

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. SEE FL29670.
- 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 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 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

DESIGN PRESSURE RATING	IMPACT RATING
SEE SHEET 2	NOT RATED FOR 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)	All	Southern Pine (SG = 0.55)	9/16"	1-3/8"
			6063-T5 Aluminum	3/8"	0.090"
			A36 Steel	3/8"	0.063"
			Steel Stud, Gr. 34	3/8"	0.045"
B	#14 18-8 Stainless Steel SMS	All	Southern Pine (SG = 0.55)	9/16"	1-3/8"
			6063-T5 Aluminum	3/8"	0.090"
			A36 Steel	3/8"	0.063"
			Steel Stud, Gr. 35	3/8"	0.045"
C	1/4" Elco UltraCon®	Jamb & Head	Concrete (min. 2.85 ksi)	1"	1-3/4"
		Sill	Concrete (min. 2.85 ksi)	1"	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®	All	Concrete (min. 3.35 ksi)	2-1/2"	1-1/4"
		All	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.

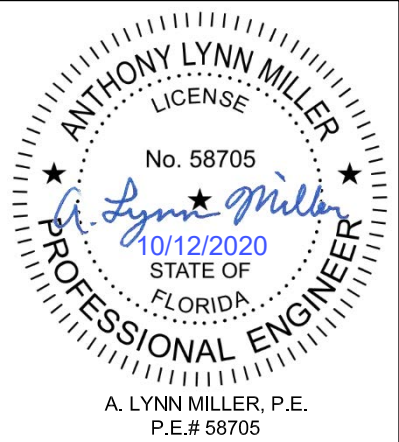
INSTRUCTIONS:

- 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.

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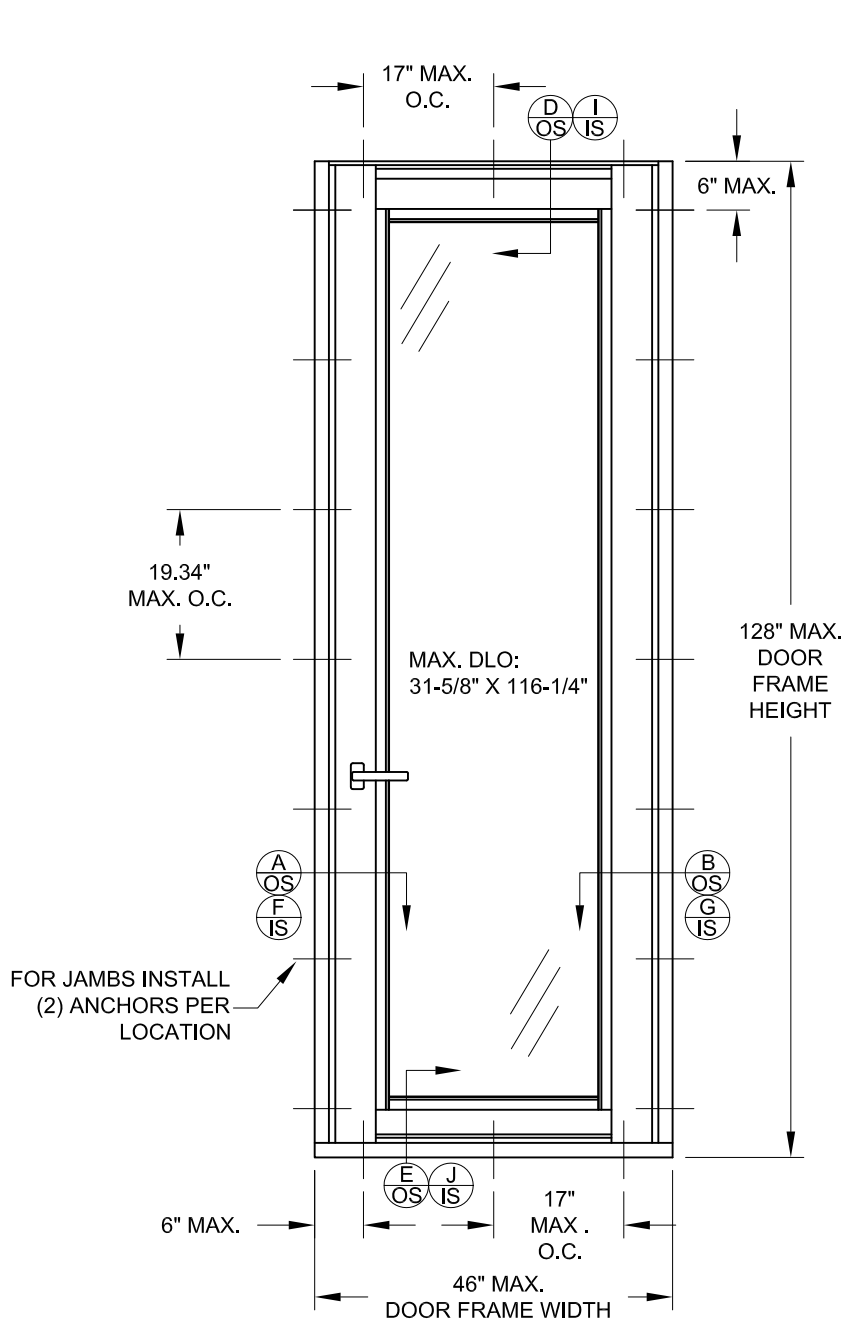
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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI)	NOTES & ANCHOR TABLE	TD9050T Series	1 OF 9 Sheet	A Rev.



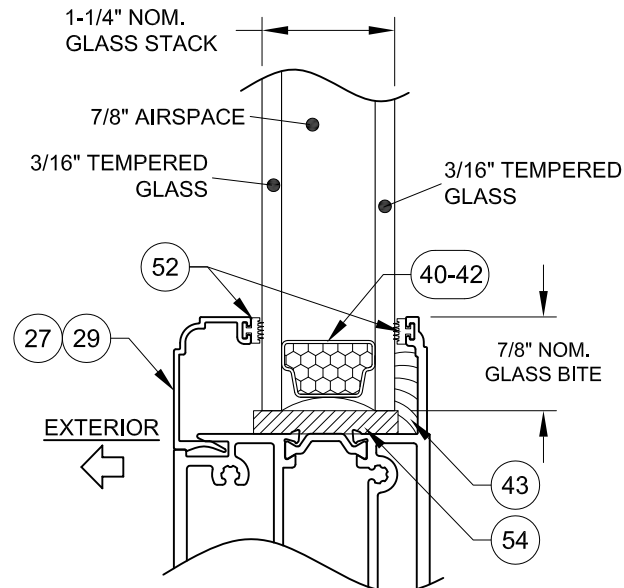
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Revision:	ADDED DEWALT ULTRACON+. EK 10/08/2020
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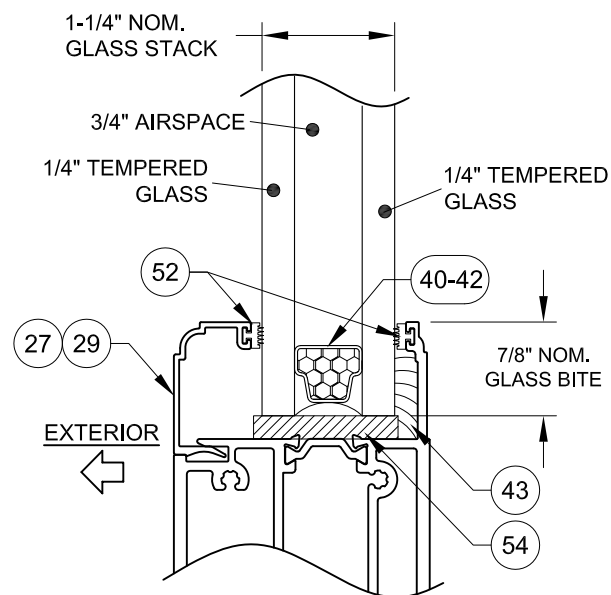


