MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Air Master Awning, LLC
Road 2 Interior Km 56.7
P. O. Box 2097
Barceloneta, PR 00617-2097

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 "IR High Performance w/ or w/o Pocket" Aluminum Sliding Glass Door – L.M.I.

APPROVAL DOCUMENT: 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., bearing the Miami-Dade County Product Control Section 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

LIMITATION: The sliding glass doors with pockets (Type "B") are limited to maximum design pressures of +50 psf (Positive) and -72.1 psf (Negative).

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barceloneta, Puerto Rico**, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 8/26/13

NOA No. 12-1219.05
Expiration Date: September 05, 2018
Approval Date: September 05, 2013

AIR Master Awning, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

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–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 202–94

   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–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).

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12–1219.05
Expiration Date:
Approval Date:

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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.

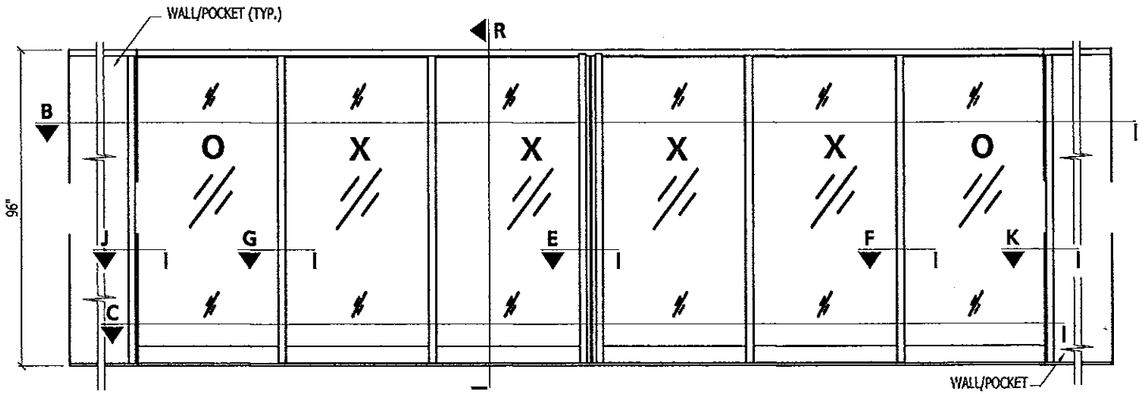
F. STATEMENTS

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.

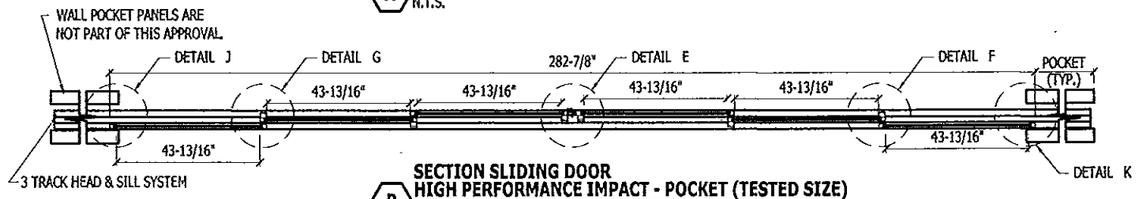
G. OTHERS

1. None.

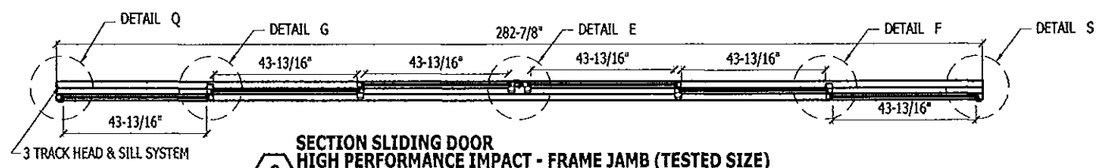
Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12–1219.05
Expiration Date:
Approval Date:



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

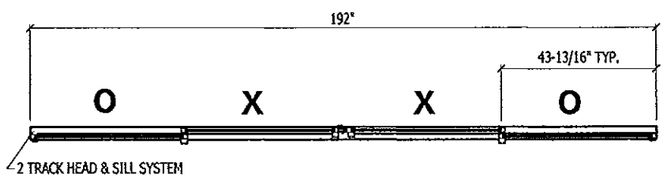


B SECTION SLIDING DOOR
HIGH PERFORMANCE IMPACT - POCKET (TESTED SIZE)
N.T.S.



C SECTION SLIDING DOOR
HIGH PERFORMANCE IMPACT - FRAME JAMB (TESTED SIZE)
N.T.S.

DESIGN PRESSURE RATING	IMPACT RATING
+/- 60 to - 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT



D 96" HIGH, 2 TRACK, 4 PANEL SYSTEM
WITH FRAME JAMBS (TESTED SIZE)
N.T.S.

DESIGN PRESSURE RATING	IMPACT RATING
+/- 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT

BILL OF MATERIAL

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER / NOTES
		PARTS & EXTRUSIONS	
1	80600	FRAME HEAD	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
1-A	80601	FRAME HEAD ADAPTER 1x	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
2	80602	FRAME SILL	FUNDICIONES INDUSTRIALES S.A. / 6063-T5
2-A	80603	FRAME SILL ADAPTER 1x	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-A	80606	JAMB ADAPTER SILL	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	TRACK ADAPTER EXTERIOR	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	DOW 995 STRUCTURAL SILICONE BLACK	CARIBBEAN SALES AGENCY
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.
21A	-	NOVAFLEX M-170	NOVAGARD SILICONES
		GLASS	
22		7/16" IMPACT GLASS	3/16" ANNEALED GLASS SOLUTIA SAFLEX CLEAR OR COLOR GLASS INTERLEYER BY EASTMAN CHEMICAL COMPANY (MA) dbs SOLUTIA, INC. 3/16" ANNEALED GLASS
		FASTENERS	
23	95806	SCR 20x1" F/H S.S. PHI	LA CASA DE LOS TORNILLOS
24	95586	SCR 10x2" PHI P/H S.S. T-A	LA CASA DE LOS TORNILLOS
25	95606	SCR 1/4"-20x5/8" P/H SS PHI	LA CASA DE LOS TORNILLOS
26	95543	SCR 10x1" P/H SS PHI T-A SMS	LA CASA DE LOS TORNILLOS
26A	95529	SCR 10x PHI F-H S/S T-A	LA CASA DE LOS TORNILLOS
		HARDWARE	
27	34124	MORTISE LOCK	DELTA INDUSTRIAL
28	97879	RECESS HANDLE	FRANCISCO R. FARRES, INC.
29	80100	MAXI TANDEM ROLLER	DELTA INDUSTRIAL
30		THE NOVAFLEX M-170	NOVAGARO SILICONES
31	95001	BUTYL GASKET	LAMATEK, INC.
32	96933	BUTYL GASKET	LAMATEK, INC.

