminum Sliding HP Door", sheets 1 through 10 of 10, dated 07/20/18 and last revised on 01-23-19, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 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, and TAS 202-94

along with marked-up drawings and installation diagram of Aluminum sliding glass door w/ pockets, prepared by Blackwater Testing, Inc., Test Report No. **BT-AM-14-001(B)**, dated 09/09/14, signed and sealed by Yami Gerardo Kuri, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6<sup>th</sup> Edition), prepared by Building Drops, Inc., dated 10/24/18, signed and sealed by Hermes F. Norero, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **18-0301.06** issued to Eastman Chemical Company (MA), Inc. (Former Solutia Inc.) for their "**Seflex CP**: Saflex and sflex HP composite interlayer w/ PET core", expiring on 12/11/23.

\_\_\_\_\_ *Ishaq I. Chanda*  
Ishaq I. Chanda, P.E.

Product Control Unit Supervisor  
NOA No. 21-0205.05

Expiration Date: September 05, 2023  
Approval Date: May 13, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance and letter of no financial interest, prepared by Building Drops, Inc, dated 07/11/18, signed and sealed by Hermes F. Norero, P.E.
2. Statement letter dated 08/28/18 of “adopting another Engineer work, as own” per Florida State rule, chapter G 61, signed and sealed by Hermes F. Norero, P.E.
3. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. This NOA **revises & renews** NOA # **12-1219.05**, expired on 09/05/2018.
2. Test Proposal # 13-1097 dated 11/07/13, issued by RER.

**3. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **AIR001 Rev B**, titled “Series Aluminum Sliding HP Door”, sheets 1 through 10 of 10, dated 07/20/18 and last revised on 04/14/2021, 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. Notice of Acceptance No. **18-0301.06** issued to Eastman Chemical Company (MA), Inc. (Former Solutia Inc.) for their “**Seflex CP: Saflex and sflex HP composite interlayer w/ PET core**”, expiring on 12/11/23.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition) and letter of no financial interest, prepared by Building Drops, Inc, dated 01/18/21, signed and sealed by Hermes F. Norero, P.E.

**G. OTHER**

1. This NOA **revises** NOA # **15-0309.01**, expired on 09/05/2023.

*Ishaq I. Chanda*

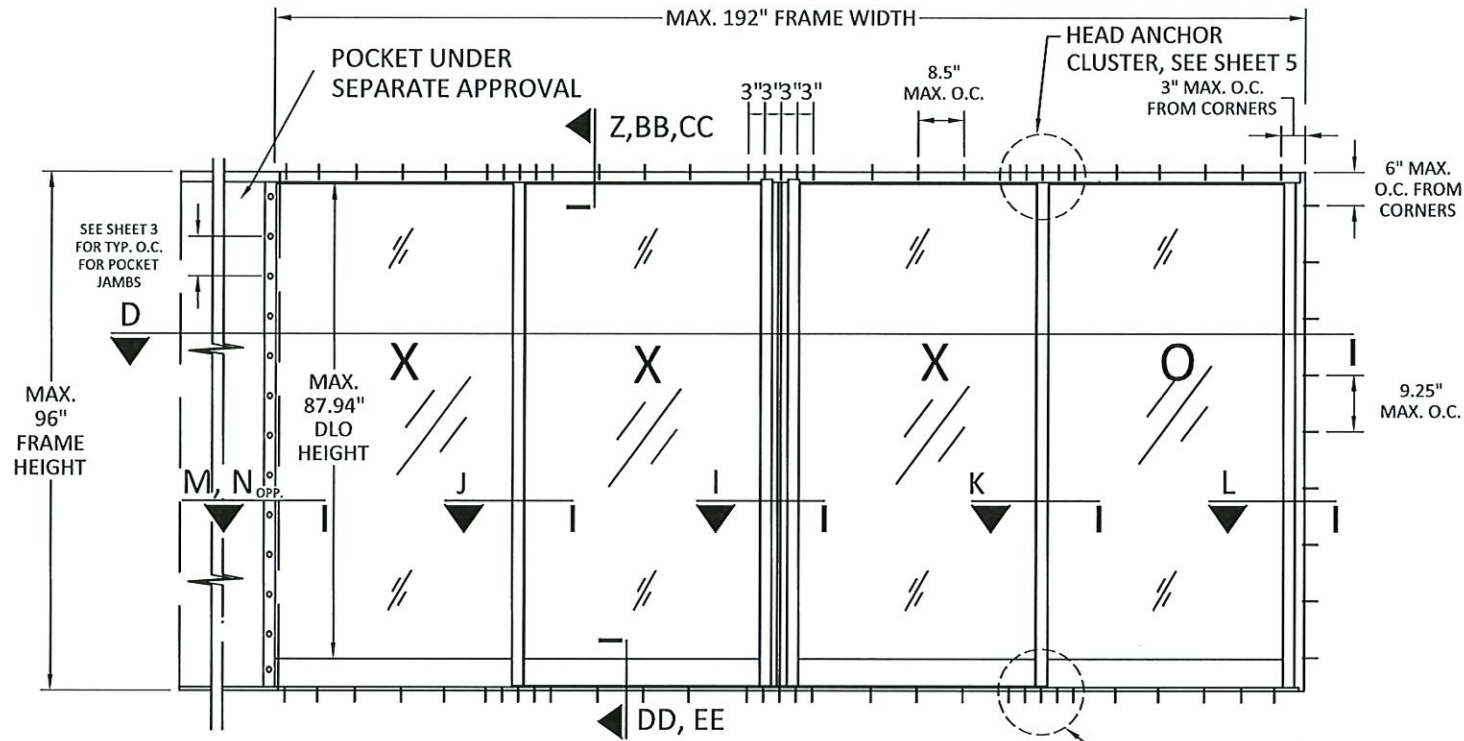
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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 21-0205.05**  
**Expiration Date: September 05, 2023**  
**Approval Date: May 13, 2021**

# SERIES ALUMINUM SLIDING HP DOOR



P.O. BOX 2097  
BARCELONETA, P.R. 00617  
WWW.AIRMASTERPR.COM  
PH: (787) 846-2110 FX: (787) 623-0085

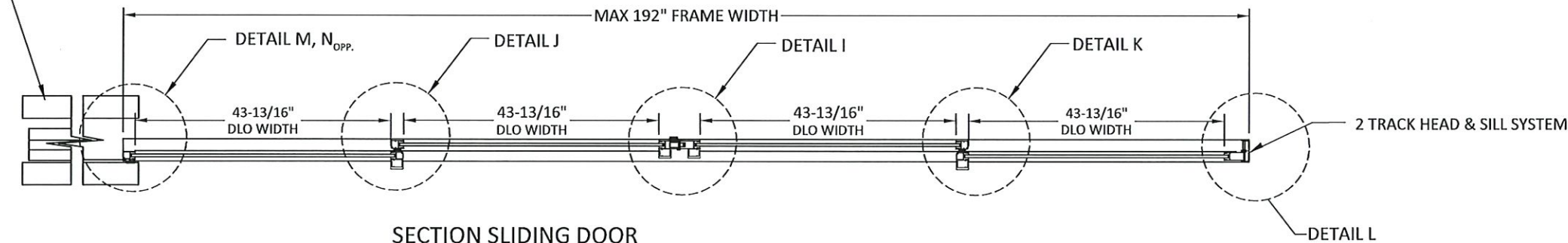


**EXTERIOR ELEVATION SLIDING DOOR  
HIGH PERFORMANCE IMPACT (TESTED SIZE)**  
N.T.S.

SEE SHEETS 5 AND 6 FOR TYPICAL ANCHOR LAYOUT DETAILS

LEGEND: OPERATIONAL - X  
FIXED - O

WALL POCKET CONSTRUCTION NOT PART OF THIS APPROVAL.



**SECTION SLIDING DOOR  
4 PANEL HIGH PERFORMANCE IMPACT (TESTED SIZE)**  
N.T.S.

DESIGN PRESSURE RATING	IMPACT RATING
+/- 72.1 PSF*	LARGE AND SMALL MISSILE IMPACT

\*SEE TABLE 1A ON SHEET 8 OF 10 FOR DESIGN PRESSURE RATINGS FOR CONFIGURATIONS USING POCKET JAMBS FOR THE SIZES LISTED, APPLICABLE TO ENTIRE ASSEMBLY

**GENERAL NOTES:**

- THIS SLIDING DOOR SYSTEM HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020 FBC), INCLUDING THE HVHZ, UNDER THE SPECIFIC CONDITIONS SHOWN ON THIS DRAWING. THIS SLIDING DOOR SYSTEM HAS COMPLIED WITH FBC 2411.3.2.1 (ASTM E283, ASTM E331, ASTM F588) AND TAS 201, TAS 202 & TAS 203. THE HIGH PERFORMANCE SLIDING DOOR, IS LARGE MISSILE IMPACT RESISTANT.
- 2x WOOD BUCKS SHALL BE INSTALLED AND PROPERLY ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF FBC.
- 1x WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SUCH THAT THEY ARE STATIC DURING INSTALLATION AND ACT AS SHEAR BLOCKS DURING LOADING TRANSFER FOR FASTENERS THROUGH THE DOOR FRAME TO THE CONCRETE.
- ANCHOR CONDITIONS NOT DESCRIBED IN THIS DRAWING ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-16, WIND LOADS MAY BE PERMITTED TO BE MULTIPLIED BY 0.6 FOR CONVERSION FROM LRFD TO ASD LOADS.
- THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE LOADS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
  - NON-HVHZ ONLY: REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL
  - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION. WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL
- WHERE THE CONTRACTOR OR THE BUILDING OFFICIAL REQUIRES DOCUMENTS FOR A SITE SPECIFIC APPLICATION, THESE DOCUMENTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT FOR SAID APPLICATION.
- ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
- SEE SHEET 3 FOR GLAZING DETAILS.
- SEE DOOR SIZE VS DESIGN LOADS TABLES & ANCHOR SCHEDULE ON PAGES 6, 8, & 9 FOR DESIGN PRESSURES AND REQUIRED ANCHORS.
- THIS PRODUCT HAS BEEN SUCCESSFULLY TESTED BY BLACKWATER TESTING FOR FLORIDA BUILDING CODE COMPLIANCE.
  - BLACKWATER TESTING INC. REPORTS NO. BT-AM-12-003 (REVISED 6/31/13), BT-AM-12-003A, & BT-AM-14-001(B) (REVISED 08/27/15).
- ADDITIONAL PROTECTION FROM WINDBORNE DEBRIS (SHUTTERS) IS NOT REQUIRED ON OPENINGS WHERE THIS PRODUCT IS USED.
- COMPONENTS 1 THROUGH 13 ARE 6063-T5 EXTRUDED ALUMINUM ALLOY UNLESS OTHERWISE NOTED.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE P.T. STRUCTURAL PLYWOOD OR DIMENSIONAL LUMBER & COMPATIBLE WITH ALUMINUM.
- MINIMUM SPECIFIC GRAVITY FOR ALL WOOD SHALL BE G = 0.55 (SOUTHERN PINE)
- MASONRY SUBSTRATES SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF ASTM C 90 FOR NORMAL WEIGHT BLOCK WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- MATERIALS, INCLUDING, BUT NOT LIMITED TO FASTENERS OR SCREWS THAT COME IN CONTACT WITH DISSIMILAR METALS SHALL MEET THE REQUIREMENTS OF FBC CHAPTER 20. ALSO FASTENERS & SCREWS MUST BE COMPATIBLE WITH CHEMICALS USED FOR PRESSURE TREATMENT OF WOOD.
- 30" WIDE AND 80" TALL DOOR PANELS DO NOT COMPLY WITH FAC DOOR CLEARANCE & FBC EGRESS REQUIREMENTS. EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
- ALL SHIMS TO BE MAX. 1/4", P.T. STRUCTURAL PLYWOOD OR LOAD BEARING PLASTIC & COMPATIBLE W/ ALUMINUM PER FBC.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 21-0205.05

