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)

Windoor Inc.,
107 Triple Diamond,
Venice, Fl. 34275

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 "TD9050" Outswing Aluminum Terrace Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. **9050-OS-NOA-1 Rev A**, titled "Alum. Outswing Terrace Door, (LMI)", sheets 1 through 9 of 9, dated 01/05/19 and last revised on 07/21/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami–Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Revision date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. See Design Pressure **(DP)** Vs Glass type, size and Elevation anchor lay out for Single door in sheet **2** and double door in sheet **3.**
2. See Jamb anchor for Single and Double Door in sheet **5.** See double door Cluster anchors at head and sill and cluster layout at astragal/meeting stiles in sheet **4.** Intermediate anchors are per Elevation Layout**.**
3. See illustrative door selection and installation Examples in sheet **5.**

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ 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 **revises NOA No. 19-0205.02** 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.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

NOA No. 20-0806.03
Expiration Date: May 30, 2024
Approval Date: November 25, 2020

Windoor Inc.,

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA

A. DRAWINGS

1. Manufacturer's die drawings and sections.

2. Drawing No. **9050-OS-NOA-1**, titled "Alum. Outswing Terrace Door, (LMI)", sheets 1 through 9 of 9, dated 05/01/19, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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 an aluminum outswing Terrace Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–17789,** dated 12/10/18, signed and sealed by Idalmis Ortega, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, prepared by manufacturer, dated 01/14/19 and last revised on 05/01/19, signed and sealed by A. Lynn Miller, P. E.
2. Glazing complies with ASTM E1300–04/ 09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers**" expiring on 07/08/19.

2. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/23.

3. Architectural Testing Test report # **60520** dated 12/18/2005**,** issued to Ensinger Inc., for Techatherm 66GF (insulbar) tested per ASTM G-155-00, ASTM D 638-03, ASTM D 635-98, ASTM D 1929-96 and ASTM D 2843-99, signed and sealed by Joseph A. Reed, P.E.

F. STATEMENTS

1. Statement letter of conformance with **FBC 6th Edition (2017)** and "No financial interest"**,** issued by manufacturer, dated 01/15/19, signed and sealed by A. Lynn Miller, P. E.

2. Lab compliance as part of the above referenced Test Report.

G. OTHERS

1. Test proposal # **17-026-R** dated May 18, 2017 approved by RER.

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Unit Supervisor
NOA No. 20-0806.03
Expiration Date: May 30, 2024
Approval Date: November 25, 2020

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **9050-OS-NOA-1 Rev A**, titled "Alum. Outswing Terrace Door, (LMI)", sheets 1 through 9 of 9, dated 01/05/19 and last revised on 07/21/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, 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 ASTM F588 and TAS 202-94

along with marked-up drawings and installation diagram of all Windoor Inc., CGI Windows and Doors, Inc. and PGT Industries, Inc., representative units listed below and tested to qualify **Dowsil 791** and **Dowsil 983** silicones, per Proposal #**19-1155TP**, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.:

WinDoor, Inc. test specimens:

FTL-20-2078.1, WinDoor PW3000 Aluminum Fixed Lite (unit 11 in proposal)
FTL-20-2078.2, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 12)
FTL-20-2078.3, WinDoor SGD8100 Alum. Sliding Glass Door (unit 13 in proposal)
FTL-20-2078.4, WinDoor HR9470 Thermally Broken Alum. Horiz. Roller (unit 14)
FTL-20-2078.5, WinDoor PW9020 Alum. Fixed Lite (unit 15 in proposal) and
FTL-20-2078.6, WinDoor PW9020 Alum. Fixed Lite (unit 16 in proposal), all dated 09/24/20 and signed and sealed by Idalmis Ortega, P.E.

CGI Windows and Doors Inc. test specimens:

FTL-20-2108.1, CGI SH360 Aluminum Single Hung Window (unit 1 in proposal) **FTL-20-2108.2,** CGI CA238 Alum. Outswing Casement Window (unit 2 in proposal) **FTL-20-2108.3,** CGI SGD560 Aluminum Sliding Glass Door (unit 3 in proposal) **FTL-20-2108.4**, CGI PW410 Aluminum Fixed Window (unit 4 in proposal) and **FTL-20-2108.5**, CGI SH360 Aluminum Single Hung Window (unit 5 in proposal)all dated 08/24/20 and signed and sealed by Idalmis Ortega, P.E.

PGT Industries, Inc. test specimens:

FTL-7897, PGT PW5520 PVC Fixed Window (unit 6 in proposal), dated 09/03/14
FTL-20-2107.1, PGT SGD780 Aluminum Sliding Glass Door (unit 7 in proposal) **FTL-20-2107.2,** PGT CA740 Alum. Outswing Casement Window (unit 8 in proposal) **FTL-20-2107.3,** PGT PW7620A Aluminum Fixed Window (unit 9 in proposal) and **FTL-20-2107.4**, PGT PW7620A Aluminum Fixed Window (unit 10 in proposal) all dated 07/13/20 and signed and sealed by Idalmis Ortega, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Unit Supervisor
NOA No. 20-0806.03
Expiration Date: May 30, 2024
Approval Date: November 25, 2020

2. NEW EVIDENCE Continue:

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 07/21/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

2. Glazing complies with **ASTM E1300-04, -09, -12 and -16.**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/24.

2. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**", expiring on 07/04/23.

3. Architectural Testing Test report # **60520** dated 12/18/2005**,** issued to Ensinger Inc., for Techatherm 66GF (insulbar) tested per ASTM G-155-00, ASTM D 638-03, ASTM D 635-98, ASTM D 1929-96 and ASTM D 2843-99, signed and sealed by Joseph A. Reed, P.E.

F. STATEMENTS

1. Statement letters of conformance to FBC 2020(**7th** Edition), dated 07/21/20, prepared, signed & sealed by Lynn Miller, P. E.

2. Statement of Lab compliance as part of the test report.

G. OTHER

1. This NOA **revises NOA No. 19-0205.02** and updates to FBC 2020 (7th Edition) expiring 05/30/24.

2. RER Test proposals #**19-1155** dated 01/10/20 approved by Ishaq I. Chanda, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Unit Supervisor
NOA No. 20-0806.03
Expiration Date: May 30, 2024
Approval Date: November 25, 2020

SERIES 9050, IMPACT-RESISTANT, ALUMINUM, OUTSWING TERRACE DOOR

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMU'S) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN. 1.9 KSI AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, #30 FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.

6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 1, THIS SHEET. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. EXTERIOR INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

7) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.

8) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

9) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (INCLUDING ADOPTED STANDARDS) FOR CORROSION RESISTANCE.

10) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.

11) REFERENCES:
TEST REPORTS: FTL-17-7383 (OUTSWING)
NOA'S: ELCO ULTRACON, DEWALT ULTRACON+ & CRETEFLEX ANCHOR NOA'S

TABLE 2:

Glass Type	Description (Listed from Exterior to Interior)
1	7/16" LAMI: 3/16" HS, .090" PVB, 3/16" HS
2	1-1/4" LIG: 3/16" TP CAP, AIRSPACE, 3/16" HS, .090" PVB, 3/16" HS
3	7/16" LAMI: 3/16" HS, .090" SG, 3/16" HS
4	1-1/4" LIG: 3/16" TP CAP, AIRSPACE, 3/16" HS, .090" SG, 3/16" HS

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

SEE SHEET 8 FOR SPACER INFORMATION.

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLE 3, SHEET 2 (SINGLE DOOR) SEE TABLE 4, SHEET 3 (DOUBLE DOOR)	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

TABLE 1:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#14 Steel SMS (Gr. 5)	Head, Sill & Jamb	Southern Pine (SG = 0.55)	5/8"	1-3/8"
			6063-T5 Aluminum	3/8"	0.090"
			A36 Steel	3/8"	0.063"
			Steel Stud, Gr. 33	3/8"	0.045" (18 Ga)
B	#14 18-8 Stainless Steel SMS	Head, Sill & Jamb	Southern Pine (SG = 0.55)	5/8"	1-3/8"
			6063-T5 Aluminum	3/8"	0.090"
			A36 Steel	3/8"	0.063"
			Steel Stud, Gr. 33	3/8"	0.045" (18 Ga)
C	1/4" Elco UltraCon®	Jamb & Head	Concrete (min. 2.85 ksi)	1-1/2"	1-3/4"
		Sill	Concrete (min. 2.85 ksi)	1-1/2"	1-3/8"
		Jamb	Hollow/Filled CMU (ASTM C90)	2-1/2"	1-1/4"
	1/4" DeWalt Ultracon+®	Head	Concrete (min. 3 ksi)	1-3/4"	1-3/4"
		Sill	Concrete (min. 3 ksi)	1-11/16"	1-3/8"
		Jamb	Concrete (min. 3 ksi)	1-1/2"	1-3/4"
		Jamb	Hollow/Filled CMU (ASTM C90)	1-1/2"	1-1/4"
D	1/4" Elco UltraCon®	Jamb & Head	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Sill	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"
	1/4" DeWalt Ultracon+®	Jamb & Head	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Sill	Concrete (min. 3 ksi)	2-1/2"	1-3/8"
	1/4" 410 SS Elco CreteFlex®	Jamb & Head	Concrete (min. 3.35 ksi)	2-1/2"	1-1/4"
		Jamb	Hollow/Filled CMU (ASTM C90)	2-1/2"	1-1/4"
		Sill	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"

1) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
3) METAL SUBSTRATE TO MEET MIN. STRENGTH, IMPOSED DEAD LOADS AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

Anchor & Substrate Material Properties		
Material	Min. F_y	Min. F_u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
Elco UltraCon®	155 ksi	177 ksi
DeWalt UltraCon+®	148 ksi	164 ksi
410 SS Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE ASCE-7 STANDARD.

