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

DESIGN PRESSURE RATING	IMPACT RATING
SEE SHEET 2	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.

2) SHUTTERS ARE NOT REQUIRED PER IBC 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 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, IMPACT & CYCLE TESTING AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, IMPACT & CYCLE TESTING 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 IBC, AS APPLICABLE.

10) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE BUILDING CODE.

11) REFERENCES:
TEST REPORTS: NCTL-210-4060-1B, NCTL-210-4060-1C, NCTL-210-4060-02A, NCTL-210-4060-02C, FTL-18-8171

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"
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" 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 USING THE APPROPRIATE TABLE. 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 SHEETS 2.

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

TABLE 2:

Frame Size		Design Pressure, psf		Configuration		Certification Numbers
Width	Height					
46"	120"	+80	-80	X	In-Swing	167-583 & 1352
46"	128"	+80	-100	X	In-Swing	167-582 & 1351
76-1/2"	120"	+70	-70	XX	In-Swing	167-580 &1347
84-1/2"	128"	+55	-65	XX	In-Swing	167-581 & 1348
46"	120"	+80	-80	X	Out-Swing	167-586 & 1354
46"	128"	+80	-100	X	Out-Swing	167-585 & 1353
76-1/2"	120"	+70	-70	XX	Out-Swing	167-584 & 1357
84-1/2"	128"	+55	-65	XX	Out-Swing	167-587 & 1356

TABLE 3:

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.

GUIDE TO SHEETS:

Revision:
A) ADDED 1/4" TEMP. IG, UPDATED TO NEW BUILDING CODE, MINOR TABLE CORRECTIONS - JR - 6/2/22

PREPARED BY A. LYNN MILLER
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Rev.	DWG No.	Drawn By	Date
A	9050LMTDI-1	JENS ROSOWSKI	02/05/19

Series	Desc.	Sheet
TD9050	GEN. NOTES & ANCHOR TABLE	1 OF 9

Title: ALUMINUM IS/OS TERRACE DOOR (LM)

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STATE OF TEXAS
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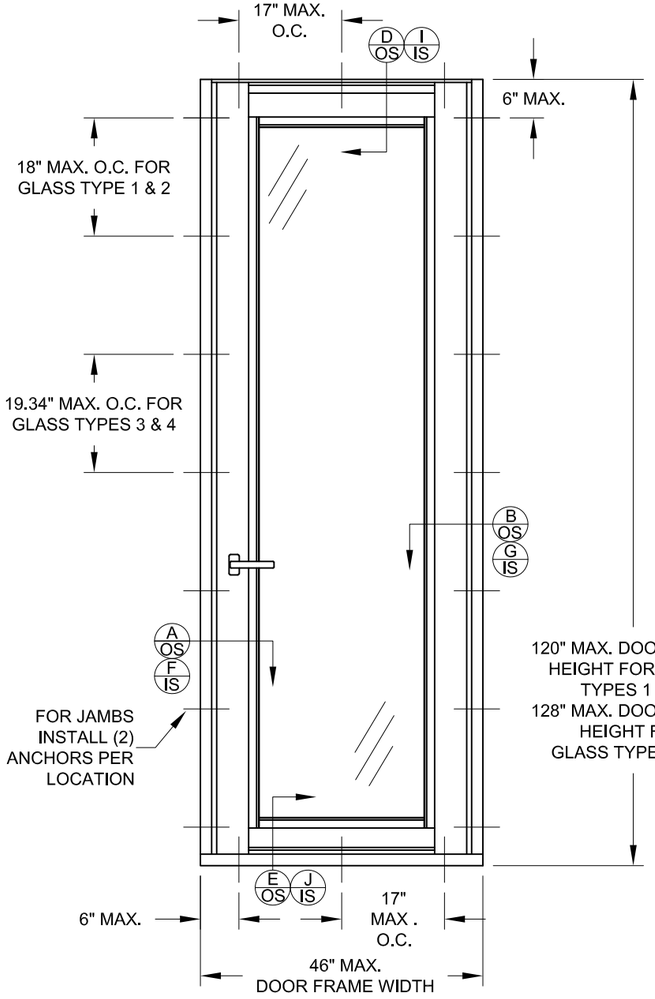
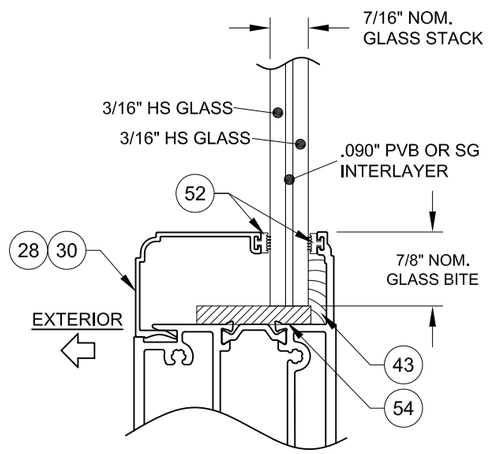
106954
LICENSED
PROFESSIONAL ENGINEER

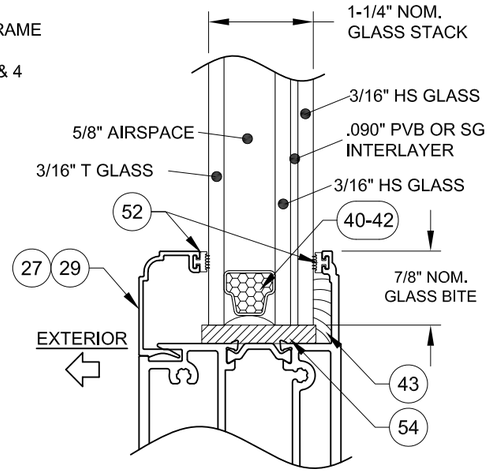
A. Lynn Miller 06/03/22
A. LYNN MILLER, P.E.
P.E.# 106954