Approved as complying with the
Florida Building Code
Date 09/05/2013
NOA# 12-1114.05
Miami-Dade Product Control
By

KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
www.Knezevich-Associates.com
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HIGH PERFORMANCE SLIDING DOOR IR

AIR MASTER AWNING, LLC
WINDOWS AND DOORS
ROAD PR #2 INTERIOR KM 56.7
BARCELONETA, P.R. 00617
Tel. (787) 623-1800 Fax (787) 623-0087

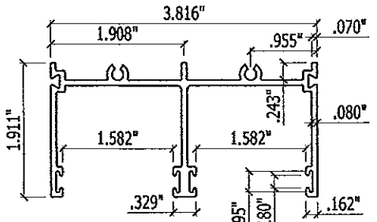
revisions			
no	date	by	description

V.J. Knezevich
Professional Engineer
FL License No. PE 0010983

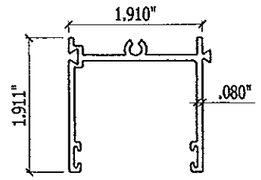
AUG 19 2013

drawn: ARV | scale: AS NOTED
date: 08/19/2013
drawing no.: 12-202
sheet 1 of 8

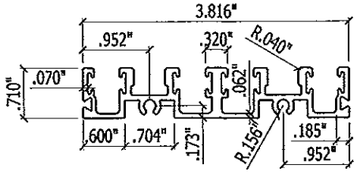
C:_MIDI_Projects\MIDisparate_CAD\VJKnezevich\CAD2012\12-202_AirMasterPR-HP\R1_sub\12-202-01.dwg, 8/19/2013 5:38:53 PM, Tabloid, 1:1, www.MIDisparate.com



1 FRAME HEAD
SCALE: HALF SIZE



1-A FRAME HEAD ADAPTER 1x
SCALE: HALF SIZE 6063-T6



2 FRAME SILL
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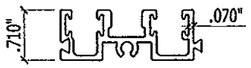

2-A FRAME SILL ADAPTER 1x
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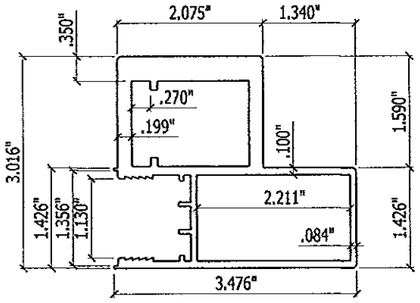
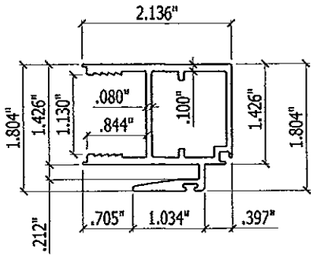
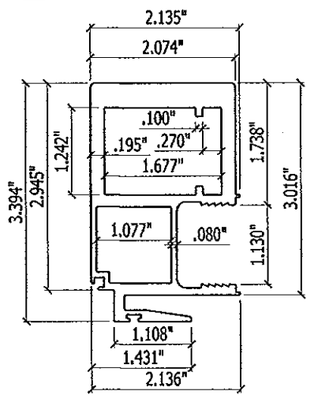


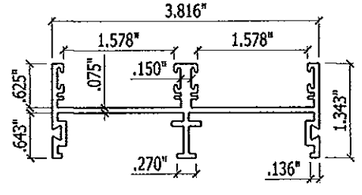
3 LOCK STILE IMPACT
SCALE: HALF SIZE



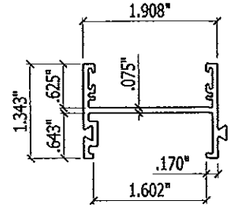
4 INTERLOCK STILE
SCALE: HALF SIZE



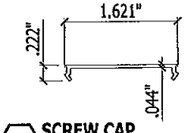
4-A IMPACT INTERLOCK STILE
SCALE: HALF SIZE



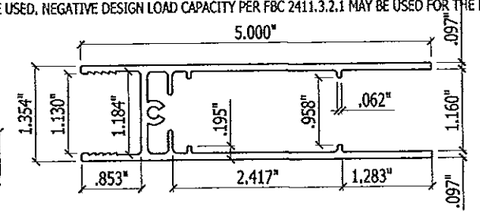
5 FRAME JAMB
SCALE: HALF SIZE



5-A FRAME JAMB ADAPTER
SCALE: HALF SIZE



5-B SCREW CAP
SCALE: HALF SIZE



6 BOTTOM RAIL
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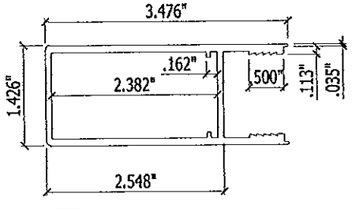
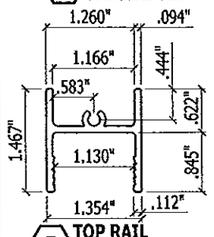
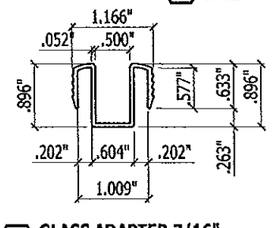


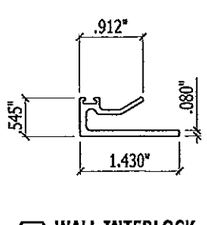
6-A LOCK STILE RAIL
SCALE: HALF SIZE



7 TOP RAIL
SCALE: HALF SIZE



8 GLASS ADAPTER 7/16"
SCALE: HALF SIZE



9 WALL INTERLOCK
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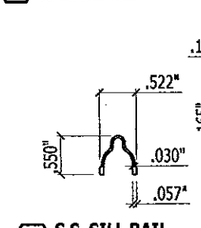

10 S.S. SILL RAIL
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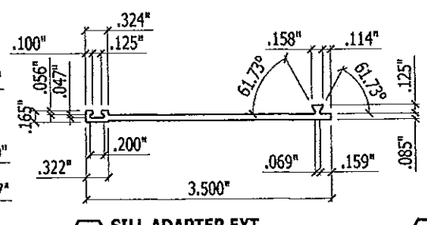
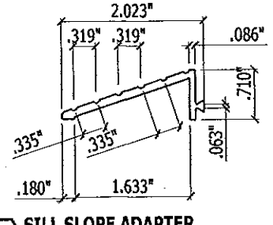
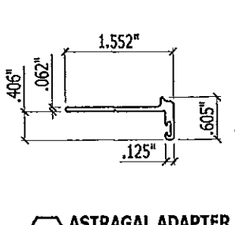


11 SILL ADAPTER EXT.
SCALE: HALF SIZE



12 SILL SLOPE ADAPTER
SCALE: HALF SIZE



13 ASTRAGAL ADAPTER
SCALE: HALF SIZE

GENERAL NOTES:

