FLORIDA PRODUCT APPROVAL #29783

DESIGN PRESSURE RATING	IMPACT RATING
SEE SHEET 2	NOT RATED FOR MISSILE IMPACT RESISTANCE

SERIES 9050, NON-IMPACT, ALUMINUM, OUTSWING & INSWING TERRACE DOOR

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

2) SHUTTERS ARE REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.

3) 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) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, THIS SHEET. 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 GROUT IS 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.

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 TO BE USED ON ALL FOUR CORNERS OF THE FRAME. 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 TEST PRESSURE AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

9) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE FBC, AS APPLICABLE.

10) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED AND SECURED 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 FOR CORROSION RESISTANCE.

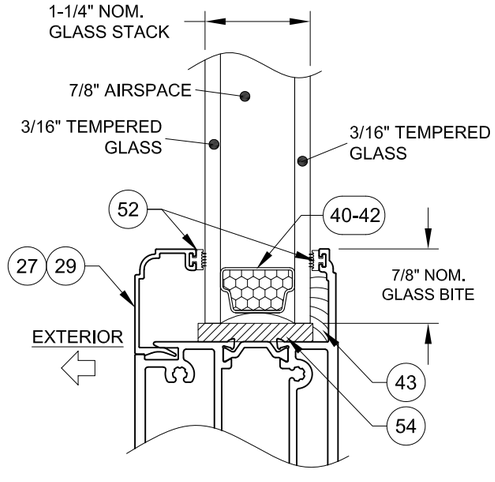
11) REFERENCES: TEST REPORTS: NCTL-210-4060-01, NCTL-210-4060-02, FTL-18-8171

12) AS PER TAS 202-94, WATER INFILTRATION TEST PRESSURE IS 15% OF THE POSITIVE DESIGN PRESSURE OF THE SPECIFIED DOOR.

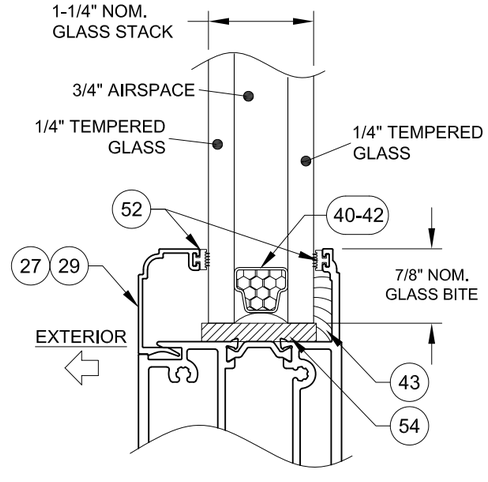
TABLE 1:

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" 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" 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.



GLAZING DETAIL A



GLAZING DETAIL B

TABLE OF CONTENTS:

GENERAL NOTES.....1
ELEVATION, DP 2
CLUSTER QTY & DETAILS.....3
HORIZ. INSTAL., INSWING.....4
HORIZ. INSTAL., OUTSWING.....5
VERT. INSTAL., INSWING.....6
VERT. INSTAL., OUTSWING.....7
EXTRUSIONS.....8
PARTS/HARDWARE LIST.....9

INSTRUCTIONS:

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

2) FROM SHEET 2, DETERMINE THE DESIGN PRESSURE OF YOUR PRODUCT. THIS DESIGN PRESSURE NEEDS TO BE HIGHER THAN THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.

3) DETERMINE YOUR ANCHOR GROUP FROM TABLE 1, THIS SHEET.

4) ANCHOR LOCATIONS AND SPACING ARE SHOWN ON THE ELEVATIONS ON SHEET 2.

5) DEPENDING ON THE PRODUCT CONFIGURATION, SHEETS 4-7 SHOW INSTALLATION CROSS-SECTION DETAILS.

Rev. #	Date	Rev.
C	04/24/25	ADDED NOTE 12, THIS SHEET - JR

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

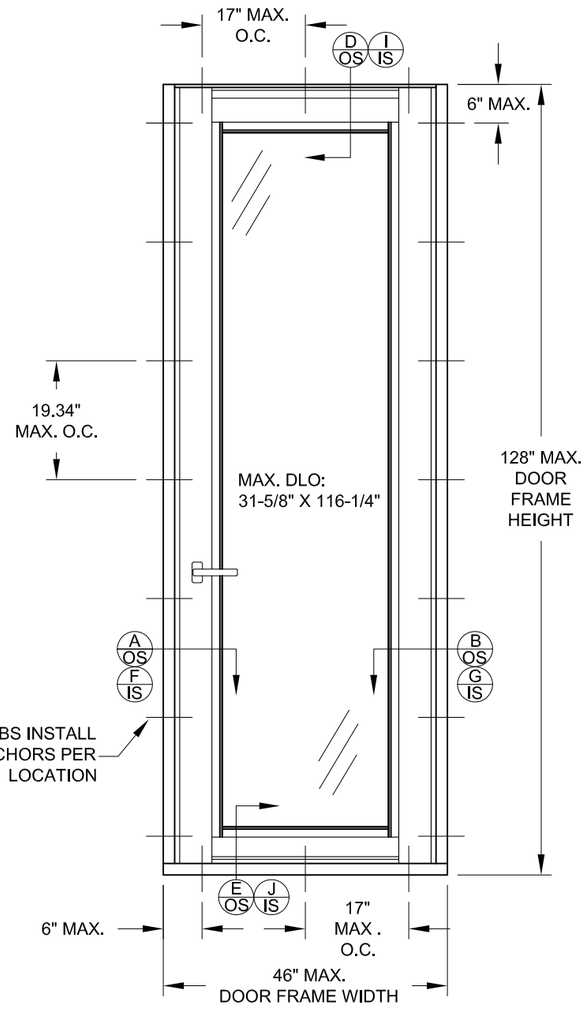
WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

Date	Drawn By	DWG No.	Sheet	Title	Desc.	Series
02/07/23	A. MORLESIN	TD9050NI-FPA	1 OF 9	ALUMINUM IS & OS TERRACE DOOR (NI)	GEN. NOTES & ANCHOR TABLE	TD9050