TYP. ELEVATION OF SINGLE DOOR, (X)
INSWING & OUTSWING

FOR X DOORS:
DESIGN PRESSURE RATING
+100.0 / -120.0 PSF

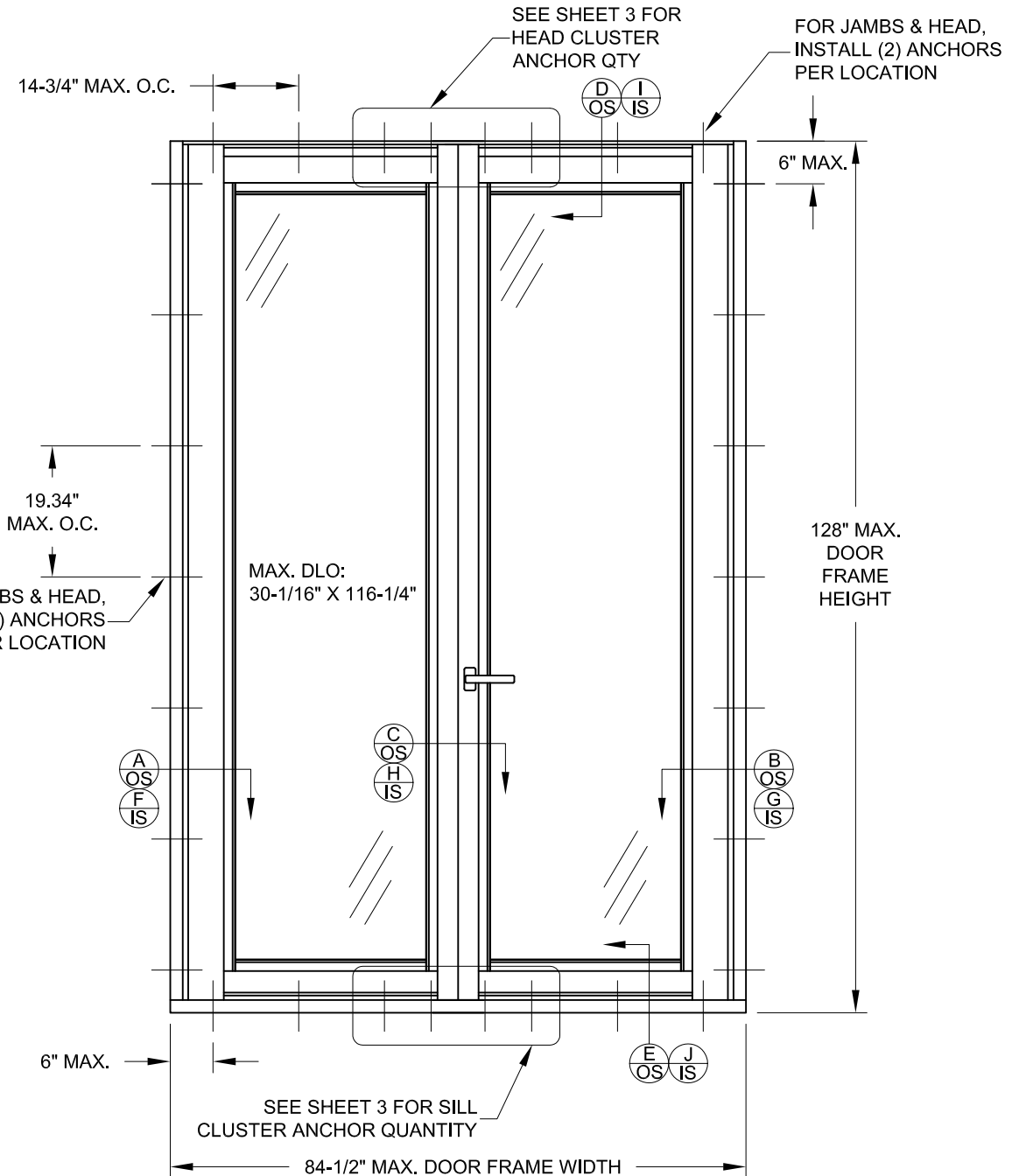


GLAZING DETAIL A



GLAZING DETAIL B

- (X OS) DETAIL LETTER
OUTSWING, SEE SHEETS 4 & 5
- (X IS) DETAIL LETTER
INSWING, SEE SHEETS 6 & 7

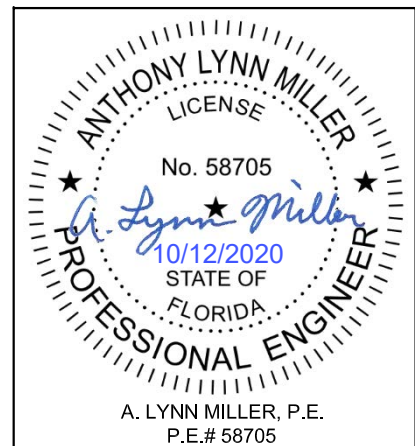


TYP. ELEVATION OF DOUBLE DOOR, (XX)
INSWING & OUTSWING

FOR XX DOORS:
DESIGN PRESSURE RATING
+55.0 / -80.0 PSF

Revision:
ADDED GLAZING DETAIL B.
EK 10/08/2020

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THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI) ELEVATIONS, GLAZING DETAIL & DP		Date 10/09/19	ERIN KOSS	
		By Drawn		
Series TD9050T	Sheet 2 OF 9	DWG No.	9050NIFPA-1	Rev. A

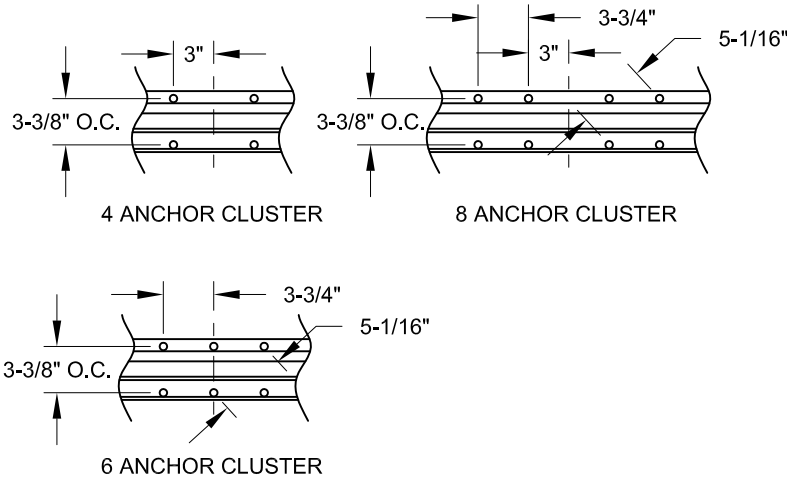


A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2:

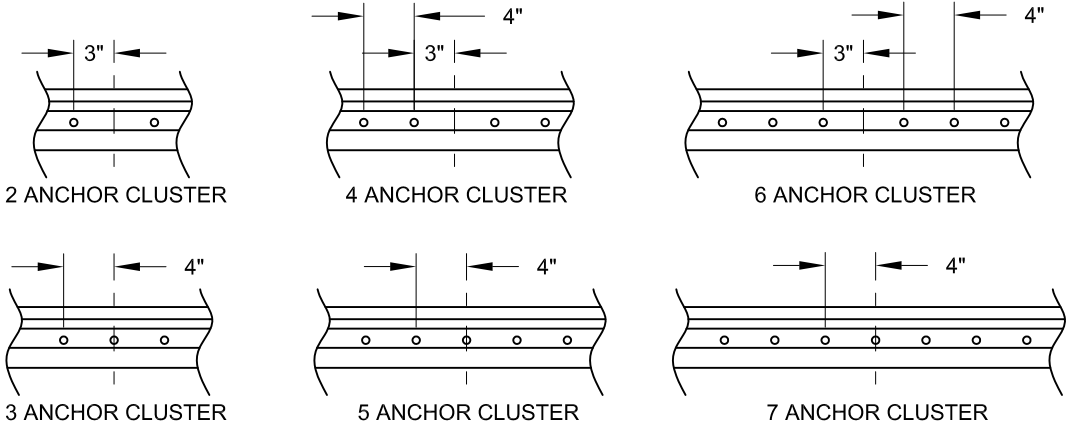
Min. Quantity of Anchors Required at the Cluster								
Frame Height	Frame Location	Anchor Group	Frame Width					
			54"	60"	66"	72"	76-1/2"	84-1/2"
72"	Head	A	4	4	4	4	4	4
	Sill		2	3	3	3	3	3
	Head	B	4	4	4	4	4	6
	Sill		3	3	3	3	3	4
	Head	C	4	4	4	4	4	4
	Sill		2	3	3	3	3	3
80"	Head	D	4	4	4	4	4	4
	Sill		3	3	3	3	4	4
	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
84"	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
108"	Head	D	4	4	4	4	6	6
	Sill		3	4	4	4	5	5
	Head	A	4	6	6	6	6	6
	Sill		6	6	6	6	6	8
	Head	B	4	4	4	5	5	5
	Sill		4	4	6	6	6	6
120"	Head	C	3	4	4	4	5	5
	Sill		4	4	4	6	6	6
	Head	D	4	4	4	5	5	5
	Sill		4	4	4	5	5	6
	Head	A	4	6	6	6	6	8
	Sill		4	6	6	8	8	8
128"	Head	B	4	4	5	5	5	6
	Sill		6	6	6	8	8	8
	Head	C	4	5	5	5	6	6
	Sill		6	6	6	8	8	8
	Head	D	4	4	5	5	5	6
	Sill		4	6	6	6	6	8
128"	Head	A	4	5	5	6	6	7
	Sill		6	6	6	8	8	8
	Head	B	6	6	6	8	8	8
	Sill		4	5	5	5	6	6
	Head	C	6	6	6	8	8	8
	Sill		4	4	5	5	5	6
128"	Head	D	4	6	6	6	6	8
	Sill		4	5	5	6	6	7

ANCHOR CLUSTER PATTERN @ HEAD



PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS.