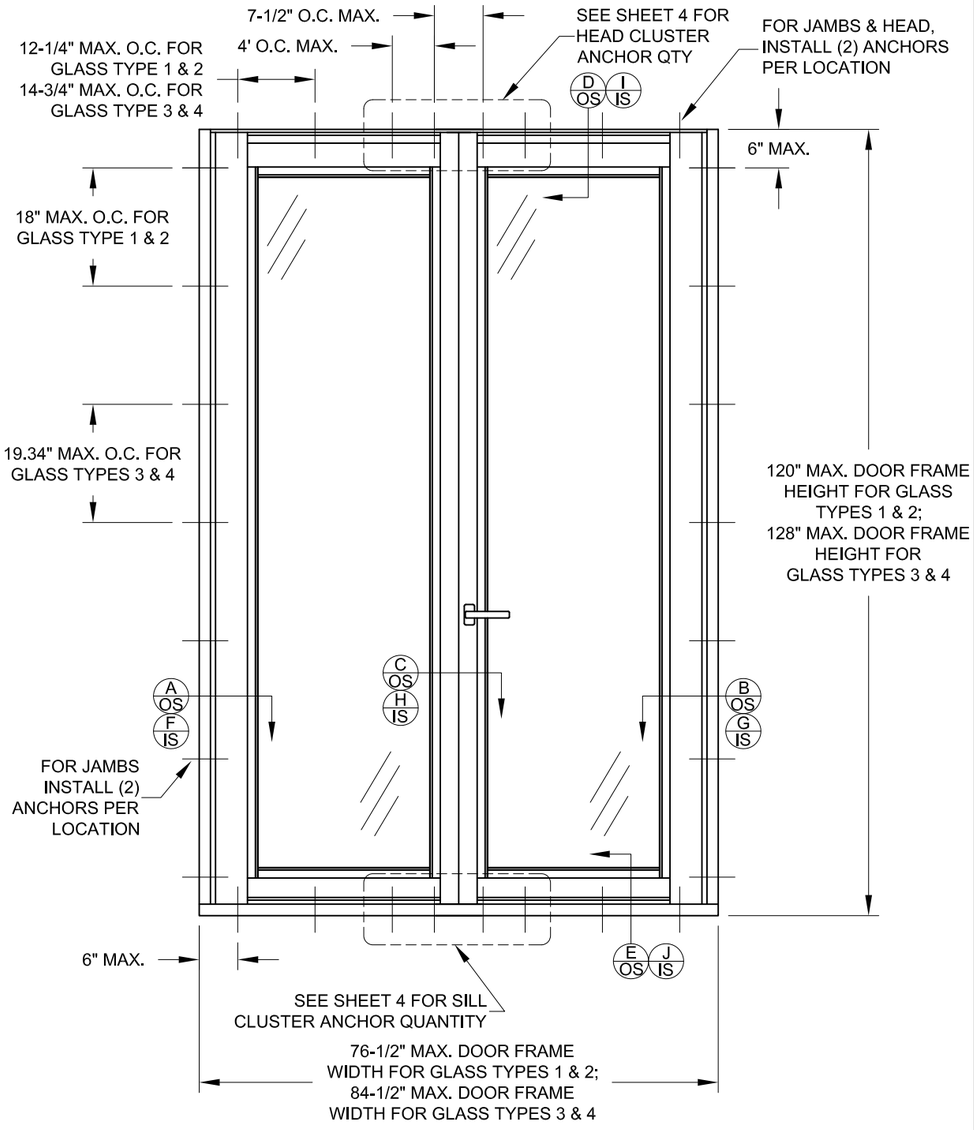
TYP. ELEVATION OF SINGLE DOOR, (X)
INSWING & OUTSWING



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



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



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

FOR X DOORS:

DP RATING, GLASS TYPES 1 & 2
+80.0 / -80.0 PSF

MAX. DLO FOR GLASS TYPES 1 & 2:
31-5/8" X 108-1/4"

FOR X DOORS:

DP RATING, GLASS TYPES 3 & 4
+80.0 / -100.0 PSF

MAX. DLO FOR GLASS TYPES 3 & 4:
31-5/8" X 116-1/4"

X OS — DETAIL LETTER
OUTSWING, SEE SHEETS 4 & 5

X IS — DETAIL LETTER
INSWING, SEE SHEETS 6 & 7

FOR XX DOORS:

DP RATING, GLASS TYPES 1 & 2
+70.0 / -70.0 PSF

MAX. DLO FOR GLASS TYPES 1 & 2:
26-1/16" X 108-1/4"

FOR XX DOORS:

DP RATING, GLASS TYPES 3 & 4
+55.0 / -65.0 PSF

MAX. DLO FOR GLASS TYPES 3 & 4:
30-1/16" X 116-1/4"

Revision:
A) ADDED 1/4" TEMP. IG, - JR - 6/2/22

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Title	Desc.	Sheet
ALUMINUM IS/OS TERRACE DOOR (LM)	X ELEVATION & DP	2 OF 9

Series	DWG No.	Drawn By	Date	Rev.
TD9050	9050LMTDI-1	JENS ROSOWSKI	02/05/19	A

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TABLE 4A:

Min. Quantity of Anchors Required at the Cluster

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	4
	Sill		2	2	3	3	3
	Head	B	4	4	4	4	4
	Sill		2	2	3	3	3
	Head	C	4	4	4	4	4
	Sill		2	2	3	3	3
	Head	D	2	4	4	4	4
	Sill		2	3	3	3	3
80"	Head	A	4	4	4	4	4
	Sill		2	3	3	3	3
	Head	B	4	4	4	4	4
	Sill		2	3	3	3	3
	Head	C	4	4	4	4	4
	Sill		2	3	3	3	3
	Head	D	4	4	4	4	4
	Sill		3	3	3	3	3
84"	Head	A	4	4	4	4	4
	Sill		2	3	3	3	3
	Head	B	4	4	4	4	4
	Sill		3	3	3	3	3
	Head	C	4	4	4	4	4
	Sill		2	3	3	3	3
	Head	D	4	4	4	4	4
	Sill		3	3	3	3	4
96"	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	4	4	4
108"	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
120"	Head	A	4	6	6	6	6
	Sill		3	4	4	4	4
	Head	B	6	6	6	6	6
	Sill		3	4	4	4	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

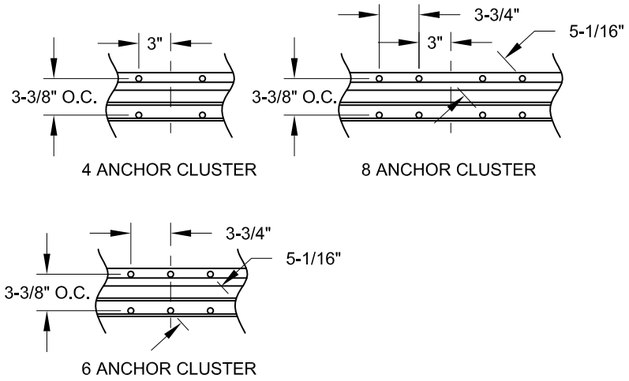
TABLE 4B:

Min. Quantity of Anchors Required at the Cluster

Glass Type: 3 & 4 (SG Interlayer)

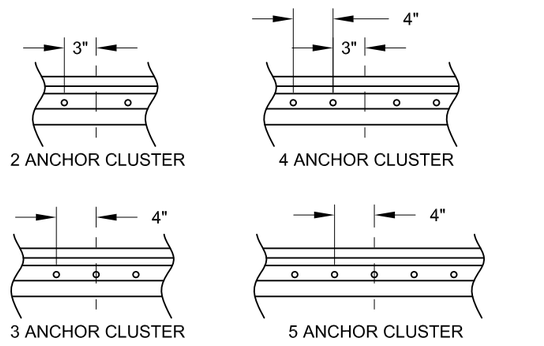
Frame Height	Frame Location	Anchor Group	Frame Width 54"	60"	66"	72"	76-1/2"	84-1/2"
72"	Head	A	4	4	4	4	4	4
	Sill		2	2	2	3	3	3
	Head	B	4	4	4	4	4	4
	Sill		2	2	3	3	3	3
	Head	C	2	4	4	4	4	4
	Sill		2	2	2	3	3	3
	Head	D	2	2	4	4	4	4
	Sill		2	2	3	3	3	3
80"	Head	A	4	4	4	4	4	4
	Sill		2	2	3	3	3	3
	Head	B	4	4	4	4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

ANCHOR CLUSTER PATTERN @ HEAD



PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS. DOOR SWING DIRECTION

ANCHOR CLUSTER PATTERN @ SILL



PATTERNS SHOWN ABOVE APPLY TO BOTH INSWING AND OUTSWING CONFIGURATIONS. DOOR SWING DIRECTION

NOTES:

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

Revision:

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Title	Date	Drawn By	Rev.
ALUMINUM IS/OS TERRACE DOOR (LM)	02/05/19	JENS ROSOWSKI	A
Desc.		DWG No.	
XX ELEVATION & DP		9050LMTDI-1	
Series		Sheet	
TD9050		3 OF 9	

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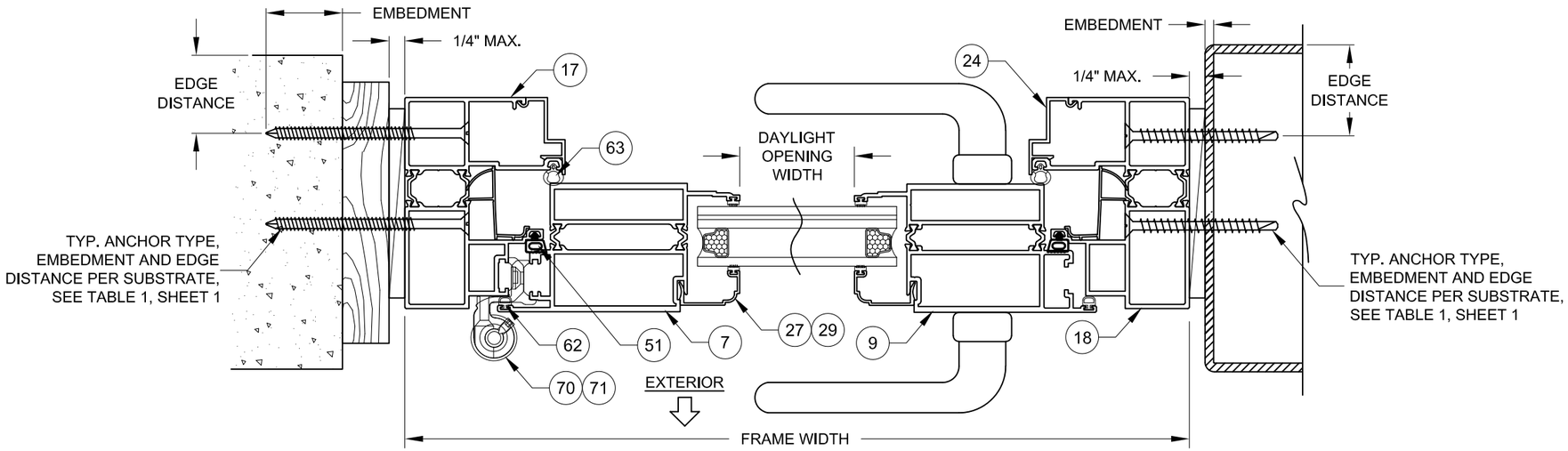
DETAIL A1 — THRU 1X WOOD / INTO MASONRY
1X WOOD BUCKSTRIP.
CONCRETE/CMU PER ANCHOR REQUIREMENT

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

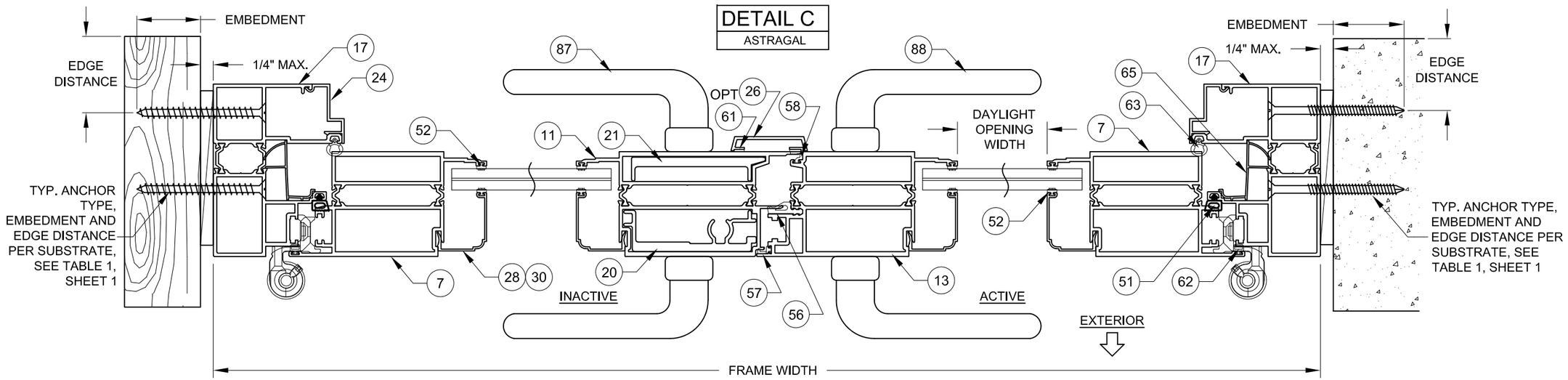


OUTSWING SINGLE DOOR

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.