2) TABLE 3, SHEET 2 REFERS TO SINGLE (X) DOORS. TABLE 4, SHEET 3 REFERS TO TO DOUBLE (XX) DOORS. DETERMINE THE DESIGN PRESSURE OF YOUR PRODUCT USING THE APPROPRIATE TABLE. THIS DESIGN PRESSURE NEEDS TO BE GREATER THAN OR EQUAL TO THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.

3) DETERMINE YOUR ANCHOR GROUP FROM TABLE 1, THIS SHEET AND YOUR GLASS TYPE, (1-4) FROM SHEET 2 OR 3.

4) ANCHOR LOCATIONS AND SPACING ARE SHOWN ON THE ELEVATIONS ON SHEETS 2, (X) & 3, (XX).

5) DEPENDING ON THE PRODUCT CONFIGURATION, SHEETS 6 & 7 SHOW INSTALLATION CROSS-SECTION DETAILS.

6) SEE THE EXAMPLES ON SHEET 5.

STANDARDS USED:

- 2020 FLORIDA BUILDING CODE (FBC), 7TH EDITION
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION ALUMINUM
- DESIGN MANUAL, ADM-2015
- AISI-S100-16
- AISC 360-16

GUIDE TO SHEETS:

GENERAL NOTES.....1
ELEVATION, DP & GLAZING, X.....2
ELEVATION, DP & GLAZING, XX...3
CLUSTER QTY & DETAILS.....4
JAMB ANCHORS/EXAMPLES.....5
HORIZ. INSTALLATION.....6
VERT. INSTALLATION.....7
EXTRUSIONS.....8
PARTS/HARDWARE LIST.....9

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0806.03
Expiration Date 05/30/2024
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: UPDATES FOR 2020 FBC. UPDATED MANUFACTURING ADDRESS. ADDED DEWALT ULTRACON+. EK 7/20/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

WINDOOR® INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Series	Desc.	Title	Sheet	DWG No.	Drawn By	Date	Rev.
TD9050T	GEN. NOTES & ANCHOR TABLE	ALUM. OUTSWING TERRACE DOOR (LM)	1 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 3:

Design Pressure, psf for Single Doors (X)

Glass Type: 1 & 2 (PVB Interlayer)

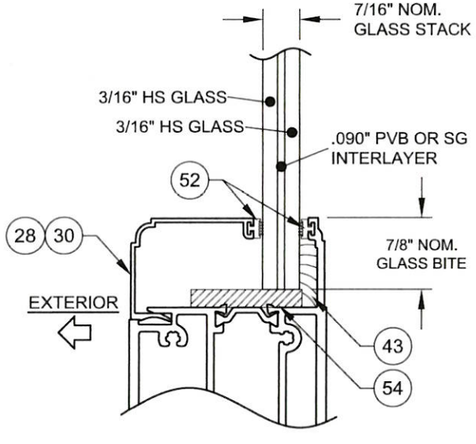
Frame Height	Overall (X) Frame Width					
	28"	32"	36"	40"	42"	46"
72"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -80	+80 / -80
80"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -80	+80 / -80
84"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -80	+80 / -80
96"	+80 / -90	+80 / -90	+80 / -90	+80 / -87.5	+80 / -80	+80 / -80
108"	+80 / -90	+80 / -90	+80 / -82.6	+80 / -80	+80 / -80	+80 / -80
120"	+80 / -90	+80 / -89.3	+80 / -80	+80 / -80	+80 / -80	+80 / -80

USED IN EXAMPLE 1, SHEET 5

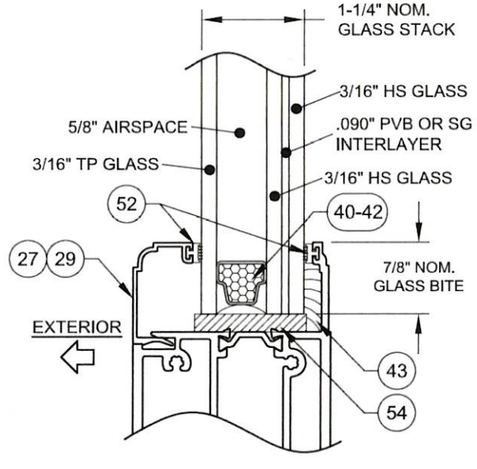
Glass Type: 3 & 4 (SG Interlayer)

Frame Height	Overall (X) Frame Width					
	28"	32"	36"	40"	42"	46"
72"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
80"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
84"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
96"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
108"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
120"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100
128"	+100 / -120	+100 / -120	+100 / -120	+92 / -115	+87.6 / -109.5	+80 / -100

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

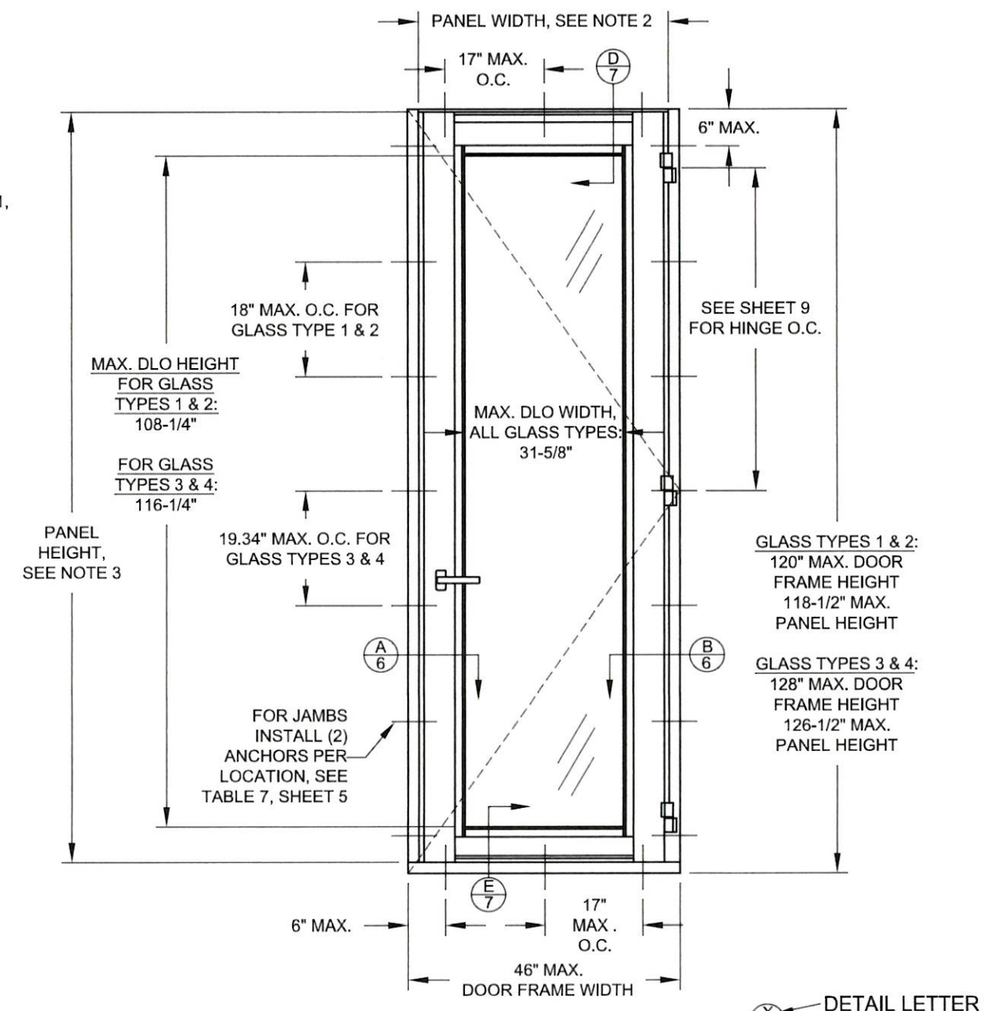


GLASS TYPE 1 (WITH PVB)
GLASS TYPE 3 (WITH SG)



GLASS TYPE 2 (WITH PVB)
GLASS TYPE 4 (WITH SG)

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.



