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ADDITIONAL DETAILS:

FOR SPECIAL SITE CONDITION, CONTACT HARTMAN WINDOWS AND DOORS, LLC.

TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US BY SCANNING THE QR CODE PROVIDED BELOW OR CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.



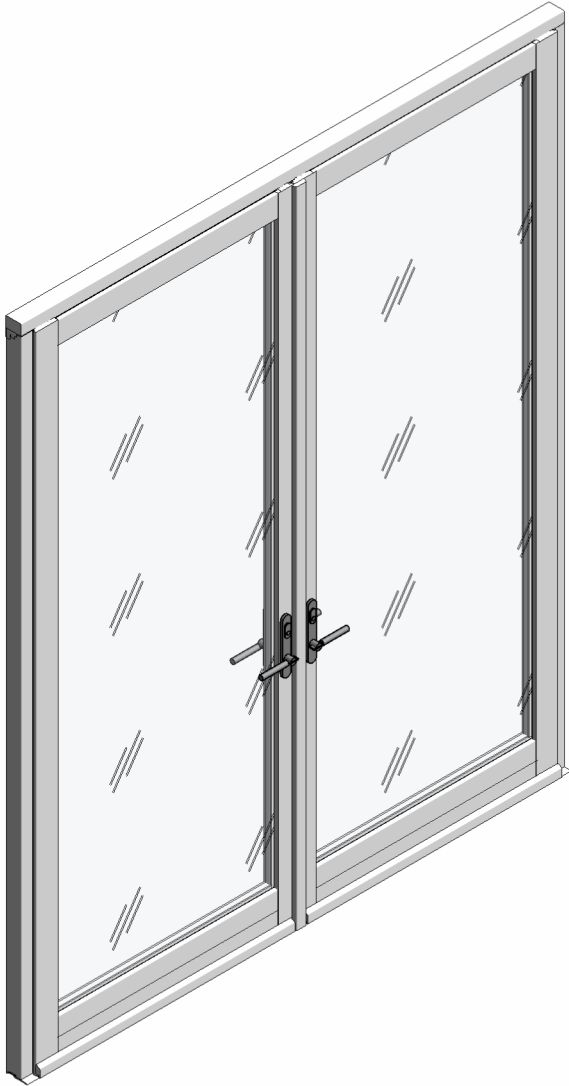
THIS PRODUCT CAN BE COMBINED WITH ANY OTHER FBC APPROVED HARTMAN'S PRODUCTS. PLEASE REFER TO HARTMAN'S FBC APPROVED EUROPEAN MULLIONS TO DETERMINE THE APPROVED MULLION SIZES AND PRESSURES. WHEN MULLED COMBINATIONS ARE USED, THE LOWER DESIGN PRESSURE FROM EACH PRODUCT WILL APPLY TO THE ENTIRE SYSTEM. FINAL APPROVAL OF ALL DESIGNS SHALL BE GRANTED BY THE GOVERNING MUNICIPALITY.

DESIGN PRESSURES:

DOUBLE DOOR (XX): SEE SHEET 102
SINGLE DOOR (X): SEE SHEET 102

- GENERAL NOTES:**
- THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE BOTH WITHIN AND OUTSIDE THE HIGH-VELOCITY HURRICANE ZONE (HVHZ) PER TAS 201/202/203.
 - THE GLASS CAPACITIES SPECIFIED IN THE CHARTS OF THIS CERTIFICATION ARE BASED ON ASTM E1300-16, UTILIZING A 3-SECOND GUST WIND SCENARIO.
 - THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
 - THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
 - THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.
 - THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.
 - THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.

- APPROVAL APPLIES TO SINGLE OPERATING (X), STATIONARY (O) AND DOUBLE OPERATING (XX) UNITS.
- ALSO SIDE BY SIDE COMBINATIONS OF OPERATING/OPERATING OR OPERATING/STATIONARY UNITS IN MODULES OF TWO OR MORE WINDOWS

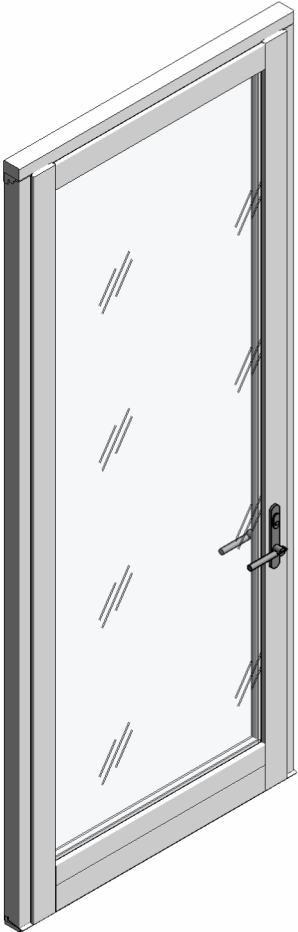


DOUBLE DOOR (XX)

HARTMAN WINDOWS & DOORS, LLC.

EUROPEAN OUTSWING WOOD PATIO DOOR

(LARGE AND SMALL MISSILE IMPACT RATED)



SINGLE DOOR (X)

- THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
- THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
- THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.
- THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).
- FASTENERS MUST BE CADMIUM PLATED OR COMPOSED OF OTHERWISE CORROSION-RESISTANT MATERIAL, CONFORMING TO "SPECIFICATIONS FOR ALUMINUM STRUCTURES" AS OUTLINED IN SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., IN ADDITION TO ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.

- NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
- ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
- PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
- EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
HARTMAN WINDOWS AND DOORS, LLC
2107 WEST BLUE HERON BLVD
WEST PALM BEACH, FLORIDA 33404
TAS 201/202/203
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL #20652.4

THIS PRODUCT IS APPROVED FOR IMPACT RESISTANCE LEVED 'D'.

FL#20652.4



JAVAD AHMAD PE, inc

7875 NW 12th St., Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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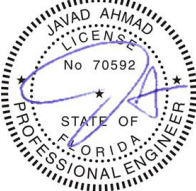
EUROPEAN OUTSWING WOOD PATIO DOOR

(LARGE AND SMALL MISSILE IMPACT RATED)

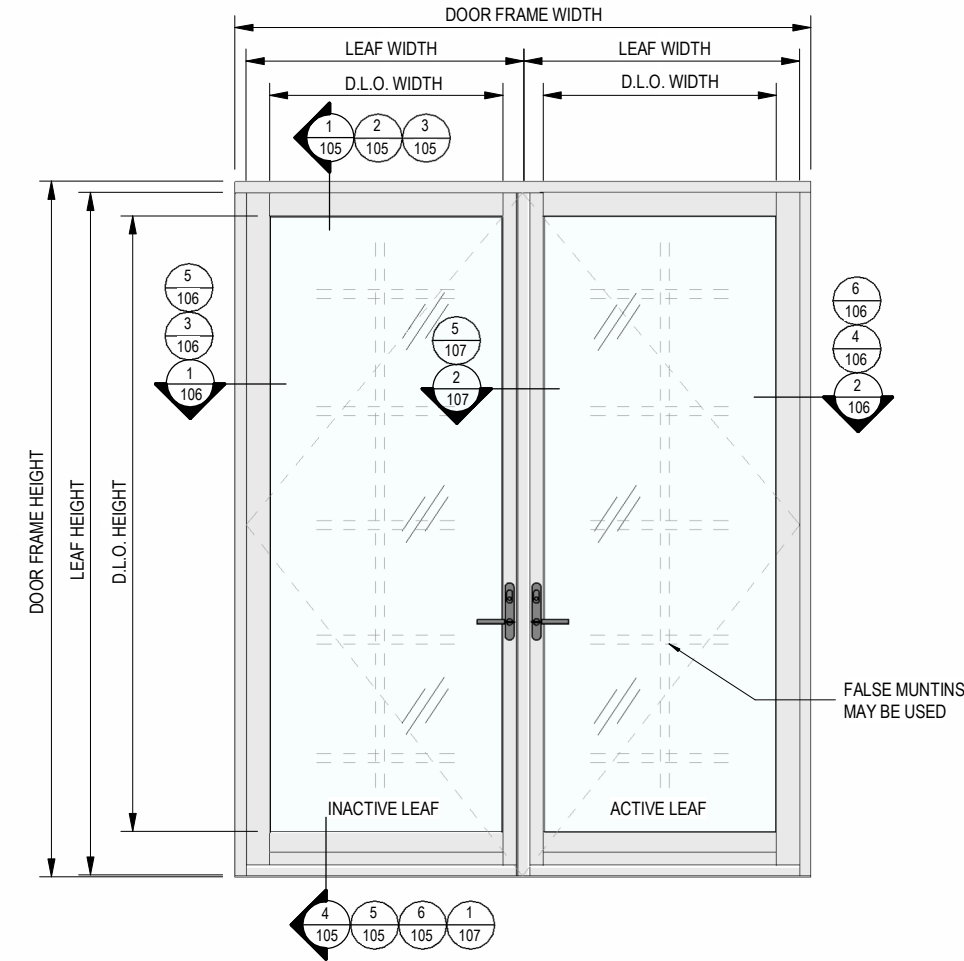
HARTMAN WINDOWS & DOORS, LLC.