1. THIS SLIDING DOOR SYSTEM HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), INCLUDING THE HVHZ, UNDER THE SPECIFIC CONDITITIONS SHOWN ON THIS DRAWING. THIS SLIDING DOOR SYSTEM HAS COMPLIED WITH FBC 2411.3.2.1/AAMA 101/I.S.2-97 (ASTM E283, ASTM E331, ASTM F588) AND TAS 201, TAS 202 & TAS 203. THE HIGH PERFORMANCE SLIDING DOOR, IS LARGE MISSILE IMPACT RESISTANT.
2. 1x OR 2 x WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF FBC.
3. ANCHOR CONDITIONS NOT DESCRIBED IN THIS DRAWING ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS.
4. 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 7-10, A DIRECTIONALITY FACTOR OF Kd =0.85 MAY BE USED.
5. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. A WIND LOAD DURATION FACTOR OF 1.6 WAS USED FOR WOOD SCREW ANALYSIS. IN THE PREPARATION OF THESE DOCUMENTS.
6. THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
7. 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.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
   A) 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.
   B) 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.
9. 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.
10. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
11. GLAZING MATERIALS: (OVERALL GLAZING OF 15/32 INCH)
    THE GLASS CONSISTED OF 7/16" THICK (NOMINAL) LAMINATED GLASS COMPRISED OF THE FOLLOWING COMPONENTS:
    A. 3/16" ANNEALED GLASS
    B. SOLUTIA SAFLEX CLEAR OR COLOR GLASS INTERLEYER BY EASTMAN CHEMICAL COMPANY (MA) dbs SOLUTIA, INC.
    C. 3/16" ANNEALED GLASS
12. SEE WINDOW SIZE VS DESIGN LOADS & ANCHOR SCHEDULE
    A. POSITIVE LOAD IS 60 PSF FOR ALL SIZES AND IS BASED ON WATER TEST PRESSURE AND LAMINATED GLASS CHART FIG.A1.29 IN ASTM E1300-04e1.
    B. NEGATIVE LOAD VARIES FROM -60.0 PSF TO -72.1 PSF AND COMPLIES WITH LAMINATED GLASS CHART FIG.A1.30 AND A1.31 IN ASTM E1300-04e1 SEE TABLES 1 & 2 ON PAGES 7 AND 8 FOR ALL CONFIGURATION SPECIFICATIONS.
    C. 2, 3 & 4 PANEL DOORS OF ANY SIZE ≤48" X 96", SHOWN ON THIS DRAWING, MAY BE USED @± 72.1 PSF.
    D. DOORS THAT DO NOT NEED TO MEET THE WATER INFILTRATION REQUIREMENTS DO NOT NEED TRACK ADAPTER EXT., COMPONENT 11.
13. THIS PRODUCT HAS BEEN SUCCESSFULLY TESTED BY BLACKWATER TESTING FOR FLORIDA BUILDING CODE COMPLIANCE.
    A. BLACKWATER TESTING INC. REPORT NO. BT-AM-12-003
14. 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.
15. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE P.T. STRUCTURAL PLYWOOD & COMPATIBLE WITH ALUMINUM.
16. MINIMUM SPECIFIC GRAVITY FOR ALL WOOD SHALL BE G = 0.55 (SOUTHERN PINE)
17. MATERIALS, INCLUDING, BUT NOT LIMITED TO FASTENERS OR SCREWS THAT COME IN CONTACT WITH DISSIMILAR METALS SHALL MEET THE REQUIREMENTS OF FBC
18. CHAPTER 20. ALSO FASTENERS & SCREWS MUST BE COMPATIBLE WITH CHEMICALS USED FOR PRESSURE TREATMENT OF WOOD.
19. THIS HP SLIDING DOOR SYSTEM DOES NOT HAVE ANY LIMIT ON THE LENGTH OF THE OPENING IN WHICH THIS SYSTEM MAY BE INSTALLED.
20. 30" WIDE DOOR PANELS DO NOT COMPLY WITH FAC 2010 DOOR CLEARANCE & FBC 2010 EGRESS REQUIREMENTS.
21. ALL SHIMS TO BE MAX. 1/4", P.T. STRUCTURAL I PLYWOOD & COMPATIBLE W/ ALUMINUM PER FBC 2010.
22. WHERE THE OVERLONG RATIO (OH LENGTH / OH HEIGHT) IS ≥ 1.0, NO WATER INFIRTRATION NEED BE CONSIDERED IN THE DESIGN & THE SILL ADAPTER (11) NEED NOT BE USED. NEGATIVE DESIGN LOAD CAPACITY PER FBC 2411.3.2.1 MAY BE USED FOR THE POSITIVE DESIGN LOAD CAPACITY AS WELL.

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Date 08/05/2013
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Miami Dade Product Control
By

KNEZEVICH ASSOCIATES
Consulting Engineers * COA. 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
www.Knezevich-Associates.com

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HIGH PERFORMANCE SLIDING DOOR IR

AIR MASTER AWNING, LLC
WINDOWS AND DOORS
ROAD PR #2 INTERIOR KM 56.7
BARCELONETA, P.R. 00617
Tel. (787) 623-1800 Fax (787) 623-0087

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V.J. Knezevich
Professional Engineer
FL License No. 0010583
AUG 19 2013

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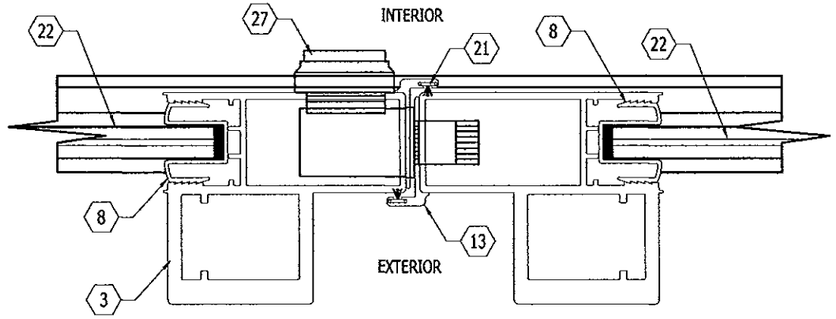
ARV	AS NOTED
date	08/19/2013

drawing no.
12-202
sheet 2 of 8



E **DETAIL E**
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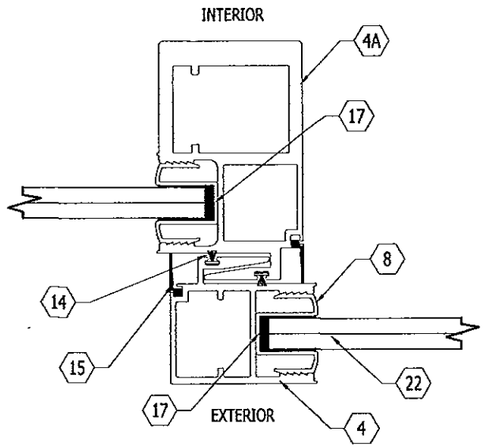