ANCHOR CLUSTER PATTERN @ SILL

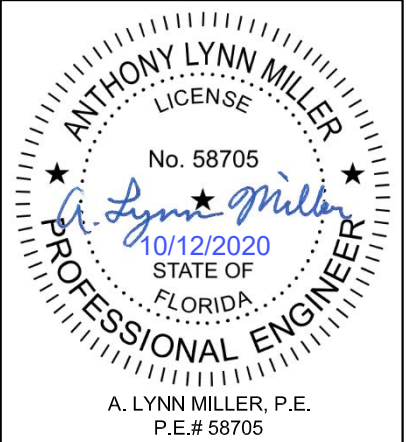


PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS.

NOTES:

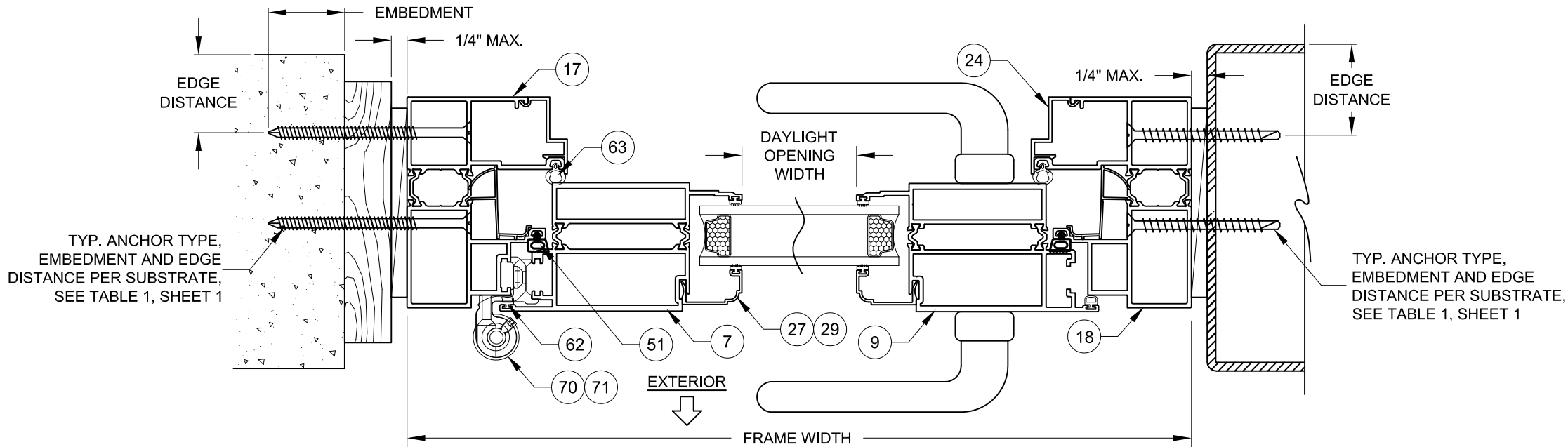
- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI)	XX CLUSTER DETAILS & QTY.	3 OF 9 Sheet	TD9050T Series



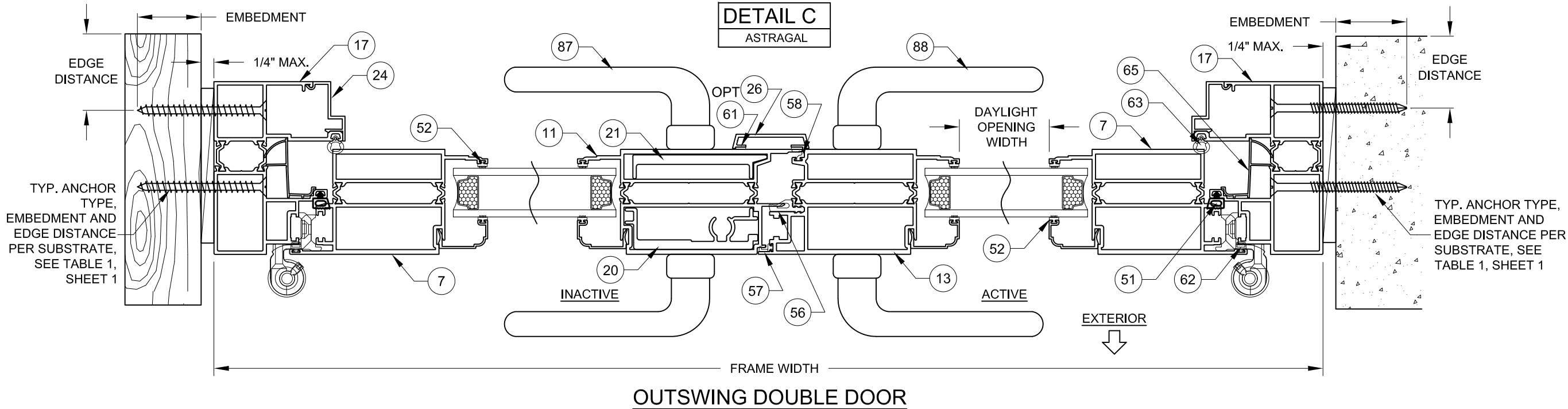
DETAIL A1 1X WOOD
THRU 1X WOOD
INTO MASONRY 1X WOOD
BUCKSTRIP.
CONCRETE/CMU PER
ANCHOR REQUIREMENT