2107 W. BLUE HERON BLVD.
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PHN. (561) 296-9600

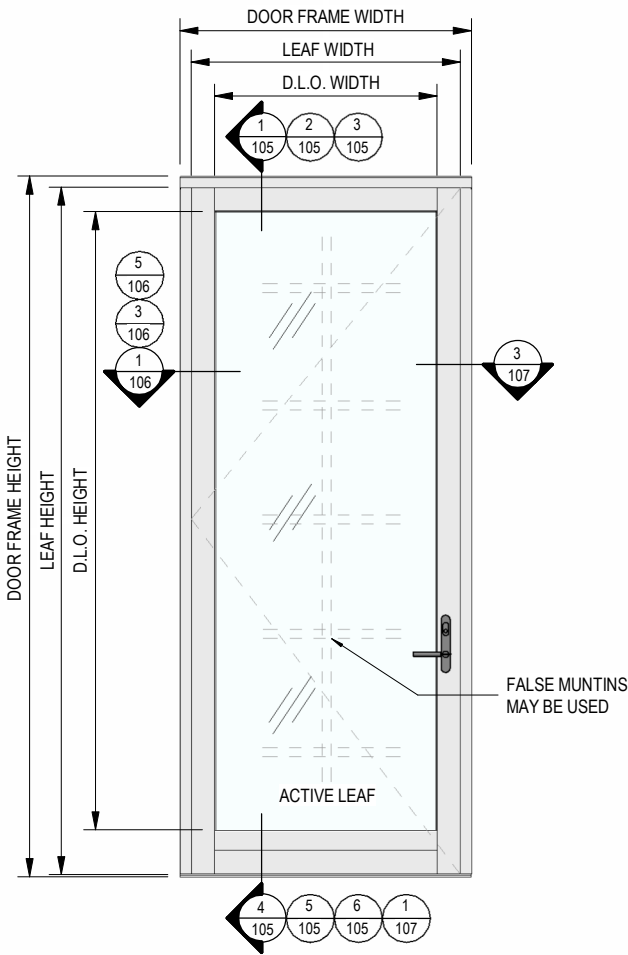
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1
102
DOUBLE DOOR (XX) ELEVATION
N.T.S.



2
102
SINGLE DOOR (X) ELEVATION
N.T.S.

LOADING CHART FOR DOUBLE DOOR X-X			
PRESSURES IN P.S.F. (ASD)			
GLASS TYPES: A, B, C, D, E, F, G, I, H, J, K, L			
DOOR FRAME WIDTH (in.)	DOOR FRAME HEIGHT (in.)		
	80, 84, 90, 96	102, 108, 114	120
36	70 / -70	70 / -70	70 / -70
42	70 / -70	70 / -70	70 / -70
48	70 / -70	70 / -70	70 / -70
54	70 / -70	70 / -70	70 / -70
60	70 / -70	70 / -70	70 / -70
66	70 / -70	70 / -70	70 / -70
72*	70 / -70	70 / -70	70 / -70
78	70 / -70	70 / -70	70 / -70
84	70 / -70	70 / -70	70 / -70
90	70 / -70	70 / -70	70 / -70
96	70 / -70	70 / -70	70 / -70
98.75	70 / -70	70 / -70	70 / -70
102	70 / -70	67 / -67	—

* FOR WOODEN PANELS K AND L, MAXIMUM FRAME WIDTH IS 72".

LOADING CHART FOR SINGLE DOOR (X) - PRESSURES IN P.S.F. (ASD)					
GLASS TYPES A, B, C, D, E, F, G, I, H, J, K, L					
DOOR FRAME WIDTH (IN.)	DOOR FRAME HEIGHT (in.)				
	80, 84, 90, 96, 102, 108, 114, 120*	126	132	138	144
24	70 / -70	70 / -70	70 / -70	70 / -70	70 / -70
30	70 / -70	70 / -70	70 / -70	70 / -70	70 / -70
36	70 / -70	70 / -70	70 / -70	70 / -70	66 / -66
38*	70 / -70	70 / -70	70 / -70	68 / -68	62 / -62
42	70 / -70	70 / -70	69 / -69	63 / -63	57 / -57
46	70 / -70	70 / -70	63 / -63	—	—
51.75	70 / -70	—	—	—	—

* FOR WOODEN PANELS K AND L, MAXIMUM FRAME DIMENSION IS 72" X 120".



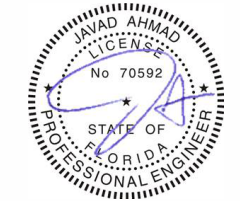
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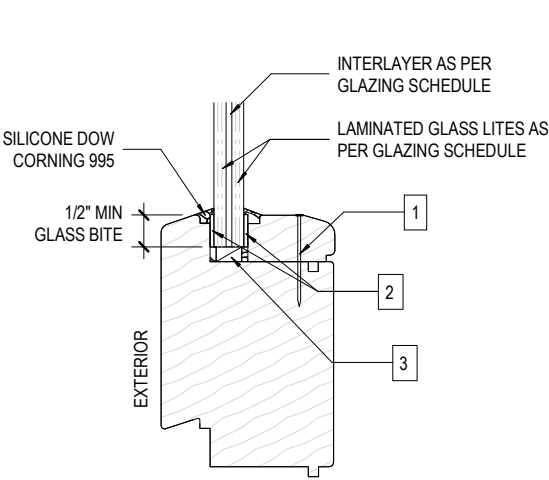
**EUROPEAN OUTSWING WOOD
PATIO DOOR**
(LARGE AND SMALL MISSILE IMPACT RATED)

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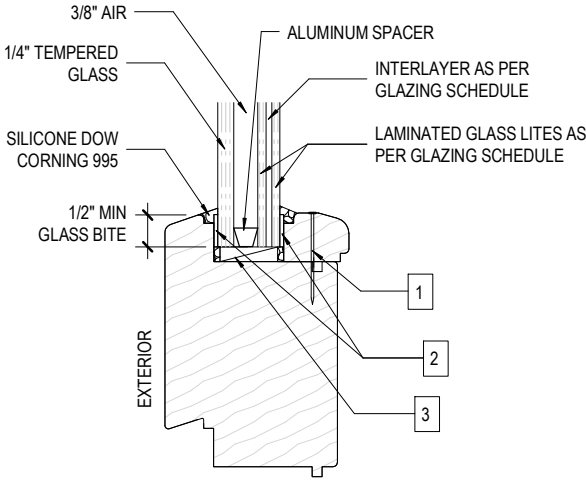
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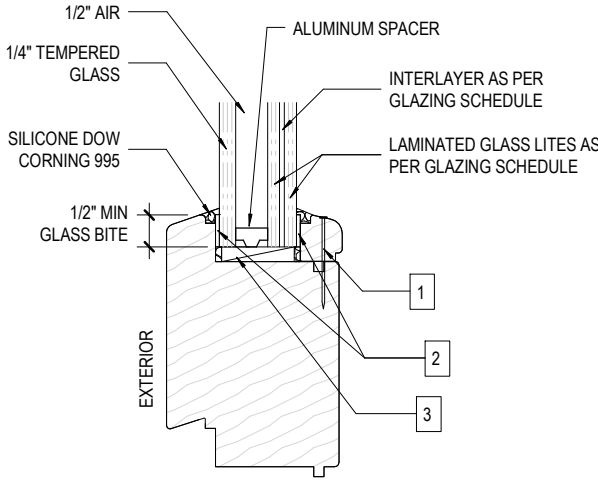
Sealed: 04-24-2024



1
103 GLAZING DETAIL FOR GLASS TYPE A, B, C, D, E, F
N.T.S.

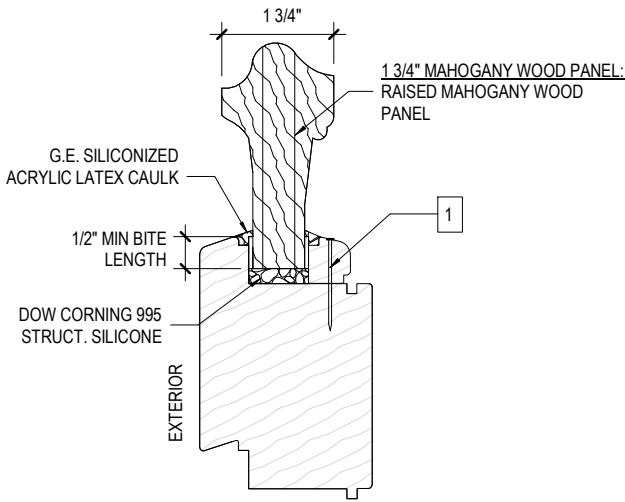


2
103 GLAZING DETAIL FOR GLASS TYPE HI, II
N.T.S.

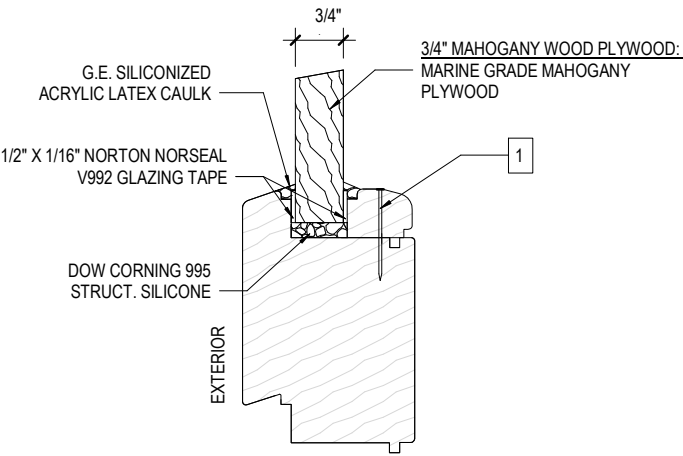


3
103 GLAZING DETAIL FOR GLASS TYPE GI, JI
N.T.S.

- 1
- 18 GA. X 1 1/2" BRAD NAILS AT 3" FROM ENDS AND 8" O.C. MAX
- 2
- GLAZING TAPE 1/16" X 1/2" NORTON HPF970
- 3
- NEOPRENE SETTING BLOCK 80 ± 5 DUROMETER AT 1/4 POINTS



4
103 GLAZING DETAIL FOR WOOD PANEL TYPE K
N.T.S.



5
103 GLAZING DETAIL FOR WOOD PANEL TYPE L
N.T.S.