Expiration Date 09/05/2023

By *Ishaq I. Chank*  
Miami-Dade Product Control

TITLE: SLIDING HP DOOR  
ELEVATIONS, PLAN VIEWS & GENERAL NOTES  
PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

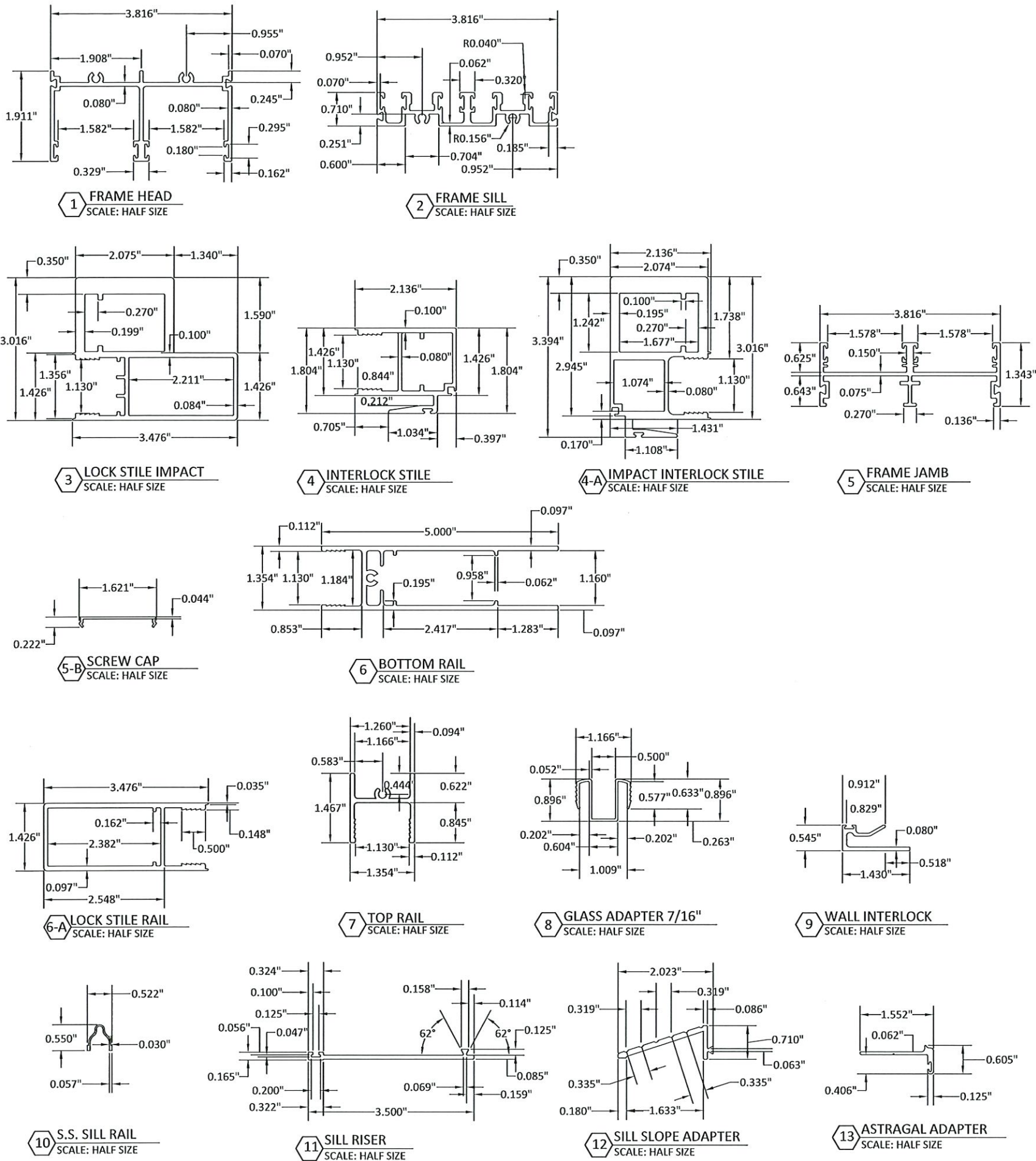
REVISIONS	
NO.	DESCRIPTION
A	6 & 5 PANEL CONFIGURATIONS REMOVED
B	7TH EDITION FBC UPDATE



DATE:	05.07.18
DWN BY:	SM
CHK BY:	HFN
SCALE:	NTS
DWG #:	<b>AIR001</b>
SHEET:	<b>1 OF 10</b>

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BILL OF MATERIALS			
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER / SUPPLIER / NOTES
PARTS & EXTRUSIONS			
1	80600	FRAME HEAD	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
2	80602	FRAME SILL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
3	80611	LOCK STILE IMPACT	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
4	80610	INTERLOCK STILE	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
4-A	80612	IMPACT INTERLOCK STILE	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
5	80605	JAMB	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
5-B	80615	SCREW CAP	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
6	80608	BOTTOM RAIL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
6-A	80630	LOCK STILE RAIL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
7	80607	TOP RAIL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
8	80614	GLASS ADAPTER 7/16"	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
9	22046	WALL INTERLOCK	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
10	80627	S.S. TRACK RAIL/SILL	DELTA INDUSTRIAL / S/S / 6063-T5
11	80631	SILL RISER	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
12	80604	SLOPE ADAPTER/SILL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
13	80616	ASTRAGAL ADAPTER	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
SEALS & SEALANTS			
14	22438	WEATHERSTRIP INTERLOCK	ULTRAFAB INC.
15	96933	RUBBER 238	MSW LLC
16	96825	WEATHERSTRIP FRAME	ULTRAFAB INC.
17	53580	995 STRUCTURAL SILICONE BLACK	DOW CORNING
18	96911	OVAL RUBBER BUMPER	DELTA INDUSTRIAL / S/S
19	96910	RUBBER BUTTON BUMPER	DELTA INDUSTRIAL / S/S
20	96900	RUBBER BUMPER BLACK P-E304-J1-E 435	HO-PRODUCTS CORP.
21	96823	WEATHERSTRIP	ULTRAFAB INC.
GLASS			
22		7/16" IMPACT GLASS	3/16" ANNEALED GLASS 0.090" SAFLEX CP - SAFLEX OR SAFLEX HP COMPOSITE GLASS INTERLAYERS WITH PET CORE BY EASTMAN CHEMICAL CO. 3/16" ANNEALED GLASS
FASTENERS			
23	95806	SCR 20*1" F/H S.S. PHI	LA CASA DE LOS TORNILLOS
24	95586	SCR 10*2" PHI P/H S.S. T-A	LA CASA DE LOS TORNILLOS
25	95606	SCR 1/4"-20*5/8" P/H SS PHI	LA CASA DE LOS TORNILLOS
26	95543	SCR 10*1" P/H SS PHI T-A SMS	LA CASA DE LOS TORNILLOS
HARDWARE			
27	34124	MORTISE LOCK	DELTA INDUSTRIAL
28	34132	HANDLE SET	ROTO FASCO
29	80100	STAINLESS STEEL MAXI TANDEM ROLLER	DELTA INDUSTRIAL
30	33581	KEY CILINDER	ALL TOOLS, INC.

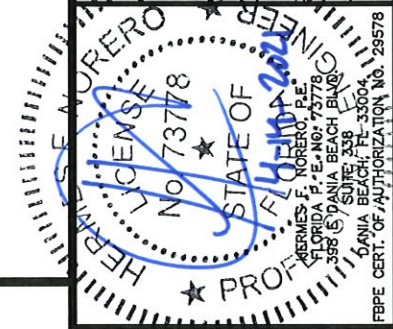
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 21-0205.05  
 Expiration Date 09/05/2023  
 By Ishag I. Chank  
 Miami-Dade Product Control