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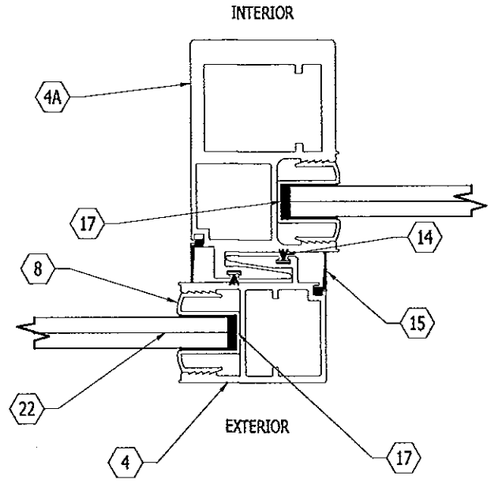

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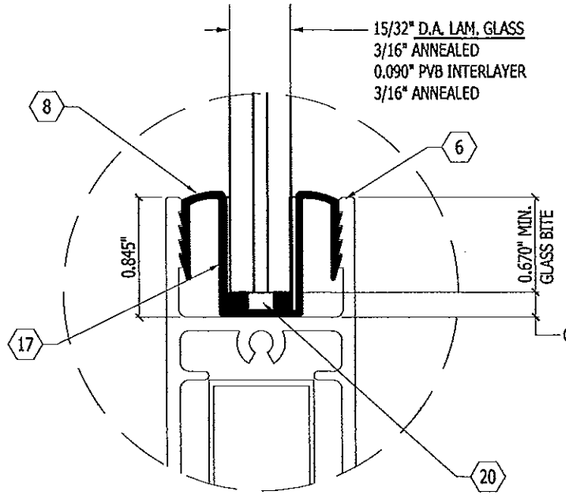

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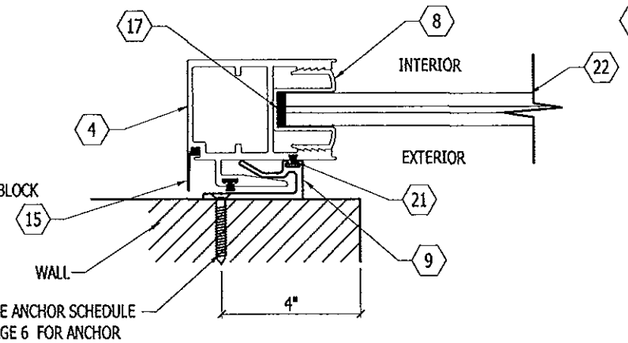
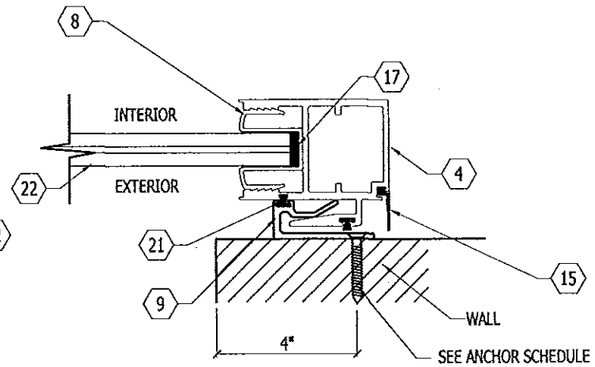
SCALE: HALF SIZE



SEE ANCHOR SCHEDULE PAGE 6 FOR ANCHOR SPECIFICATIONS. INSTALL ANCHORS:
@ 4.9" O.C. IN CMU
@ 15.8" O.C. IN CONCRETE
@ 12.3" O.C. IN WOOD

J **DETAIL J**
SCALE: HALF SIZE



SEE ANCHOR SCHEDULE PAGE 6 FOR ANCHOR SPECIFICATIONS. INSTALL ANCHORS:
@ 4.9" O.C. IN CMU
@ 15.8" O.C. IN CONCRETE
@ 12.3" O.C. IN WOOD

K **DETAIL K**
SCALE: HALF SIZE

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BARCELONETA, P.R. 00617
Tel. (787) 620-1800 Fax (787) 620-0087

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V.J. Knezevich
Professional Engineer
FL License No. # 0016983