Revision:

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Date	Drawn By	DWG No.	Rev.
02/05/19	JENS ROSOWSKI	9050LMTDI-1	A

Title	Desc.	Sheet	Series
ALUMINUM IS/OS TERRACE DOOR (LM)	OUTSWING HORIZ. X-SECTION	4 OF 9	TD9050

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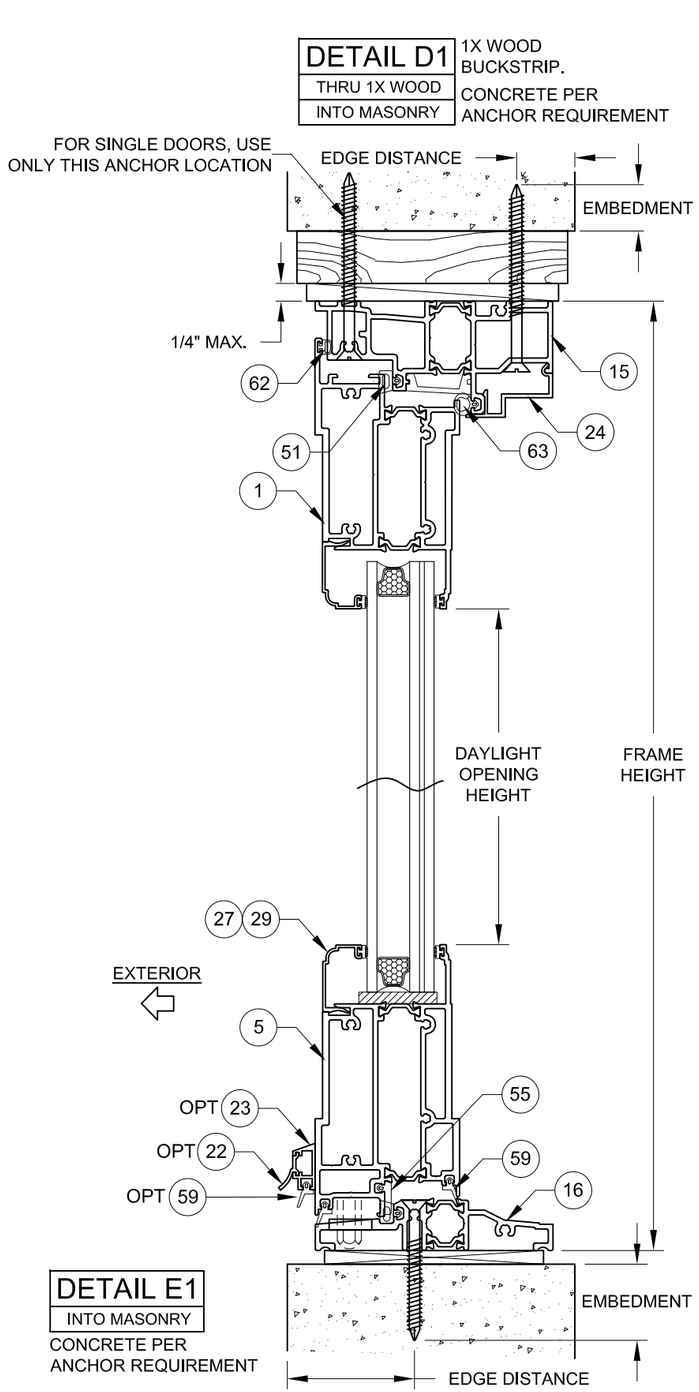
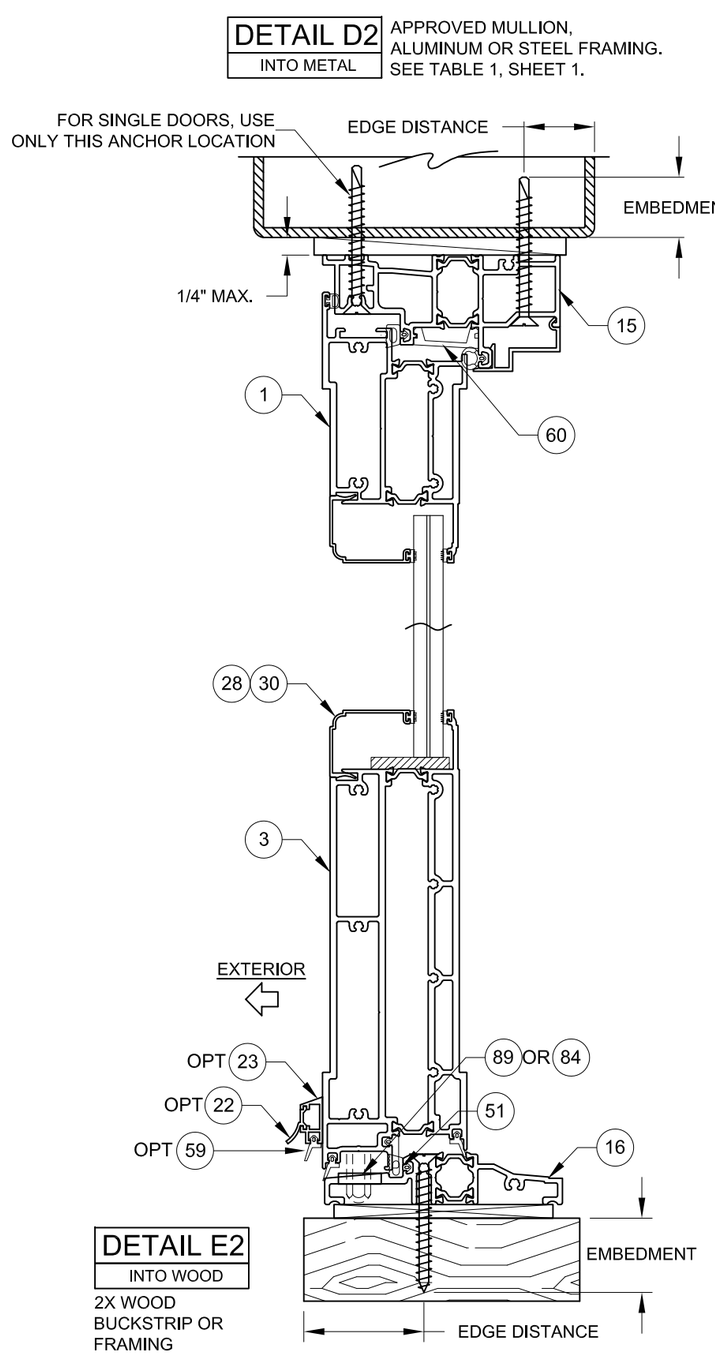