P.O. BOX 2097  
 BARCELONETA, P.R. 00617  
 WWW.AIRMASTERPR.COM  
 PH: (787) 846-2110 FX: (787) 623-0085

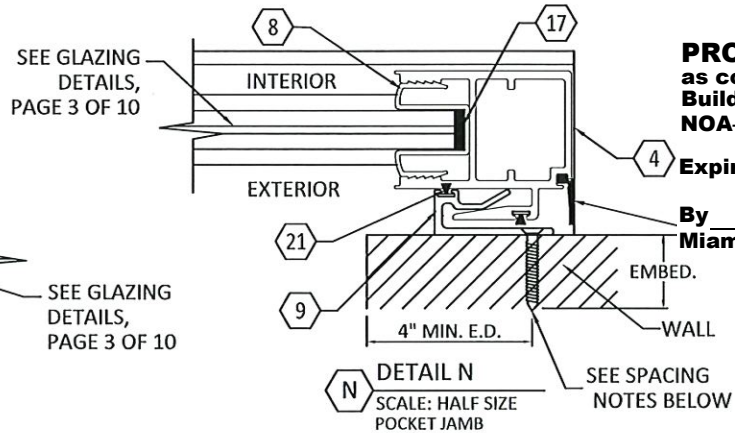
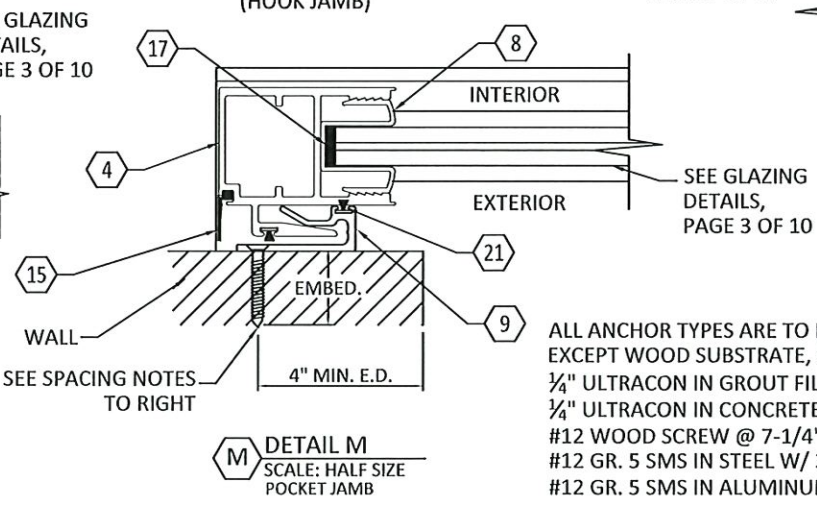
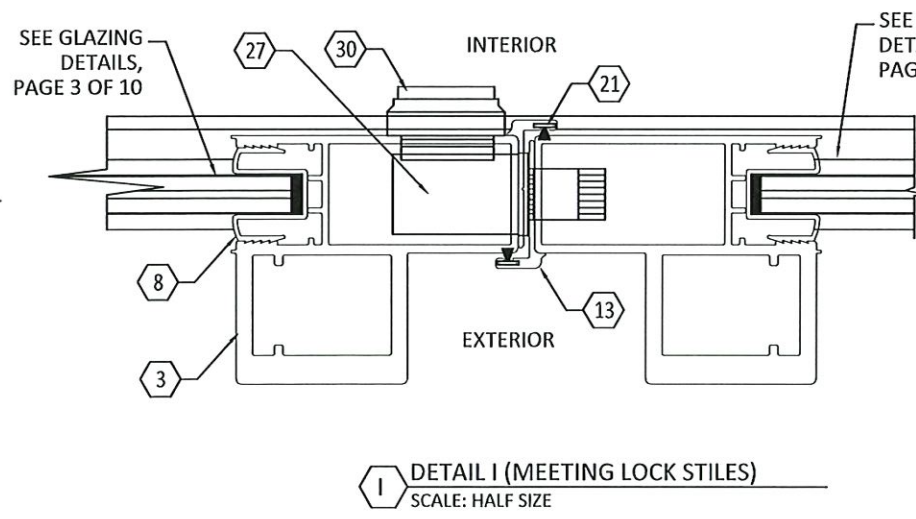
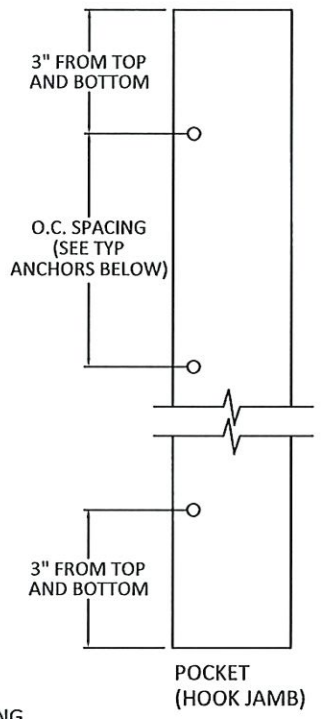
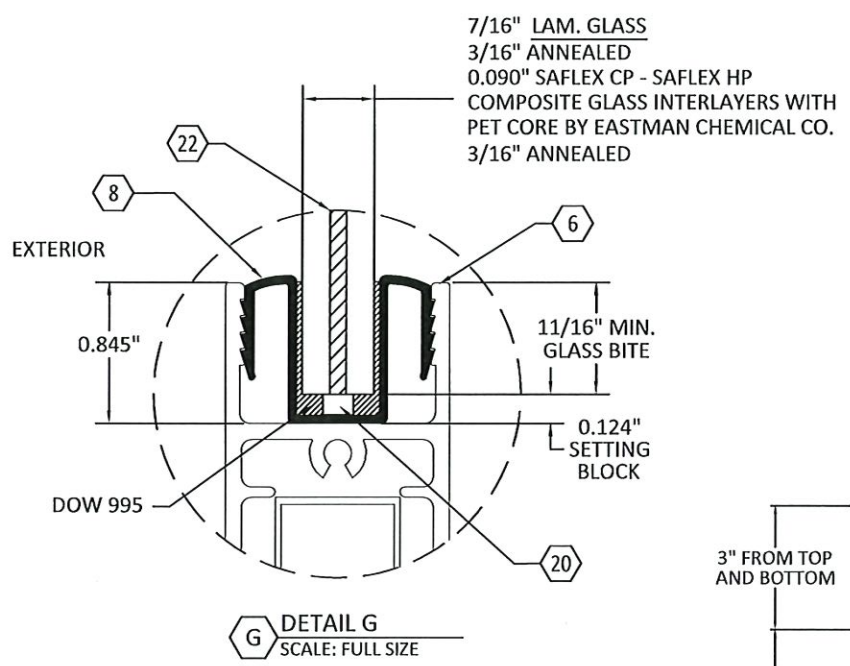
TITLE: SLIDING HP DOOR  
 COMPONENTS AND B.O.M.  
 PREPARED BY:  
 BUILDING DROPS  
 398 E DANIA BEACH BLVD,  
 SUITE 338  
 DANIA BEACH, FL 33004  
 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		DESCRIPTION	BY	DATE
1		6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
2		7TH EDITION FBC UPDATE	MS	10.29.20

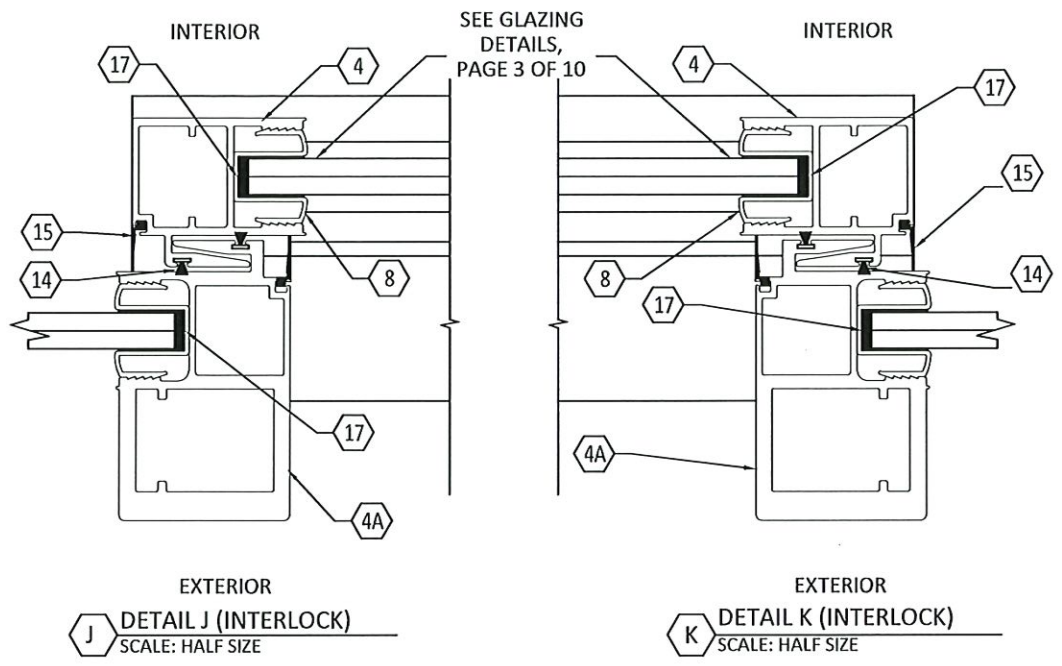
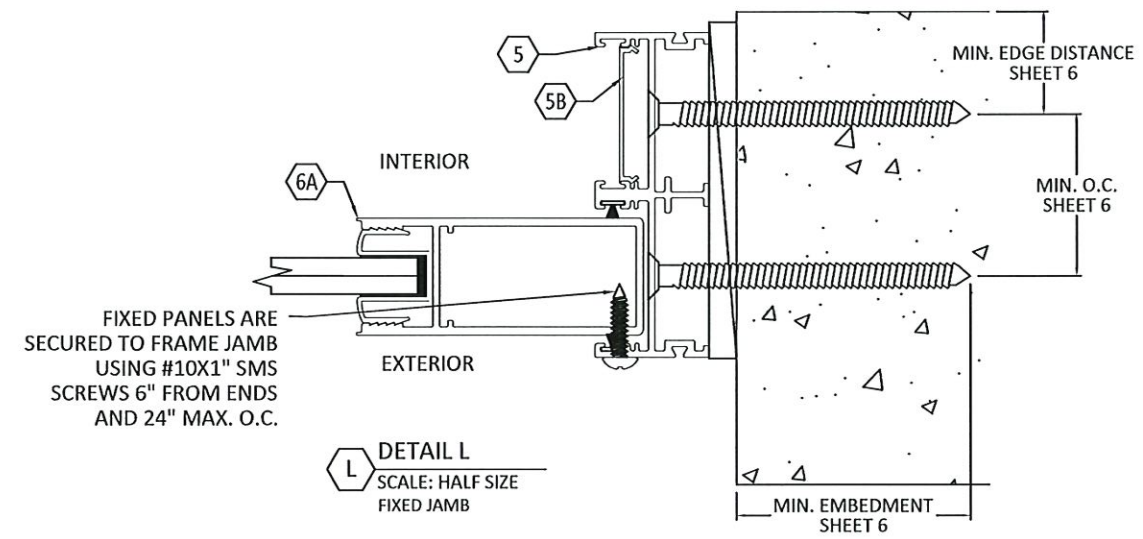


DATE: 05.07.18  
 DWN BY: SM  
 CHK BY: HFN  
 SCALE: NTS  
 DWG #: AIR001  
 SHEET: 2 OF 10

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ALL ANCHOR TYPES ARE TO BE INSTALLED AT 3" FROM CORNERS AND 6" MAX. O.C., EXCEPT WOOD SUBSTRATE, ALLOWABLE ANCHOR TYPES:  
 3/4" ULTRACON IN GROUT FILLED CMU W/ 1 3/4" EMBD.  
 3/4" ULTRACON IN CONCRETE W/ 1 3/4" EMBD.  
 #12 WOOD SCREW @ 7-1/4" O.C. IN WOOD W/ 1 1/2" EMBD.  
 #12 GR. 5 SMS IN STEEL W/ 3 THREADS PEN. BEYOND STEEL  
 #12 GR. 5 SMS IN ALUMINUM W/ 3 THREADS PEN. BEYOND ALUM.



**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 21-0205.05  
Expiration Date 09/05/2023  
By *Ishaq I. Chande*  
Miami-Dade Product Control

**AIR MASTER**  
windows and doors

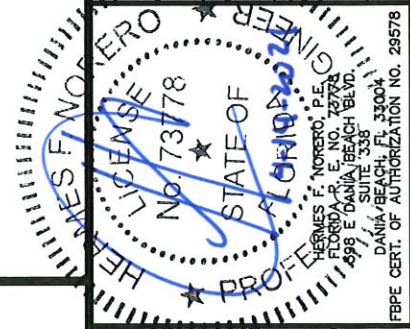
P.O. BOX 2097  
BARCELONETA, P.R. 00617  
WWW.AIRMASTERPR.COM  
PH: (787) 846-2110 FX: (787) 623-0085