GLAZING SCHEDULE

GLASS TYPE	LAMINATED GLASS LITE		INTERLAYER	REF. DETAIL
A	3/16" ANNEALED GLASS		0.09" PVB INTERLAYER	1/ 103
B	3/16" HEAT STREN'D GLASS		0.09" PVB INTERLAYER	
C	3/16" HEAT STREN'D GLASS		0.09" SENTRYGLAS INTERLAYER	
D	3/16" ANNEALED GLASS		0.09" SENTRYGLAS INTERLAYER	
E	1/4" HEAT STREN'D GLASS		0.09" SENTRYGLAS INTERLAYER	
F	1/4" HEAT STREN'D GLASS		0.075" PVB INTERLAYER	
GLASS TYPE	EXTERIOR GLASS LITE	LAMINATED GLASS LITE	INTERLAYER	REF. DETAIL
GI	1/4" TEMPERED GLASS	3/16" HEAT STREN'D GLASS	0.075" PVB INTERLAYER	3/ 103
HI	1/4" TEMPERED GLASS	1/8" ANNEALED GLASS	0.09" SENTRYGLAS INTERLAYER	2/ 103
II	1/4" TEMPERED GLASS	1/4" HEAT STREN'D GLASS	0.09" SENTRYGLAS INTERLAYER	2/ 103
JI	3/16" TEMPERED GLASS	3/16" HEAT STREN'D GLASS	0.09" SENTRYGLAS INTERLAYER	3/ 103



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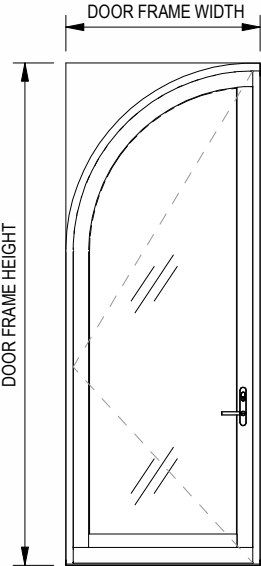
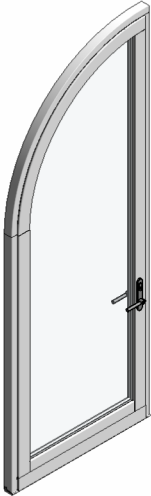
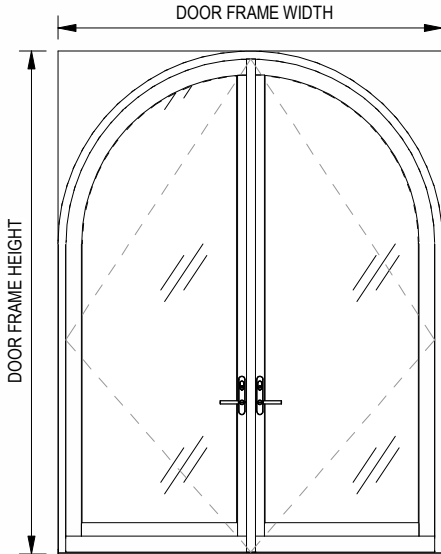
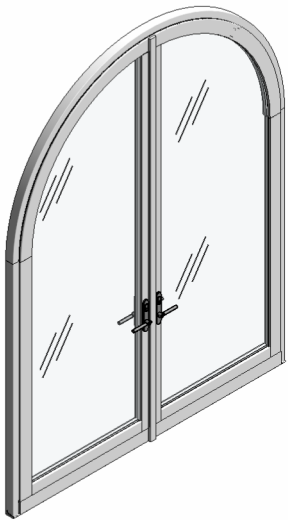


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DOOR HARDWARE:

LOCKS:

SINGLE LEAF DOORS:

5 POINT LOCKING SYSTEM BY 'GU' WITH KEEPERS ON FRAME AND SHOOT BOLTS ENGAGING SIMULTANEOUSLY AT HEAD & SILL ACTUATING HANDLE AT 37" FROM BOTTOM.
DEAD BOLT LOCK AT 33-1/2" FROM BOTTOM.
7-1/16" LONG KEEPERS AT 19" AND 53-1/2" FROM BOTTOM FASTENED W/ (2) #8 X 1-3/4" FH SMS 9-5/8" LONG KEEPER AT 39-1/2" FROM BOTTOM FASTENED W/ (3) #8 X 1-3/4" FH SMS.

DOUBLE LEAF DOORS (ACTIVE LEAF):

5 POINT LOCKING SYSTEM BY 'GU' WITH KEEPERS ON IN-ACTIVE LOCK STILE AND SHOOT BOLTS ENGAGING SIMULTANEOUSLY AT HEAD & SILL ACTUATING HANDLE AT 37" FROM BOTTOM.
DEAD BOLT LOCK AT 35-1/2" FROM BOTTOM. 7-1/16" LONG KEEPERS AT 19" AND 53-1/2" FROM BOTTOM, FASTENED W/ (2) #8 X 1-3/4" FH SMS 9-5/8" LONG KEEPER AT 39-1/2" FROM BOTTOM FASTENED W/ (3) #8 X 1-3/4" FH SMS.

DOUBLE LEAF DOORS (INACTIVE LEAF):

2 POINT LOCKING SYSTEM BY 'GU' WITH SHOOT BOLTS ENGAGING SIMULTANEOUSLY AT HEAD AND SILL ACTUATING HANDLE AT 39" FROM BOTTOM.

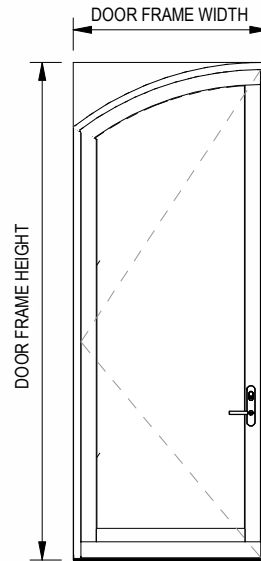
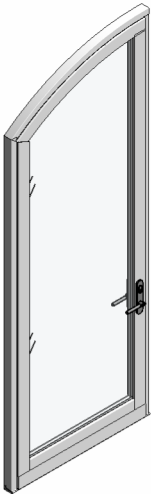
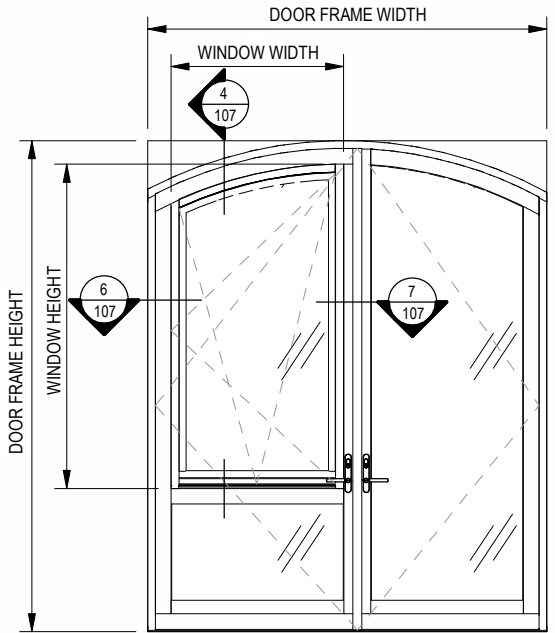
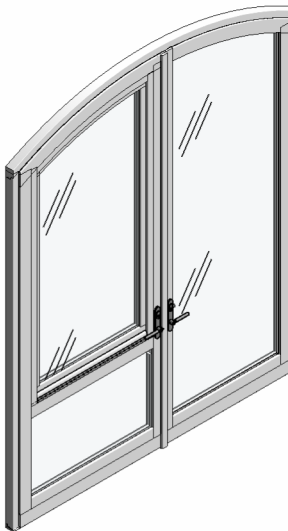
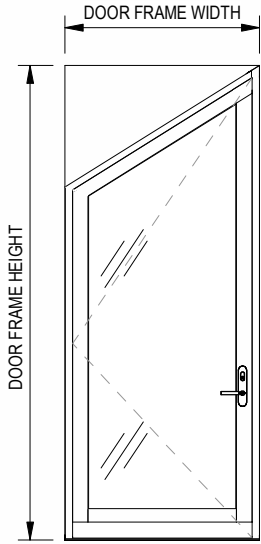
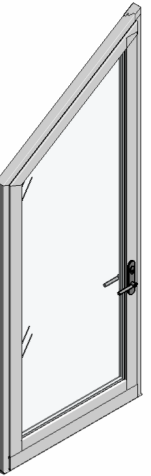
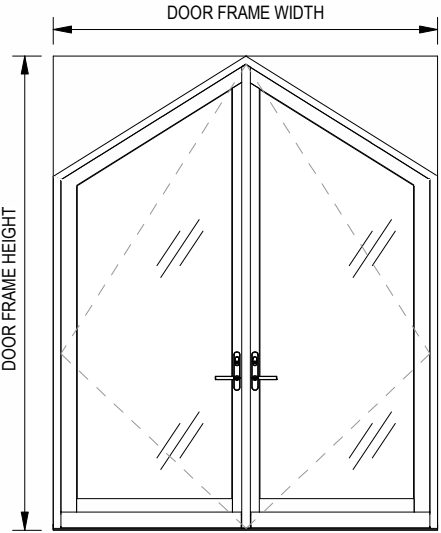
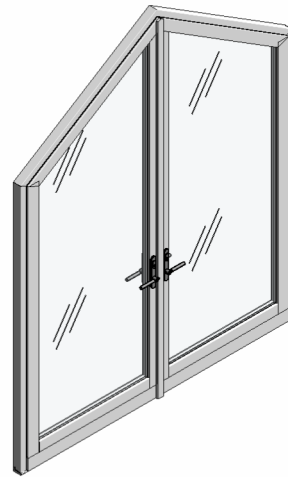
HINGES:

5/8" X 3-1/4" ST. STEEL TWO PIECE DRIVE-IN BARREL HINGES AT 6" FROM TOP & BOTTOM AND 17" O.C. MAX.

WEEP HOLES:

W1 = 3/16" X 1" WEEP HOLES AT TWO PER LEAF.

TO OBTAIN ALLOWABLE PRESSURES FOR ALTERNATIVE WINDOW SHAPES:
- INSCRIBE ALTERNATIVE SHAPE IN A RECTANGULAR BOX, AS SHOWN HERE.
- USE THE WIDTH AND HEIGHT OF THE BOX TO DETERMINE THE ALLOWABLE PRESSURES.

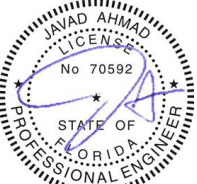


DOOR LEAF WITH HARTMAN TILT & TURN CASEMENT WINDOW. SEE SEPARATE APPROVAL FOR WINDOW CAPACITY. LOWER CAPACITY OF CASEMENT WINDOW OR OUTSWING DOOR WILL CONTROL.