OUTSWING WITH STANDARD BOTTOM RAIL



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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Title	Date	Rev.
ALUMINUM IS/OS TERRACE DOOR (LM)	02/05/19	A

Desc.	Drawn By	DWG No.	Sheet
OUTSWING VERT. X-SECTION	JENS ROSOWSKI	9050LMTDI-1	5 OF 9

Series: TD9050

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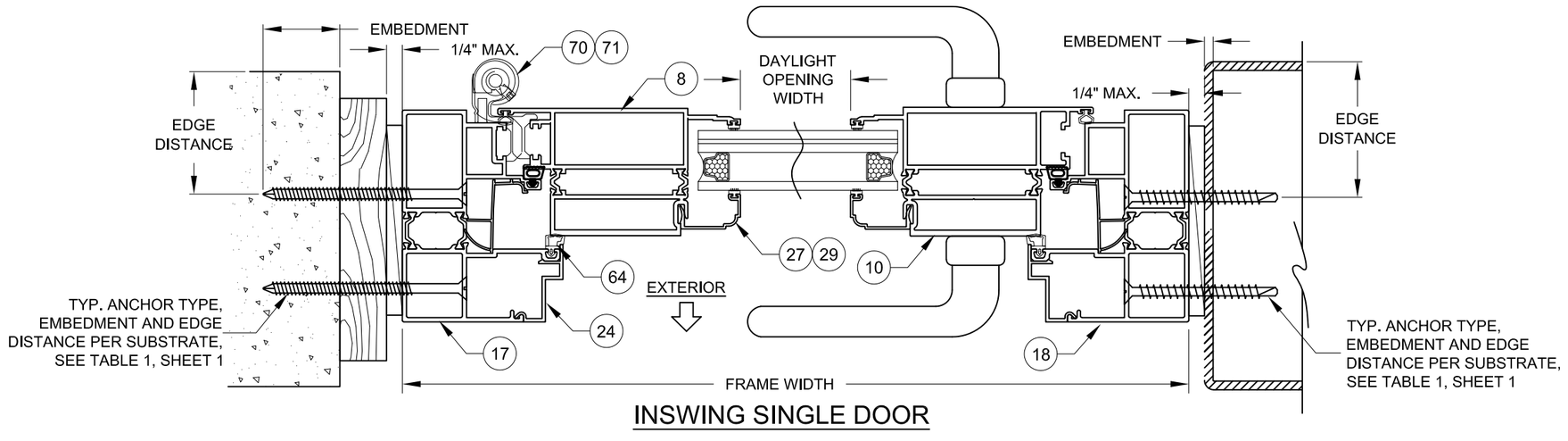
P.E.# 106954

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.

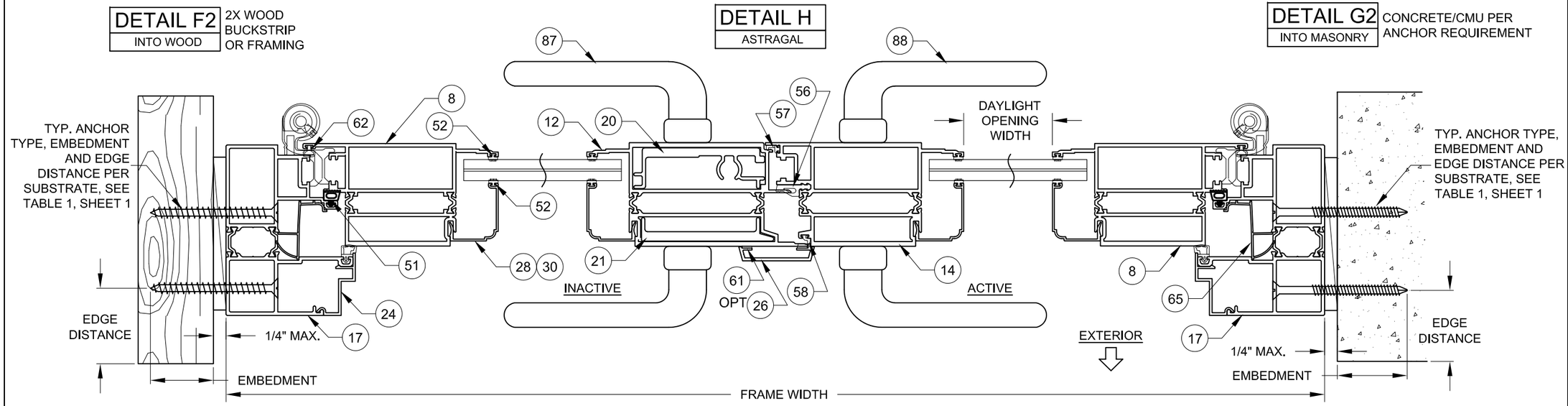


INSWING SINGLE DOOR

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.

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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(941) 480-1600

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Title	Desc.	Series	Sheet	DWG No.	Drawn By	Date	Rev.
ALUMINUM IS/OS TERRACE DOOR (LM)	INSWING HORIZ. X-SECTION	TD9050	6 OF 9	9050LMTDI-1	JENS ROSOWSKI	02/05/19	A