TITLE: SLIDING HP DOOR

INSTALLATION DETAILS AND GLAZING DETAILS

PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

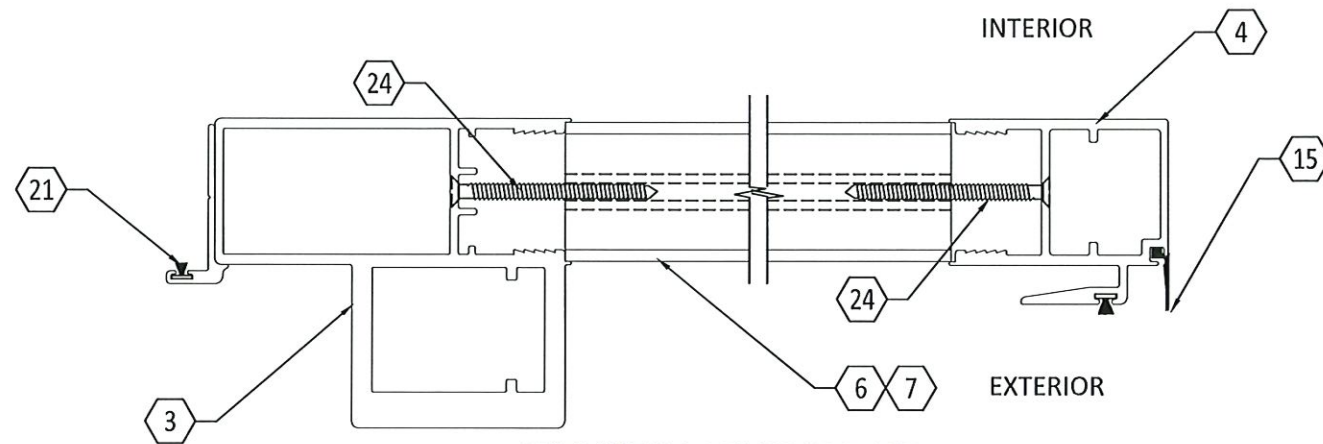
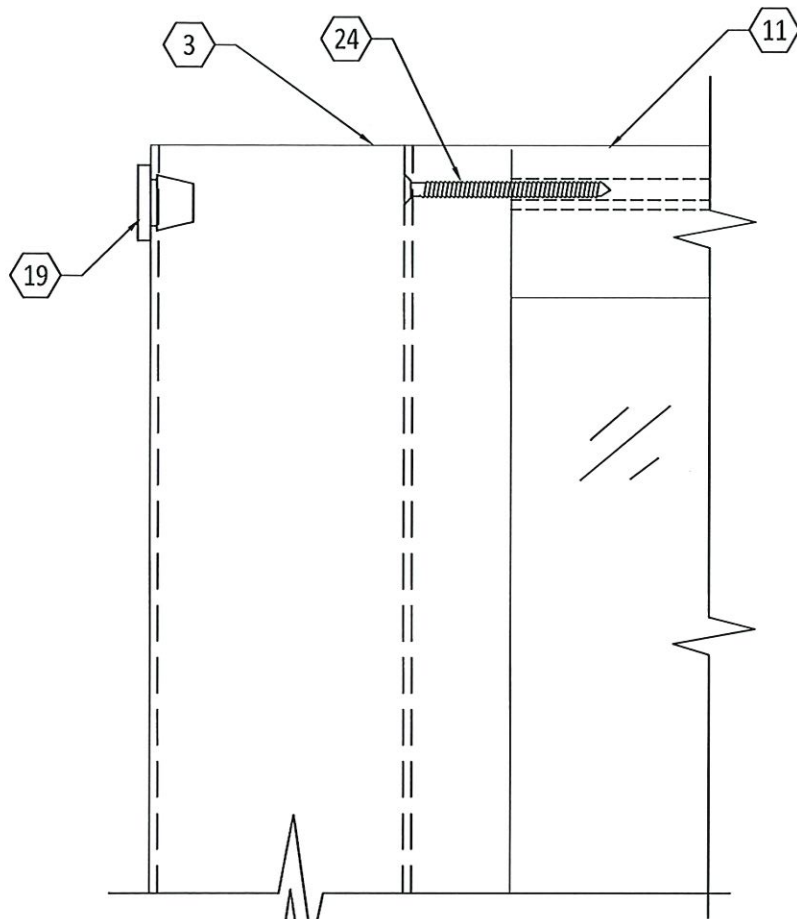
REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
2	7TH EDITION FBC UPDATE	MS	10.29.20



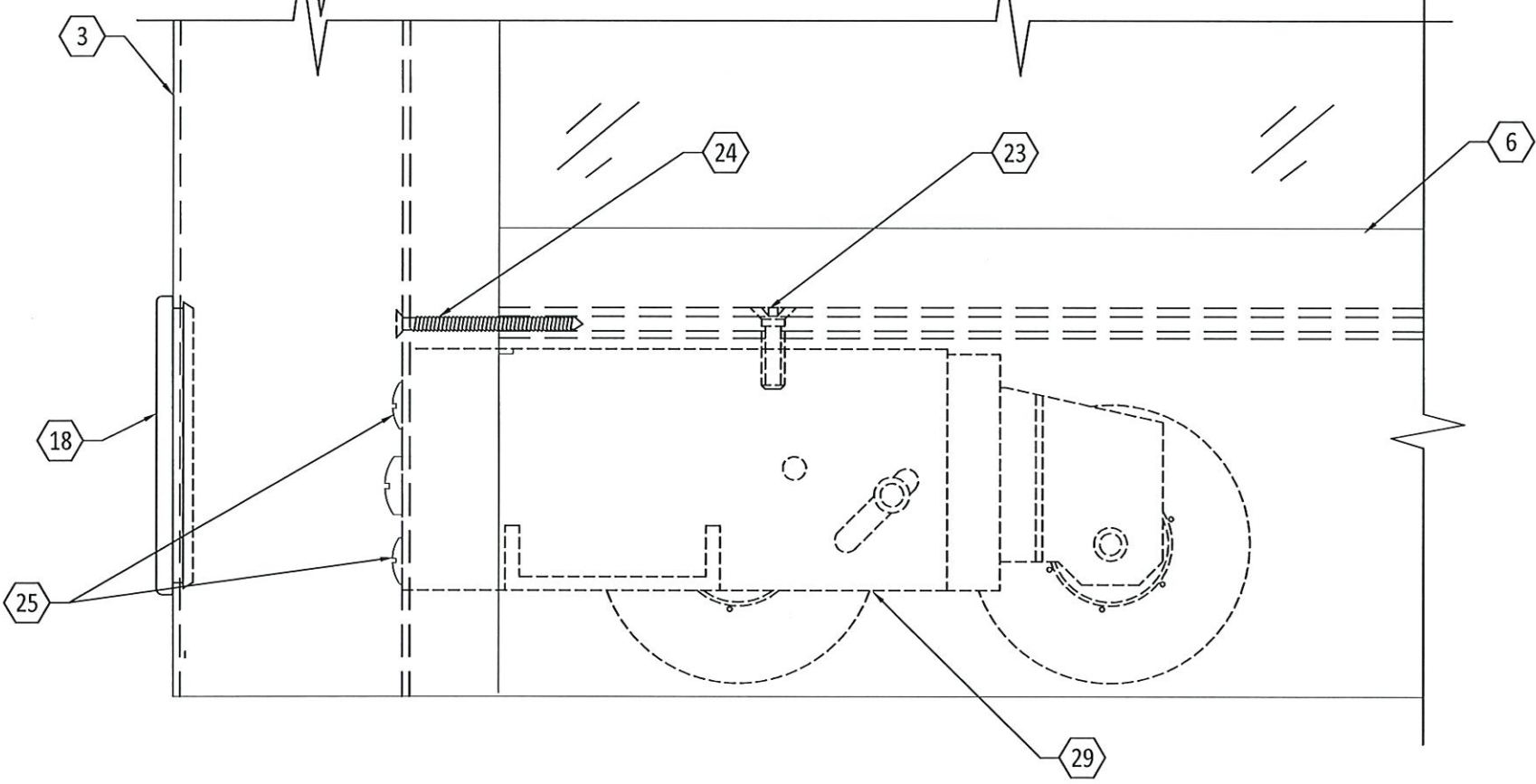
DATE: 05.07.18  
DWN BY: SM  
CHK BY: HFN  
SCALE: NTS

DWG #: **AIR001**  
SHEET: **3 OF 10**

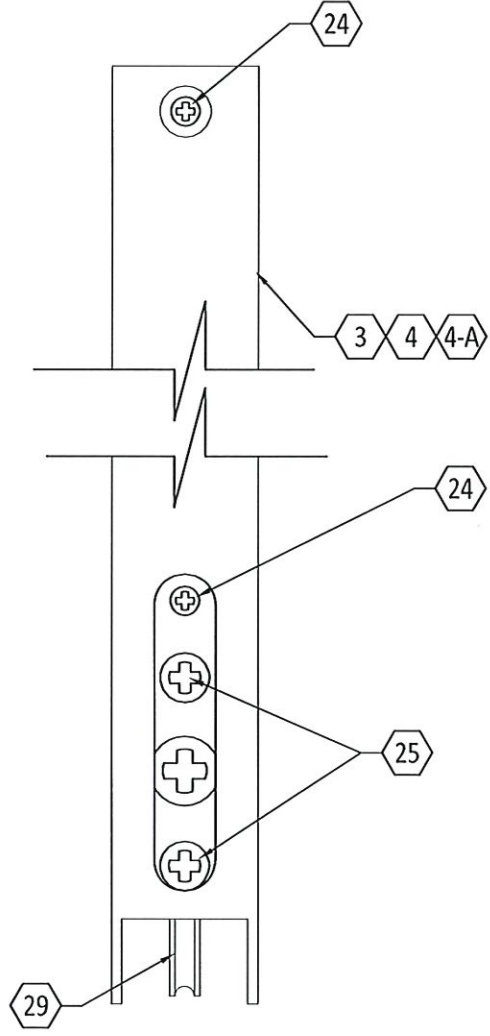
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**P** STILE/INTERLOCK TO TOP AND BOTTOM FASTENER DETAIL  
SCALE: FULL SIZE



**O** STAINLESS STEEL TANDEM ROLLERS DETAIL  
SCALE: FULL SIZE



**Q** STAINLESS STEEL TANDEM ROLLERS DETAIL  
SCALE: FULL SIZE

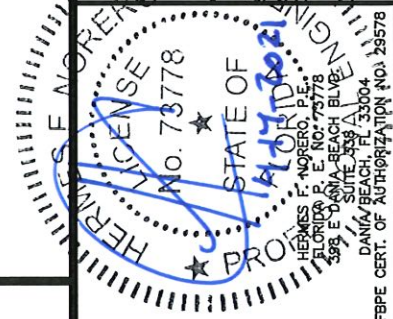
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 21-0205.05  
Expiration Date 09/05/2023  
By Ishag I. Chande  
Miami-Dade Product Control

**AIR MASTER**  
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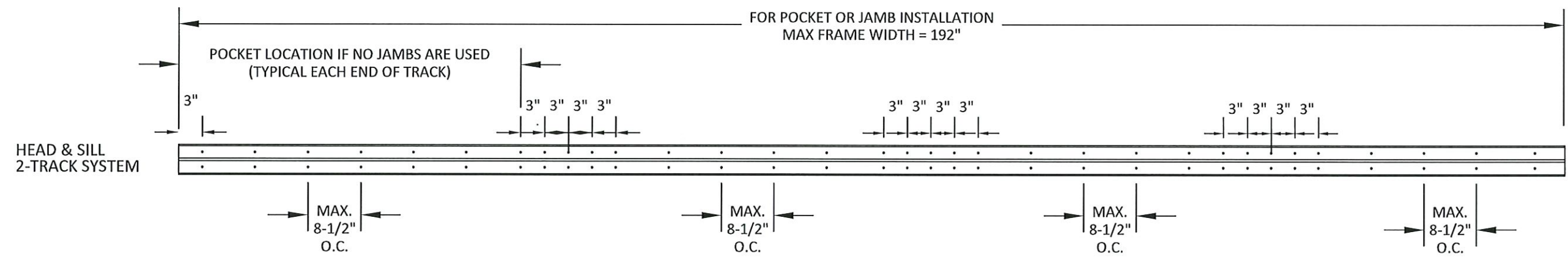
TITLE: SLIDING HP DOOR  
HARDWARE DETAILS  
PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
2	7TH EDITION FBC UPDATE	MS	10.29.20