TYP. ELEVATION OF SINGLE DOOR, (X)

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) PANEL WIDTH = DOOR FRAME WIDTH - 4.09
3) PANEL HEIGHT = FRAME HEIGHT - 1.42

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0806.03
Expiration Date 05/30/2024
By Ishaq I. Chanda
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET. EK 7/20/20

PREPARED BY A. LYNN MILLER
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WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Title	Desc	Series	Sheet	DWG No.	Drawn By	Date	Rev.
ALUM. OUTSWING TERRACE DOOR (LM)	X ELEVATION & DP	TD9050T	2 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 4:

Design Pressure, psf for Double Doors (XX)

Glass Type: 1 & 2 (PVB Interlayer)

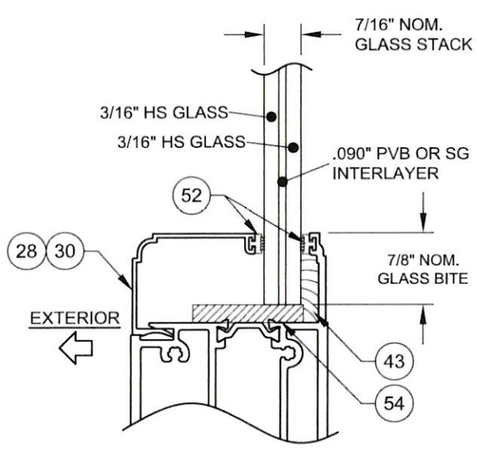
Frame Height	Overall (XX) Frame Width					
	54"	60"	66"	72"	76-1/2"	-
72"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	-
80"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	-
84"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	-
96"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -87.5	-
108"	+80 / -90	+80 / -90	+80 / -90	+80 / -82.6	+77.8 / -77.8	-
120"	+80 / -90	+80 / -89.3	+80 / -81.1	+74.4 / -74.4	+70 / -70	-

Glass Type: 3 & 4 (SG Interlayer)

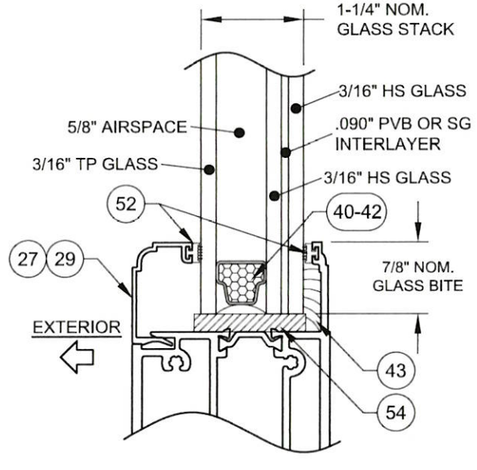
Frame Height	Overall (XX) Frame Width					
	54"	60"	66"	72"	76-1/2"	84-1/2"
72"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90
80"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90
84"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90
96"	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+80 / -90	+73.3 / -86.7
108"	+80 / -90	+80 / -90	+80 / -90	+76.5 / -90	+72 / -85.1	+65.2 / -77
120"	+80 / -90	+80 / -90	+75.1 / -88.8	+68.9 / -81.4	+64.8 / -76.6	+58.7 / -69.3
128"	+80 / -90	+77.5 / -90	+70.4 / -83.2	+64.5 / -76.3	+60.8 / -71.8	+55 / -65

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

USED IN EXAMPLE 2, SHEET 5

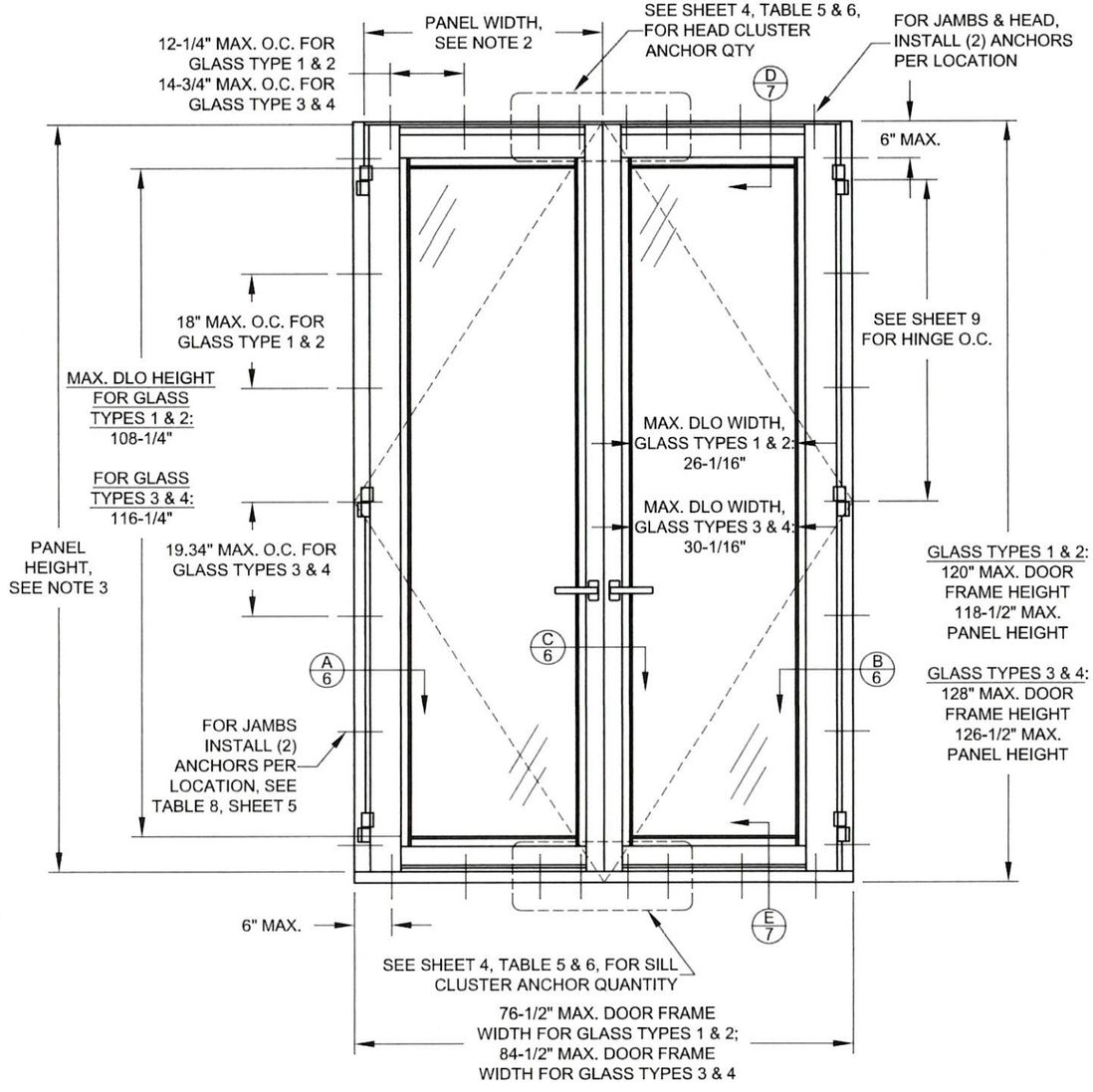


GLASS TYPE 1 (WITH PVB)
GLASS TYPE 3 (WITH SG)



GLASS TYPE 2 (WITH PVB)
GLASS TYPE 4 (WITH SG)

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.