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



DETAIL A2 2X WOOD
INTO WOOD BUCKSTRIP OR
FRAMING

DETAIL B2 CONCRETE/CMU PER
INTO MASONRY ANCHOR REQUIREMENT

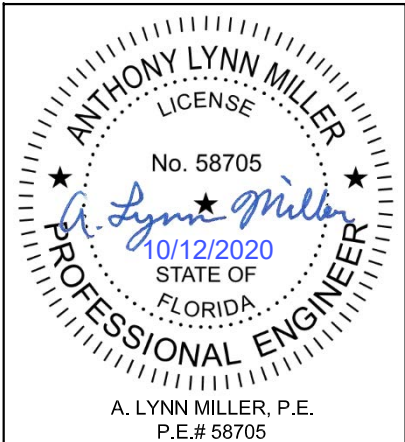


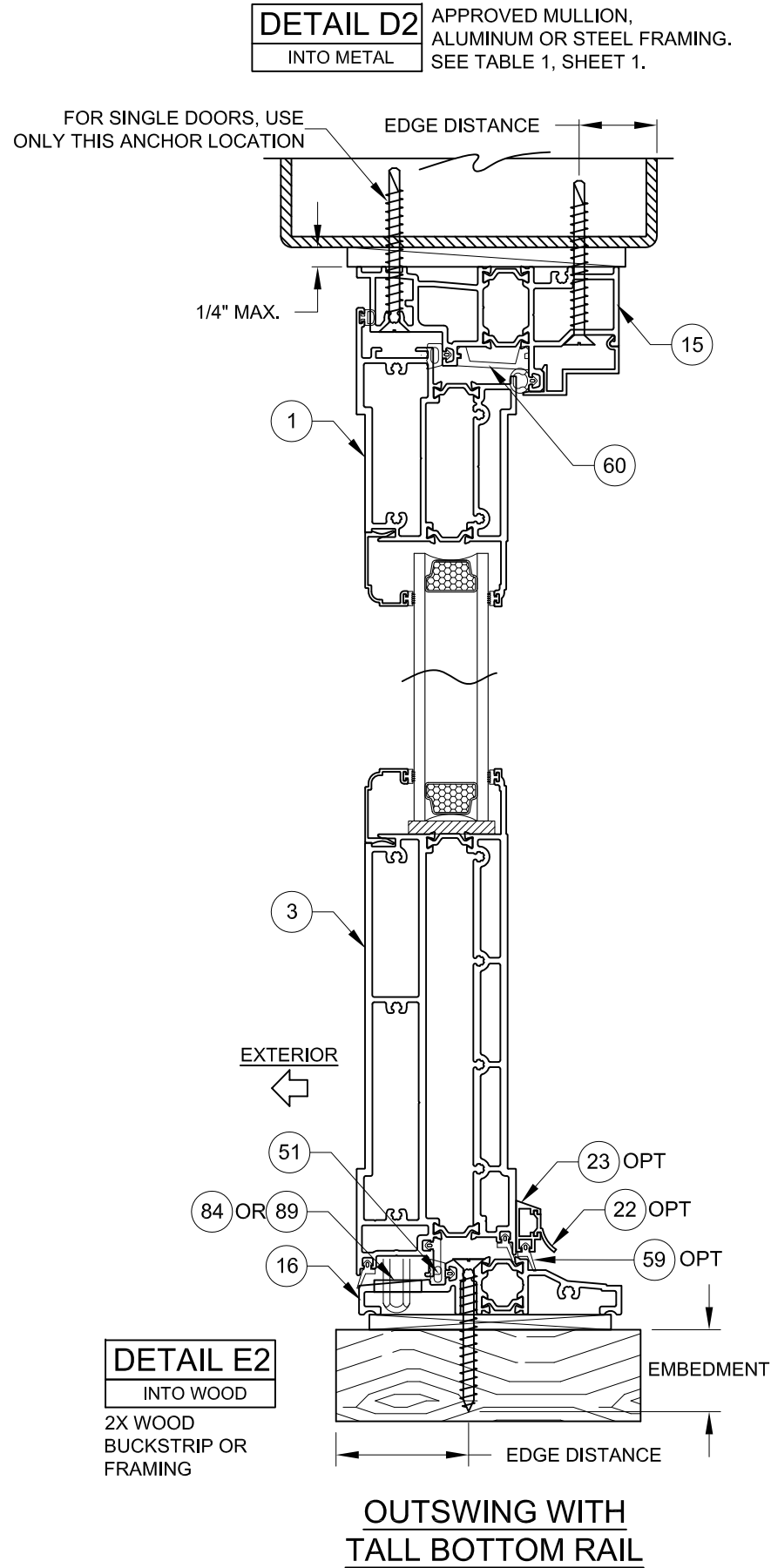
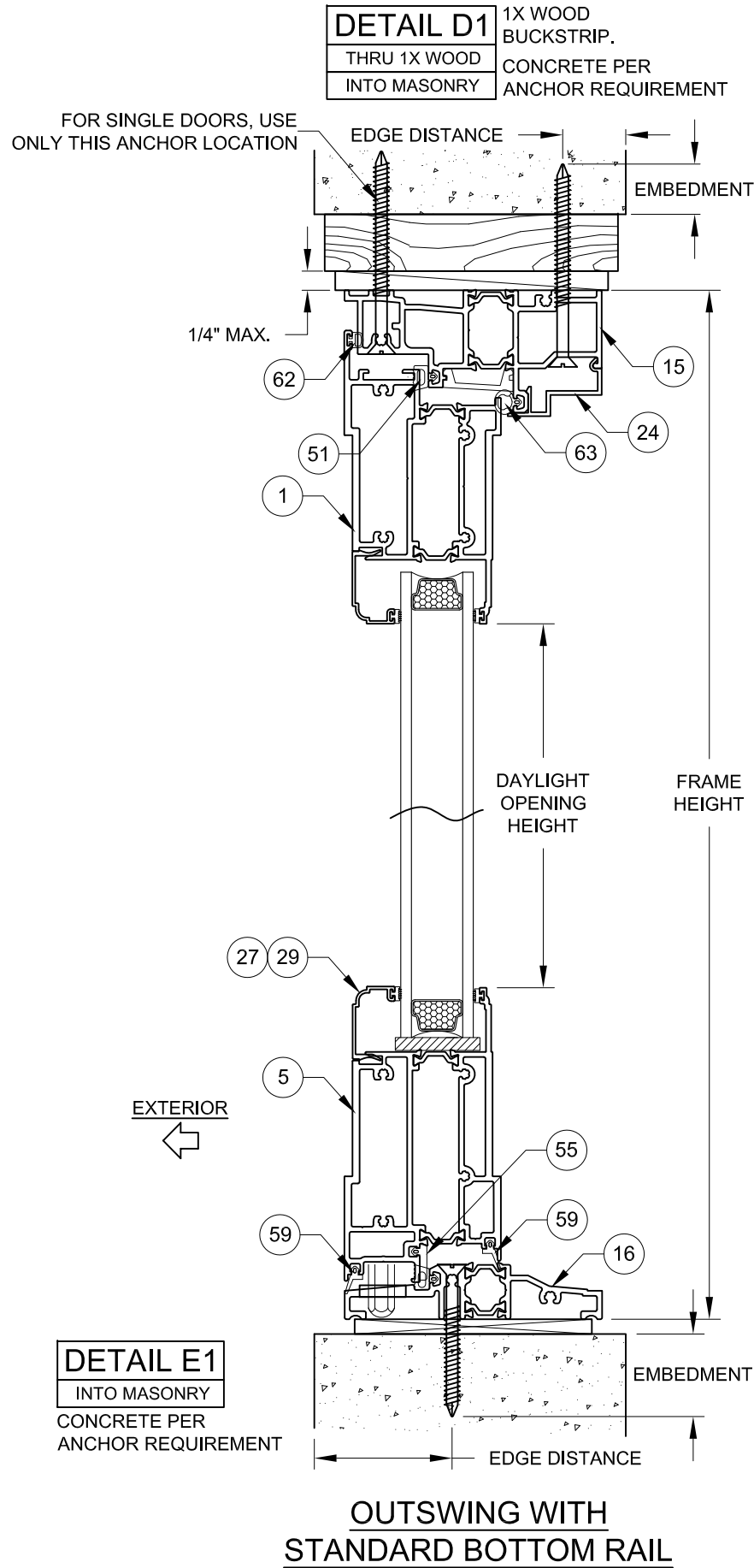
NOTES:

- 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.
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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI) OUTSWING HORIZ. SECTION VIEWS	4 OF 9 Sheet	TD9050T Series	