DATE:	05.07.18
DWN BY:	SM
CHK BY:	HFN
SCALE:	NTS
DWG #:	<b>AIR001</b>
SHEET:	<b>4 OF 10</b>



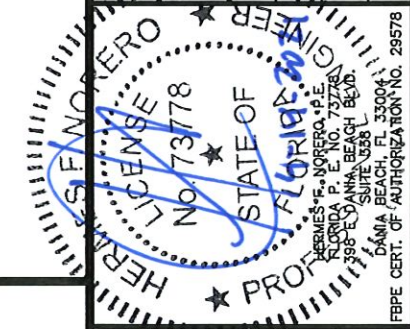


**R** TYPICAL HEAD & SILL ANCHOR LOCATIONS  
N.T.S.

**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. 21-0205.05  
Expiration Date 09/05/2023  
By Ishay I. Chan  
Miami-Dade Product Control

TITLE: SLIDING HP DOOR  
ANCHOR LAYOUTS  
PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	
NO.	DESCRIPTION
A	6 & 5 PANEL CONFIGURATIONS REMOVED
B	7TH EDITION FBC UPDATE



DATE: 05.07.18	DWN BY: SM	CHK BY: HFN	SCALE: NTS
DWG #: <b>AIR001</b>			
SHEET: <b>5 OF 10</b>			

**ANCHORS:**

**FRAME HEAD:**

- A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO  $\geq$  2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (Fy=155 ksi, Fu=177 ksi)
- B. #12 GRADE 5 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4" MINIMUM SPACING AND 1 1/2" PENETRATION IN SG=0.55 WOOD
- C. #12 GRADE 5 TEK SCREW OR SMS INTO METAL STRUCTURE WITH MIN. 1" EDGE DISTANCE, 1 1/4" MIN. SPACING, & MIN. 3 THREADS PENETRATION BEYOND METAL
  - a. 6063-T5 ALUMINUM ALLOY, MINIMUM 0.125" THICK
  - b. 36 KSI STEEL, MINIMUM 12 GA-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE FBC DISSIMILAR METAL REQUIREMENTS

**FRAME SILL:**

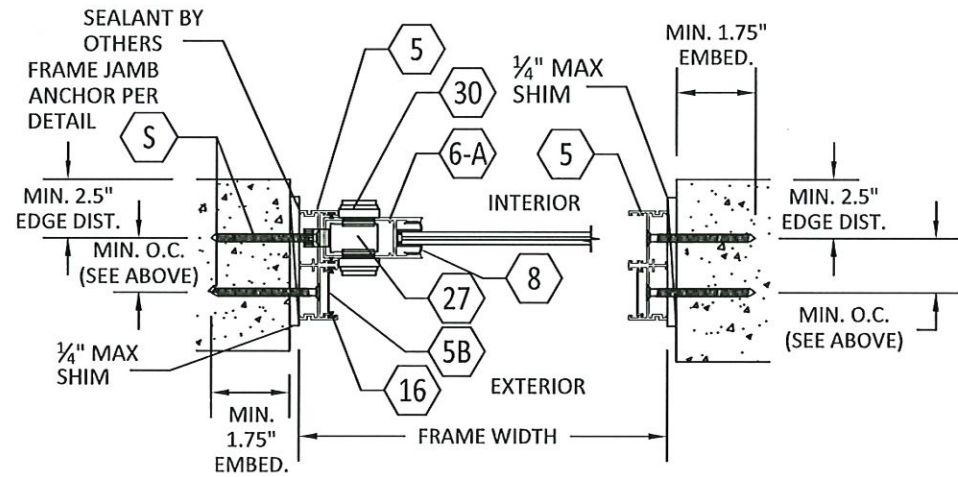
- A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO  $\geq$  2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (Fy=155 ksi, Fu=177 ksi)
- B. #12 GRADE 5 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4" MINIMUM SPACING AND 1 1/2" PENETRATION IN SG=0.55 WOOD

**FRAME JAMB:**

- A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO  $\geq$  2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (Fy=155 ksi, Fu=177 ksi)
- B. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO GROUT FILLED CMU WITH 2-1/2" EDGE DISTANCE, MIN. SPACING = 4" (ANCHOR LOCATIONS MAY BE STAGGERED TO ACHIEVE MIN SPACING) & MIN. EMBEDMENT = 1 3/4" (Fy=155 ksi, Fu=177 ksi)
  - A. MASONRY SUBSTRATES SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF ASTM C 90 FOR NORMAL WEIGHT BLOCK WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- C. #12 GRADE 5 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4" MINIMUM SPACING AND 1 1/2" PENETRATION IN G=0.55 WOOD
- D. #12 GRADE 5 TEK SCREW OR SMS INTO METAL STRUCTURE WITH MIN. 1" EDGE DISTANCE, 1 1/4" MIN. SPACING, & MIN. 3 THREADS PENETRATION BEYOND METAL
  - A. 6063-T5 ALUMINUM ALLOY, MINIMUM 0.125" THICK
  - B. 36 KSI STEEL, MINIMUM 12 GA-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE FBC DISSIMILAR METAL REQUIREMENTS

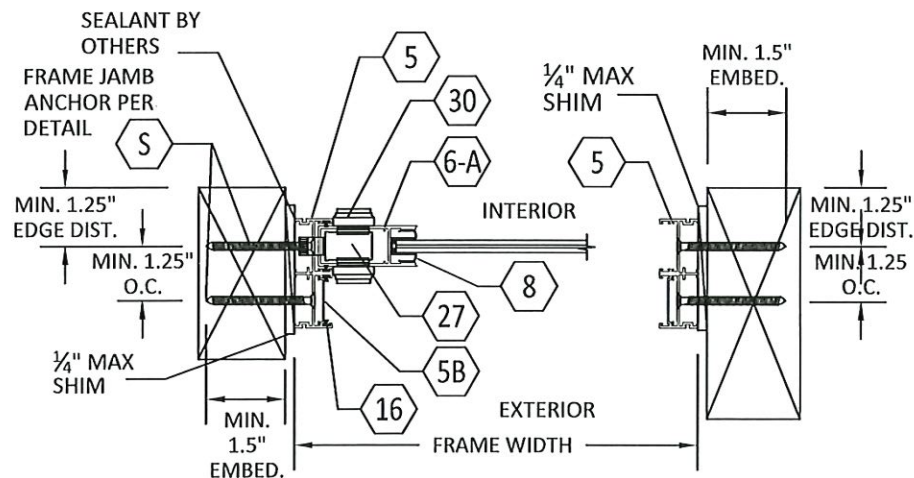
**NOTES:**

1. ALL ELCO ULTRACONS ARE TO BE COATED WITH STALGRAD.
2. ALL ELCO ULTRACONS AND WOOD SCREWS ARE TO BE PHILLIPS, FLAT HEAD
3. WOOD SHIMS WITH A MAXIMUM THICKNESS OF 1/4" MAY BE USED BETWEEN THE FRAME AND THE SUBSTRATE.



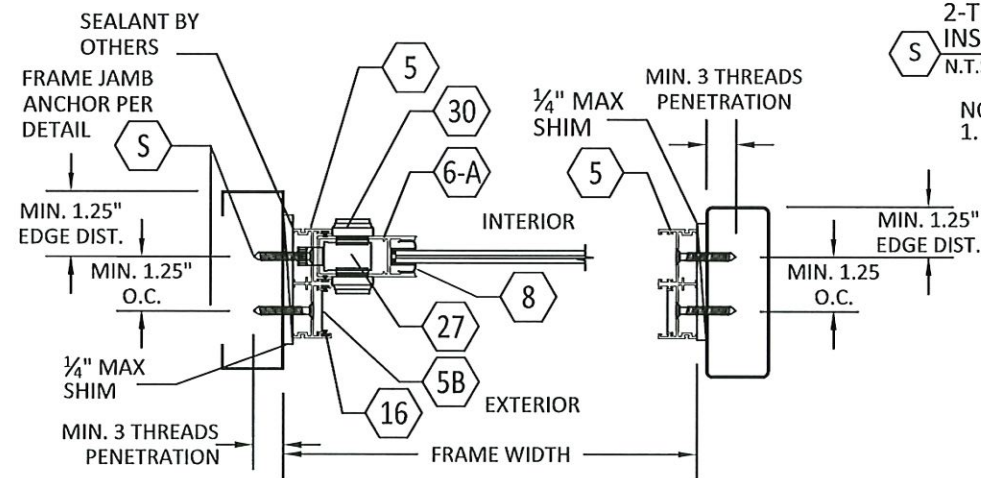
**2-TRACK JAMB DETAIL T**  
SCALE: HALF SIZE  
(CONCRETE OR GROUT FILLED CMU)

**2-TRACK JAMB DETAIL U**  
SCALE: HALF SIZE  
(CONCRETE OR GROUT FILLED CMU)



**2-TRACK JAMB DETAIL V**  
SCALE: HALF SIZE  
(2X WOOD FRAME)

**2-TRACK JAMB DETAIL W**  
SCALE: HALF SIZE  
(2X WOOD FRAME)

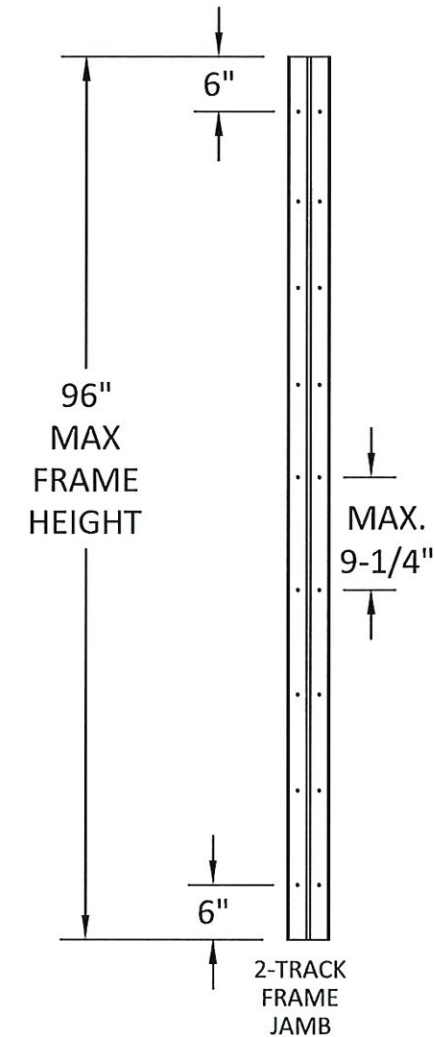


**2-TRACK JAMB DETAIL X**  
SCALE: HALF SIZE  
ALUMINUM (MIN. THICKNESS 0.125")  
OR STEEL SUBSTRATE (MIN. THICKNESS 12 GA.)

**2-TRACK JAMB DETAIL Y**  
SCALE: HALF SIZE  
ALUMINUM (MIN. THICKNESS 0.125")  
OR STEEL SUBSTRATE (MIN. THICKNESS 12 GA.)