TYP. ELEVATION OF DOUBLE DOOR, (XX)

X/# DETAIL LETTER / SHEETS #

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) PANEL WIDTH = (DOOR FRAME WIDTH) / 2 - 1.17
3) PANEL HEIGHT = FRAME HEIGHT - 1.42

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0806.03
Expiration Date 05/30/2024
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: NO CHANGES THIS SHEET. EK 7/20/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Title	Desc.	Sheet	DWG No.	Drawn By	Date	Rev.
ALUM. OUTSWING TERRACE DOOR (LM)	XX ELEVATION & DP	TD9050T	3 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
9/7/20

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

Min. Quantity of Cluster Anchors @ Head & Sill, XX

Glass Type: 1 & 2 (PVB Interlayer)

Frame Height	Frame Location	Anchor Group	Frame Width 54"	60"	66"	72"	76-1/2"
72"	Head	A	4	4	4	4	6
	Sill		3	3	3	3	4
	Head	B	4	4	4	6	6
	Sill		3	3	3	4	4
	Head	C	4	4	4	4	4
	Sill		3	3	3	3	4
	Head	D	4	4	4	4	4
	Sill		3	3	3	4	4
80"	Head	A	4	4	4	6	6
	Sill		3	3	3	4	4
	Head	B	4	4	6	6	6
	Sill		3	3	4	4	4
	Head	C	4	4	4	4	6
	Sill		3	3	3	4	4
	Head	D	4	4	4	4	4
	Sill		3	4	4	4	4
84"	Head	A	4	4	6	6	6
	Sill		3	3	4	4	4
	Head	B	4	6	6	6	6
	Sill		3	3	4	4	4
	Head	C	4	4	4	6	6
	Sill		3	3	4	4	4
	Head	D	4	4	4	4	6
	Sill		3	4	4	4	5
96"	Head	A	4	6	6	6	6
	Sill		3	4	4	4	4
	Head	B	6	6	6	6	6
	Sill		4	4	4	5	5
	Head	C	4	4	6	6	6
	Sill		3	4	4	4	4
	Head	D	4	4	4	6	6
	Sill		4	4	4	5	5
108"	Head	A	6	6	6	6	6
	Sill		4	4	4	4	4
	Head	B	6	6	6	6	6
	Sill		4	4	5	5	5
	Head	C	4	6	6	6	6
	Sill		4	4	4	4	4
	Head	D	4	6	6	6	6
	Sill		4	5	5	5	5
120"	Head	A	6	6	6	6	6
	Sill		4	4	4	4	4
	Head	B	6	6	6	6	6
	Sill		4	5	5	5	5
	Head	C	6	6	6	6	6
	Sill		4	4	4	4	4
	Head	D	6	6	6	6	6
	Sill		5	5	5	5	5

TABLE 6:

Min. Quantity of Cluster Anchors @ Head & Sill, XX

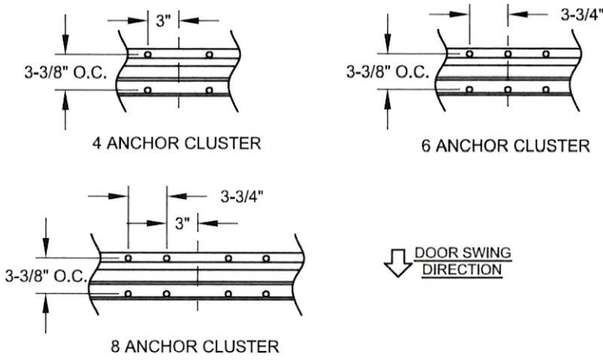
Glass Type: 3 & 4 (SG Interlayer)

Frame Height	Frame Location	Anchor Group	Frame Width 54"	60"	66"	72"	76-1/2"	84-1/2"
72"	Head	A	4	4	4	4	6	6
	Sill		3	3	3	3	4	4
	Head	B	4	4	4	6	6	6
	Sill		3	3	3	4	4	4
	Head	C	4	4	4	4	4	6
	Sill		3	3	3	3	4	4
	Head	D	4	4	4	4	4	4
	Sill		3	3	3	4	4	4
80"	Head	A	4	4	4	6	6	6
	Sill		3	3	3	4	4	4
	Head	B	4	4	6	6	6	6
	Sill		3	3	4	4	4	4
	Head	C	4	4	4	4	6	6
	Sill		3	3	3	4	4	4
	Head	D	4	4	4	4	4	6
	Sill		3	4	4	4	4	5
84"	Head	A	4	4	6	6	6	6
	Sill		3	3	4	4	4	4
	Head	B	4	6	6	6	6	6
	Sill		3	3	4	4	4	5
	Head	C	4	4	4	6	6	6
	Sill		3	3	4	4	4	4
	Head	D	4	4	4	4	6	6
	Sill		3	4	4	4	5	5
96"	Head	A	4	6	6	6	6	6
	Sill		3	4	4	4	5	5
	Head	B	6	6	6	6	6	8
	Sill		4	4	4	5	5	5
	Head	C	4	4	6	6	6	6
	Sill		3	4	4	4	5	5
	Head	D	4	4	4	6	6	6
	Sill		4	4	4	5	5	5
108"	Head	A	6	6	6	6	6	6
	Sill		4	4	4	5	5	5
	Head	B	6	6	6	8	8	8
	Sill		4	4	5	5	5	5
	Head	C	4	6	6	6	6	6
	Sill		4	4	4	5	5	5
	Head	D	4	6	6	6	6	6
	Sill		4	5	5	5	5	5
120"	Head	A	6	6	6	6	6	6
	Sill		4	4	5	5	5	5
	Head	B	6	6	8	8	8	8
	Sill		4	5	5	5	5	5
	Head	C	6	6	6	6	6	6
	Sill		4	4	5	5	5	5
	Head	D	6	6	6	6	6	6
	Sill		5	5	5	5	5	5
128"	Head	A	6	6	6	6	6	6
	Sill		4	5	5	5	5	5
	Head	B	6	8	8	8	8	8
	Sill		5	5	5	5	5	5
	Head	C	6	6	6	6	6	6
	Sill		4	5	5	5	5	5
	Head	D	6	6	6	6	6	6
	Sill		5	5	5	5	5	5

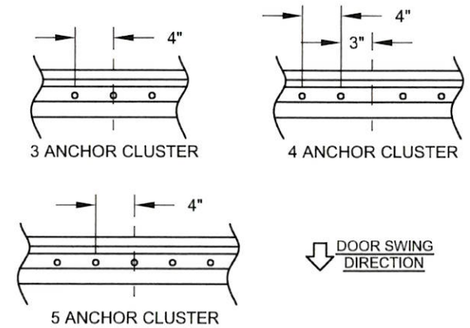
USED IN EXAMPLE 2, SHEET 5

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) HEAD AND SILL ANCHOR QUANTITIES ARE FOR DOUBLE DOOR (XX) ANCHOR CLUSTERS ONLY.



ANCHOR CLUSTER PATTERN @ HEAD



ANCHOR CLUSTER PATTERN @ SILL

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By Ishaq I. Chanda
Miami–Dade Product Control

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PREPARED BY A. LYNN MILLER
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Series	Title	Sheet	DWG No.	Drawn By	Date	Rev.
TD9050T	ALUM. OUTSWING TERRACE DOOR (LM)	4 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANCHOR QUANTITY

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 7:

Min. Quantity of Anchors Required at the Jamb, X

All Glass Types: 1, 2, 3 & 4 and All Anchor Groups: A, B, C & D

Frame Height	Frame Width					
	28"	32"	36"	40"	42"	46"
72"	10	10	10	10	10	10
80"	10	10	10	10	10	10
84"	10	10	10	10	10	10
96"	12	12	12	12	12	12
108"	14	14	14	14	14	14
120"	14	14	14	14	14	14
128" *	14	14	14	14	14	14

USED IN EXAMPLE 1, THIS SHEET

* APPLICABLE ONLY TO GLASS TYPES 3 & 4.

TABLE 8:

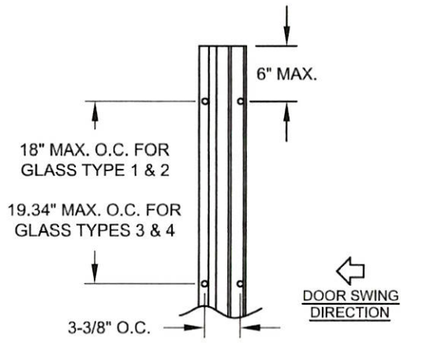
Min. Quantity of Anchors Required at the Jamb, XX

All Glass Types: 1, 2, 3 & 4 and All Anchor Groups: A, B, C & D

Frame Height	Frame Width					
	54"	60"	66"	72"	76-1/2"	84-1/2"
72"	10	10	10	10	10	10
80"	10	10	10	10	10	10
84"	10	10	10	10	10	10
96"	12	12	12	12	12	12
108"	12	12	12	12	12	12
120"	14	14	14	14	14	14
128" *	14	14	14	14	14	14

* APPLICABLE ONLY TO GLASS TYPES 3 & 4.