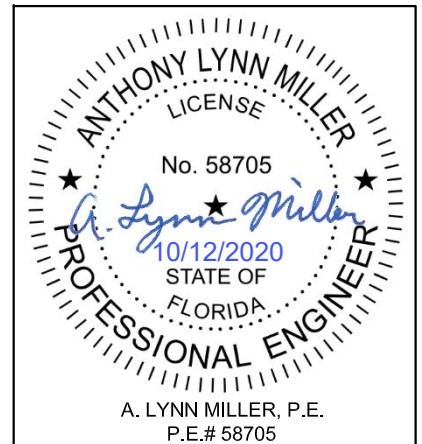


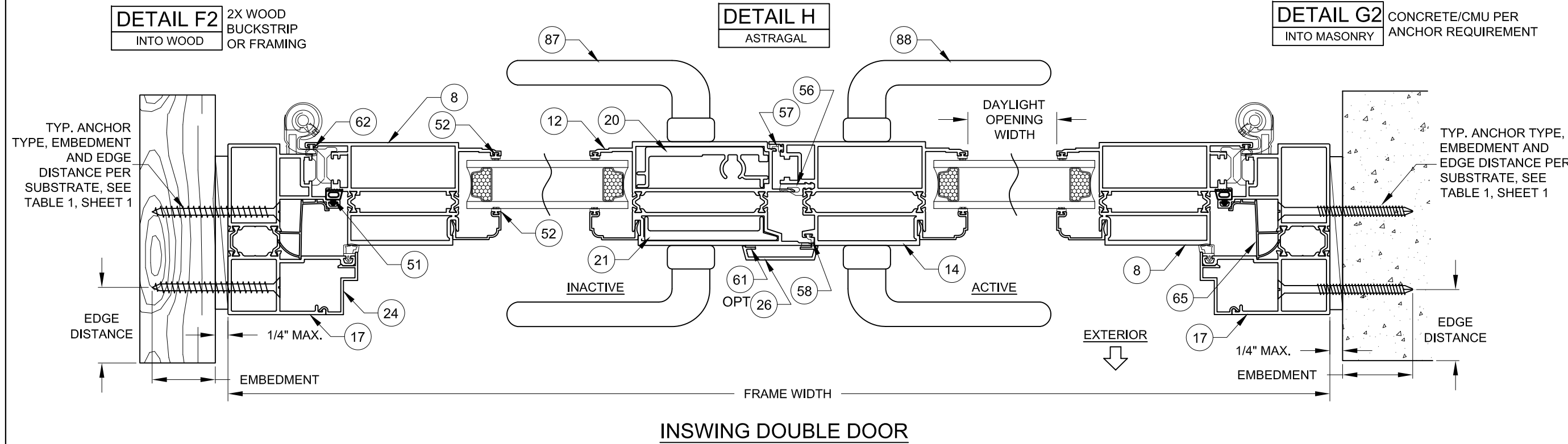
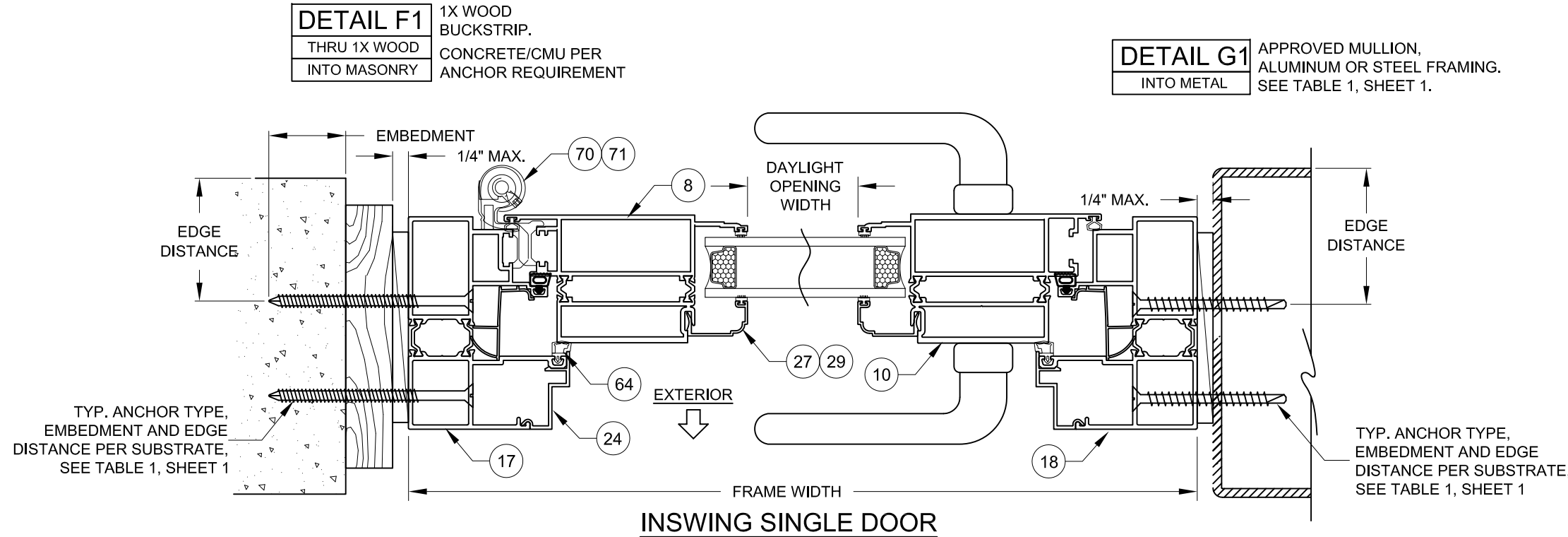


- NOTES:**
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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI) OUTSWING VERT. SECTION VIEWS	5 OF 9 Sheet	TD9050T Series	5 OF 9 Sheet	A Rev.





NOTES:

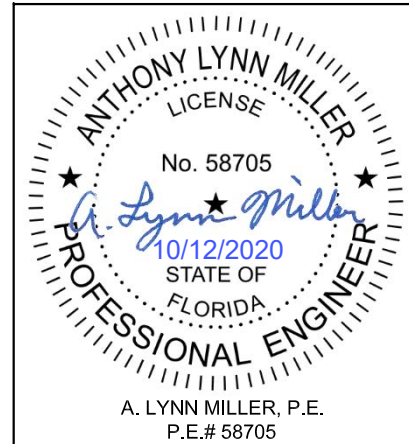
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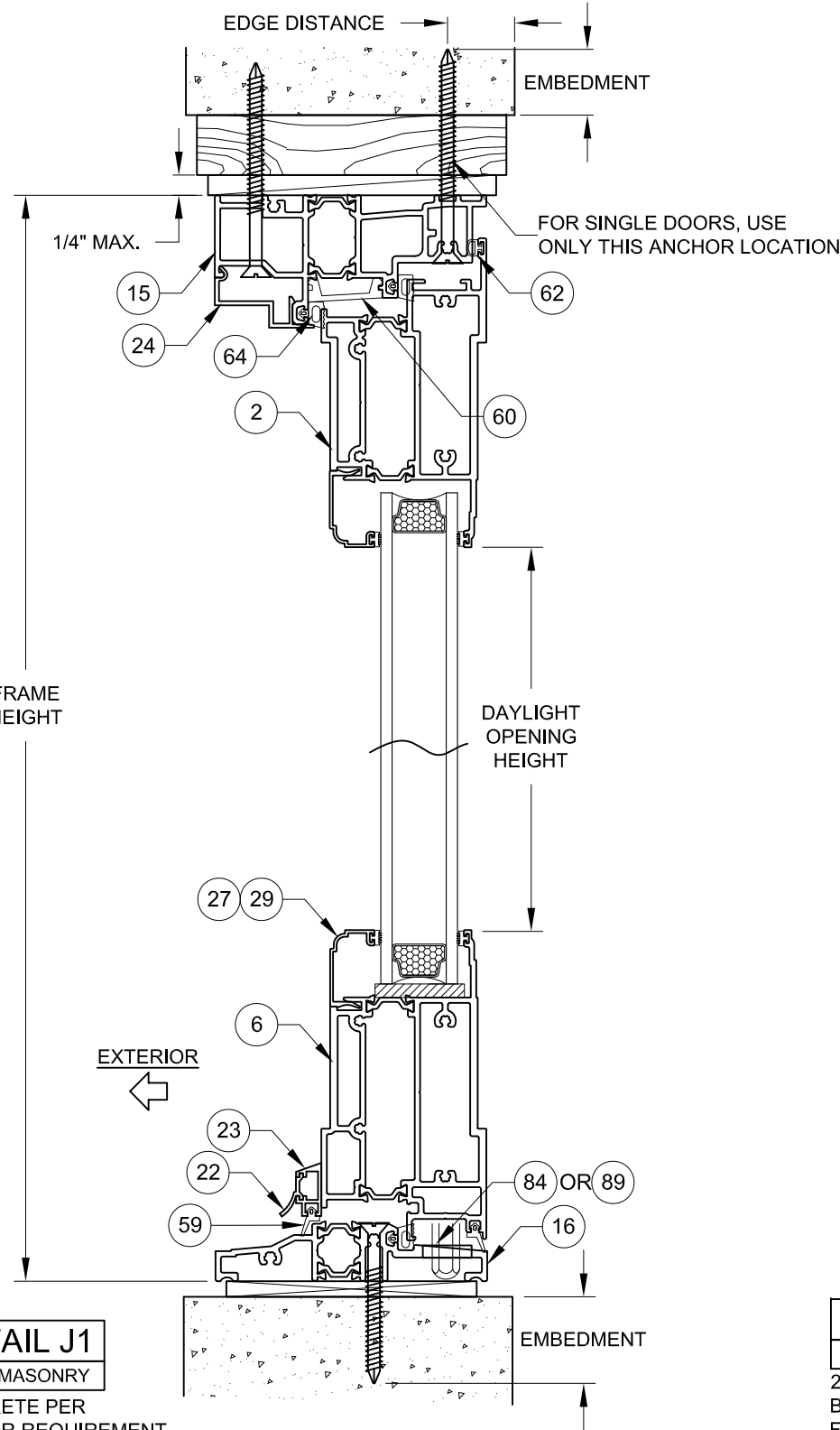
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						A
						9050NIFPA-1
WINDOOR® INCORPORATED	6 OF 9	TD9050T	Sheet	DWG	No.	A