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/24/25

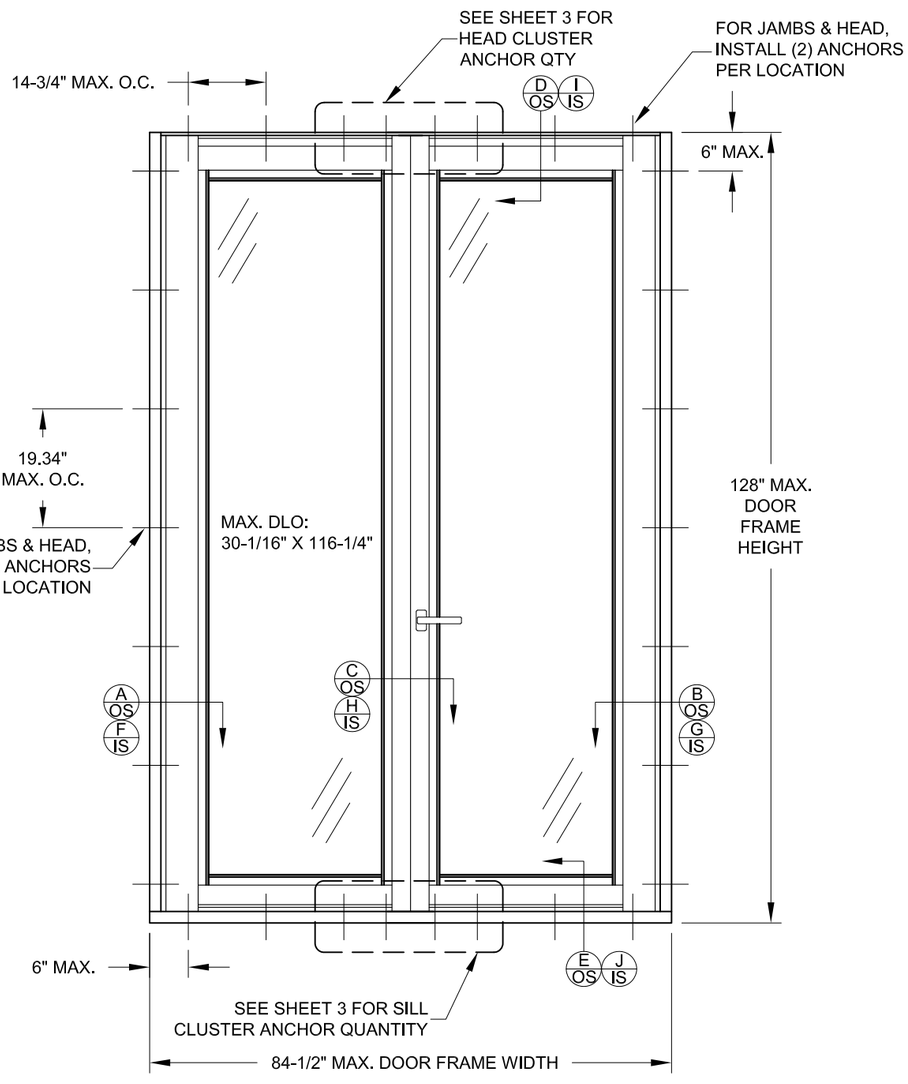
A. LYNN MILLER, P.E.
P.E.# 58705



TYP. ELEVATION OF SINGLE DOOR, (X)
INSWING & OUTSWING

FOR X DOORS:

DESIGN PRESSURE RATING
+100.0 / -120.0 PSF



TYP. ELEVATION OF DOUBLE DOOR, (XX)
INSWING & OUTSWING

FOR XX DOORS:

DESIGN PRESSURE RATING
+55.0 / -80.0 PSF

X OS — DETAIL LETTER
OUTSWING, SEE SHEETS 5 & 7

X IS — DETAIL LETTER
INSWING, SEE SHEETS 4 & 6

Rev. C
Date 04/24/25
NO CHANGES THIS SHEET
Rev.

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

Date	Drawn By	DWG No.	Sheet
02/07/23	A. MORLESIN	TD9050NI-FPA	2 OF 9

Series: TD9050 — Desc.: X ELEVATION & DP — Title: ALUMINUM IS & OS TERRACE DOOR (NI)

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
04/24/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

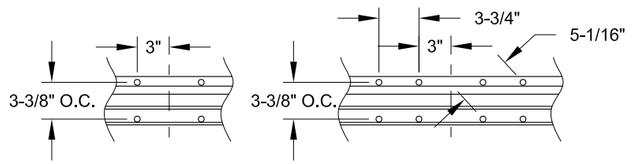
TABLE 2:

Min. Quantity of Anchors Required at the Cluster

Frame Height	Frame Location	Anchor Group	Frame Width 54"	60"	66"	72"	76-1/2"	85"
72"	Head	A	4	4	4	4	4	4
	Sill		2	3	3	3	3	3
	Head	B	4	4	4	4	4	6
	Sill		3	3	3	3	3	4
	Head	C	4	4	4	4	4	4
	Sill		2	3	3	3	3	3
	Head	D	4	4	4	4	4	4
	Sill		3	3	3	3	4	4
80"	Head	A	4	4	4	4	4	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
84"	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	4	4	4	4
96"	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	4	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
108"	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	6
120"	Head	A	6	6	6	6	6	8
	Sill		4	4	4	5	5	5
	Head	B	6	6	6	8	8	8
	Sill		4	4	5	5	5	6
	Head	C	4	6	6	6	6	8
	Sill		4	4	4	5	5	5
	Head	D	4	6	6	6	6	6
	Sill		4	5	5	5	6	6
128"	Head	A	6	6	6	6	8	8
	Sill		4	4	5	5	5	6
	Head	B	6	6	6	8	8	8
	Sill		4	5	5	5	6	6
	Head	C	6	6	6	6	6	8
	Sill		4	4	5	5	5	6
	Head	D	4	6	6	6	6	8
	Sill		4	5	5	6	6	7

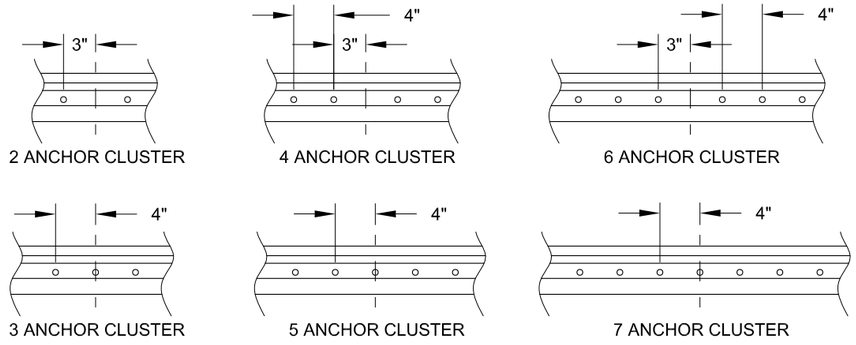
NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

ANCHOR CLUSTER PATTERN @ HEAD



PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS.

ANCHOR CLUSTER PATTERN @ SILL



PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS.