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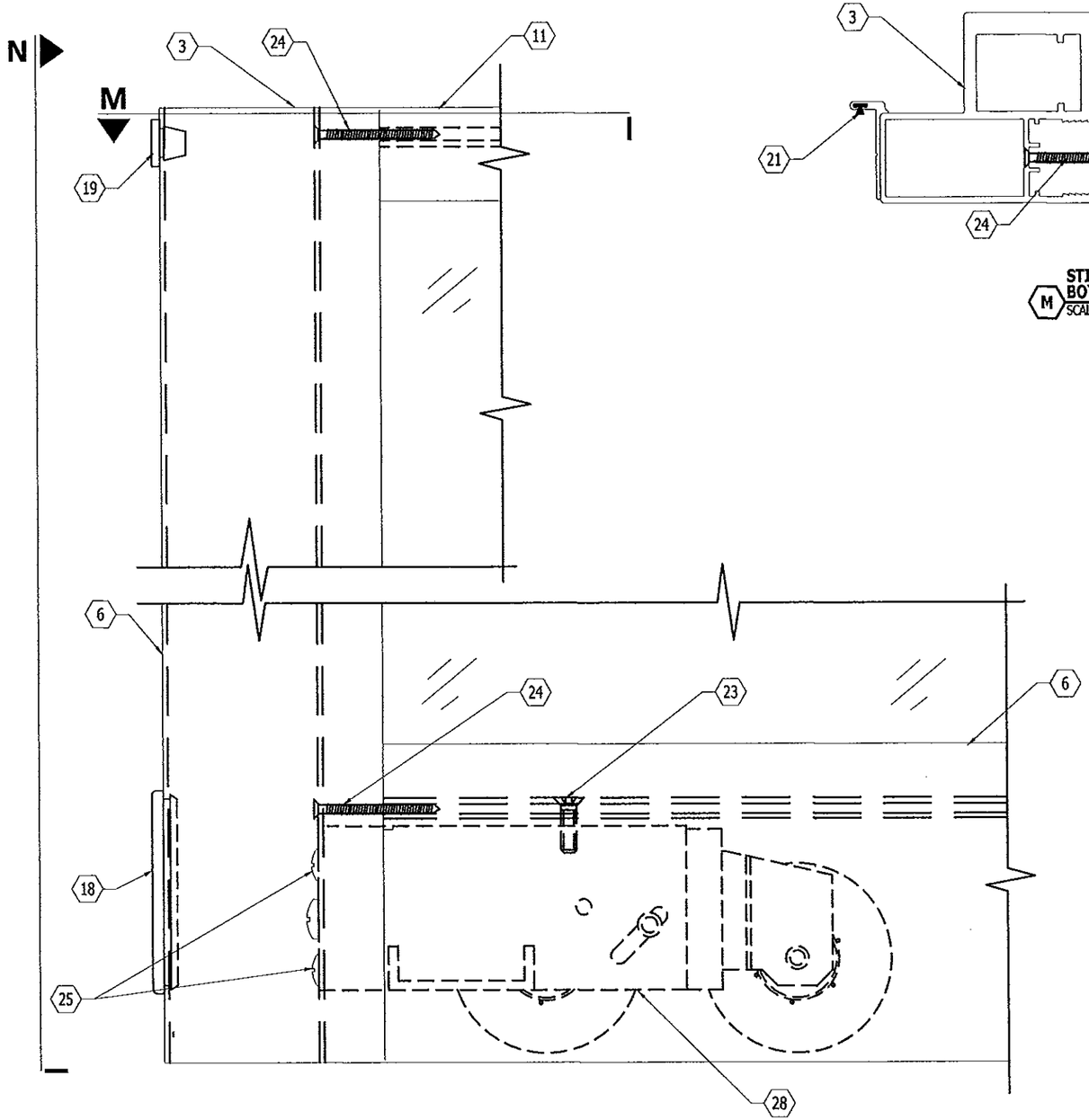
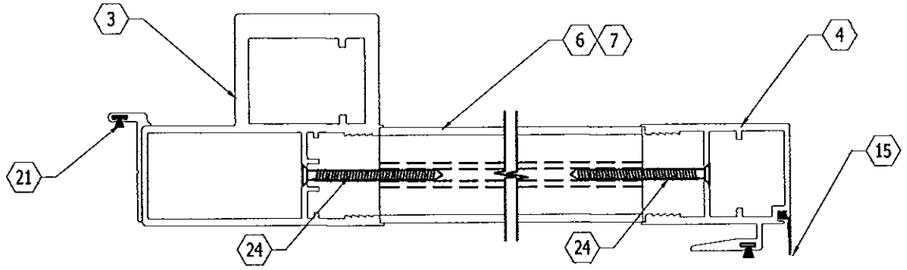
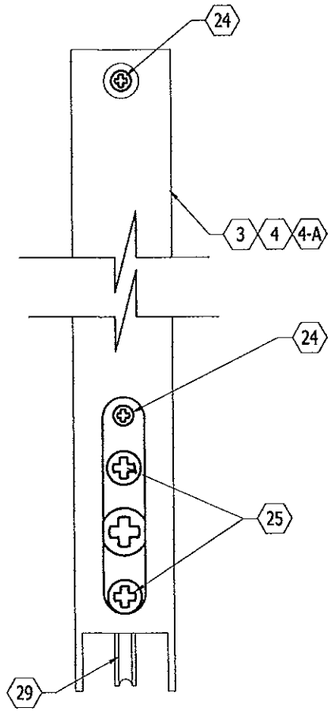


L TANDEM ROLLERS ANCHOR DETAIL
SCALE: FULL SIZE



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



SIDE VIEW

N TANDEM ROLLERS ANCHOR DETAIL
SCALE: FULL SIZE

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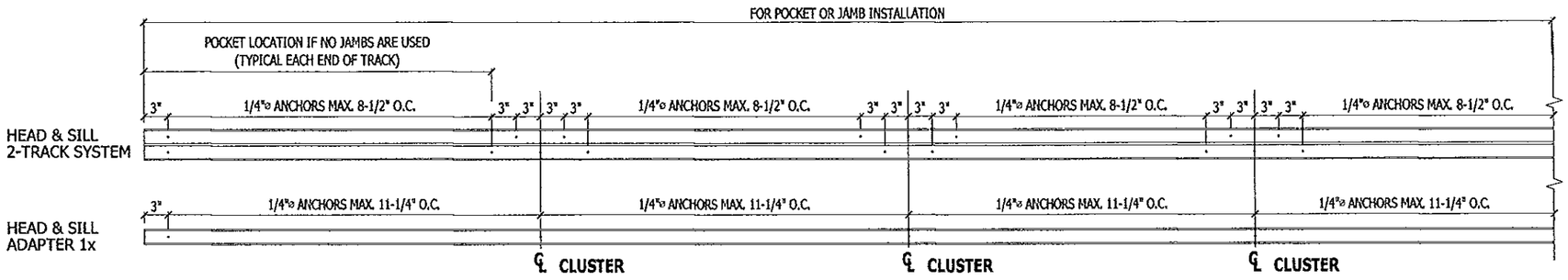
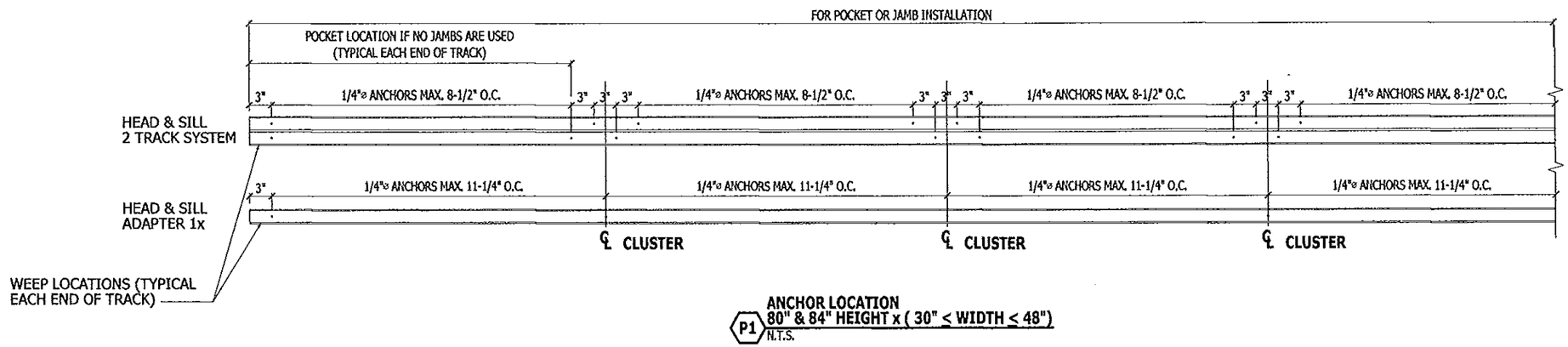


ANCHOR LOCATION
(P) 96" HEIGHT x (30" ≤ WIDTH ≤ 48")
N.T.S.



ANCHOR LOCATION
(P1) 80" & 84" HEIGHT x (30" ≤ WIDTH ≤ 48")
N.T.S.