USED IN EXAMPLE 2, THIS SHEET



ANCHOR PATTERN @ JAMB

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

EXAMPLE 1:

- SINGLE DOOR, X, 42" X 83-3/4", REQUIRED DESIGN PRESSURE IS +55/-75 PSF.
- SUBSTRATE IS WOOD ON ALL SIDES.

1) FROM TABLE 3, WE SEE THAT THE SIZE IS AVAILABLE USING PVB INTERLAYER GLAZING (GLASS TYPES 1 OR 2), OR SG INTERLAYER GLAZING (GLASS TYPES 3 & 4). FOR THIS EXAMPLE CHOOSE THE PVB INTERLAYER.

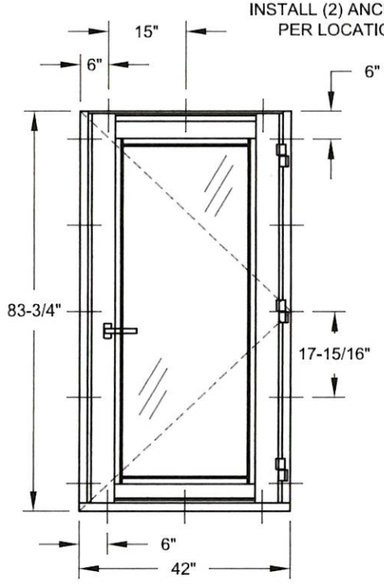
2) FROM TABLE 3, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +80/-80. SINCE THIS EXCEEDS THE REQUIREMENTS OF +55/-75, WE MAY PROCEED.

3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 2.

4) FROM TABLE 7, IT IS REQUIRED THAT WE USE AT LEAST 10 ANCHORS IN THE JAMB (5 PAIRS). FOR THE MAXIMUM O.C., SEE THE ELEVATION DRAWING ON SHEET 2.

5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 6 & 7 AS A GUIDELINE.

FOR JAMBS & HEAD, INSTALL (2) ANCHORS PER LOCATION



EXAMPLE 2:

- DOUBLE DOOR, XX, 79-1/2" X 124-3/4". REQUIRED DESIGN PRESSURE IS +/-52.5 PSF.
- SUBSTRATE IS CONCRETE AT THE HEADER AND SILL AND UNFILLED CONCRETE BLOCKS AT THE JAMBS.

1) FROM TABLE 4, WE SEE THAT THE SIZE IS NOT AVAILABLE USING PVB INTERLAYER GLAZING (GLASS TYPES 1 OR 2), SG INTERLAYER GLAZING (GLASS TYPES 3 OR 4) MUST BE USED.

2) FROM TABLE 4, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +55/-65. SINCE THIS EXCEEDS THE REQUIREMENTS OF +/-52.5, WE MAY PROCEED.

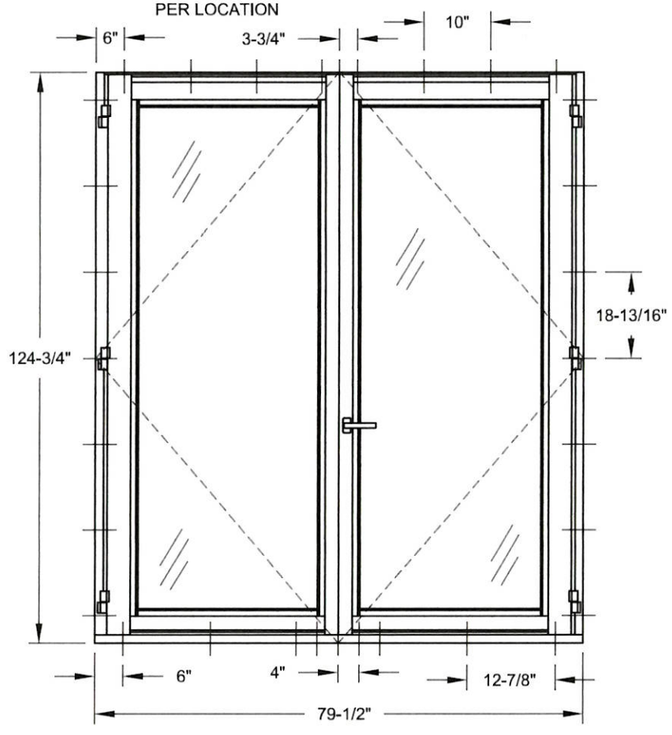
3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 3. FOR THE HEAD AND SILL CLUSTER QUANTITIES, REFER TO TABLE 6.

4) TABLE 6 REQUIRES US TO KNOW THE ANCHOR GROUP TO BE USED. WE PLAN ON USING ULTRACON ANCHORS. LOOKING AT TABLE 1, SHEET 1, WE CHOSE ANCHOR GROUP D SINCE WE KNOW THAT THE ANCHORS AT THE HEAD AND SILL ARE INTO CONCRETE AND THE ANCHORS AT THE JAMBS ARE INTO HOLLOW BLOCK.

WE REQUIRE 6 CLUSTER ANCHORS IN THE HEAD AND 5 CLUSTER ANCHORS IN THE SILL USING THE SPACING SHOWN ON SHEET 4.

5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 6 & 7 AS A GUIDELINE.

FOR JAMBS & HEAD, INSTALL (2) ANCHORS PER LOCATION



PRODUCT REVISED
as complying with the Florida Building Code
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By Ishaq I. Chanda
Miami–Dade Product Control

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PREPARED BY A. LYNN MILLER
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REGISTRATION #29296

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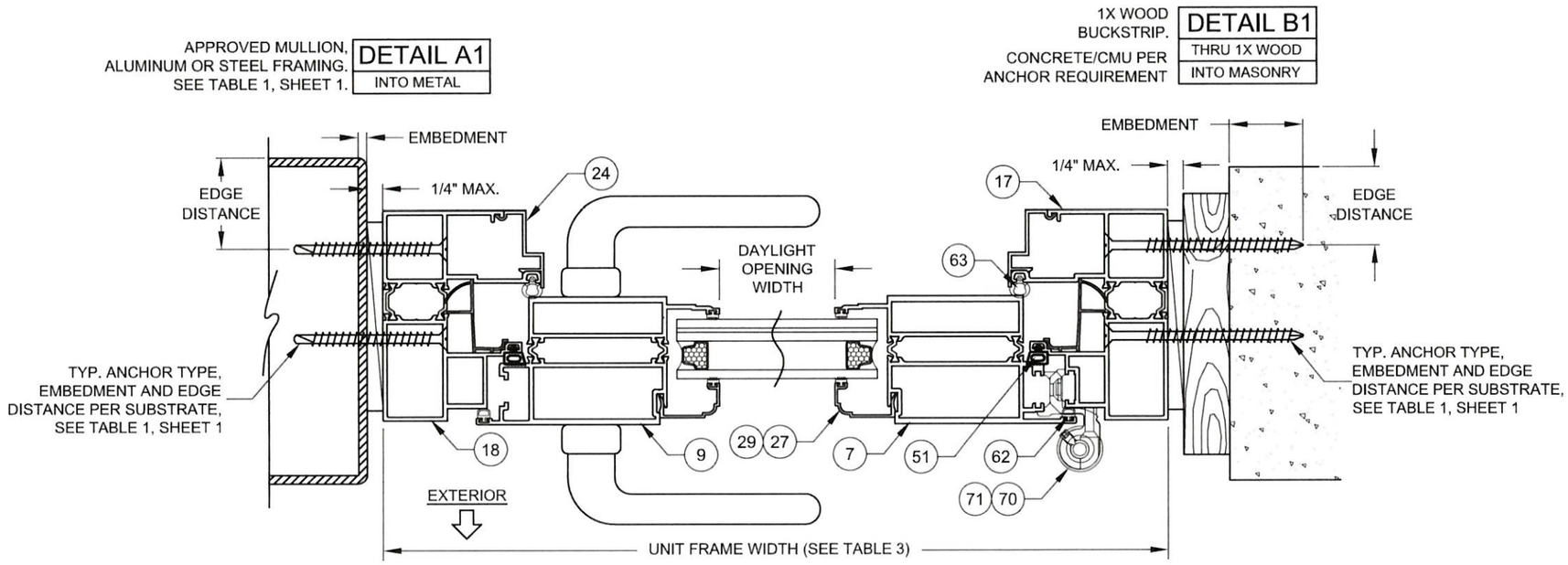
Series	Title	Sheet	DWG No.	Rev.
TD9050T	ALUM. OUTSWING TERRACE DOOR (LM)	5 OF 9	9050-OS-NOA-1	A