Rev.	Date	Rev.#
NO CHANGES THIS SHEET	04/24/25	C

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

REGISTRATION #29296
COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

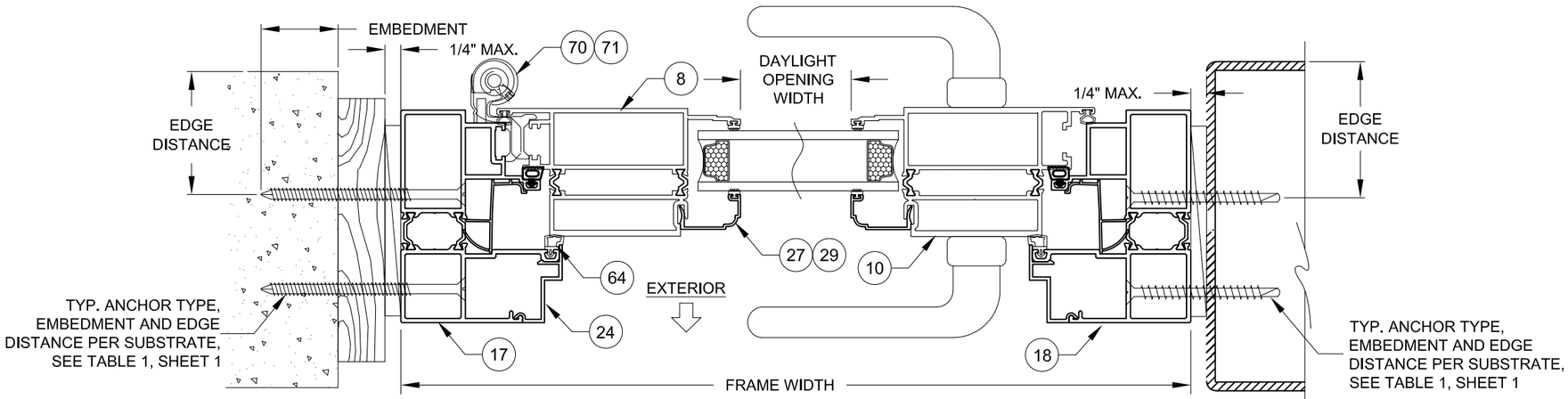
Date	Drawn By	DWG No.	Sheet	Series	Desc.	Title
02/07/23	A. MORLESIN	TD9050NI-FPA	3 OF 9	TD9050	XX ELEVATION & DP	ALUMINUM IS & OS TERRACE DOOR (NI)

WINDOOR
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/24/25
A. LYNN MILLER, P.E.
P.E.# 58705

DETAIL F1 — THRU 1X WOOD / INTO MASONRY: 1X WOOD BUCKSTRIP. CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL G1 — INTO METAL: APPROVED MULLION, ALUMINUM OR STEEL FRAMING. SEE TABLE 1, SHEET 1.

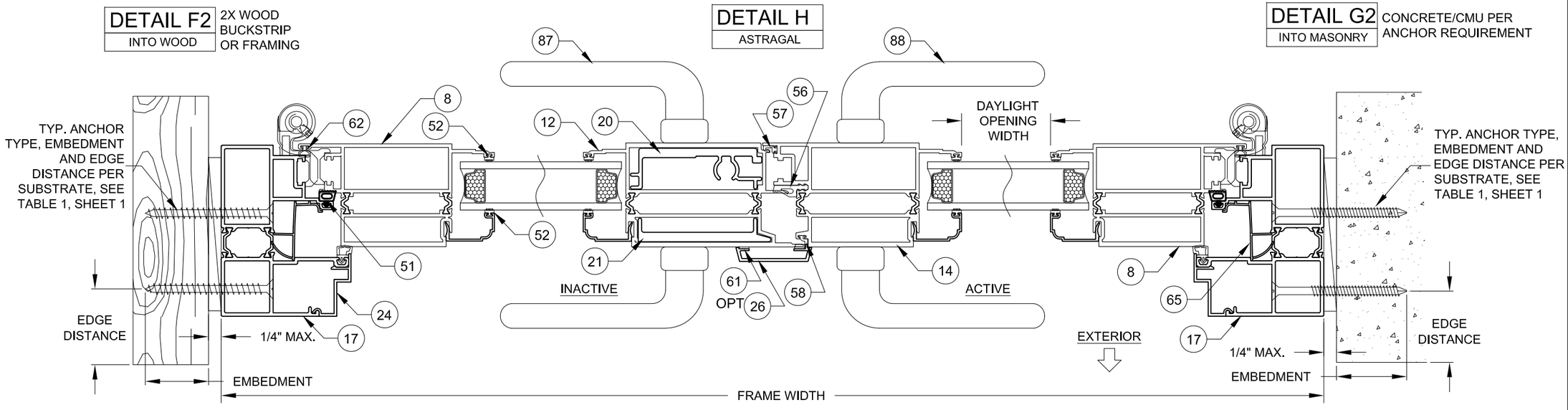


INSWING SINGLE DOOR

DETAIL F2 — INTO WOOD: 2X WOOD BUCKSTRIP OR FRAMING

DETAIL H — ASTRAGAL

DETAIL G2 — INTO MASONRY: CONCRETE/CMU PER ANCHOR REQUIREMENT



INSWING DOUBLE DOOR

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.

Rev.#	Date	NO CHANGES THIS SHEET
C	04/24/25	

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

Series	Title	Desc.	Sheet	DWG No.	Drawn By	Date
	ALUMINUM IS & OS TERRACE DOOR (NI)	JAMB ANCHOR QTY. / EXAMPLES	TD9050	4 OF 9	A. MORLESIN	02/07/23