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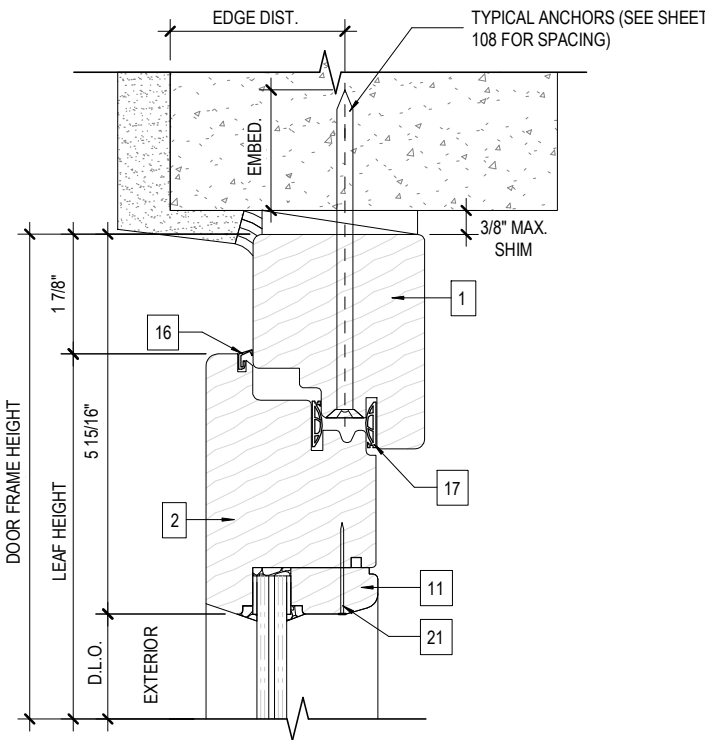
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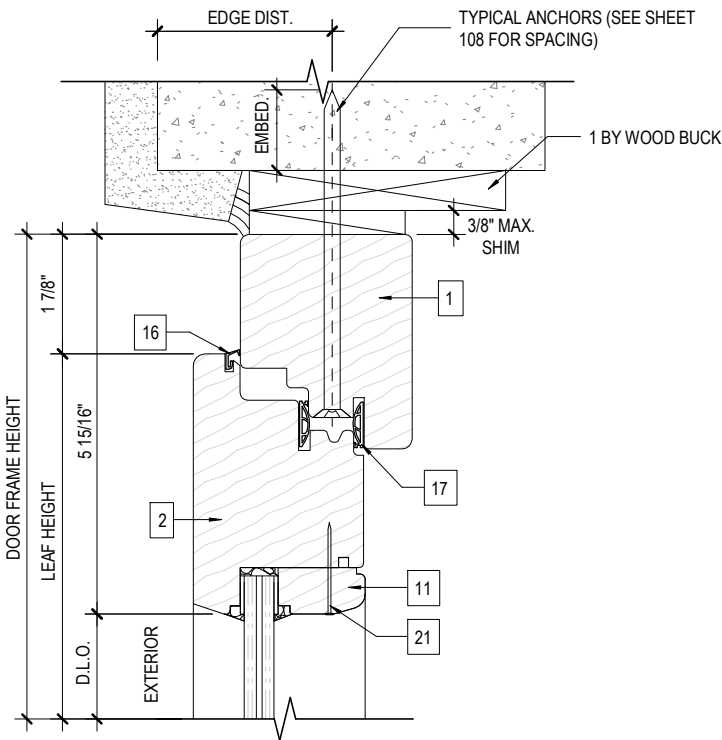
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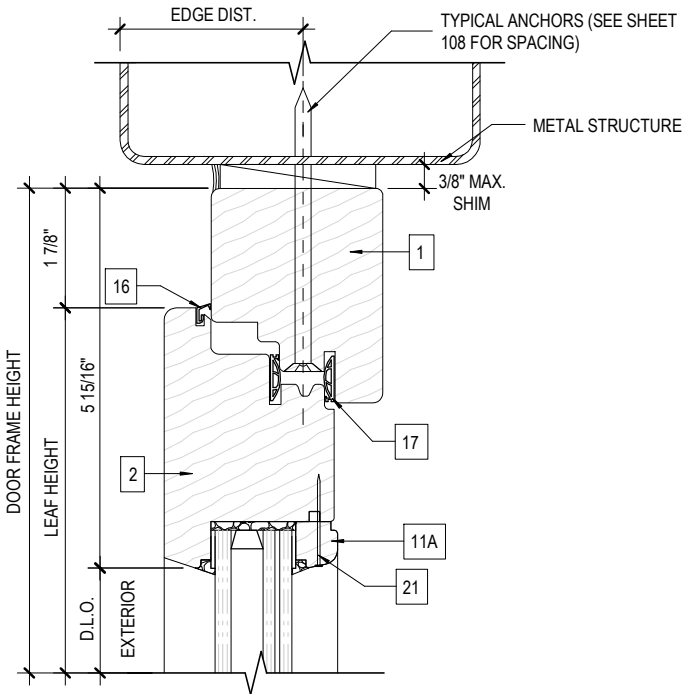
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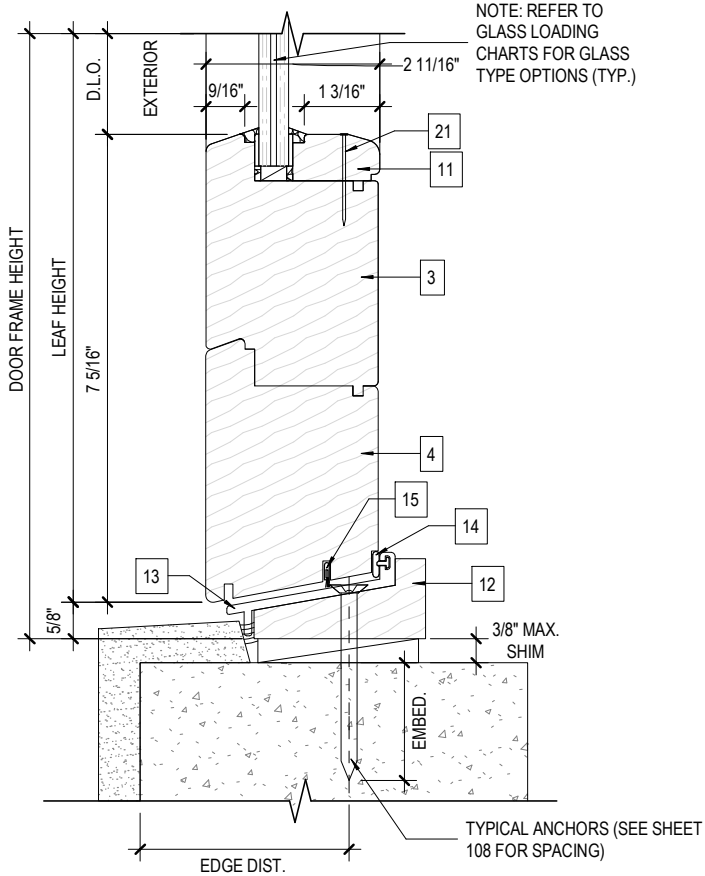
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105 N.T.S.



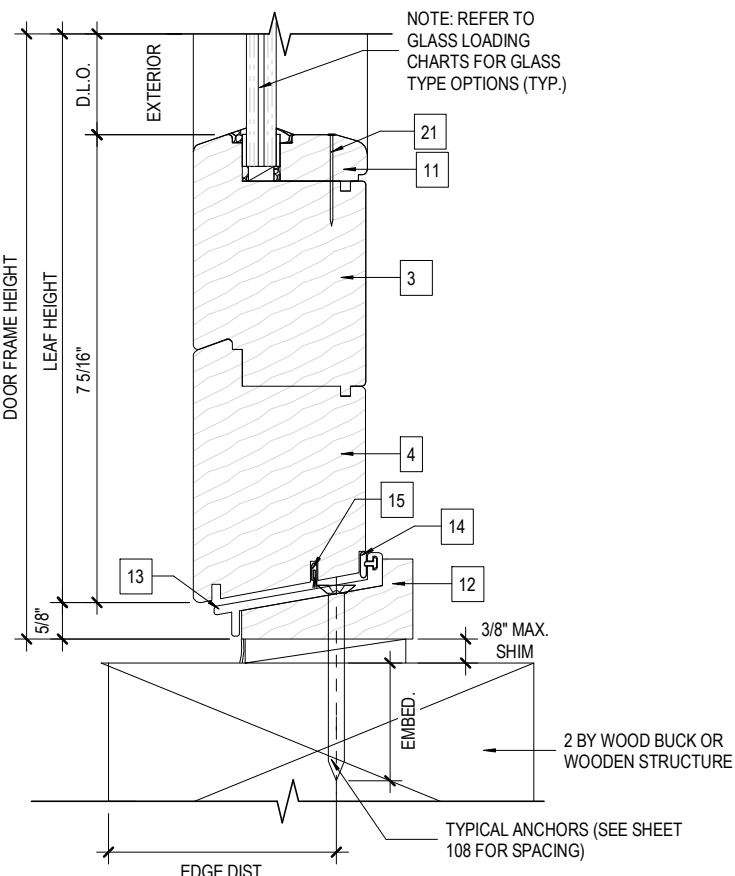
2 HEAD DETAIL 2
105 N.T.S.



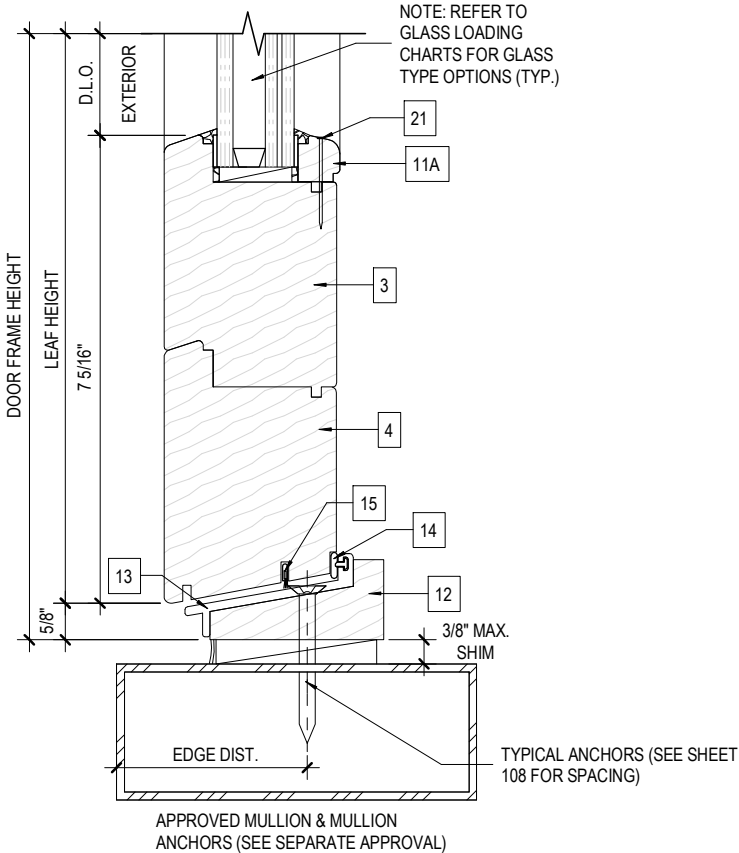
3 HEAD DETAIL 3
105 N.T.S.