**2-TRACK FRAME JAMB INSTALLATION SCREW HOLES LOCATION DETAIL**  
N.T.S.

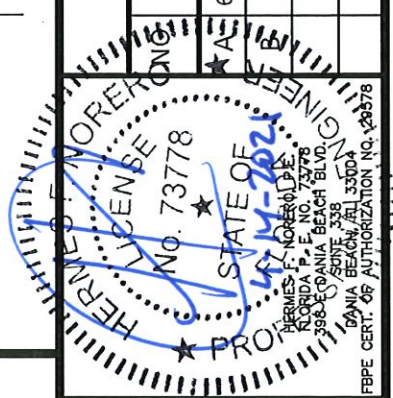
- NOTE:  
1. FRAME JAMB & FRAME JAMB ADAPTER SPACING SHOWN IS SUITABLE FOR STEEL, ALUMINUM, WOOD, CONCRETE, AND GROUT FILLED CMU SUBSTRATES.



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Miami-Dade Product Control

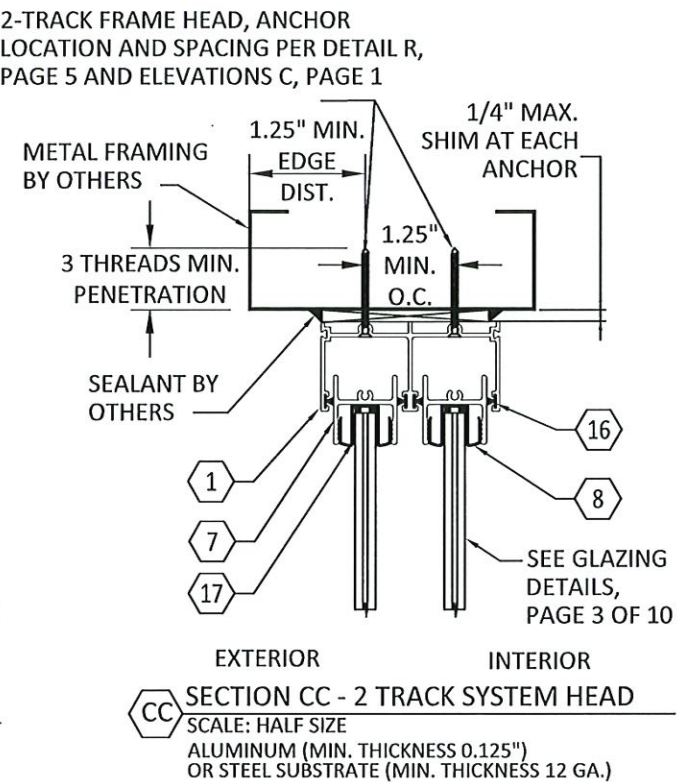
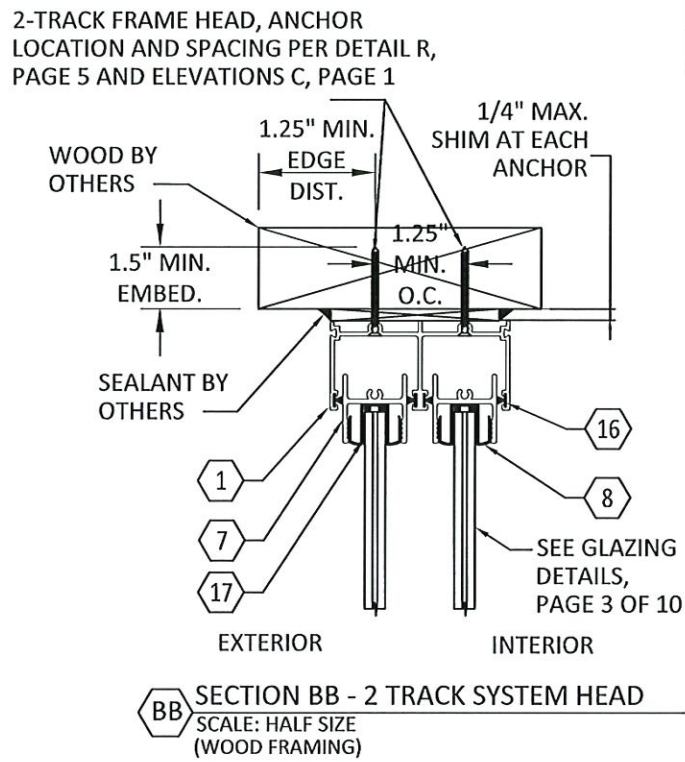
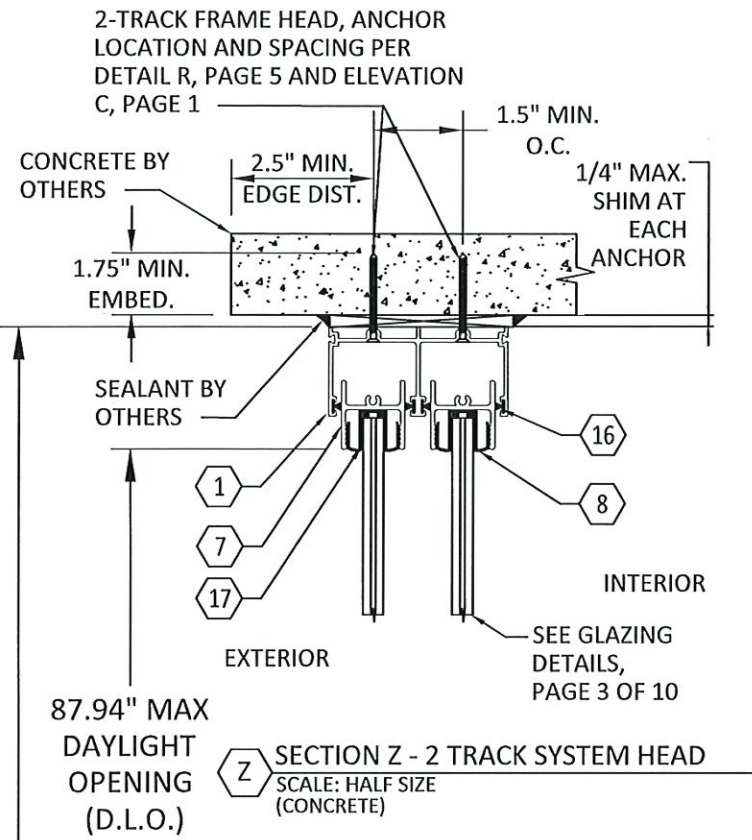
TITLE: SLIDING HP DOOR  
ANCHOR SCHEDULE AND LAYOUTS & JAMB DETAILS  
PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	DESCRIPTION	BY	DATE
1	6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
2	7TH EDITION FBC UPDATE	MS	10.29.20

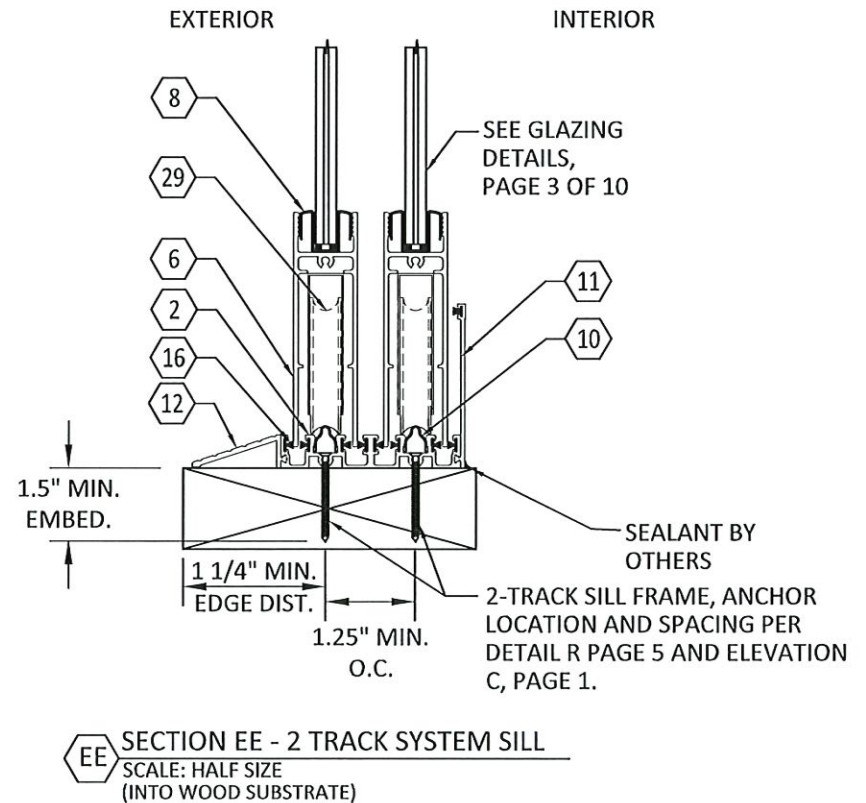
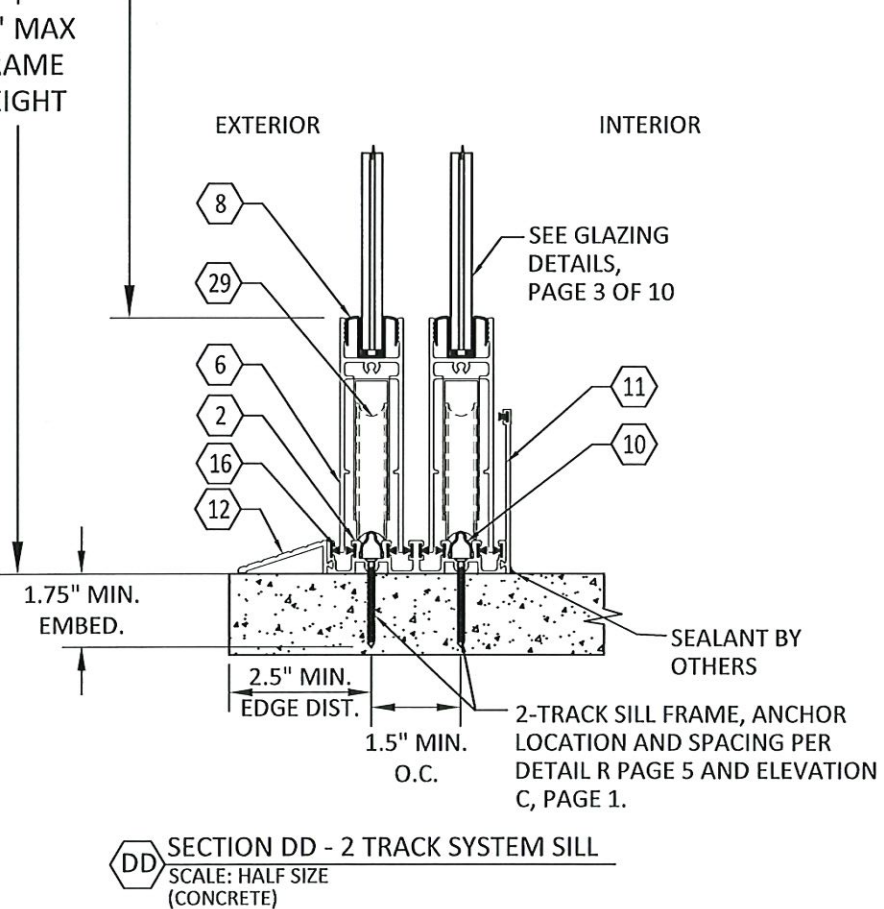