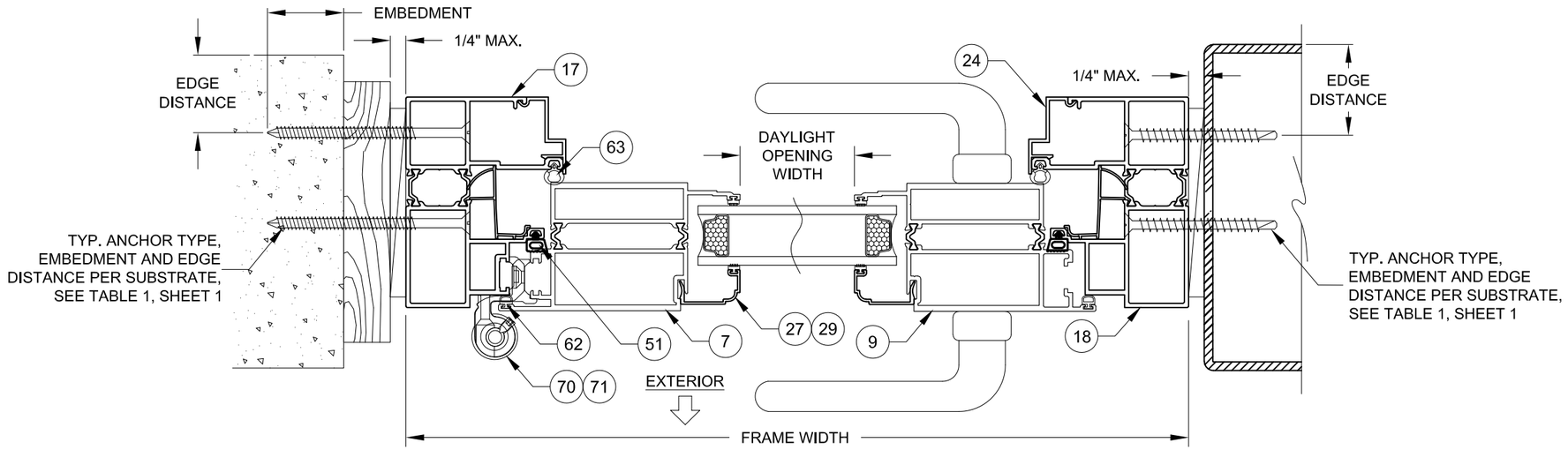
TD9050NI-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
04/24/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

DETAIL A1 — THRU 1X WOOD / INTO MASONRY
1X WOOD BUCKSTRIP.
CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL B1 — INTO METAL
APPROVED MULLION, ALUMINUM OR STEEL FRAMING. SEE TABLE 1, SHEET 1.

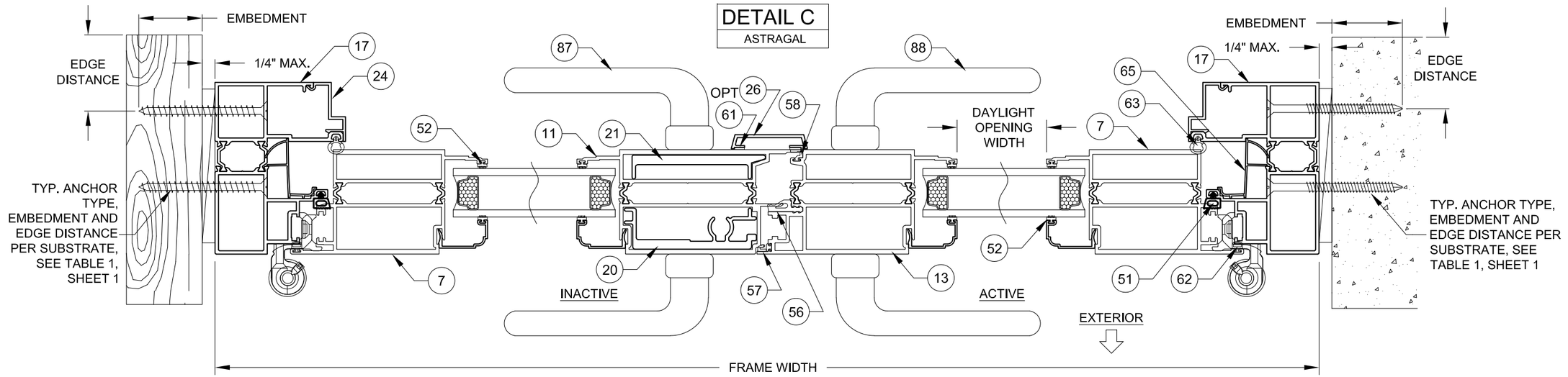


OUTSWING SINGLE DOOR

DETAIL A2 — INTO WOOD
2X WOOD BUCKSTRIP OR FRAMING

DETAIL B2 — INTO MASONRY
CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL C — ASTRAGAL



OUTSWING DOUBLE DOOR

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.

Rev.#	Date	Rev.
C	04/24/25	NO CHANGES THIS SHEET

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

COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

Date	Drawn By	DWG No.	Sheet	Series
02/07/23	A. MORLESIN	TD9050NI-FPA	5 OF 9	TD9050

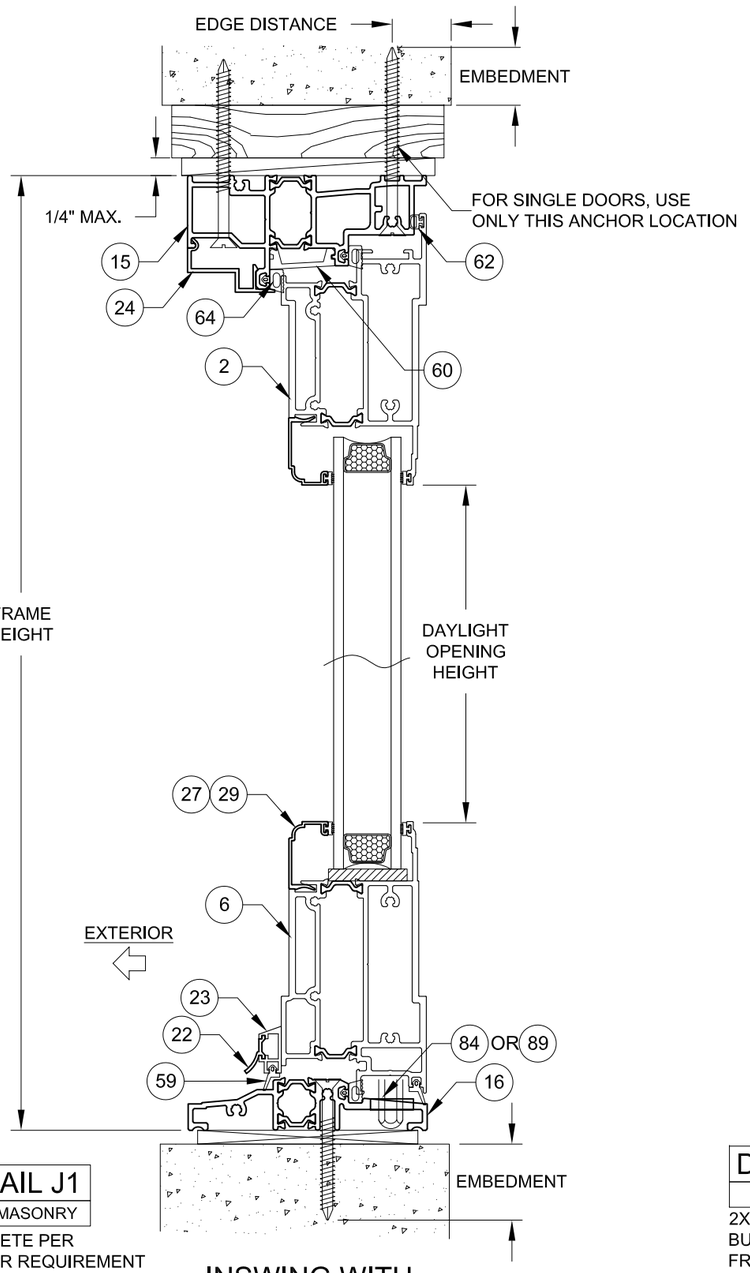
Title	Desc.
ALUMINUM IS & 0S TERRACE DOOR (NI)	ANCHOR QUANTITY