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Professional Engineer
FL License No.: PE 0016583

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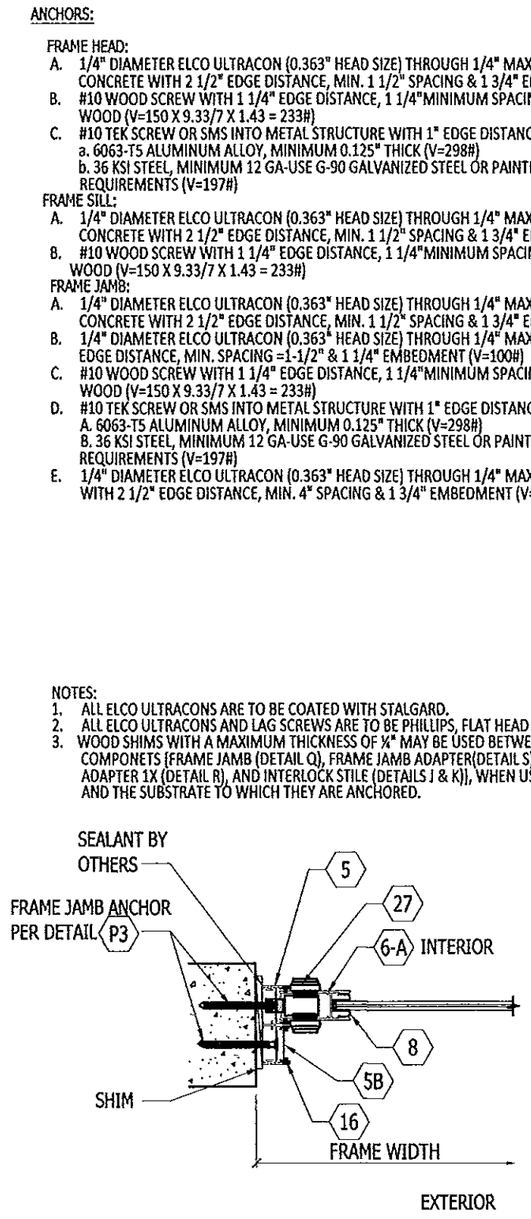
ANCHORS:

FRAME HEAD:
A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO >= 2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (V=315#)
B. #10 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4"MINIMUM SPACING AND 1 3/4" PENETRATION IN G=0.55 WOOD (V=150 X 9.33/7 X 1.43 = 233#)
C. #10 TEK SCREW OR SMS INTO METAL STRUCTURE WITH 1" EDGE DISTANCE, MINIMUM 1/2" PENETRATION
   a. 6063-T5 ALUMINUM ALLOY, MINIMUM 0.125" THICK (V=298#)
   b. 36 KSI STEEL, MINIMUM 12 GA-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE F8C DISSIMILAR METAL REQUIREMENTS (V=197#)

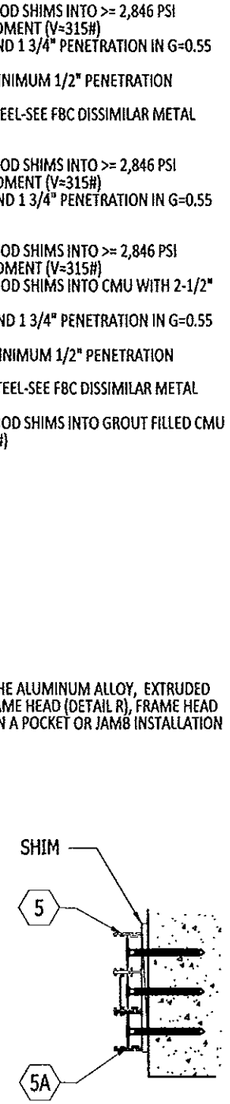
FRAME SILL:
A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO >= 2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (V=315#)
B. #10 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4"MINIMUM SPACING AND 1 3/4" PENETRATION IN G=0.55 WOOD (V=150 X 9.33/7 X 1.43 = 233#)

FRAME JAMB:
A. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO >= 2,846 PSI CONCRETE WITH 2 1/2" EDGE DISTANCE, MIN. 1 1/2" SPACING & 1 3/4" EMBEDMENT (V=315#)
B. 1/4" DIAMETER ELCO ULTRACON (0.363" HEAD SIZE) THROUGH 1/4" MAX. WOOD SHIMS INTO CMU WITH 2-1/2" EDGE DISTANCE, MIN. SPACING =1-1/2" & 1 1/4" EMBEDMENT (V=100#)
C. #10 WOOD SCREW WITH 1 1/4" EDGE DISTANCE, 1 1/4"MINIMUM SPACING AND 1 3/4" PENETRATION IN G=0.55 WOOD (V=150 X 9.33/7 X 1.43 = 233#)
D. #10 TEK SCREW OR SMS INTO METAL STRUCTURE WITH 1" EDGE DISTANCE, MINIMUM 1/2" PENETRATION
   A. 6063-T5 ALUMINUM ALLOY, MINIMUM 0.125" THICK (V=298#)
   B. 36 KSI STEEL, MINIMUM 12 GA-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE F8C DISSIMILAR METAL REQUIREMENTS (V=197#)
E. 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. 4" SPACING & 1 3/4" EMBEDMENT (V=250#)

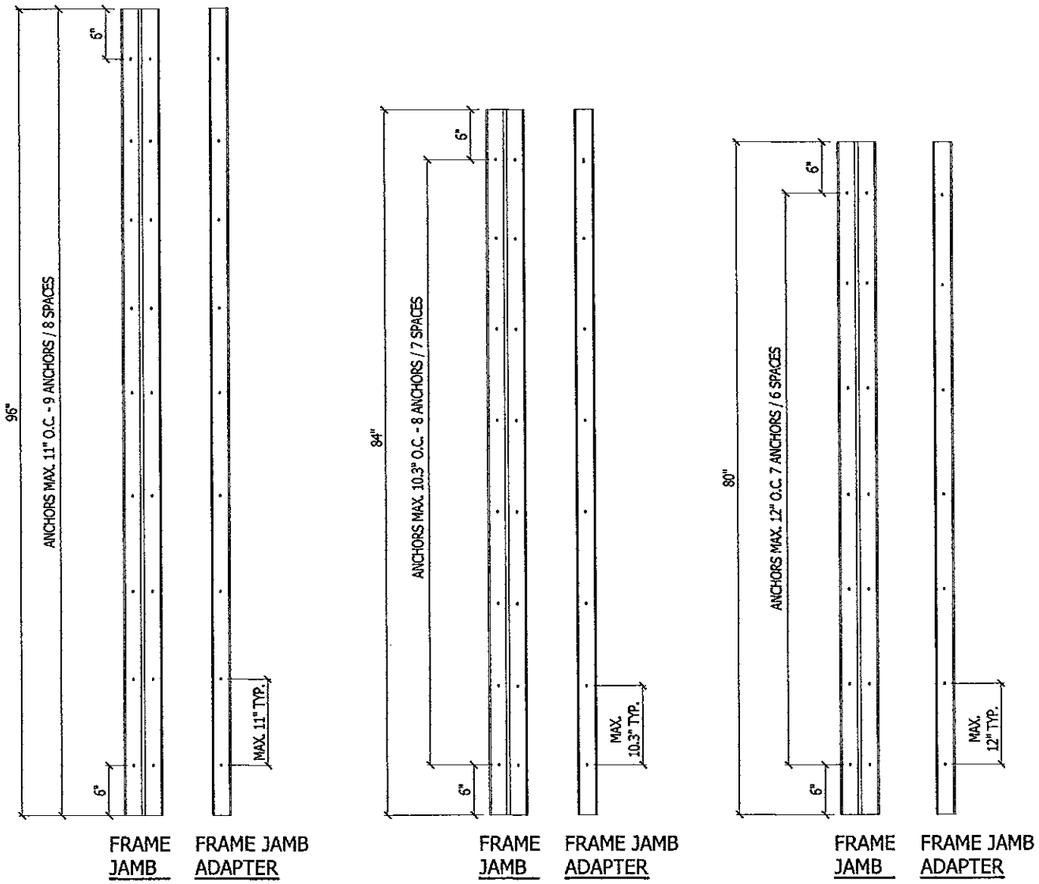
NOTES:
1. ALL ELCO ULTRACONS ARE TO BE COATED WITH STALGARD.
2. ALL ELCO ULTRACONS AND LAG SCREWS ARE TO BE PHILLIPS, FLAT HEAD
3. WOOD SHIMS WITH A MAXIMUM THICKNESS OF ¼" MAY BE USED BETWEEN THE ALUMINUM ALLOY, EXTRUDED COMPONETS (FRAME JAMB (DETAIL Q), FRAME JAMB ADAPTER(DETAIL S), FRAME HEAD (DETAIL R), FRAME HEAD ADAPTER 1X (DETAIL R), AND INTERLOCK STILE (DETAILS J & K)), WHEN USED IN A POCKET OR JAMB INSTALLATION AND THE SUBSTRATE TO WHICH THEY ARE ANCHORED.