DATE: 05.07.18  
DWN BY: SM  
CHK BY: HFN  
SCALE: NTS  
DWG #: **AIR001**  
SHEET: **6 OF 10**

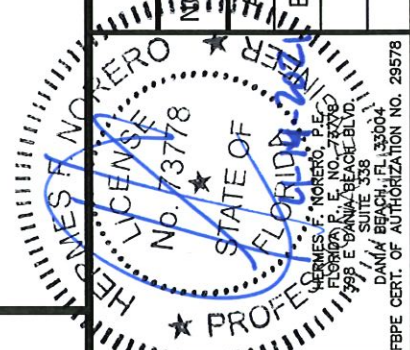
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SEE NOTES ON SHEET 6 FOR MINIMUM SUBSTRATE PROPERTY REQUIREMENTS



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as complying with the Florida Building Code  
NOA-No. 21-0205.05  
Expiration Date 09/05/2023  
By Ishaq I. Chande  
Miami-Dade Product Control



DATE:	05.07.18
DWN BY:	SM
CHK BY:	HFN
SCALE:	NTS
DWG #:	<b>AIR001</b>
SHEET:	<b>7 OF 10</b>

TITLE: SLIDING HP DOOR

INSTALLATION DETAILS

PREPARED BY:  
BUILDING DROPS  
398 E DANIA BEACH BLVD,  
SUITE 338  
DANIA BEACH, FL 33004  
PH: (954) 399-8478 FX: (954) 744-4738

NO.	DESCRIPTION	BY	DATE
A	6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
B	7TH EDITION FBC UPDATE	MS	10.29.20

**AIR MASTER**  
windows and doors

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TABLE 1 - FOR FRAME HEIGHT 96" - HP SLIDING DOOR IR								
NOMINAL HEIGHT (in)	NOMINAL WIDTH (in)	NUMBER OF PANELS	DESIGN WIND LOAD - POS. PSF	DESIGN WIND LOAD - NEG. PSF	OVERALL WIDTH W/ OUT POCKET (in)	SINGLE PANEL OVERALL WIDTH (in)	VERTICAL DLO (in)	HORIZONTAL DLO/PANEL (IN)
96"	48	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	191.00	48.08	87.94	43.81
	44	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	175.00	44.08	87.94	39.81
	42	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	167.00	42.08	87.94	37.81
	36	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	143.00	36.08	87.94	31.81
	* 30	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	119.00	30.08	87.94	25.81
	48	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	145.05	48.08	87.94	43.81
	44	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	133.05	44.08	87.94	39.81
	42	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	127.05	42.08	87.94	37.81
	36	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	109.05	36.08	87.94	31.81
	* 30	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.05	30.08	87.94	25.81
	48	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	99.10	48.08	87.94	43.81
	44	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.10	44.08	87.94	39.81
	42	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	87.10	42.08	87.94	37.81
	36	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	75.10	36.08	87.94	31.81
	* 30	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	63.10	30.08	87.94	25.81

**TABLE 1 NOTES:**

1. HORIZONTAL AND VERTICAL DAYLIGHT OPENINGS (D.L.O.'s) FOR EACH NOMINAL SIZE MAY NOT BE EXCEEDED.
2. \* SEE GENERAL NOTE No. 19 ON SHEET 1 OF 9.
3. † SEE TABLE 1A FOR ALLOWABLE PRESSURES FOR POCKET JAMB CONFIGURATIONS, FOR THE SIZES LISTED.

TABLE 1A - ALLOWABLE PRESSURES FOR CONFIGURATIONS USING POCKET JAMB			
NOMINAL HEIGHT (in)	NOMINAL WIDTH (in)	DESIGN WIND LOAD - POS. PSF	DESIGN WIND LOAD - NEG. PSF
96" MAX.	48" MAX.	60.0	50.0

**TABLE 1A NOTES:**

1. TABLE 1A DESIGN PRESSURE APPLIES TO CONFIGURATIONS WITH NUMBER OF PANELS AND TO DOORS OF ALL SIZES, LISTED IN TABLE 1 (PAGES 8 & 9).

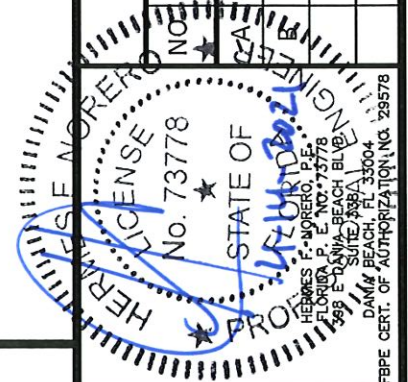


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TITLE: SLIDING HP DOOR  
 DP TABLE  
 PREPARED BY: BUILDING DROPS  
 398 E DANIA BEACH BLVD,  
 SUITE 338  
 DANIA BEACH, FL 33004  
 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		NO.	DESCRIPTION	BY	DATE
1	6 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18		
2	7TH EDITION FBC UPDATE	MS	10.29.20		

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 21-0205.05  
 Expiration Date 09/05/2023  
 By Ishag I. Chande  
 Miami-Dade Product Control



DATE:	05.07.18
DWN BY:	SM
CHK BY:	HFN
SCALE:	NTS
DWG #:	<b>AIR001</b>
SHEET:	<b>8 OF 10</b>

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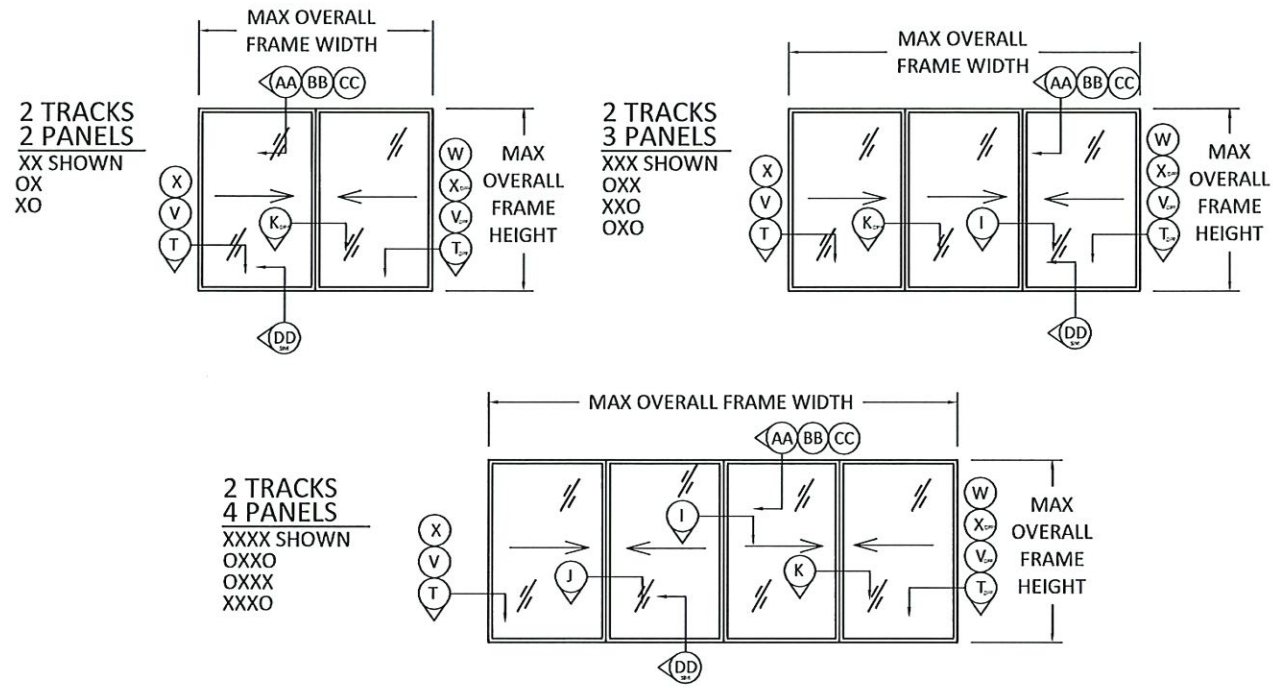
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TABLE 1, CONTINUED - FOR FRAME HEIGHTS 84" & 80" - HP SLIDING DOOR IR

NOMINAL HEIGHT (in)	NOMINAL WIDTH (in)	NUMBER OF PANELS	DESIGN WIND LOAD - POS. PSF	DESIGN WIND LOAD - NEG. PSF	OVERALL WIDTH W/ OUT POCKET (in)	SINGLE PANEL OVERALL WIDTH (in)	VERTICAL DLO (in)	HORIZONTAL DLO/PANEL (in)
84"	48	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	191.00	48.08	75.94	43.81
	44	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	175.00	44.08	75.94	39.81
	42	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	167.00	42.08	75.94	37.81
	36	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	143.00	36.08	75.94	31.81
	* 30	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	119.00	30.08	75.94	25.81
	48	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	145.05	48.08	75.94	43.81
	44	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	133.05	44.08	75.94	39.81
	42	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	127.05	42.08	75.94	37.81
	36	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	109.05	36.08	75.94	31.81
	* 30	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.05	30.08	75.94	25.81
	48	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	99.10	48.08	75.94	43.81
	44	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.10	44.08	75.94	39.81
	42	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	87.10	42.08	75.94	37.81
	36	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	75.10	36.08	75.94	31.81
* 30	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	63.10	30.08	75.94	25.81	
*80"	48	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	191.00	48.08	71.94	43.81
	44	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	175.00	44.08	71.94	39.81
	42	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	167.00	42.08	71.94	37.81
	36	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	143.00	36.08	71.94	31.81
	* 30	4	72.1 <sup>†</sup>	72.1 <sup>†</sup>	119.00	30.08	71.94	25.81
	48	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	145.05	48.08	71.94	43.81
	44	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	133.05	44.08	71.94	39.81
	42	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	127.05	42.08	71.94	37.81
	36	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	109.05	36.08	71.94	31.81
	* 30	3	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.05	30.08	71.94	25.81
	48	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	99.10	48.08	71.94	43.81
	44	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	91.10	44.08	71.94	39.81
	42	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	87.10	42.08	71.94	37.81
	36	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	75.10	36.08	71.94	31.81
* 30	2	72.1 <sup>†</sup>	72.1 <sup>†</sup>	63.10	30.08	71.94	25.81	

TABLE 1 NOTES:

- HORIZONTAL AND VERTICAL DAYLIGHT OPENINGS (D.L.O.'s) FOR EACH NOMINAL SIZE MAY NOT BE EXCEEDED.
- \* SEE GENERAL NOTE No. 19 ON SHEET 1 OF 9.
- † SEE TABLE 1A, SHEET 8, FOR ALLOWABLE PRESSURES FOR POCKET JAMB CONFIGURATIONS, FOR THE SIZES LISTED