Desc.: JAMB ANCHOR QTY / EXAMPLES
Drawn By: JENS ROSOWSKI
Date: 01/05/19

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20

A. LYNN MILLER, P.E.
P.E.# 58705



NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

PRODUCT REVISED
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Title	Desc.	Series	Sheet	DWG No.	Drawn By	Date	Rev.
ALUM. OUTSWING TERRACE DOOR (LM)	OUTSWING HORIZ. X-SECTION	TD9050T	6 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20
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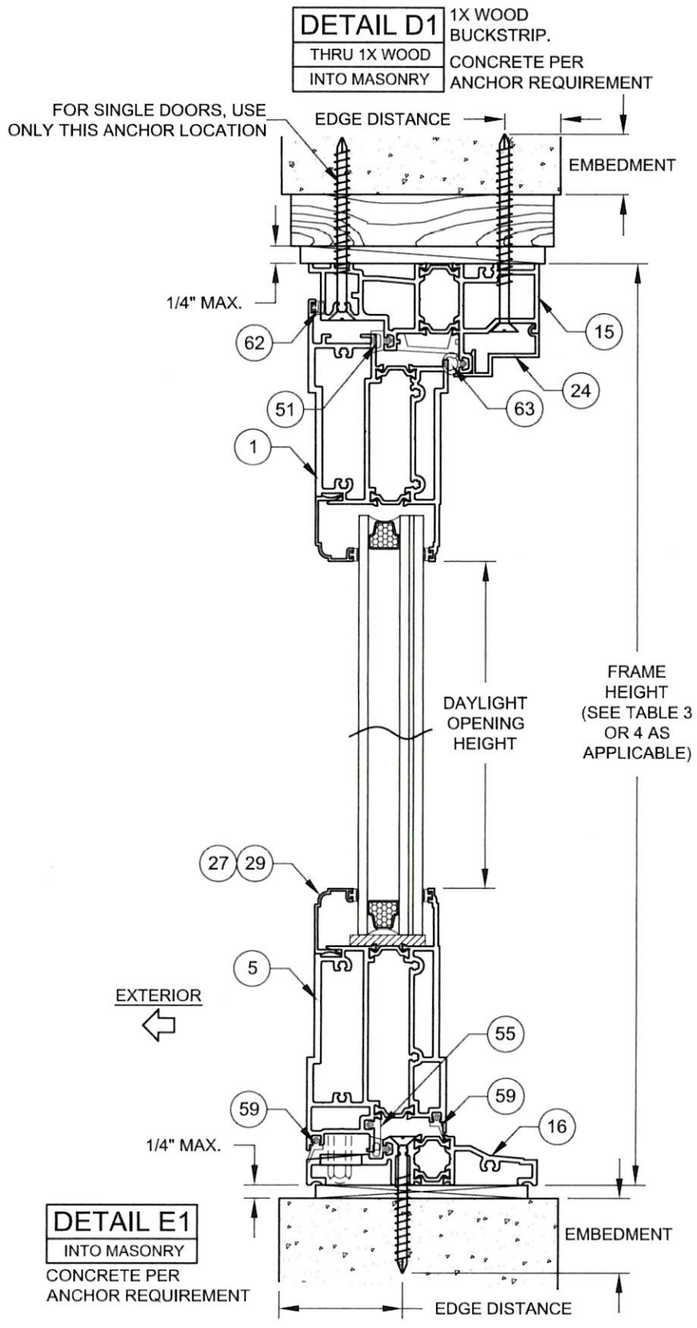
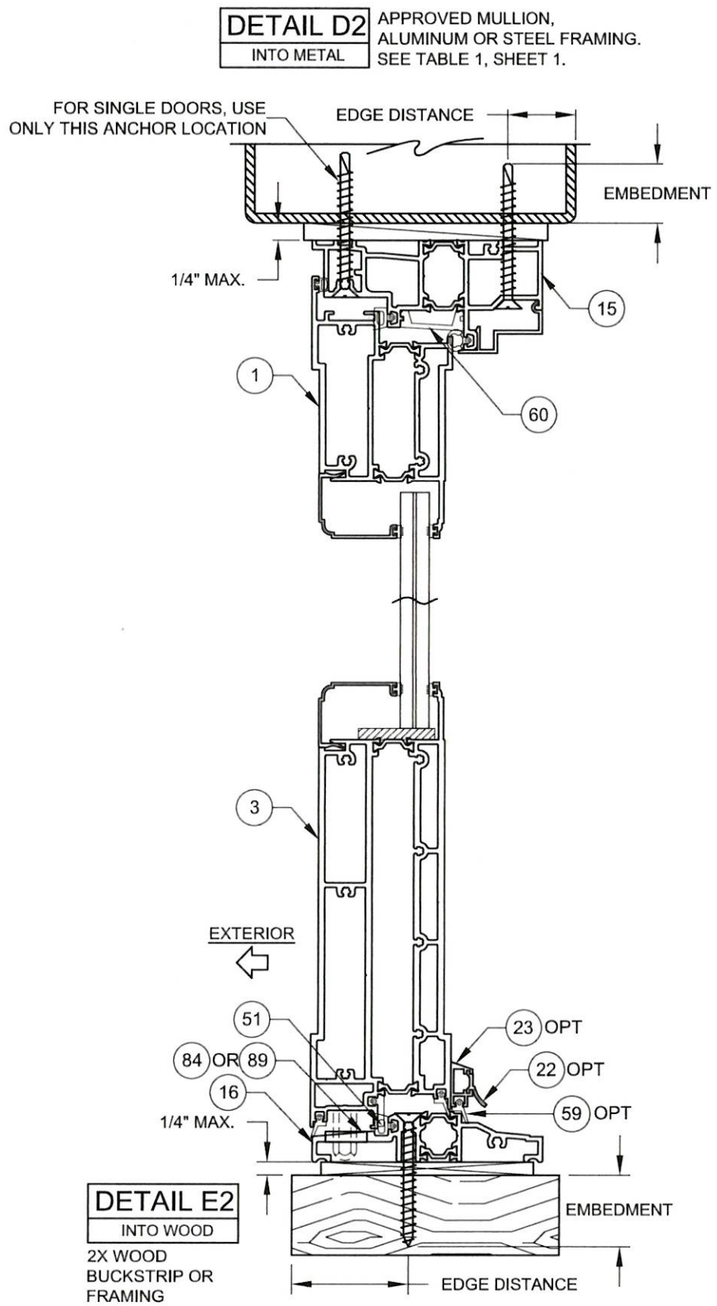
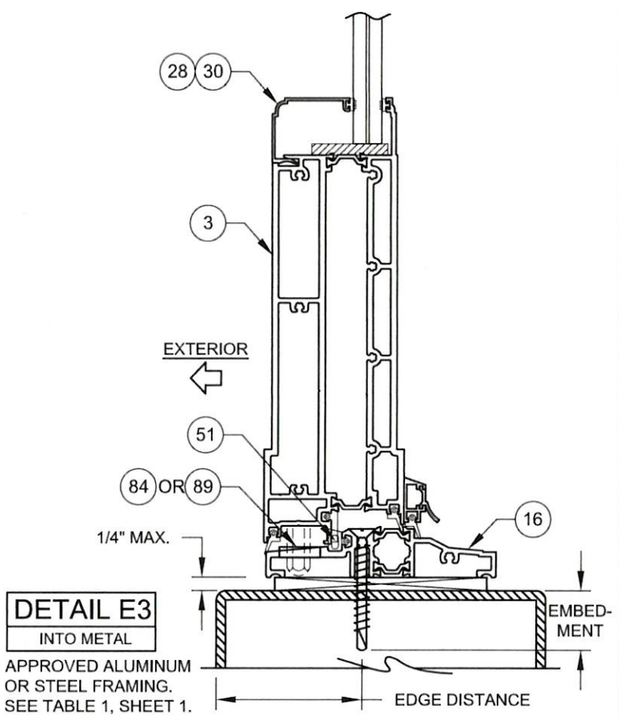


OUTSWING WITH STANDARD BOTTOM RAIL



OUTSWING WITH TALL BOTTOM RAIL



OUTSWING WITH TALL BOTTOM RAIL

NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

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By Ishaq I. Chanda
Miami–Dade Product Control

Revision:
NO CHANGES THIS SHEET.
EK 7/20/20

PREPARED BY A. LYNN MILLER
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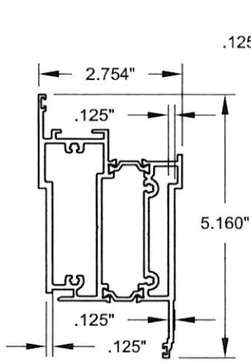
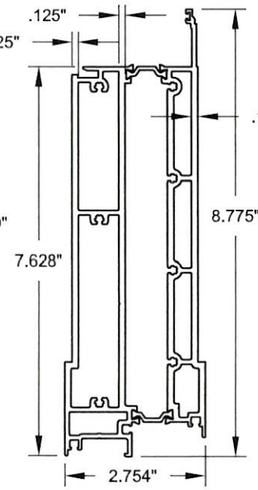
Title	Desc.	Series	Sheet	DWG No.	Drawn By	Date	Rev.
ALUM. OUTSWING TERRACE DOOR (LM)	OUTSWING VERT. X-SECTION	TD9050T	7 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