Q DETAIL Q
SCALE: HALF SIZE



S DETAIL S
SCALE: HALF SIZE



P3 FRAME JAMB & FRAME JAMB ADAPTER INSTALLATION SCREW HOLES LOCATION DETAIL
N.T.S.

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

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KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
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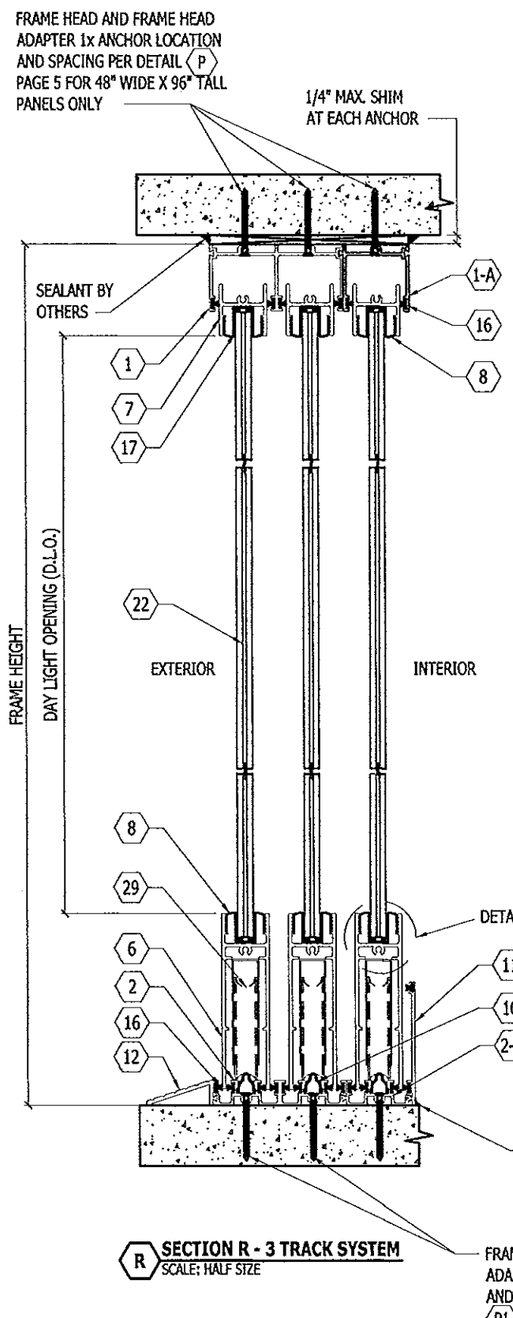
sheet 6 of 8



(R) **SECTION R - 3 TRACK SYSTEM**
SCALE: HALF SIZE

TABLE 1 - FOR FRAME HEIGHT 96" - HP SLIDING DOOR IR

NOMINAL HEIGHT (in)	NOMINAL WIDTH (in)	NUMBER OF PANELS	DESIGN WIND LOAD - POSITIVE PSF	DESIGN WIND LOAD - NEGATIVE PSF	OVERALL WIDTH W/ OUT POCKET (in)	SINGLE PANEL OVERALL WIDTH (in)	VERTICAL DLO (in)	HORIZONTAL DLO/PANEL (IN)
96"	48	6	60.0	60.0	282.89	48.08	87.94	43.81
	44	6	60.0	63.9	258.89	44.08	87.94	39.81
	42	6	60.0	66.3	246.89	42.08	87.94	37.81
	36	6	60.0	72.1	210.89	36.08	87.94	31.81
	* 30	6	60.0	72.1	174.89	30.08	87.94	25.81
	48	5	60.0	60.0	236.94	48.08	87.94	43.81
	44	5	60.0	63.9	216.94	44.08	87.94	39.81
	42	5	60.0	66.3	206.94	42.08	87.94	37.81
	36	5	60.0	72.1	176.94	36.08	87.94	31.81
	* 30	5	60.0	72.1	146.94	30.08	87.94	25.81
	48	4	72.1	72.1	191.00	48.08	87.94	43.81
	44	4	72.1	72.1	175.00	44.08	87.94	39.81
	42	4	72.1	72.1	167.00	42.08	87.94	37.81
	36	4	72.1	72.1	143.00	36.08	87.94	31.81
	* 30	4	72.1	72.1	119.00	30.08	87.94	25.81
	48	3	72.1	72.1	145.05	48.08	87.94	43.81
	44	3	72.1	72.1	133.05	44.08	87.94	39.81
	42	3	72.1	72.1	127.05	42.08	87.94	37.81
	36	3	72.1	72.1	109.05	36.08	87.94	31.81
	* 30	3	72.1	72.1	91.05	30.08	87.94	25.81
	48	2	72.1	72.1	99.10	48.08	87.94	43.81
	44	2	72.1	72.1	91.10	44.08	87.94	39.81
	42	2	72.1	72.1	87.10	42.08	87.94	37.81
	36	2	72.1	72.1	75.10	36.08	87.94	31.81
	* 30	2	72.1	72.1	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. 20 ON PAGE 2 OF 8.