DESIGN PRESSURE RATING	IMPACT RATING
+/- 72.1 PSF MAX*	LARGE AND SMALL MISSILE IMPACT

\*SEE TABLE 1A ON SHEET 8 OF 9 FOR DESIGN PRESSURE RATINGS FOR CONFIGURATIONS USING POCKET JAMBS

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 21-0205.05  
 Expiration Date 09/05/2023  
 By Ishaq I. Chande  
 Miami-Dade Product Control



P.O. BOX 2097  
 BARCELONETA, P.R. 00617  
 WWW.AIRMASTERPR.COM  
 PH: (787) 846-2110 FX: (787) 623-0085

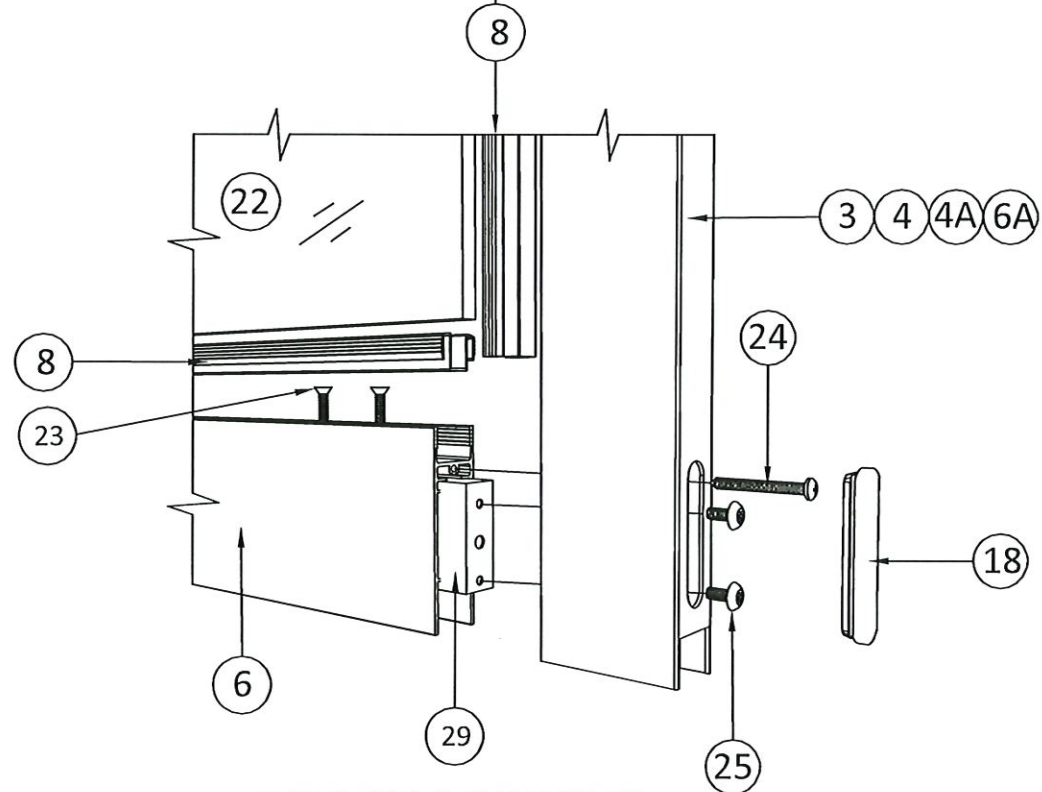
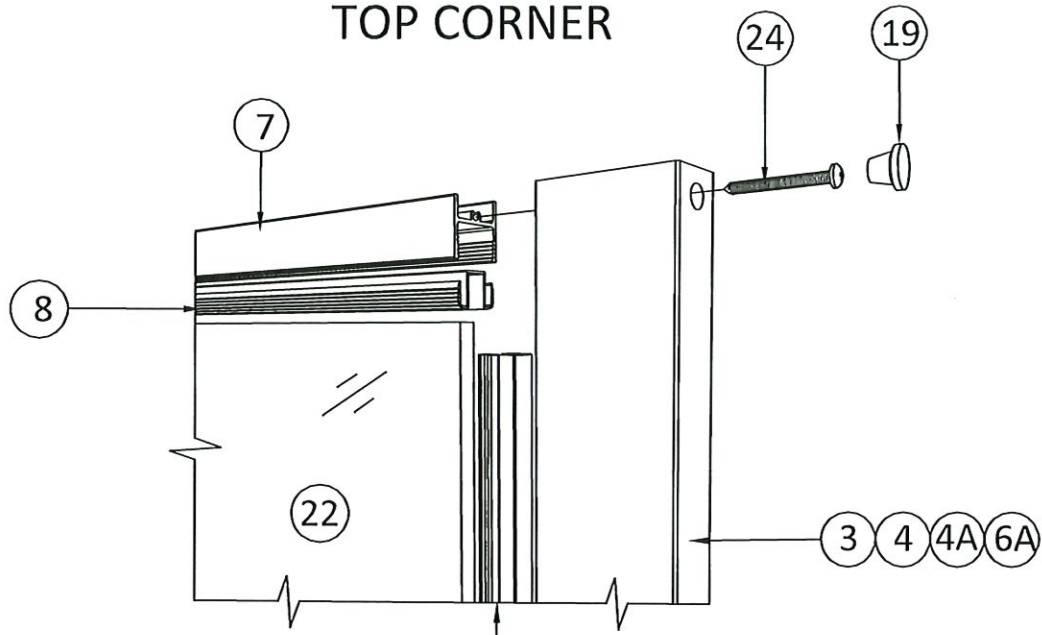
TITLE: SLIDING HP DOOR  
 DP TABLE AND ELEVATIONS  
 PREPARED BY:  
 BUILDING DROPS  
 398 E DANIA BEACH BLVD,  
 SUITE 338  
 DANIA BEACH, FL 33004  
 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	DESCRIPTION	BY	DATE
1	4 & 5 PANEL CONFIGURATIONS REMOVED	SM	10.24.18
2	7TH EDITION FBC UPDATE	MS	10.29.20

DATE: 05.07.18  
 DWN BY: SM  
 CHK BY: HFN  
 SCALE: NTS  
 DWG #: AIR001  
 SHEET: 9 OF 10



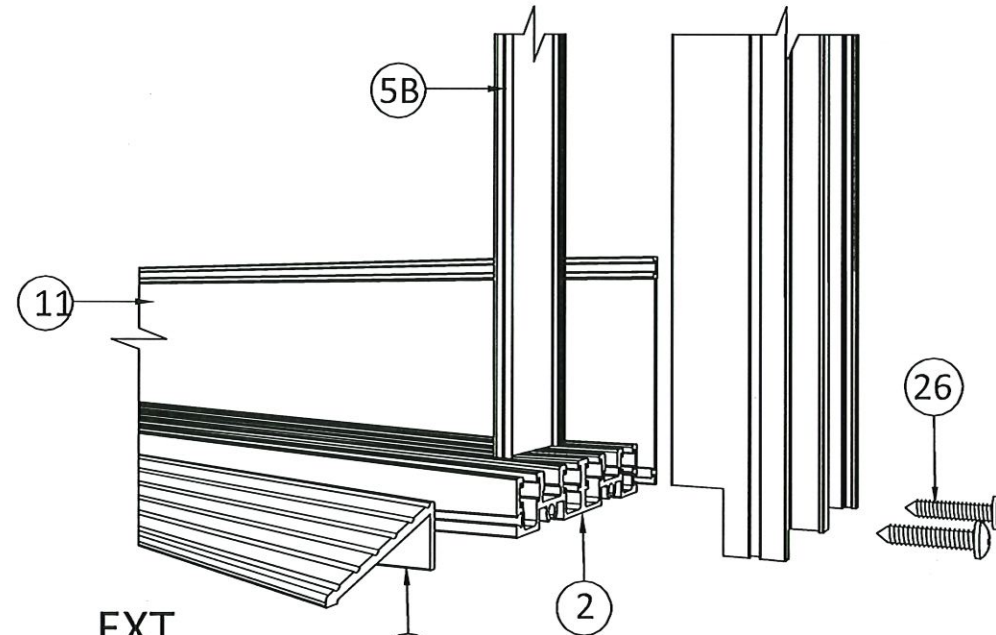
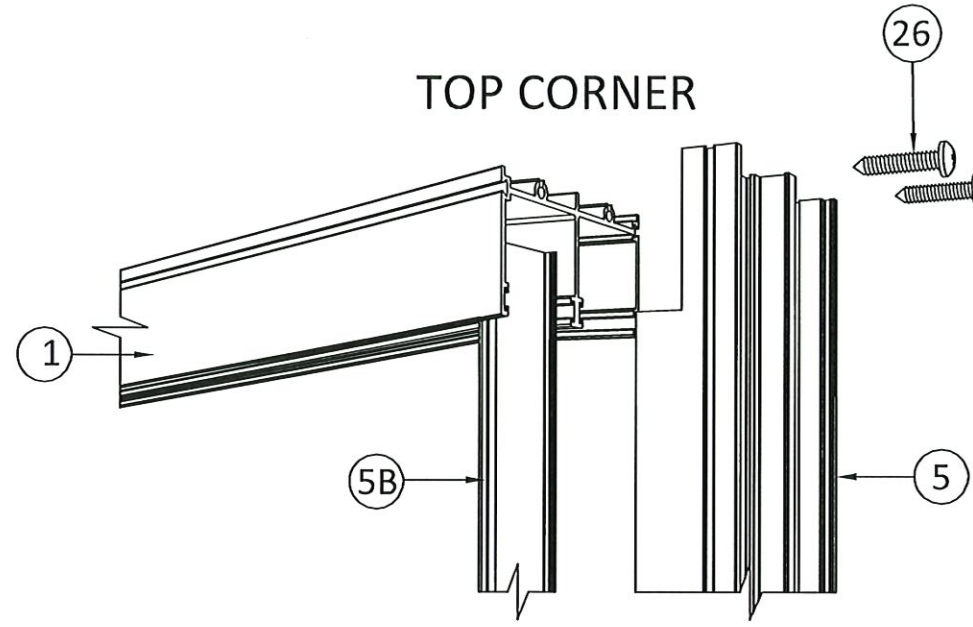
TOP CORNER



BOTTOM CORNER

DOOR LEAF ASSEMBLY DETAILS

TOP CORNER



EXT.

BOTTOM CORNER

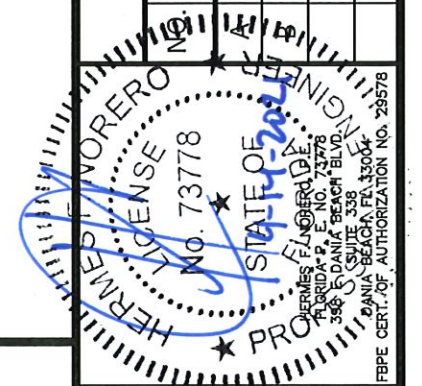
FRAME ASSEMBLY DETAILS

**AIR MASTER**  
windows and doors

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REVISIONS	
DESCRIPTION	BY DATE
6 & 5 PANEL CONFIGURATIONS REMOVED	SM 10.24.18
7TH EDITION FBC UPDATE	MS 10.29.20



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0205.05  
Expiration Date 09/05/2023  
By Ishag I. Chank  
Miami-Dade Product Control

DATE: 05.07.18	DWN BY: SM	CHK BY: HFN	SCALE: NTS
DWG #: <b>AIR001</b>			
SHEET: 10 OF 10			