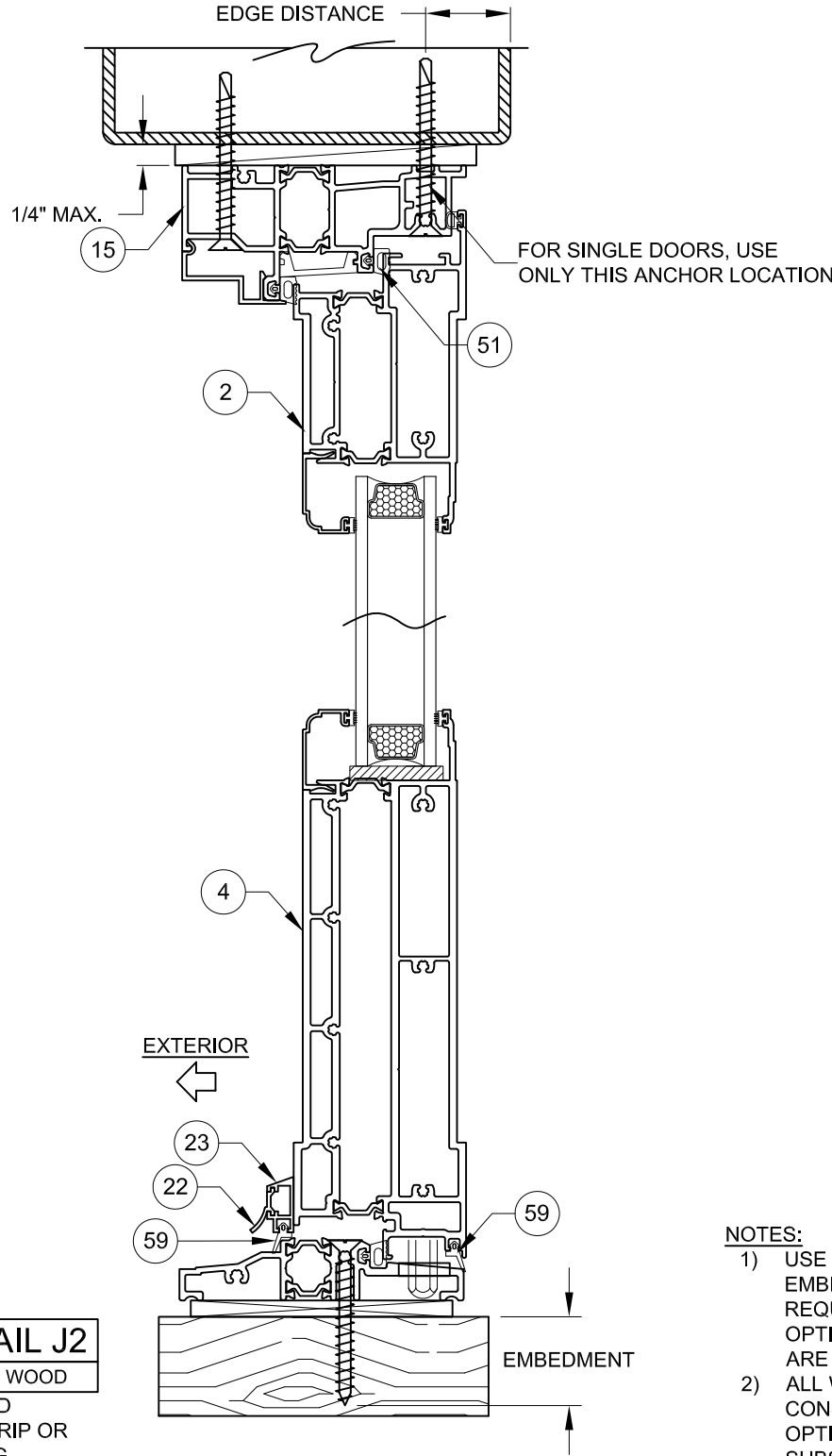
DETAIL I1
1X WOOD
BUCKSTRIP.
THRU 1X WOOD
CONCRETE PER
ANCHOR REQUIREMENT
INTO MASONRY



DETAIL J1
INTO MASONRY
CONCRETE PER
ANCHOR REQUIREMENT

**INSWING WITH
STANDARD BOTTOM RAIL**

DETAIL I2
APPROVED MULLION,
ALUMINUM OR STEEL FRAMING.
INTO METAL
SEE TABLE 1, SHEET 1.



DETAIL J2
INTO WOOD
2X WOOD
BUCKSTRIP OR
FRAMING

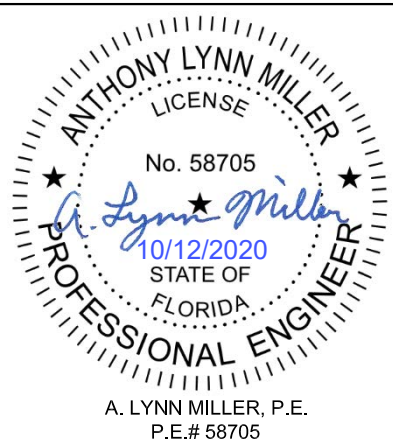
**INSWING WITH
TALL BOTTOM RAIL**

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI)	10/12/2020 Date	INSWING VERT. SECTION VIEWS Title	7 OF 9 Sheet	TD9050T Series