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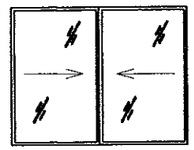
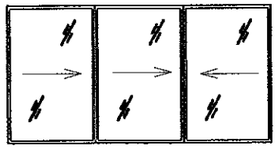
TABLE 1, CONTINUED - FOR FRAME HEIGHTS 84" & 80" - HP SLIDING DOOR IR

NOMINAL HEIGHT (in)	NOMINAL WIDTH (in)	NUMBER OF PANELS	DESIGN WIND LOAD - POSITIVE PSF	DESIGN WIND LOAD - NEGATIVE PSF	OVERALL WIDTH W/ OUT POCKET (in)	SINGLE PANEL OVERALL WIDTH (in)	VERTICAL DLO (in)	HORIZONTAL DLO/PANEL (IN)
84"	48	6	60.0	68.6	282.89	48.08	75.94	43.81
	44	6	60.0	72.1	258.89	44.08	75.94	39.81
	42	6	60.0	72.1	246.89	42.08	75.94	37.81
	36	6	60.0	72.1	210.89	36.08	75.94	31.81
	* 30	6	60.0	72.1	174.89	30.08	75.94	25.81
	48	5	60.0	68.6	236.94	48.08	75.94	43.81
	44	5	60.0	72.1	216.94	44.08	75.94	39.81
	42	5	60.0	72.1	206.94	42.08	75.94	37.81
	36	5	60.0	72.1	176.94	36.08	75.94	31.81
	* 30	5	60.0	72.1	146.94	30.08	75.94	25.81
	48	4	72.1	72.1	191.00	48.08	75.94	43.81
	44	4	72.1	72.1	175.00	44.08	75.94	39.81
	42	4	72.1	72.1	167.00	42.08	75.94	37.81
	36	4	72.1	72.1	143.00	36.08	75.94	31.81
	* 30	4	72.1	72.1	119.00	30.08	75.94	25.81
	48	3	72.1	72.1	145.05	48.08	75.94	43.81
	44	3	72.1	72.1	133.05	44.08	75.94	39.81
	42	3	72.1	72.1	127.05	42.08	75.94	37.81
	36	3	72.1	72.1	109.05	36.08	75.94	31.81
	* 30	3	72.1	72.1	91.05	30.08	75.94	25.81
	48	2	72.1	72.1	99.10	48.08	75.94	43.81
	44	2	72.1	72.1	91.10	44.08	75.94	39.81
	42	2	72.1	72.1	87.10	42.08	75.94	37.81
	36	2	72.1	72.1	75.10	36.08	75.94	31.81
	* 30	2	72.1	72.1	63.10	30.08	75.94	25.81
80"	48	6	60.0	72.0	282.89	48.08	71.94	43.81
	44	6	60.0	72.1	258.89	44.08	71.94	39.81
	42	6	60.0	72.1	246.89	42.08	71.94	37.81
	36	6	60.0	72.1	210.89	36.08	71.94	31.81
	* 30	6	60.0	72.1	174.89	30.08	71.94	25.81
	48	5	60.0	72.0	236.94	48.08	71.94	43.81
	44	5	60.0	72.1	216.94	44.08	71.94	39.81
	42	5	60.0	72.1	206.94	42.08	71.94	37.81
	36	5	60.0	72.1	176.94	36.08	71.94	31.81
	* 30	5	60.0	72.1	146.94	30.08	71.94	25.81
	48	4	72.1	72.1	191.00	48.08	71.94	43.81
	44	4	72.1	72.1	175.00	44.08	71.94	39.81
	42	4	72.1	72.1	167.00	42.08	71.94	37.81
	36	4	72.1	72.1	143.00	36.08	71.94	31.81
	* 30	4	72.1	72.1	119.00	30.08	71.94	25.81
	48	3	72.1	72.1	145.05	48.08	71.94	43.81
	44	3	72.1	72.1	133.05	44.08	71.94	39.81
	42	3	72.1	72.1	127.05	42.08	71.94	37.81
	36	3	72.1	72.1	109.05	36.08	71.94	31.81
	* 30	3	72.1	72.1	91.05	30.08	71.94	25.81
	48	2	72.1	72.1	99.10	48.08	71.94	43.81
	44	2	72.1	72.1	91.10	44.08	71.94	39.81
	42	2	72.1	72.1	87.10	42.08	71.94	37.81
	36	2	72.1	72.1	75.10	36.08	71.94	31.81
	* 30	2	72.1	72.1	63.10	30.08	71.94	25.81

2 TRACKS
2 PANELS
XX SHOWN
OX
XO

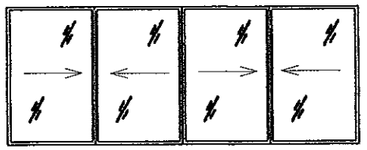


2 TRACKS
3 PANELS
XXX SHOWN
XOX
OXX
XXO
OXO



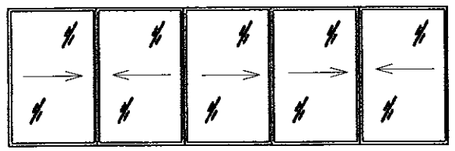
DESIGN PRESSURE RATING	IMPACT RATING
+/- 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT

2 TRACKS
4 PANELS
XXXX SHOWN
OXXO
OXXX
XXXO



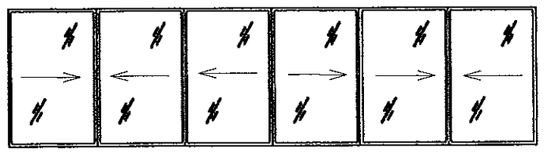
DESIGN PRESSURE RATING	IMPACT RATING
+/- 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT

3 TRACKS
5 PANELS
XXXXX SHOWN
XOXXX
OXXXO
OXXXX
XXXXO



DESIGN PRESSURE RATING	IMPACT RATING
+/- 60 to - 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT

3 TRACKS
6 PANELS
XXXXXX SHOWN
OXXXXO
OXXXXX
XXXXXO
XOXXOX



DESIGN PRESSURE RATING	IMPACT RATING
+/- 60 to - 72.1 PSF (SEE SHEETS 6, 7 & 8 OF 8)	LARGE AND SMALL MISSILE IMPACT

Approved as complying with the Florida Building Code
Date 12/12/2012
NOA# 12-1212.05
Miami-Dade Product Control
By

SLIDING DOOR CONFIGURATIONS
N.T.S.

KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * VJ@Knezevich-Associates.com
www.Knezevich-Associates.com

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AIR MASTER AWNING, LLC
WINDOWS AND DOORS
ROAD PR #2 INTERIOR KM 56.7
BARCELONETA, P.R. 00617
Tel. (787) 623-1800 Fax (787) 623-0087

revisions

no	date	by	description

V.J. Knezevich
Professional Engineer
FL license No. PE 0810983

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sheet 8 of 8