4 SILL DETAIL 1
105 N.T.S.



5 SILL DETAIL 2
105 N.T.S.



6 SILL DETAIL 3
105 N.T.S.

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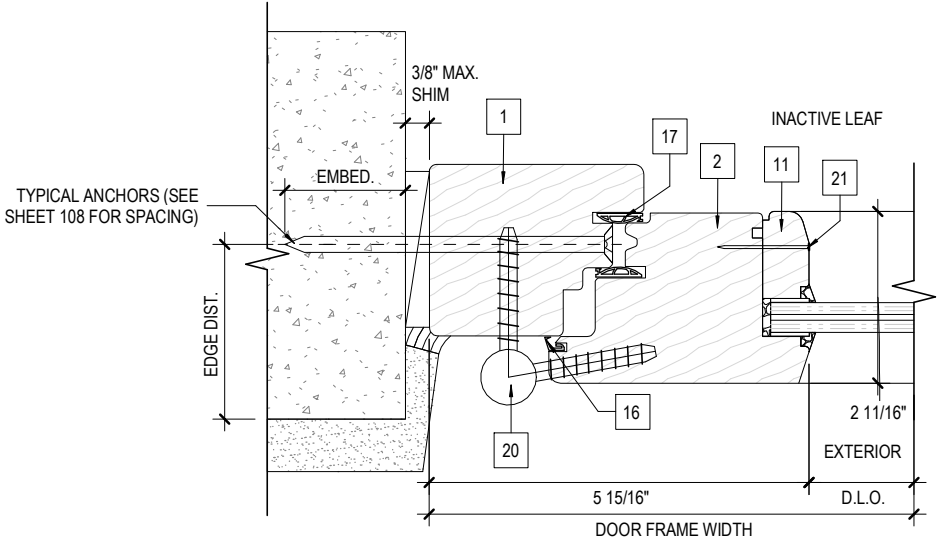
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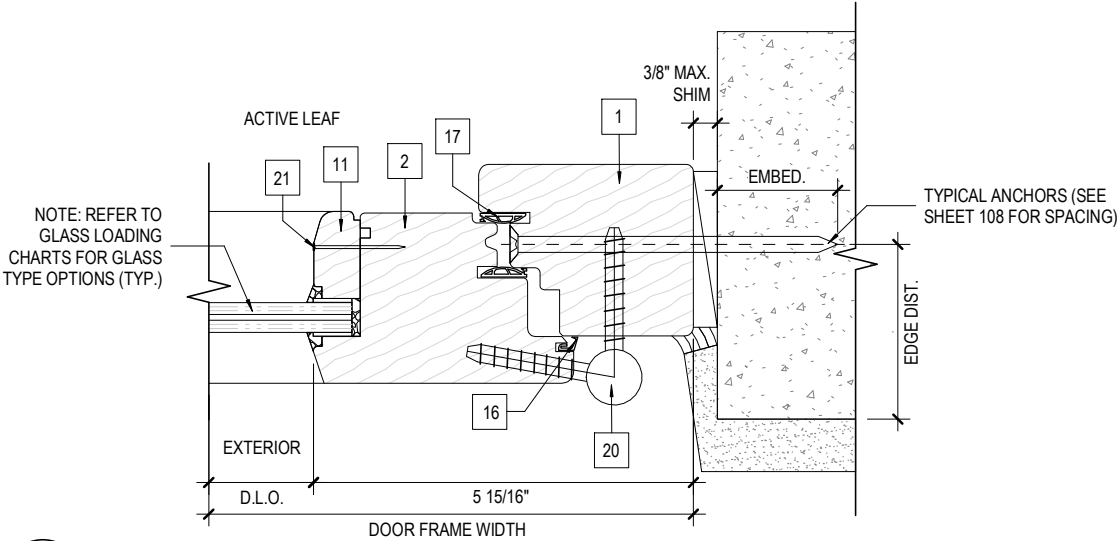
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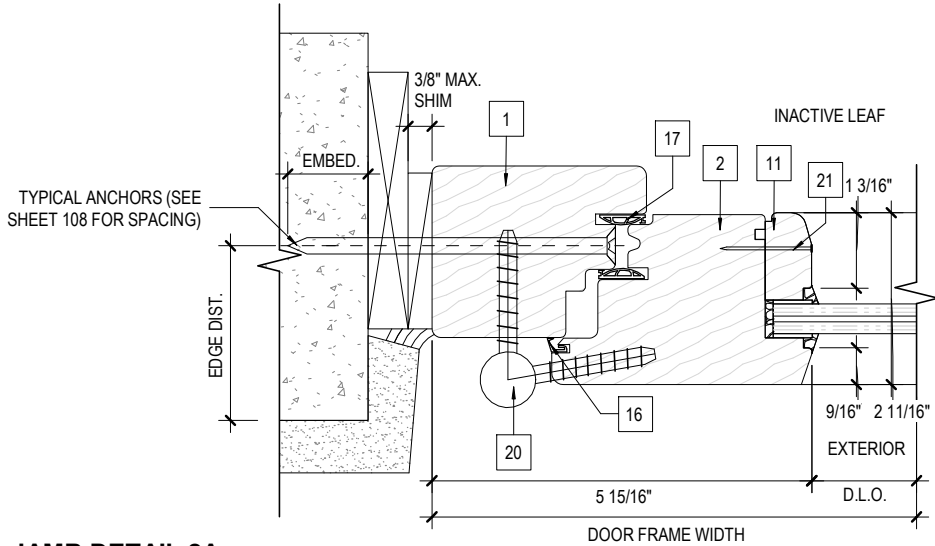
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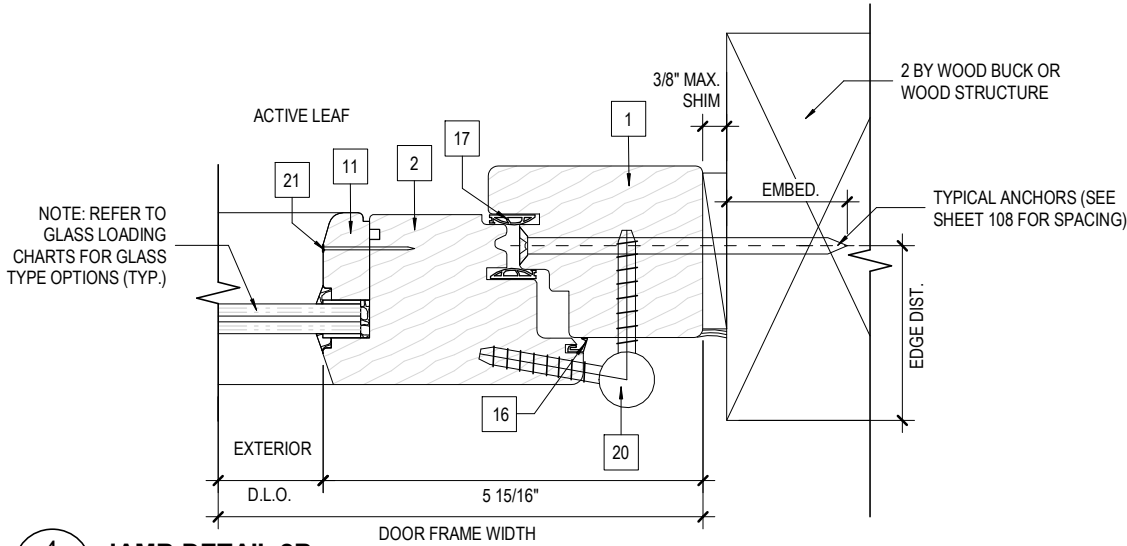
1
106 JAMB DETAIL 1A
N.T.S.



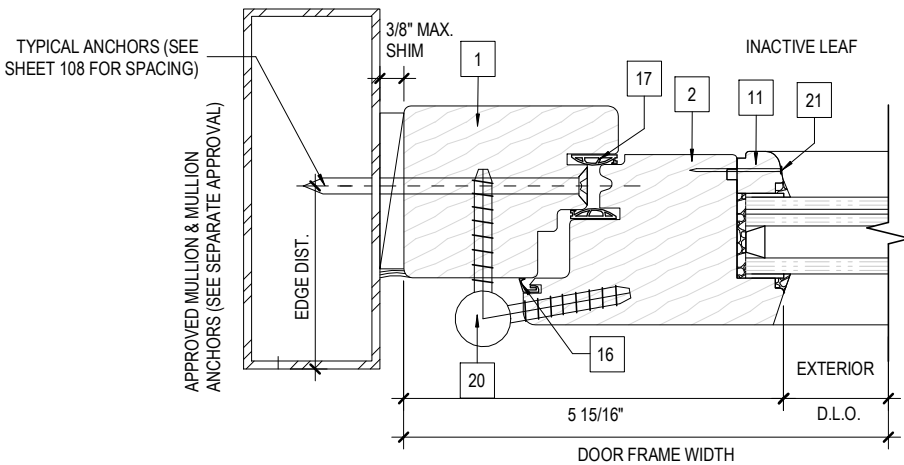
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106 JAMB DETAIL 1B
N.T.S.