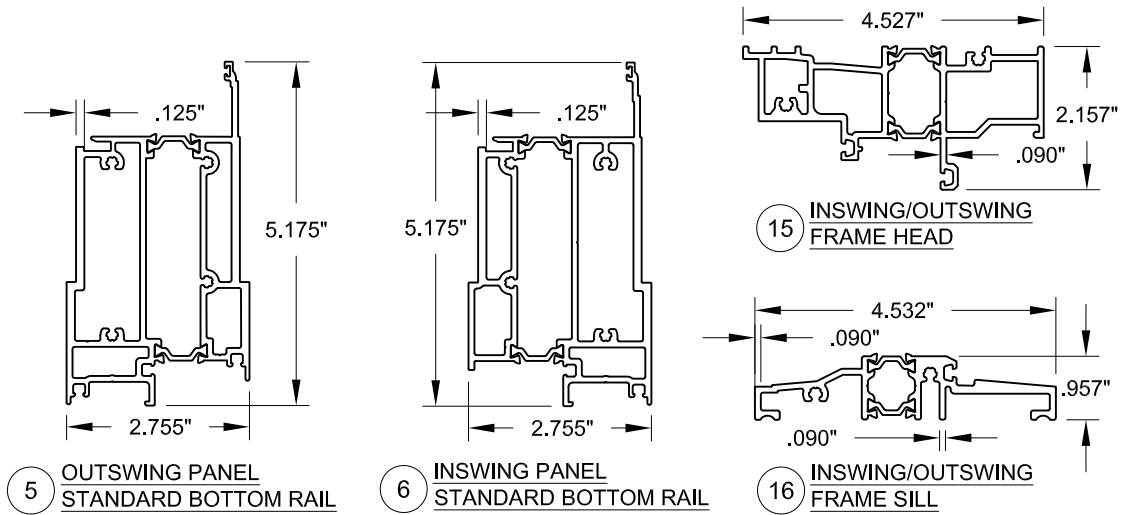
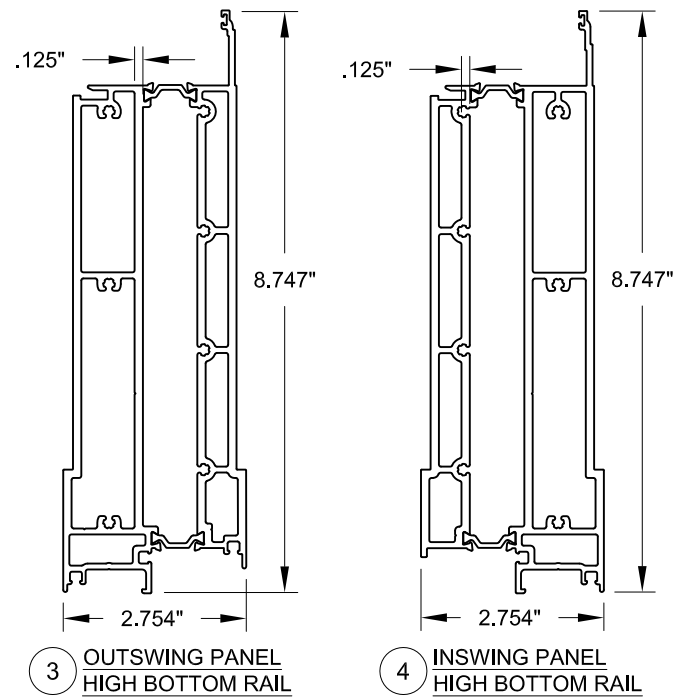
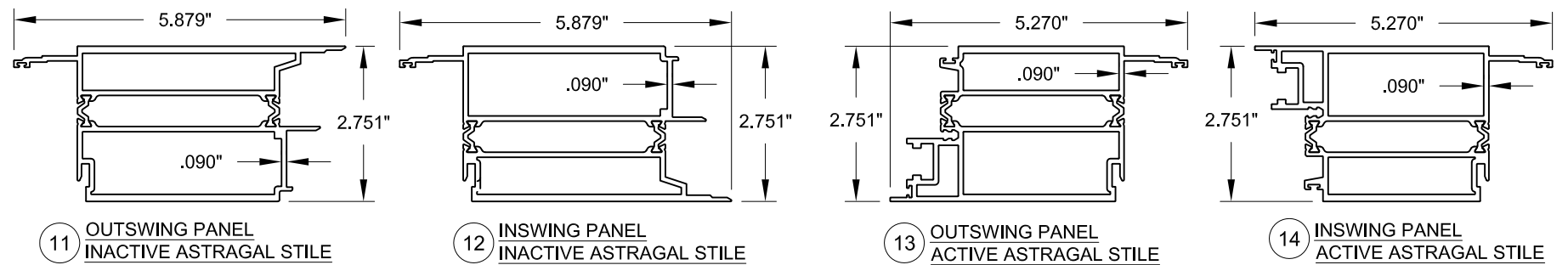
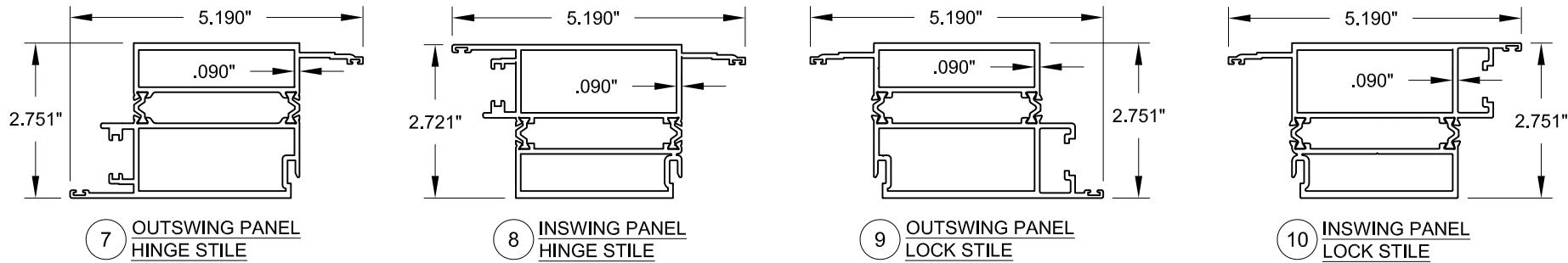
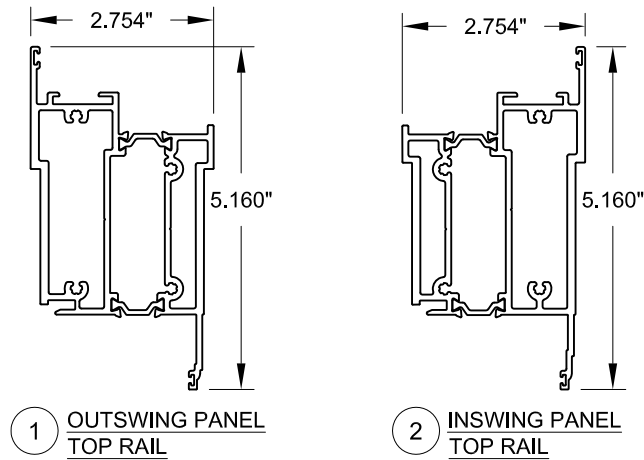
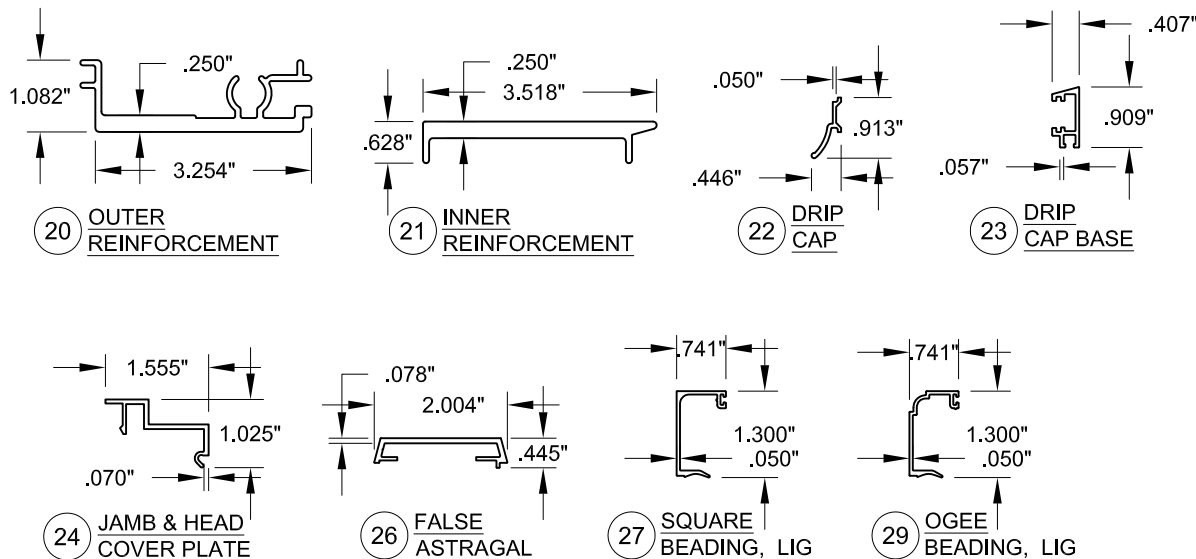
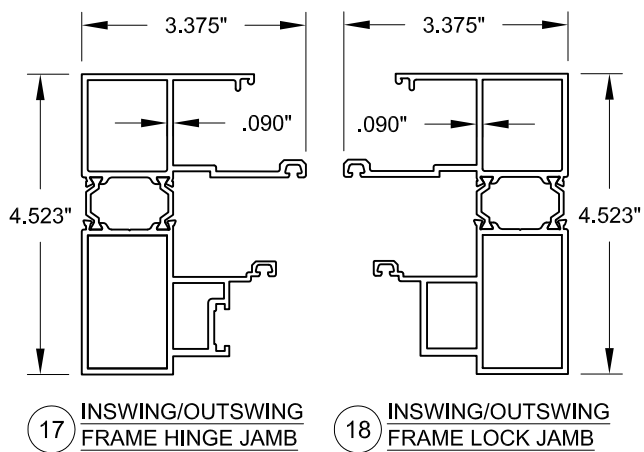


TABLE 3:

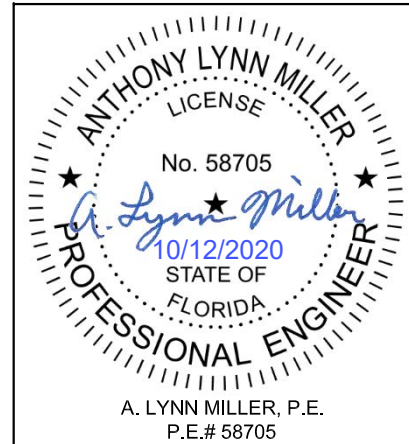
#	Part #	Description	Material
1	130905A36	Outswing Panel Top Rail	6063 -T6
2	130905A26	Inswing Panel Top Rail	6063 -T6
3	130905A38	Outswing Panel High Bottom Rail	6063 -T6
4	130905A28	Inswing Panel High Bottom Rail	6063 -T6
5	130905A37	Outswing Panel Standard Bottom Rail	6063 -T6
6	130905A27	Inswing 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



Revision:

NO CHANGES THIS SHEET.