WINDOOR
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
04/24/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

DETAIL I1
THRU 1X WOOD
INTO MASONRY

1X WOOD BUCKSTRIP.
CONCRETE PER ANCHOR REQUIREMENT



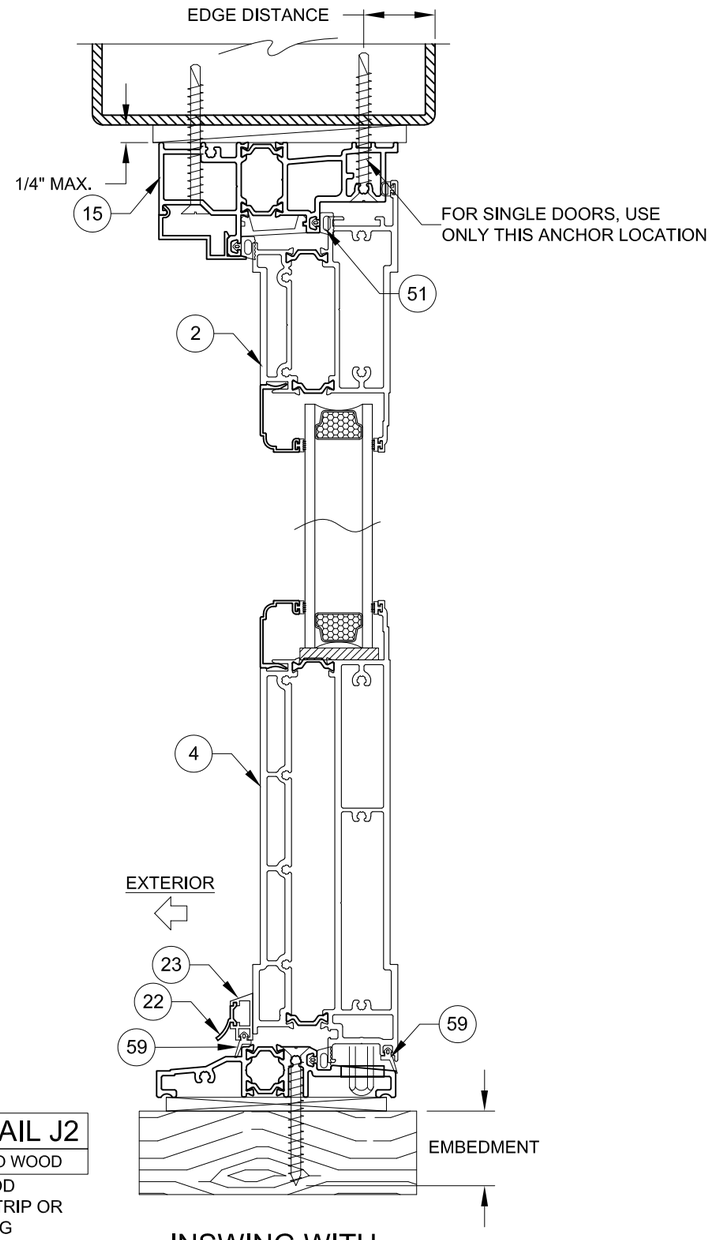
DETAIL J1
INTO MASONRY

CONCRETE PER ANCHOR REQUIREMENT

INSWING WITH STANDARD BOTTOM RAIL

DETAIL I2
INTO METAL

APPROVED MULLION, ALUMINUM OR STEEL FRAMING. SEE TABLE 1, SHEET 1.



DETAIL J2
INTO WOOD

2X WOOD BUCKSTRIP OR FRAMING

INSWING 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.

Rev.#	Date	
C	04/24/25	NO CHANGES THIS SHEET

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

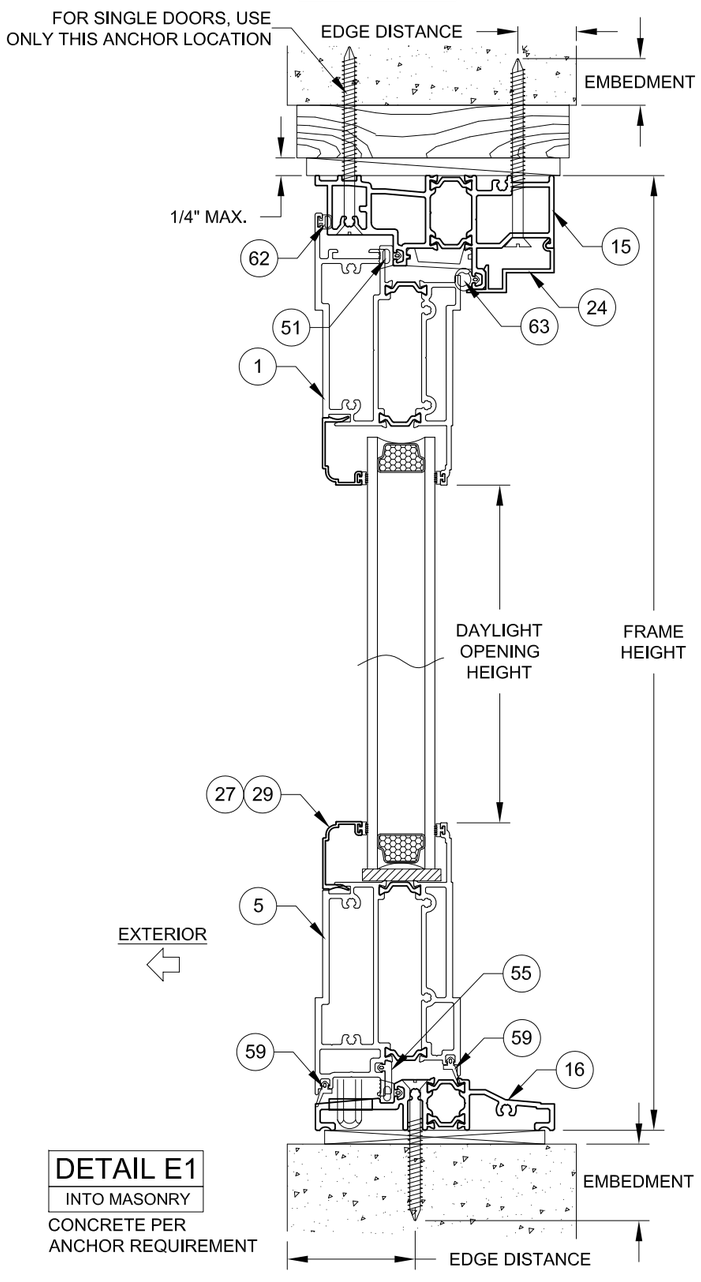
Title	Date	Drawn By	DWG No.	Sheet
ALUMINUM IS & OS TERRACE DOOR (NI)	02/07/23	A. MORLESIN	TD9050NI-FPA	6 OF 9
Desc.		JAMB ANCHOR QTY. / EXAMPLES		
Series		TD9050		