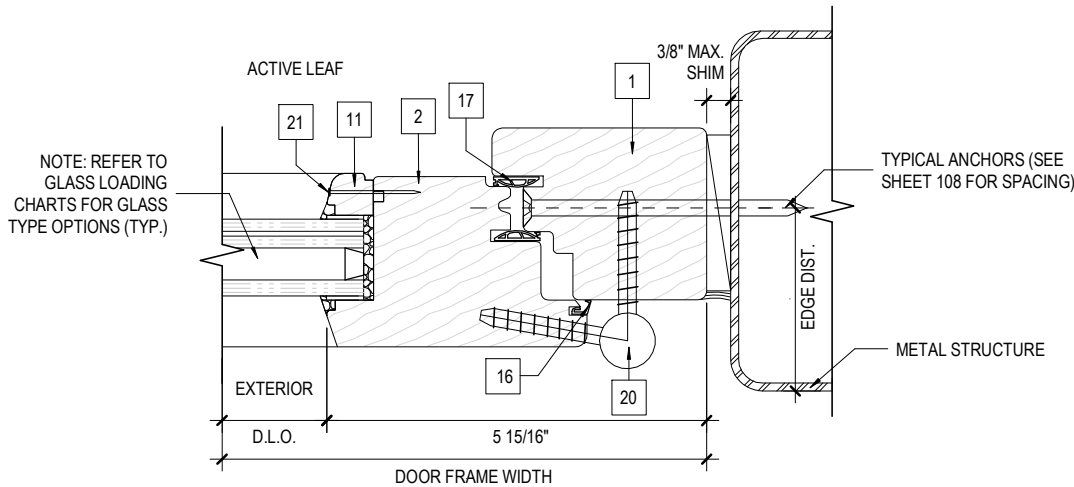
3
106 JAMB DETAIL 2A
N.T.S.



4
106 JAMB DETAIL 2B
N.T.S.



5
106 JAMB DETAIL 3A
N.T.S.



6
106 JAMB DETAIL 3B
N.T.S.

EUROPEAN OUTSWING WOOD
PATIO DOOR
(LARGE AND SMALL MISSILE IMPACT RATED)

HARTMAN WINDOWS & DOORS, LLC.
2107 W. BLUE HERON BLVD.
WEST PALM BEACH, FL 33404
PHN. (561) 296-9600

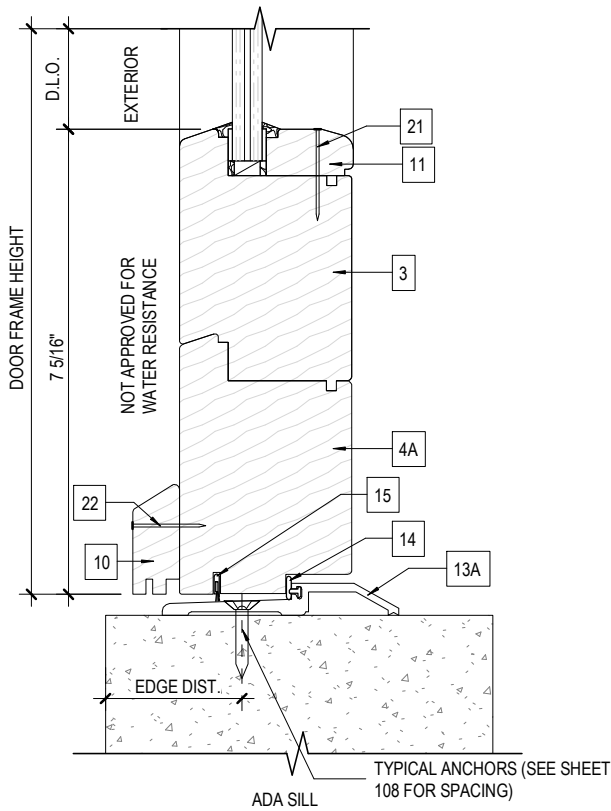
drawing no.	date:	JA-1425-23	drawn by:	check by:	REVISION			
					No.	DATE	BY	DESCRIPTION



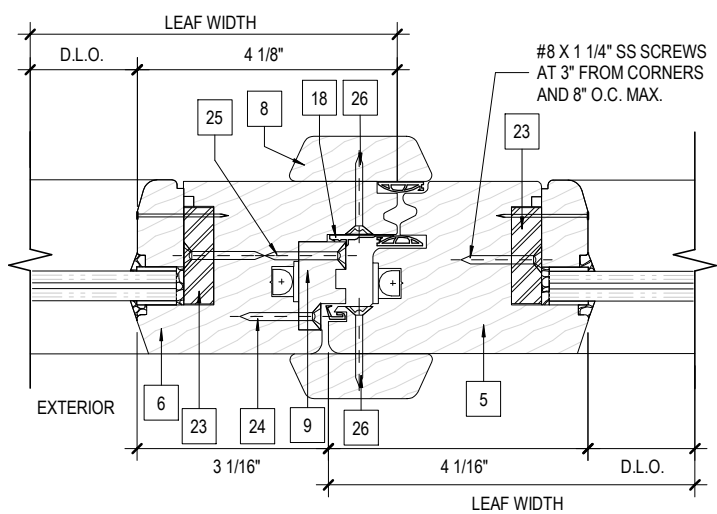
Sealed: 04-24-2024

SECTIONAL DETAILS

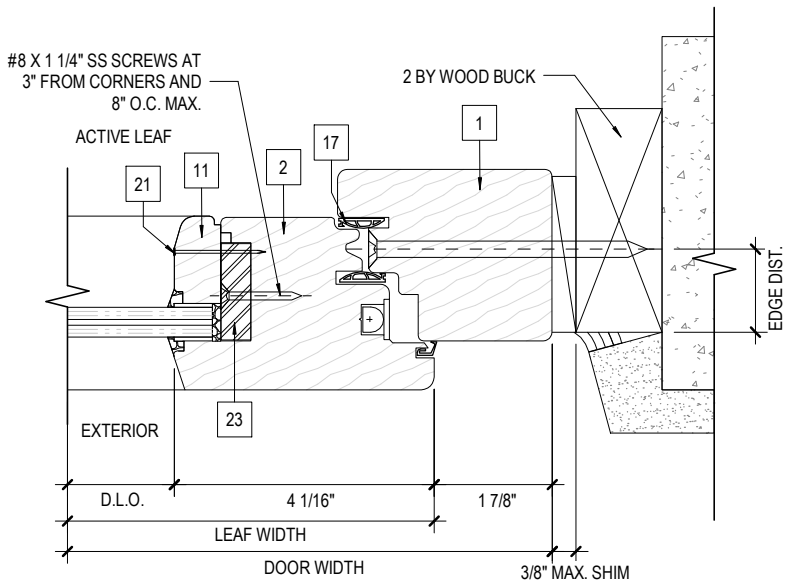
FL#20652.4



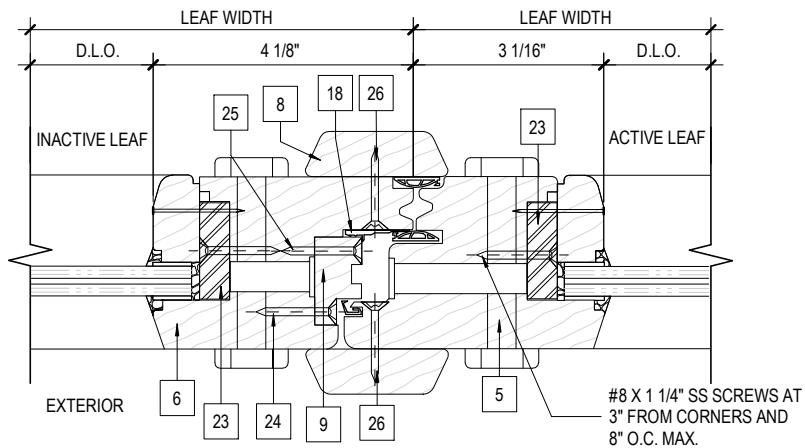
1
107 SILL DETAIL 4
N.T.S.



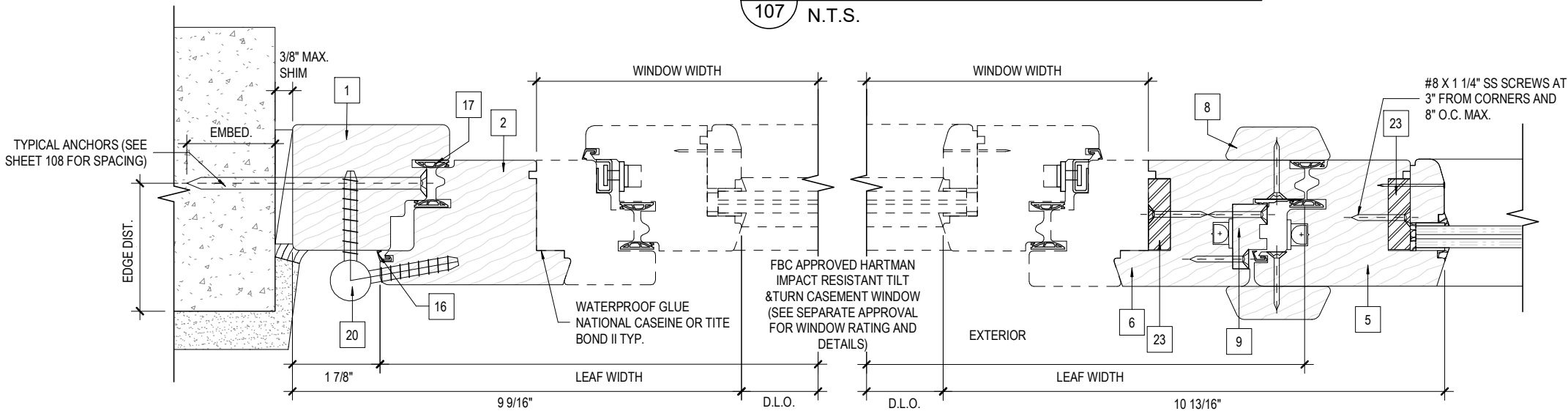
2
107 INTERLOCK DETAIL 1
N.T.S.



3
107 JAMB DETAIL 4
N.T.S.