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 (407) 481-8400	THERMALLY BROKEN ALUMINUM IS/OS TERRACE DOOR (NI) Title	EXTRUSIONS & BOM Desc.	8 OF 9 Sheet	TD9050T Series



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

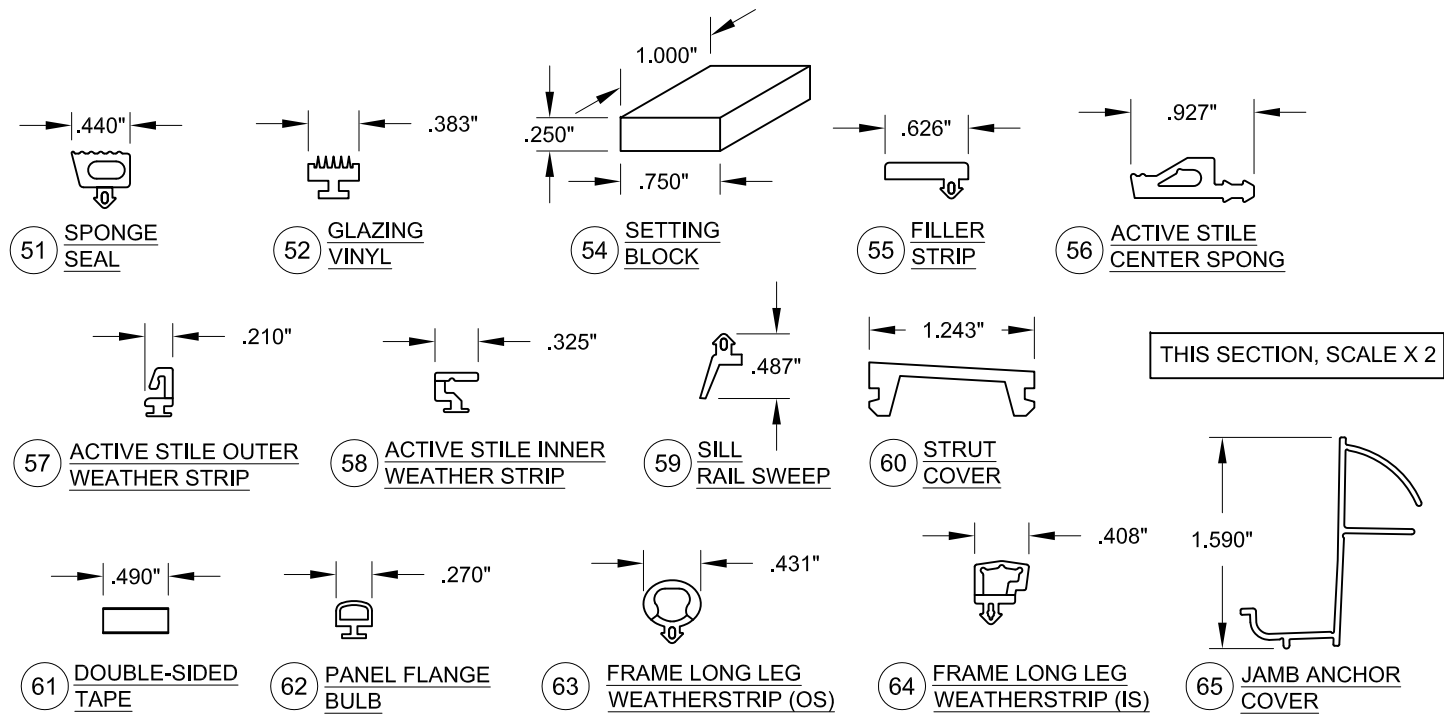


TABLE 4:

#	Part #	Description	Material
40		Kommerling KodiSpace 4SG TPS	varies
41		Quanex SuperSpacer	varies
42		Metal Spacer	varies
43		Sika 552, DOW 791 or DOW 983 Backbedding	
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

HARDWARE ELEVATION

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

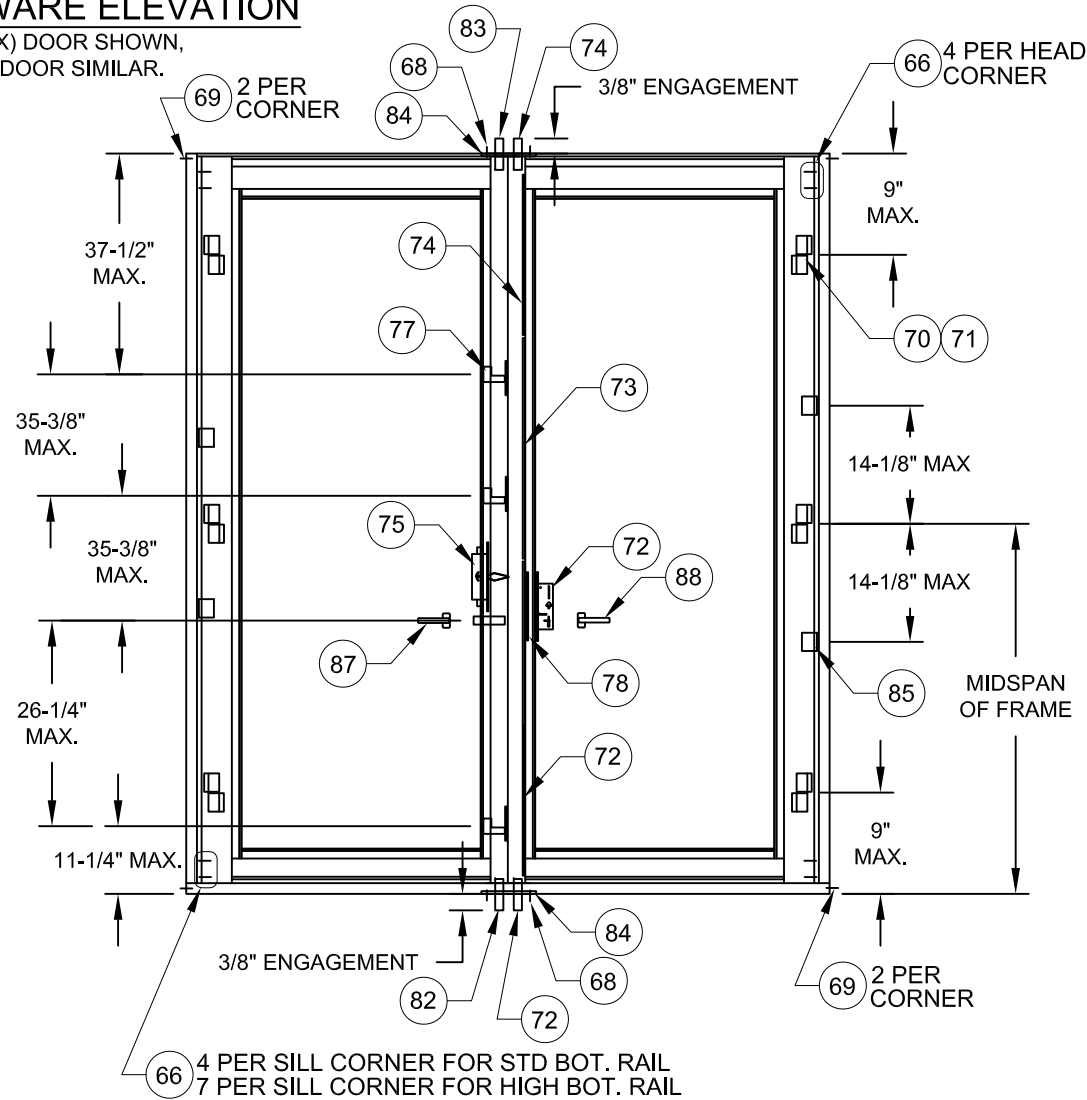
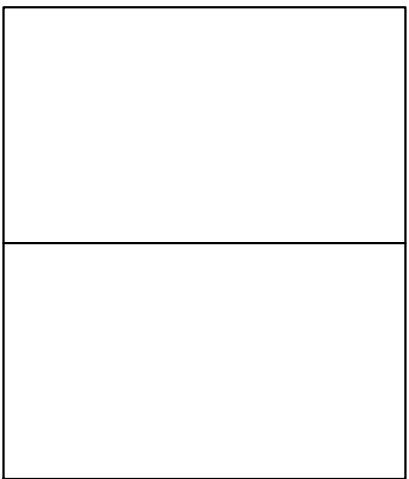


TABLE 5:

#	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	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



Revision:	ADDED DOW 791 & DOW 983 TO BOM.
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