STATE OF TEXAS
ANTHONY LYNN MILLER
106954
LICENSED
PROFESSIONAL ENGINEER

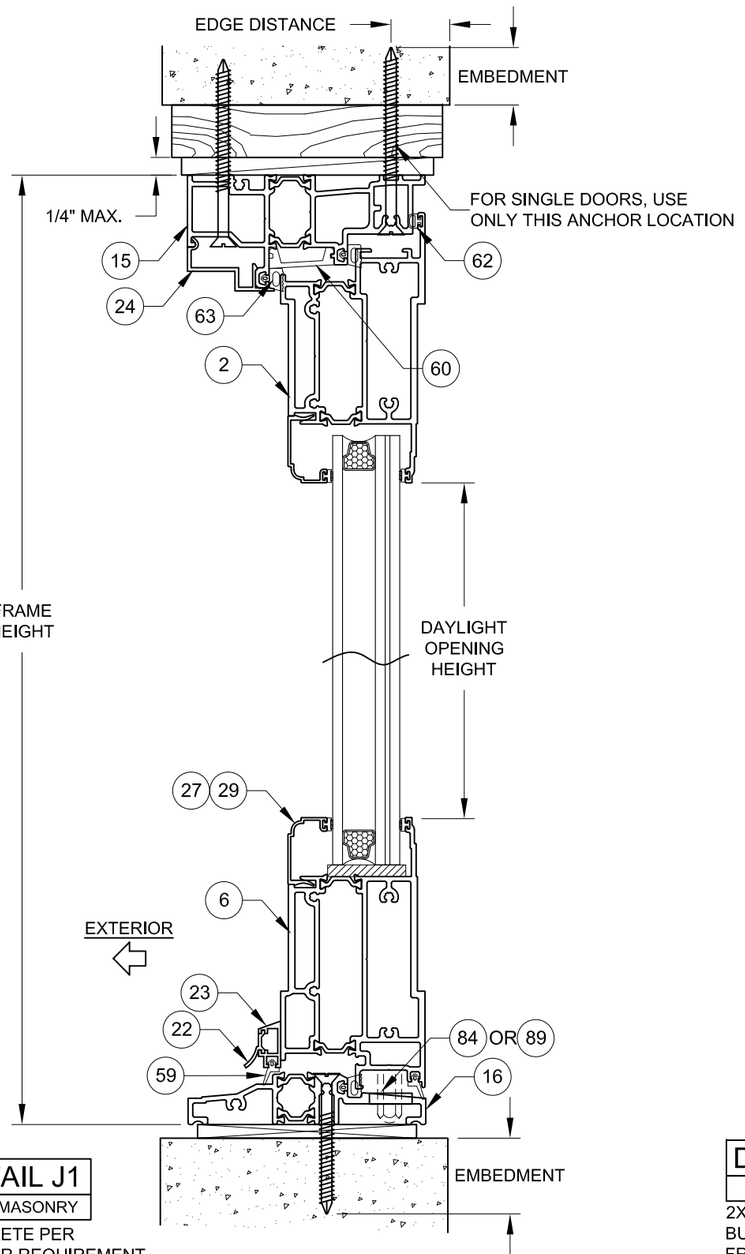
A. Lynn Miller 06/03/22

A. LYNN MILLER, P.E.
P.E.# 106954

DETAIL I1

THRU 1X WOOD
INTO MASONRY

1X WOOD BUCKSTRIP.
CONCRETE PER ANCHOR REQUIREMENT



DETAIL J1

INTO MASONRY

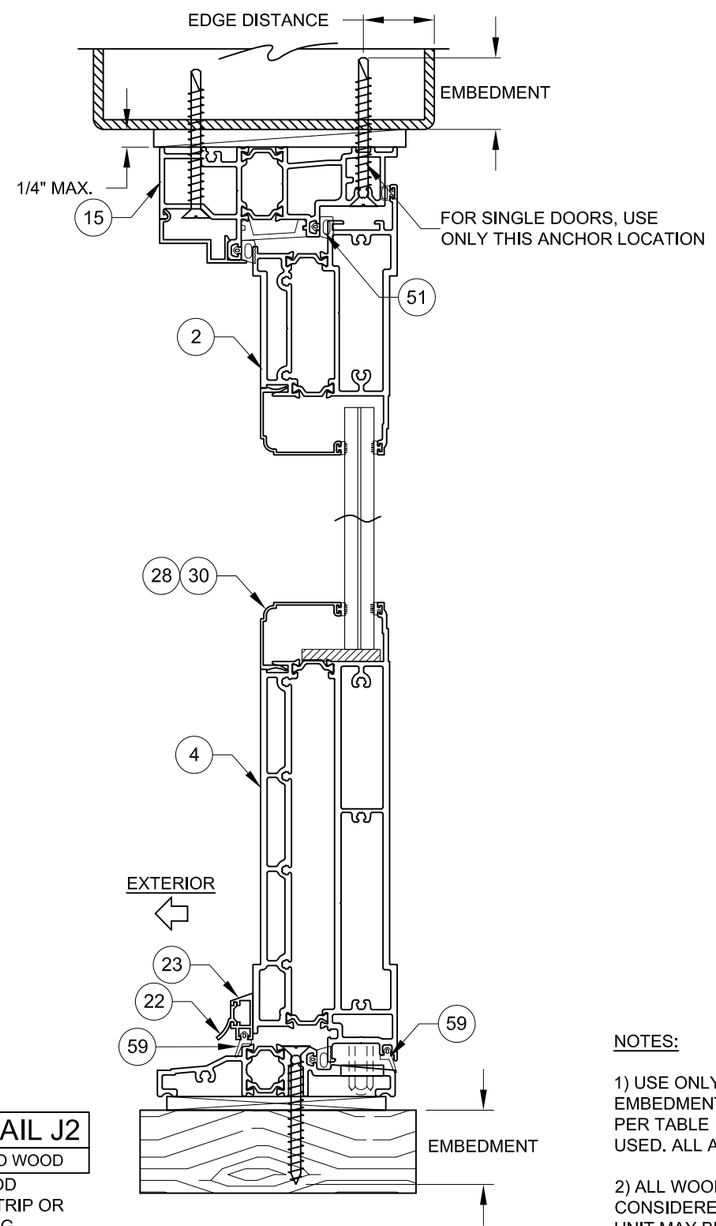
CONCRETE PER ANCHOR REQUIREMENT

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.

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Title	Date	Drawn By	DWG No.	Rev.
ALUMINUM IS/OS TERRACE DOOR (LM)	02/05/19	JENS ROSOWSKI	9050LMTDI-1	A

Series	Desc.	Sheet
TD9050	INTSWING VERT. X-SECTION	7 OF 9

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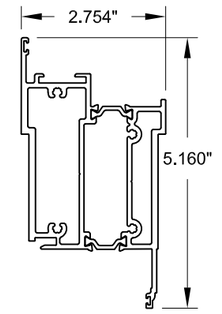
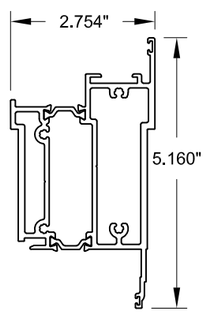
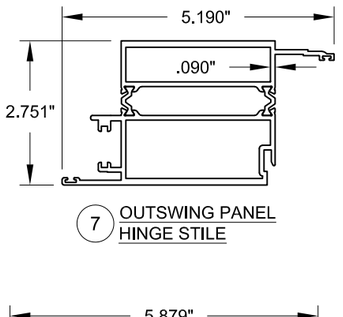