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/24/25

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

DETAIL D1
THRU 1X WOOD
INTO MASONRY

1X WOOD BUCKSTRIP.
CONCRETE PER ANCHOR REQUIREMENT

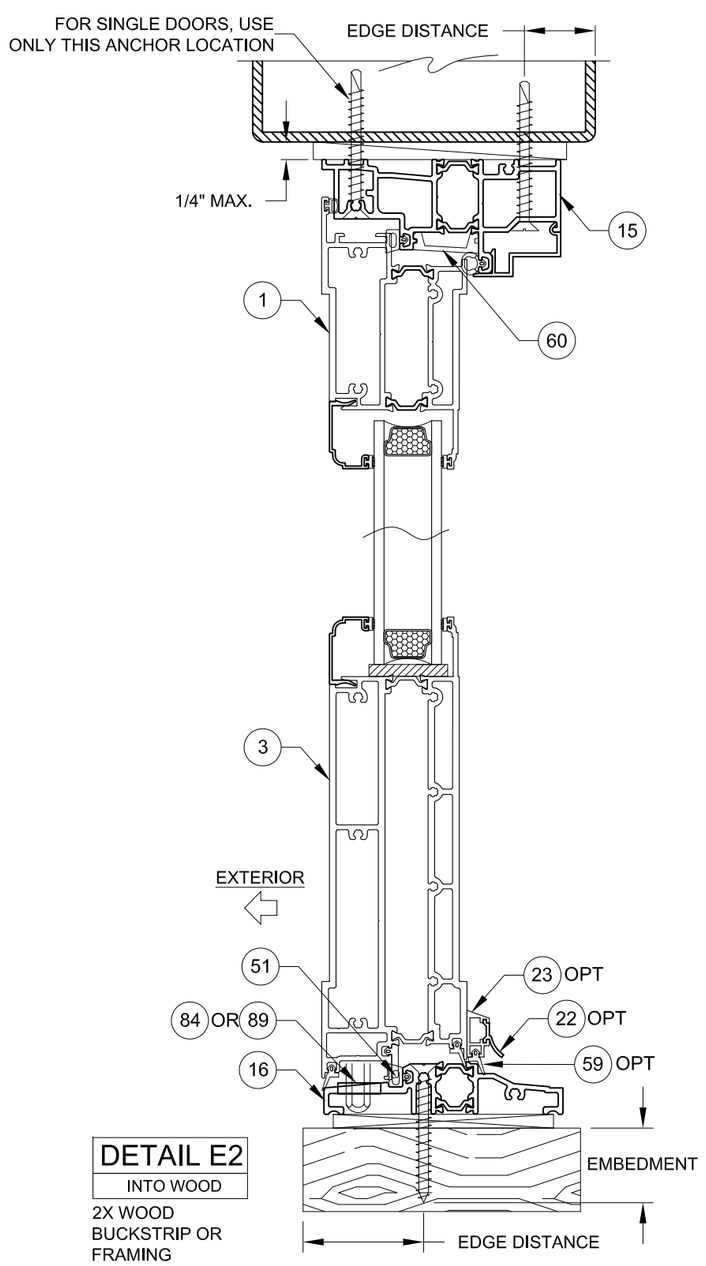


DETAIL E1
INTO MASONRY
CONCRETE PER ANCHOR REQUIREMENT

OUTSWING WITH STANDARD BOTTOM RAIL

DETAIL D2
INTO METAL

APPROVED MULLION, ALUMINUM OR STEEL FRAMING. SEE TABLE 1, SHEET 1.



DETAIL E2
INTO WOOD
2X WOOD BUCKSTRIP OR FRAMING

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.

Rev.#	Date	
C	04/24/25	NO CHANGES THIS SHEET

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

REGISTRATION #29296
COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

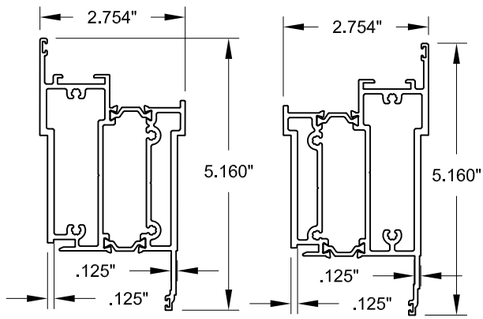
Title	Date	Drawn By	DWG No.	Sheet	Series
ALUMINUM IS & OS TERRACE DOOR (NI)	02/07/23	A. MORLESIN	TD9050NI-FPA	7 OF 9	TD9050
JAMB ANCHOR QTY. / EXAMPLES					

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/24/25

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

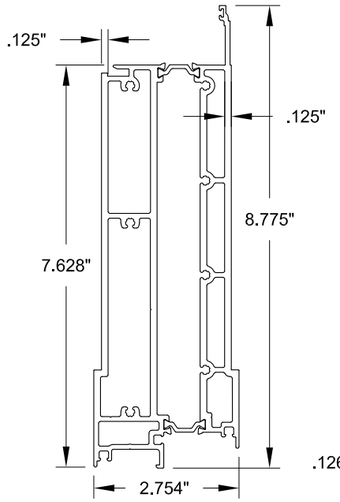
TABLE 3:

#	Part #	Description	Material
1	130905A36	Outswing Panel Top Rail	6063 -T6
2	130905A26	Inswing Panel Top Rail	6063 -T6
3	130905A38	Outswing Panel High Bottom Rail	6063 -T6
4	130905A28	Inswing Panel High Bottom Rail	6063 -T6
5	130905A37	Outswing Panel Standard Bottom Rail	6063 -T6
6	130905A27	Inswing Panel Standard Bottom Rail	6063 -T6
7	130905A03	Outswing Panel Hinge Stile	6063 -T6
8	130905A04	Inswing Panel Hinge Stile	6063 -T6
9	13010447	Outswing Panel Lock Stile	6063 -T6
10	13010450	Inswing Panel Lock Stile	6063 -T6
11	130905A18	Outswing Panel Inactive Panel Stile	6063 -T6
12	130905A20	Inswing Panel Inactive Panel Stile	6063 -T6
13	130905A17	Outswing Panel Active Panel Stile	6063 -T6
14	130905A19	Inswing Panel Active Panel Stile	6063 -T6
15	130905A32	Inswing/Outswing Frame Head	6063 -T6
16	130905A34	Inswing/Outswing Frame Sill	6063 -T6
17	130905A21	Inswing/Outswing Frame Hinge Jamb	6063 -T6
18	13010440	Inswing/Outswing 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
29	11046084	Ogee Beading, LIG	6063 -T6