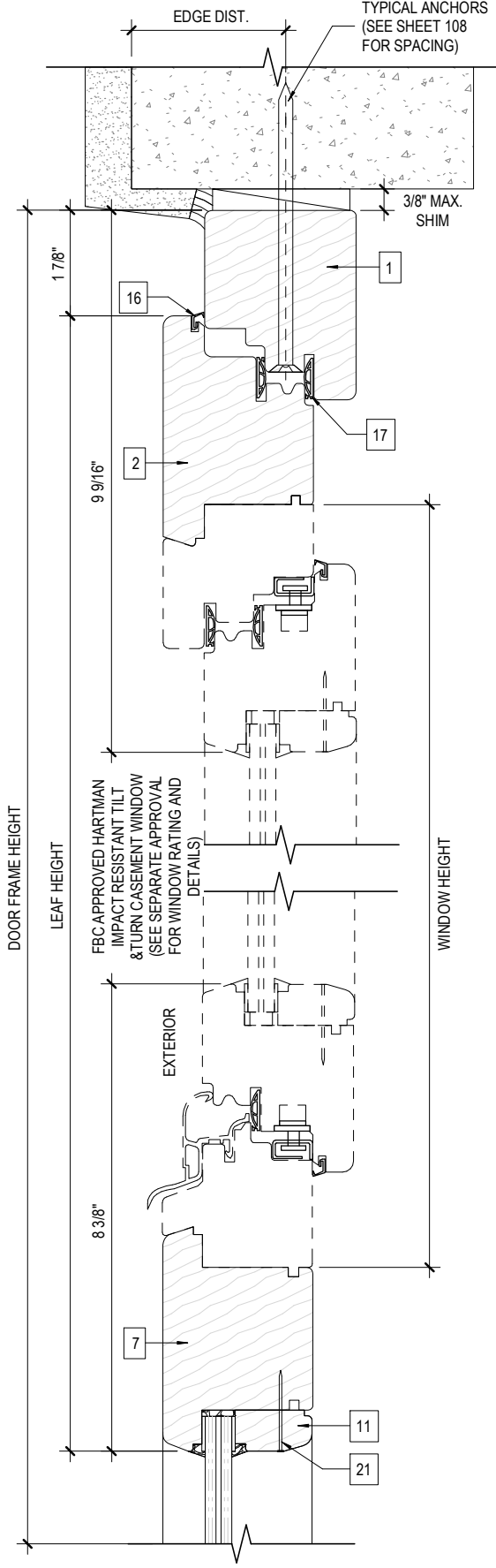


5
107 INTERLOCK DETAIL 2
N.T.S.



6
107 JAMB DETAIL 5
N.T.S.

7
107 INTERLOCK DETAIL 3
N.T.S.



4
107 VERTICAL SECTION
N.T.S.



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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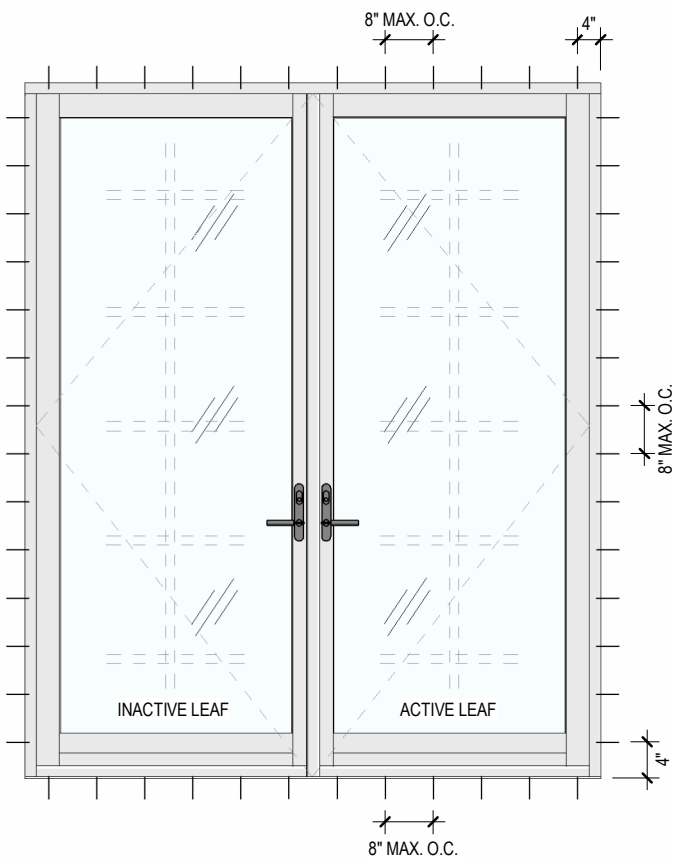
EUROPEAN OUTSWING WOOD PATIO DOOR
(LARGE AND SMALL MISSILE IMPACT RATED)

HARTMAN WINDOWS & DOORS, LLC.
2107 W. BLUE HERON BLVD.
WEST PALM BEACH, FL 33404
PHN. (561) 296-9600

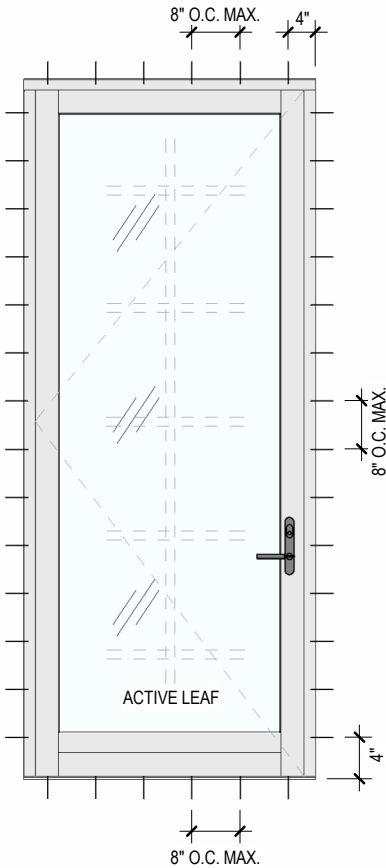
drawing no.	date:	JA-1425-23	drawn by:	check by:	REVISION			
					No.	DATE	BY	DESCRIPTION



Sealed: 04-24-2024



1
108
DOUBLE DOOR (XX) ELEVATION - ANCHORAGE LAYOUT
N.T.S.



2
108
SINGLE DOOR (X) ELEVATION - ANCHORAGE LAYOUT
N.T.S.

TYPICAL ANCHOR TYPES

(APPLIES TO ANCHOR GOING THROUGH THE WINDOW FRAME)

TYPE A - 1/4" DEWALT ULTRAICON (Fu = 177,000 PSI, Fy = 155,000 PSI)
INTO 2BY WOOD WITH 1-1/2" MIN ENGAGEMENT, AND 1-1/4" MIN EDGE DISTANCE

THRU 1BY WOOD INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY WITH
1-3/4" EMBEDMENT, AND 2-1/2" MIN EDGE DISTANCE

DIRECTLY INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY WITH 1-3/4"
EMBEDMENT, AND 2-1/2" MIN EDGE DISTANCE

NOTE:
FOR INSTRUCTIONS TO ANCHOR THIS PRODUCT USING CLIPS, STRAPS OR
ANGLES, PLEASE REFER TO PAGE 109 FOR DETAILING REGARDING THE
ANCHOR TYPE AND SPACING.

TYPE B-1/4" "TEKS" SCREWS* SMS OR SDS (GRADE 5 MIN)
INTO ALUMINUM / STEEL* WITH 5 PITCHES PASSED THE THREAD PLANE, AND 1"
MIN EDGE DISTANCE

INTO APPROVED MULLIONS WITH 5 PITCHES PASSED THE THREAD PLANE, AND
3/4" MIN EDGE DISTANCE

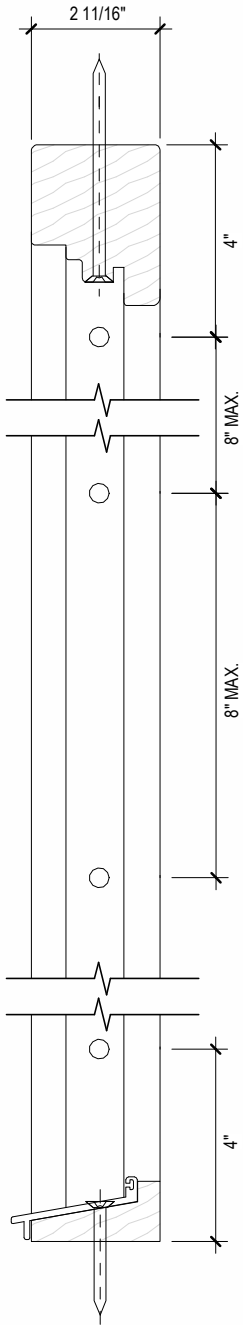
ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD, SILL OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD, SILL OR JAMBS fc= 3000 PSI
- HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'M= 2000 PSI
- STEEL (1/8" THICK, A36 MIN) AT HEAD, SILL OR JAMBS
- ALUMINUM (1/8" THICK, 6063-T6 MIN) AT HEAD, SILL OR JAMBS

- #14 316 SS SMS OR SDS IS PERMITTED TO BE SUBSTITUTED WITH TEKS SCREWS



HEAD/ SILL ANCHORAGE LAYOUT



JAMB ANCHORAGE LAYOUT



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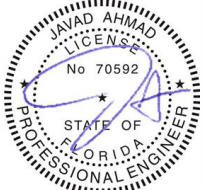
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PATIO DOOR
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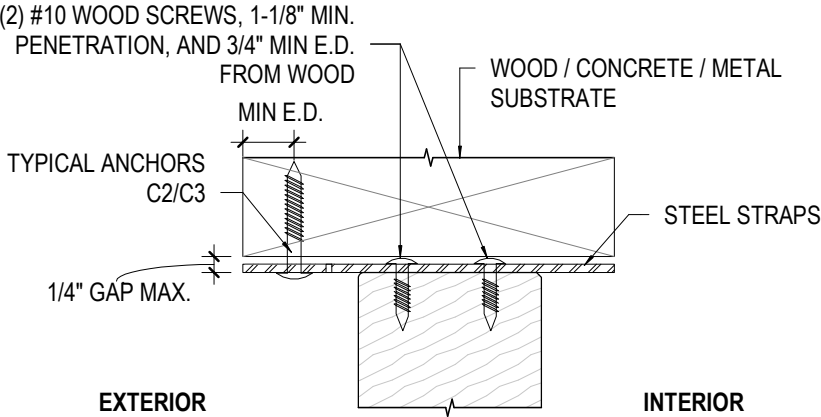
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							No.	DATE	BY	DESCRIPTION