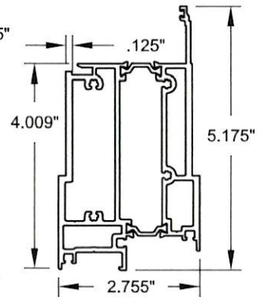
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20
A. LYNN MILLER, P.E.
P.E.# 58705



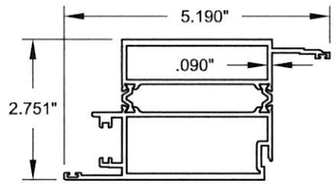
1 OUTSWING PANEL TOP RAIL (20 MM STRUTS)



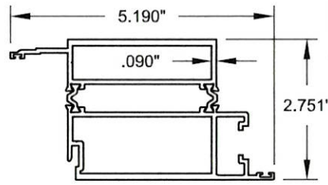
3 OUTSWING PANEL HIGH BOTTOM RAIL (20 MM STRUTS)



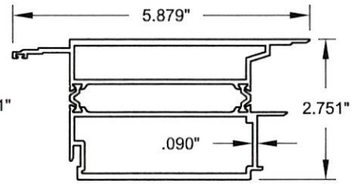
5 OUTSWING PANEL STANDARD BOTTOM RAIL (20 MM STRUTS)



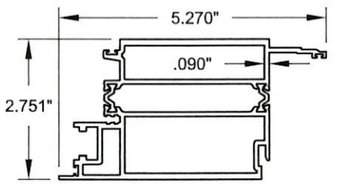
7 OUTSWING PANEL HINGE STILE (14 MM STRUTS)



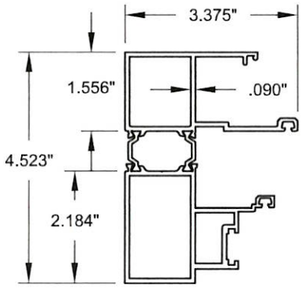
9 OUTSWING PANEL LOCK STILE (14 MM STRUTS)



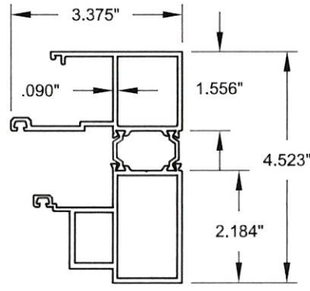
11 OUTSWING PANEL INACTIVE ASTRAGAL STILE (14 MM STRUTS)



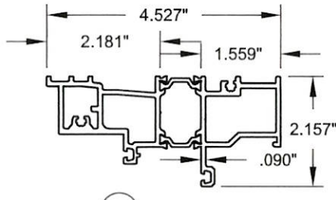
13 OUTSWING PANEL ACTIVE ASTRAGAL STILE (14 MM STRUTS)



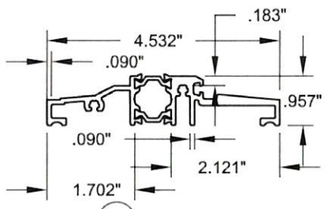
17 FRAME HINGE JAMB (20 MM STRUTS)



18 FRAME LOCK JAMB (20 MM STRUTS)



15 FRAME HEAD (20 MM STRUTS)

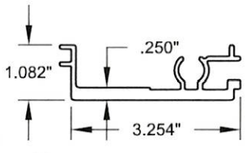


16 FRAME SILL (18 MM STRUTS)

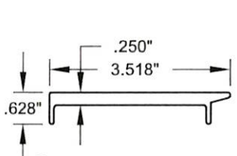
TABLE 9:

#	Part #	Description	Material
1	130905A36	Outswing Panel Top Rail	6063 -T6
3	130905A38	Outswing Panel High Bottom Rail	6063 -T6
5	130905A37	Outswing Panel Standard Bottom Rail	6063 -T6
7	130905A03	Outswing Panel Hinge Stile	6063 -T6
9	13010447	Outswing Panel Lock Stile	6063 -T6
11	130905A18	Outswing Panel Inactive Panel Stile	6063 -T6
13	130905A17	Outswing Panel Active Panel Stile	6063 -T6
15	130905A32	Frame Head	6063 -T6
16	130905A34	Frame Sill	6063 -T6
17	130905A21	Frame Hinge Jamb	6063 -T6
18	13010440	Frame Lock Jamb	6063 -T6
20	11006862	Outer Reinforcement	6063 -T6
21	11006863	Inner Reinforcement	6063 -T6
22	11060646	Drip Cap/Sweep	6063 -T6
23	11060647	Drip Cap/Sweep Base	6063 -T6
24	11046085	Jamb & Head Cover Plate	6063 -T6
26	11010287	False Astragal	6063 -T6
27	11052598	Square Beading, LIG	6063 -T6
28	11052596	Square Beading	6063 -T6
29	11046084	Ogee Beading, LIG	6063 -T6
30	11046082	Ogee Beading	6063 -T6

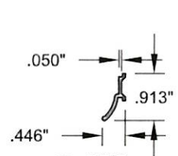
NOTE 1) THERMAL STRUT IS FIBERGLASS REINFORCED POLYAMIDE (TENSILE STRENGTH = 78 MPA), TESTED AS PART OF THE EXTRUSIONS SHOWN.



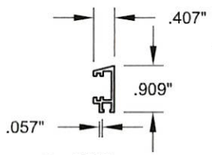
20 OUTER REINFORCEMENT



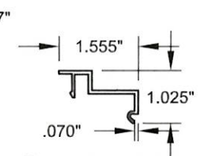
21 INNER REINFORCEMENT



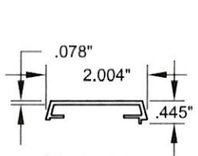
22 DRIP CAP



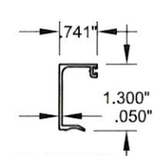
23 DRIP CAP BASE



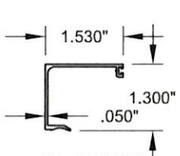
24 JAMB & HEAD COVER PLATE



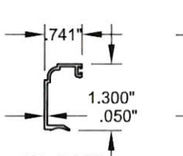
26 FALSE ASTRAGAL



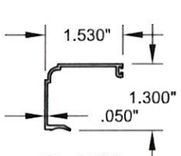
27 SQUARE BEADING, LIG



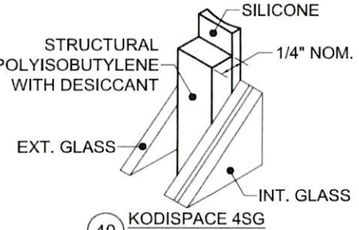
28 SQUARE BEADING



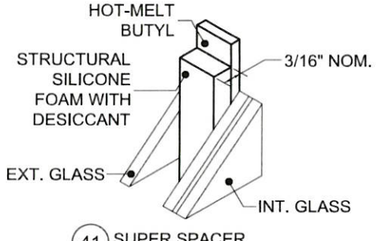
29 OGEE BEADING, LIG



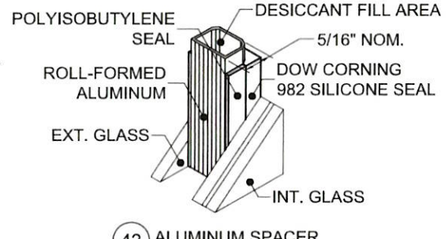
30 OGEE BEADING



40 KODISPACE 4SG TPS SPACER



41 SUPER SPACER



42 ALUMINUM SPACER

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0806.03
Expiration Date 05/30/2024
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: NO CHANGES THIS SHEET. EK 7/20/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

WINDOOR® INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Series	Desc.	Title	Sheet	DWG No.	Drawn By	Date	Rev.
TD9050T	EXTRUSIONS & BOM	ALUM. OUTSWING TERRACE DOOR (LM)	8 OF 9	9050-OS-NOA-1	JENS ROSOWSKI	01/05/19	A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/21/20

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 10:

#	Part #	Description	Material
40		Kommerling Kodispace 4SG TPS	See Sheet 8 for Materials
41		Quanex Super Spacer	
42		Ramapo Aluminum Spacer by NT	
43		Silicone	SIKA 552, DOW 791, DOW 983
51	W9050-BL-9100E	Sponge Seal, 905VP-22-SEAL	EPDM
52	121006/121007	Glazing Vinyl	EPDM, 80 Duro.
54	121001	Setting Block, 1/4" x 3/4" x 1"	Neoprene, 80 Duro.
55	15303	Filler Strip, TP-448	PVC, 92 Duro.
56	W9050-BL-54576	Active Stile Center Sponge	
57	W9050-BL-3911	Active Stile Outer Weatherstrip, Co-ex.	EPDM, 80 Duro.
58	W9050-BL-3912	Active Stile Inner Weatherstrip, Co-ex.	EPDM, 80 Duro.
59	17010491	Sill Rail Sweep, Black	Santoprene
60	W9050-BL-9102E	Strut Cover	
61	15005	Double-sided Astragal Tape	Adhesive Foam
62	15103	Panel Flange Bulb	EPDM, 80 Duro.
63	15187	Frame Long Leg Weatherstrip (OS)	EPDM, 80 Duro.
64	W9050-BL-3913	Frame Long Leg Weatherstrip (IS)	EPDM, 80 Duro.
65	10236	Jamb Anchor Cover	PVC, 92 Duro
66		#8 x 1" Ph SQ SMS (Panel Assembly)	SS
67	140008	#10 x 3/4" Ph FH SMS (Sill/Head Strike Plates)	SS
68		#10 x 3/4" Ph FH Tek SMS (Shoot Bolt Plate)	SS
69		#10 x 1-1/4" Ph SQ SMS (Frame Assembly)	SS

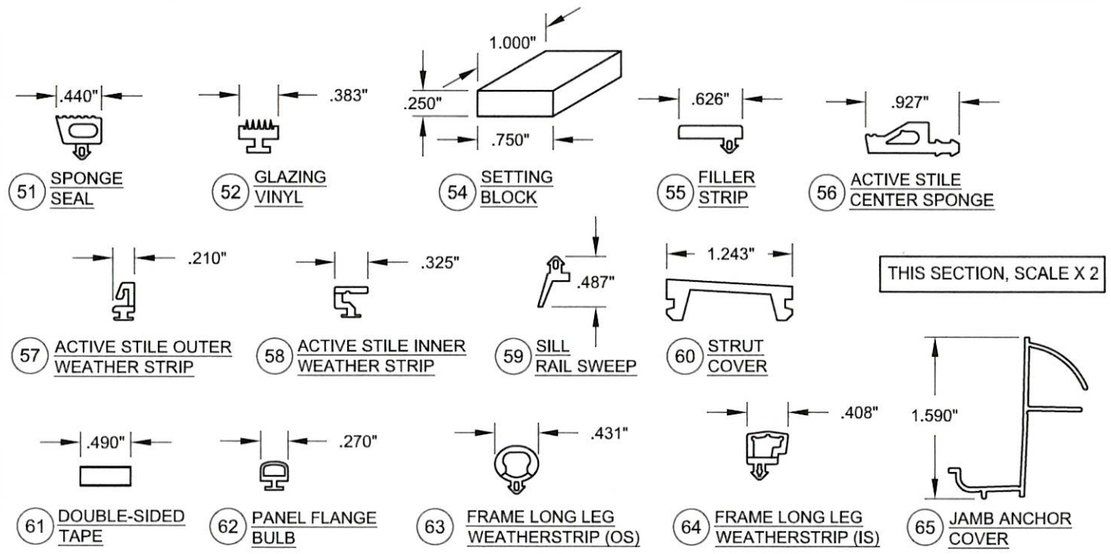
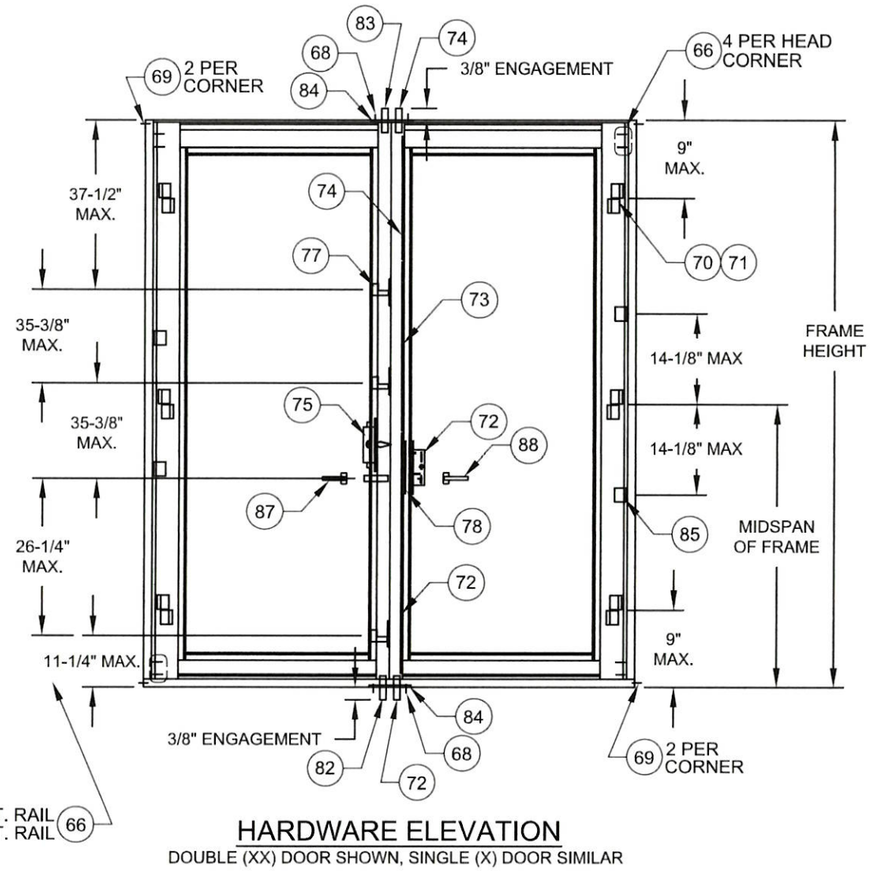


TABLE 11: HINGES AND LOCKING HARDWARE COMPONENTS AND SCHEDULE

#	Part #	Description	Manufacturer
70	H9050-XX-4637M	Flash XXL Door Hinge	Giesse
71	H9050-XX-0599M	Hinge Covers	Giesse
72	H9050-GEAR-1728	Bottom Extension with Gear, Lock, Lower Swing Hook & Shoot Bolt (3/8" Engagement into Head & Sill)	Hoppe
73	3622833	Middle Extension with 2 Swing Hooks	Hoppe
74	8778627	Top Extension with Shoot Bolt	Hoppe
75	H9050-FB-2267	Mortise Flushbolt, Inactive Panel	Hoppe
77	H9050-SH-2884	Hook Latch Strike Plate, SS	Seljan
78	H9050-LH-2902 H9050-RH-2905	LH/RH Latch & Deadbolt Strike Plate, SS	Seljan
79	H9050-RP-2913	Shoot Bolt reinforcing Plate, SS	Seljan
80	H9050-SPADA-3921	Shoot Bolt reinforcing Shim	Seljan
81	1900908	10mm Standard Rod Guides	Hoppe
82	8759551	10mm Lower Flush Bolt Rod	Hoppe
83	8786867	10mm Upper Flush Bolt Rod	Hoppe
84	H9050-SP-2948D	Twin Shoot Bolt Head & Sill Strike Plate, SS	Seljan
85	H9050-XX1445M	Snubber Driver	Advantage
86	905VP-20	Ramp Block	
87	Varies	False Handle & Trim Set	Varies
88	Varies	Handle & Trim Set with Lock Cylinder & Thumb Turn	Hoppe/Giesse
89	H9050-SP-275	Single Shoot Bolt Head & Sill Strike Plate, SS	Seljan



HARDWARE ELEVATION

DOUBLE (XX) DOOR SHOWN, SINGLE (X) DOOR SIMILAR

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0806.03
Expiration Date 05/30/2024
By Ishaq I. Chanda
Miami–Dade Product Control

Revision: ADDED DOW 791 AND DOW 983 TO BOM. EK 7/20/20

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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REGISTRATION #29296

WINDOOR® INCORPORATED
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104 TRIPLE DIAMOND BLVD.
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Rev.	Date	Drawn By	DWG No.	Sheet	Series
A	01/05/19	JENS ROSOWSKI	9050-OS-NOA-1	9 OF 9	TD9050T

Title: ALUM. OUTSWING TERRACE DOOR (LM)
Desc.: MISC. PARTS & BOM

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/24/20
A. LYNN MILLER, P.E.
P.E.# 58705