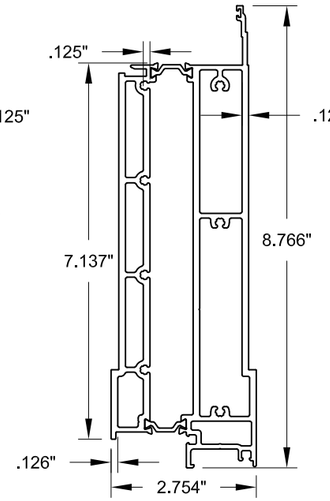


1 OUTSWING PANEL TOP RAIL (20 MM STRUTS)

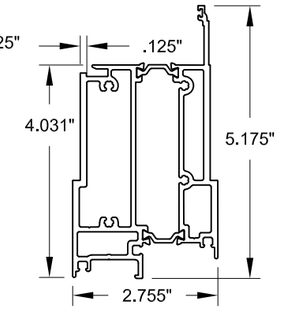
2 INSWING PANEL TOP RAIL (20 MM STRUTS)



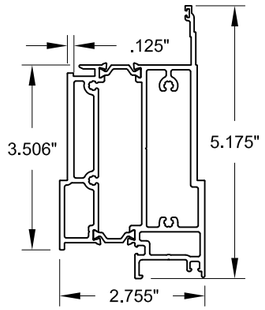
3 OUTSWING PANEL HIGH BOTTOM RAIL (20 MM STRUTS)



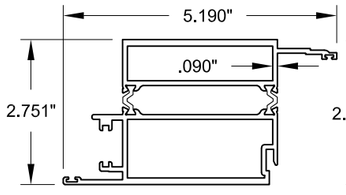
4 INSWING PANEL HIGH BOTTOM RAIL (20 MM STRUTS)



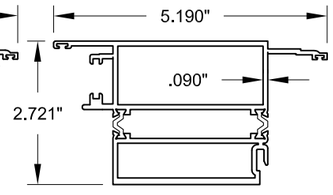
5 OUTSWING PANEL STANDARD BOTTOM RAIL (20 MM STRUTS)



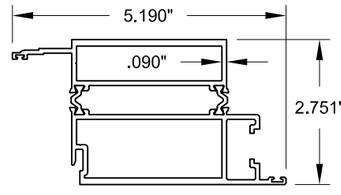
6 INSWING PANEL STANDARD BOTTOM RAIL (20 MM STRUTS)



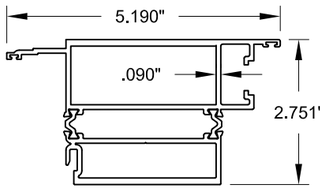
7 OUTSWING PANEL HINGE STILE (14 MM STRUTS)



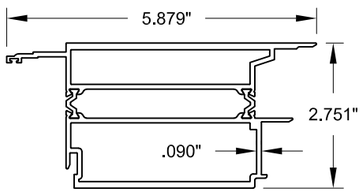
8 INSWING PANEL HINGE STILE (14 MM STRUTS)



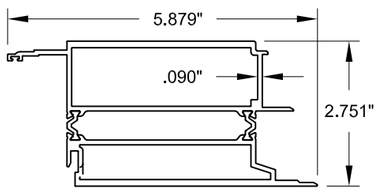
9 OUTSWING PANEL LOCK STILE (14 MM STRUTS)



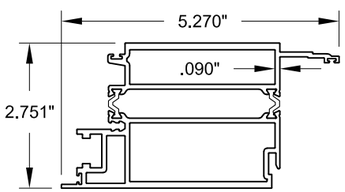
10 INSWING PANEL LOCK STILE (14 MM STRUTS)



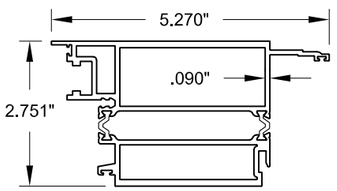
11 OUTSWING PANEL INACTIVE ASTRAGAL STILE (14 MM STRUTS)



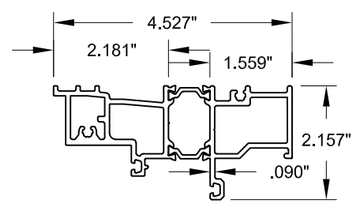
12 INSWING PANEL INACTIVE ASTRAGAL STILE (14 MM STRUTS)



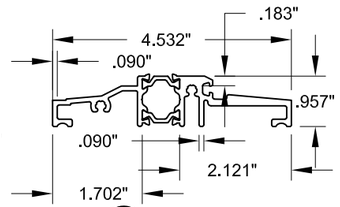
13 OUTSWING PANEL ACTIVE ASTRAGAL STILE (14 MM STRUTS)



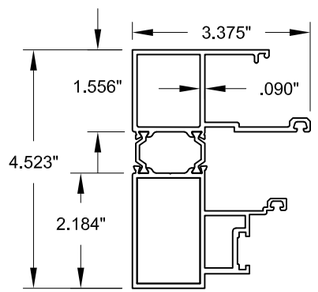
14 INSWING PANEL ACTIVE ASTRAGAL STILE (14 MM STRUTS)



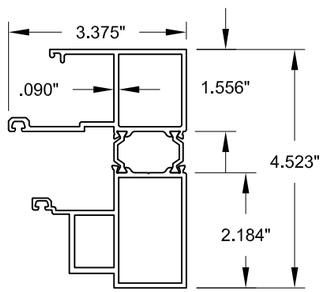
15 FRAME HEAD (20 MM STRUTS)



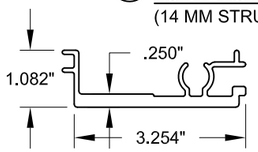
16 FRAME SILL (18 MM STRUTS)



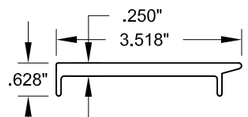
17 FRAME HINGE JAMB (20 MM STRUTS)



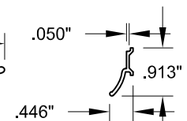
18 FRAME LOCK JAMB (20 MM STRUTS)