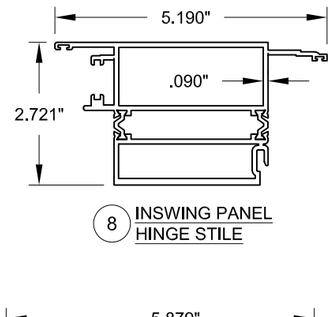
1 OUTSWING PANEL TOP RAIL



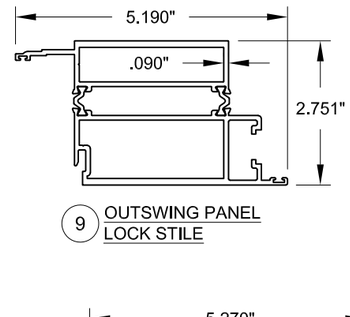
2 INSWING PANEL TOP RAIL



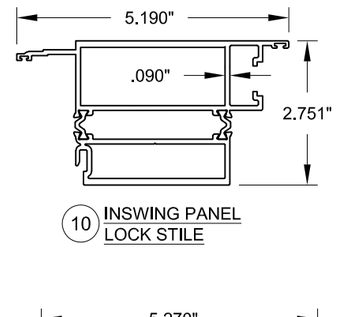
7 OUTSWING PANEL HINGE STILE



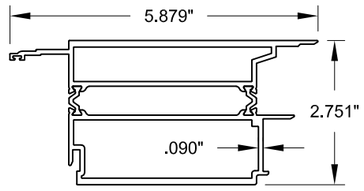
8 INSWING PANEL HINGE STILE



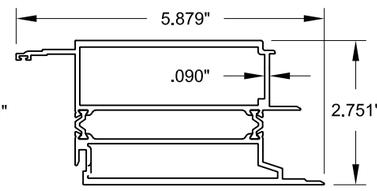
9 OUTSWING PANEL LOCK STILE



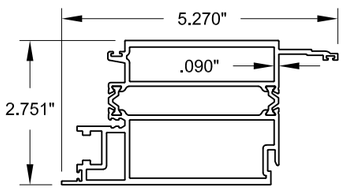
10 INSWING PANEL LOCK STILE



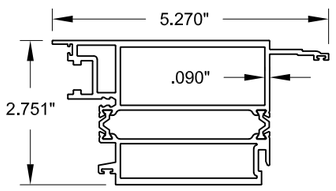
11 OUTSWING PANEL INACTIVE ASTRAGAL STILE



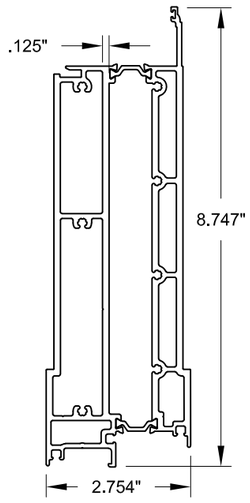
12 INSWING PANEL INACTIVE ASTRAGAL STILE



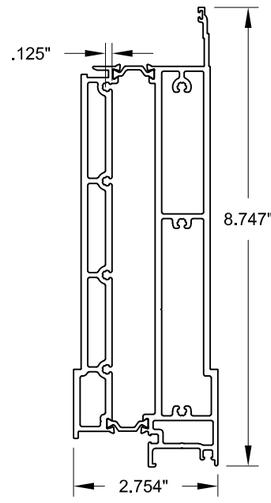
13 OUTSWING PANEL ACTIVE ASTRAGAL STILE



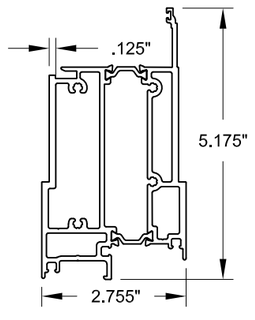
14 INSWING PANEL ACTIVE ASTRAGAL STILE



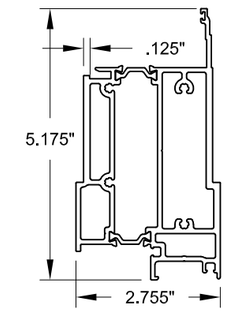
3 OUTSWING PANEL HIGH BOTTOM RAIL



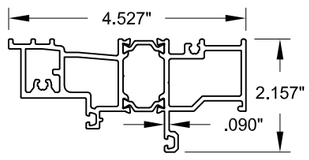
4 INSWING PANEL HIGH BOTTOM RAIL



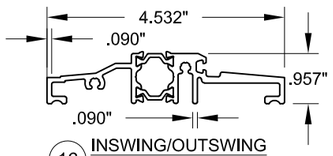
5 OUTSWING PANEL STANDARD BOTTOM RAIL



6 INSWING PANEL STANDARD BOTTOM RAIL



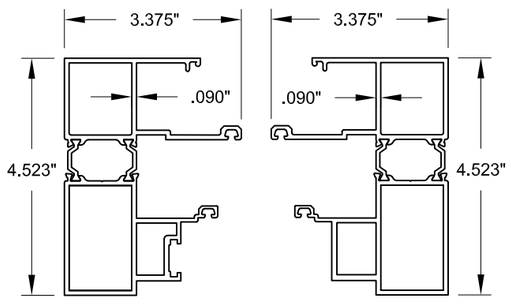
15 INSWING/OUTSWING FRAME HEAD



16 INSWING/OUTSWING FRAME SILL

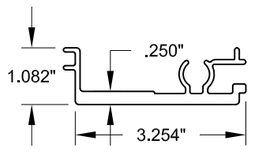
TABLE 5:

#	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
28	11052596	Square Beading	6063 -T6
29	11046084	Ogee Beading, LIG	6063 -T6
30	11046082	Ogee Beading	6063 -T6