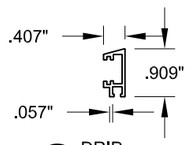
20 OUTER REINFORCEMENT



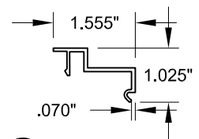
21 INNER REINFORCEMENT



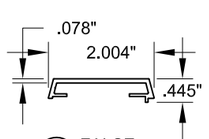
22 DRIP CAP



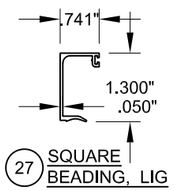
23 DRIP CAP BASE



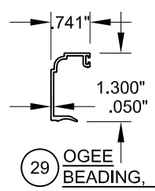
24 JAMB & HEAD COVER PLATE



26 FALSE ASTRAGAL



27 SQUARE BEADING, LIG



29 OGEE BEADING, LIG

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

Rev.#	Date	
C	04/24/25	NO CHANGES THIS SHEET

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

Date	Drawn By	DWG No.	Sheet	Series
02/07/23	A. MORLESIN	TD9050NI-FPA	8 OF 9	TD9050

Title: ALUMINUM IS & 0S TERRACE DOOR (NI)
Desc.: EXTRUSION & BOM

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
04/24/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 4:

#	Part #	Description
40		Kommerling Kodispace 4SG TPS
41		Quanex Super Spacer nXT with Hot Melt Butyl
42		Metal IG Spacer
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", Neopprene, 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

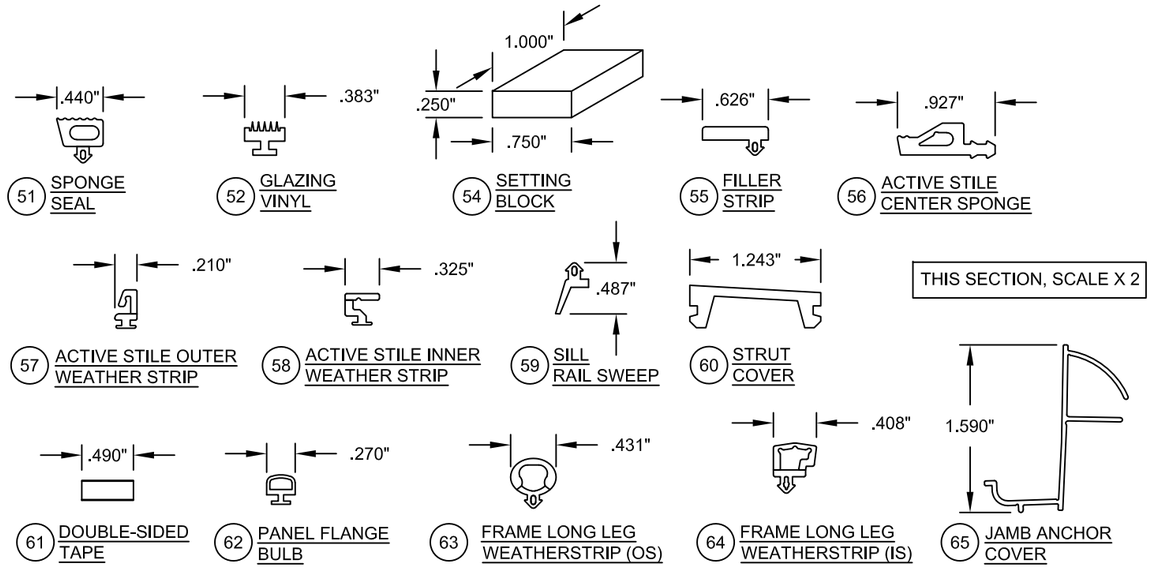
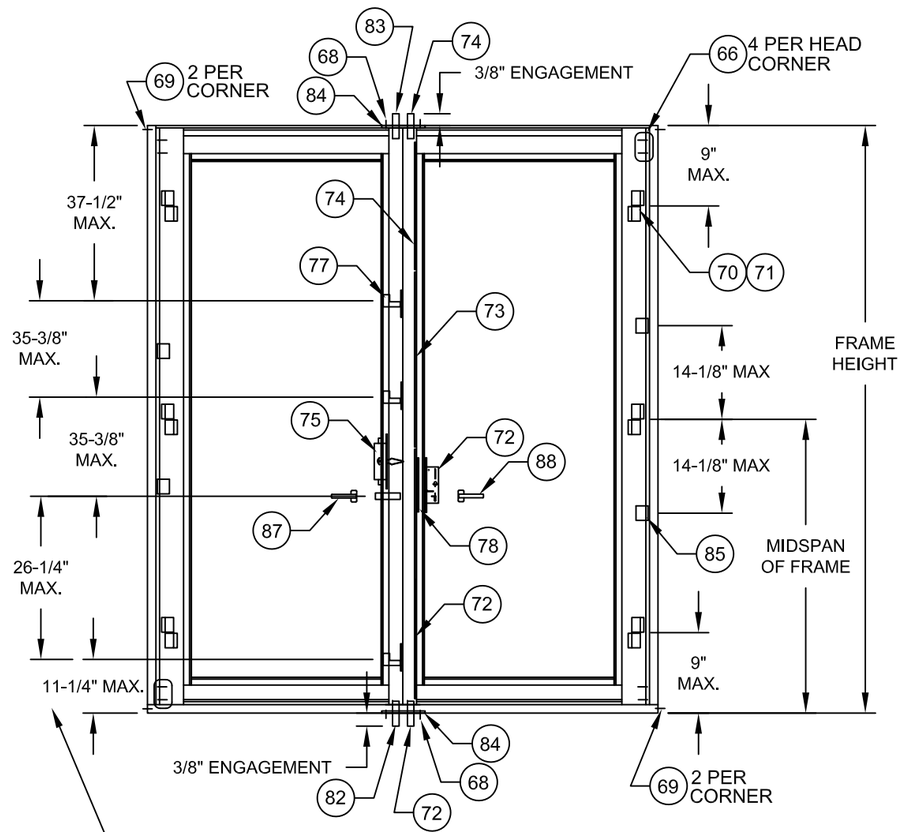


TABLE 5: HINGES AND LOCKING HARDWARE COMPONENTS AND SCHEDULE

#	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

Rev. C
Rev.# 04/24/25
Date
NO CHANGES THIS SHEET

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

REGISTRATION #29296

COPYRIGHT © 2025 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR

104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

Date	Drawn By	DWG No.	Sheet	Desc.	Series
02/07/23	A. MORLESIN	TD9050NI-FPA	9 OF 9	MSC. PARTS & BOM	TD9050

Title: ALUMINUM IS & OS TERRACE DOOR (NI)

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/24/25

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