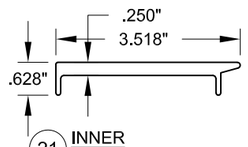


17 INSWING/OUTSWING FRAME HINGE JAMB

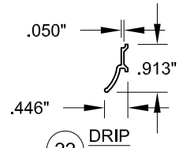
18 INSWING/OUTSWING FRAME LOCK JAMB



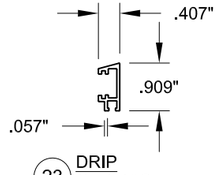
20 OUTER REINFORCEMENT



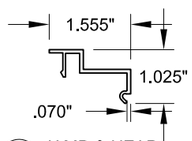
21 INNER REINFORCEMENT



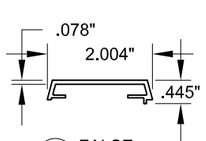
22 DRIP CAP



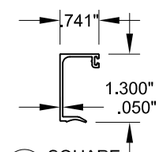
23 DRIP CAP BASE



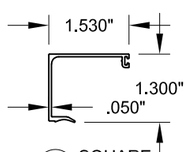
24 JAMB & HEAD COVER PLATE



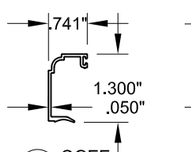
26 FALSE ASTRAGAL



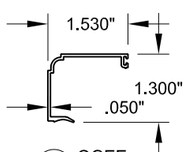
27 SQUARE BEADING, LIG



28 SQUARE BEADING



29 OGEE BEADING, LIG



30 OGEE BEADING

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Title	Desc.	Sheet	Series
ALUMINUM IS/OS TERRACE DOOR (LM)	EXTRUSIONS & BOM	8 OF 9	TD9050

Drawn By	Date	Rev.
JENS ROSOWSKI	02/05/19	A

DWG No. 9050LMTDI-1

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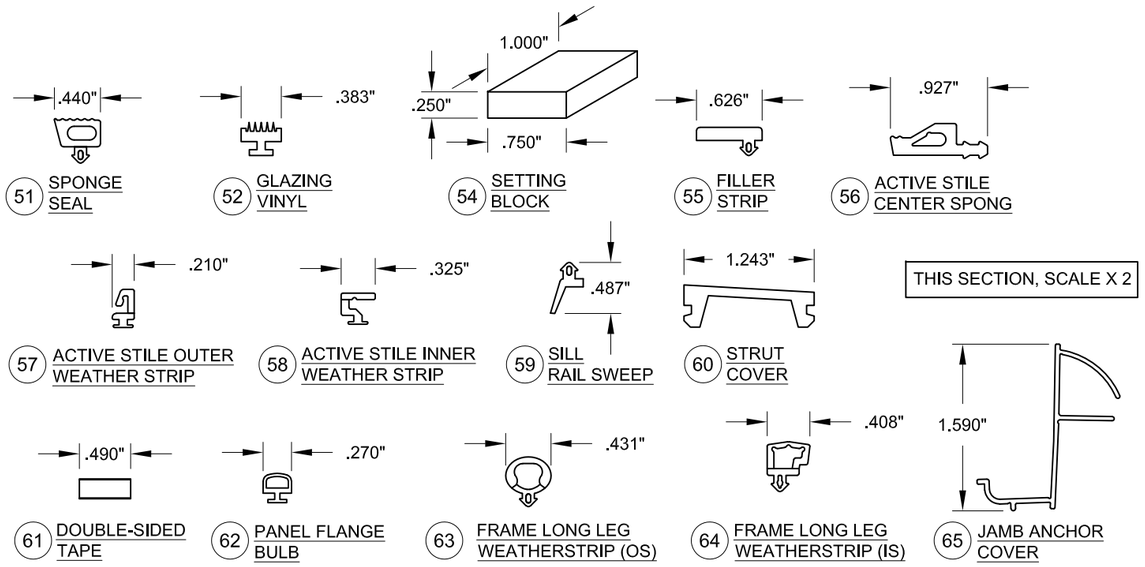


TABLE 6:

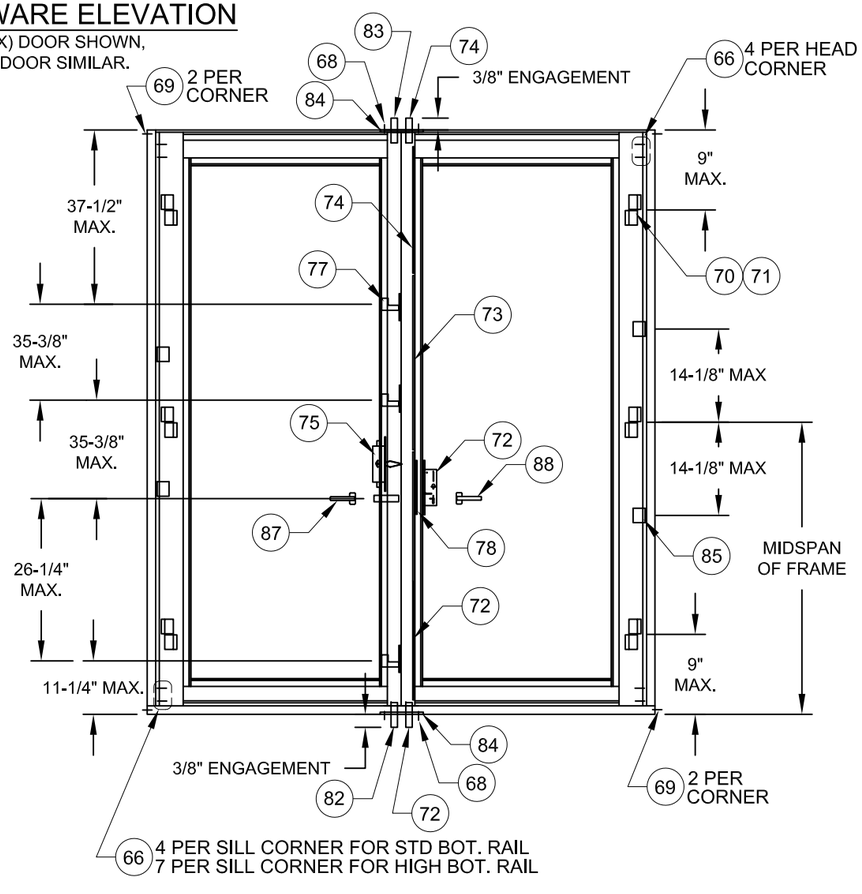
#	Part #	Description	Material
40		Kommerling KodiSpace 4SG TPS	varies
41		Quanex SuperSpacer	varies
42		Metal Spacer	varies
43		Sika 552 Backbedding	
51	W9050-BL-9100E	Sponge Seal, 905VP-22-SEAL	EPDM
52	121006/121007	Glazing Vinyl	EPDM, 80 Duro.
54	121001	Setting Block, 1/4" x 3/4" x 1"	Neoprene, 80 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

TABLE 7:

#	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

HARDWARE ELEVATION

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



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Title	Date	Drawn By	DWG No.	Rev.
ALUMINUM IS/OS TERRACE DOOR (LM)	02/05/19	JENS ROSOWSKI	9050LMTDI-1	A
Desc. MISC. PARTS & BOM			Sheet 9 OF 9	
Series TD9050				

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