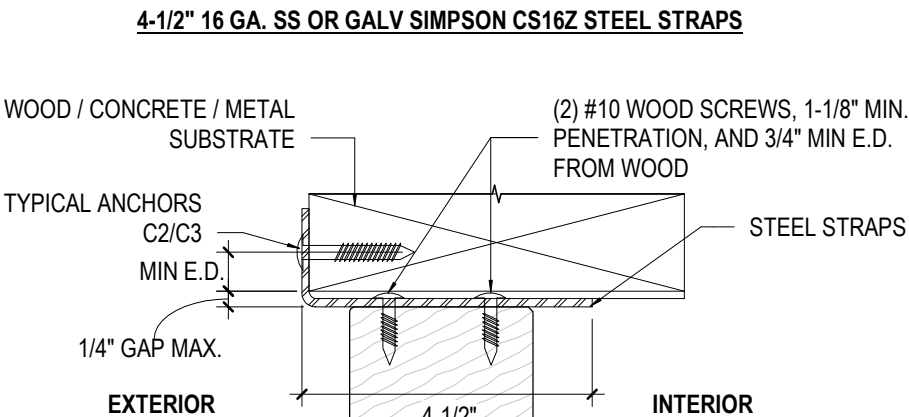


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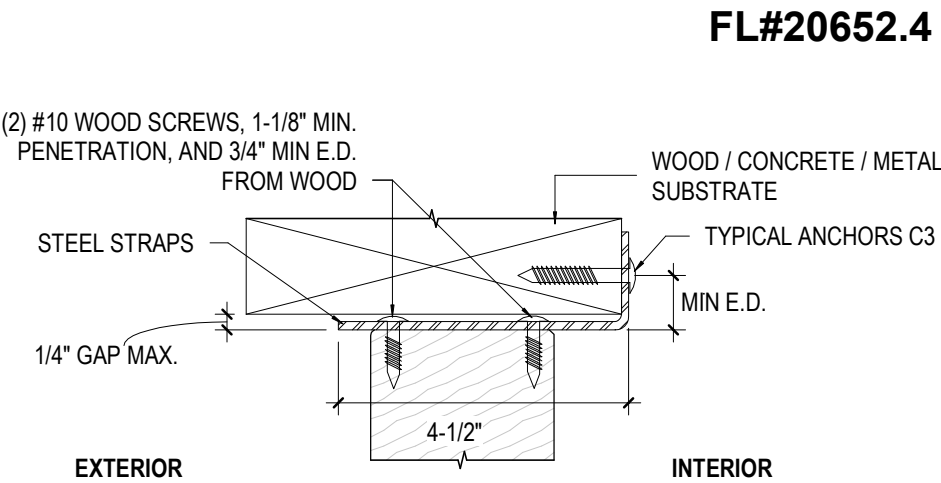
ALTERNATE ANCHORING



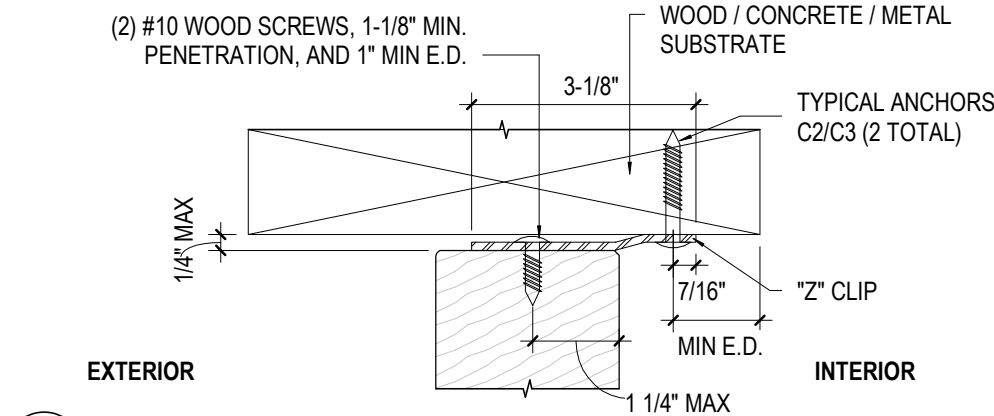
1
109
EXTERIOR FLAT STRAP
N.T.S



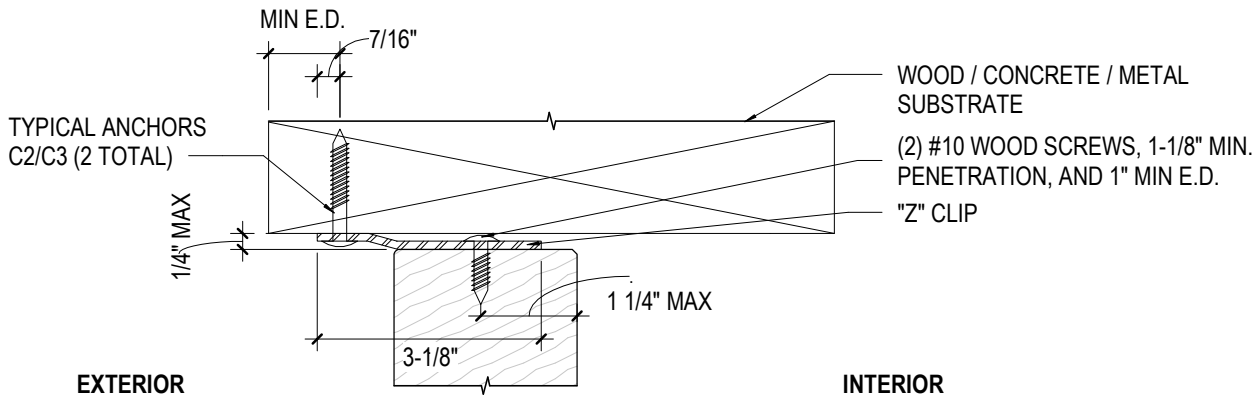
2
109
EXTERIOR BENT STRAP
N.T.S



3
109
INTERIOR BENT STRAP
N.T.S



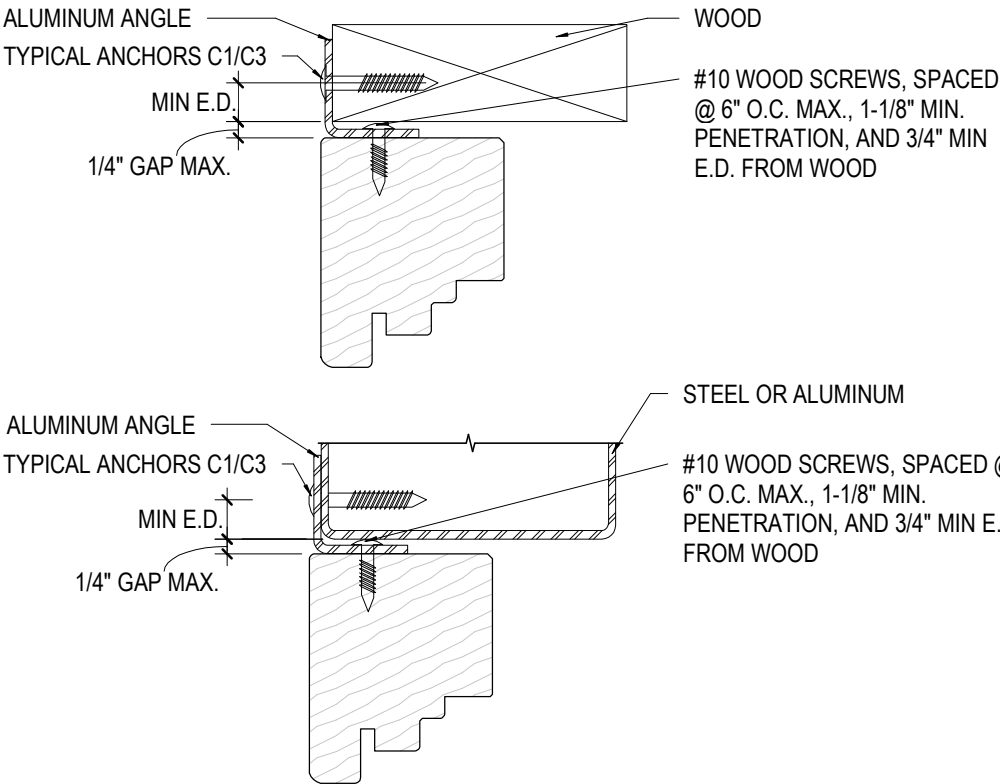
4
109
INTERIOR Z-CLIP STRAP
N.T.S



5
109
EXTERIOR Z-CLIP STRAP
N.T.S

GALVANIZED STEEL "Z" CLIP (14 GA)

1-1/2" X 1-1/2" X 1/8" ALUMINUM ANGLE (CONT.)



TYPICAL ANCHOR TYPES

- TYPE C1 - 1/4" DEWALT ULTRACON (Fu = 177,000 PSI, Fy = 155,000 PSI)**
- INTO 2BY WOOD WITH 1-1/2" MIN EMBEDMENT, AND 3/4" MIN EDGE DISTANCE
- TYPE C2 - 1/4" DEWALT ULTRACON (Fu = 177,000 PSI, Fy = 155,000 PSI)**
- INTO 2BY WOOD WITH 1-1/2" MIN EMBEDMENT, AND 3/4" MIN EDGE DISTANCE
 - DIRECTLY INTO CONCRETE, OR HOLLOW/GROUT FILLED MASONRY* WITH 1-3/4" EMBEDMENT, AND 2-1/2" MIN EDGE DISTANCE
- TYPE C3 - #12 SMS OR SDS (GRADE 5 MIN/316 SS)**
- INTO ALUMINUM / STEEL WITH 5 PITCHES PASSED THE THREAD PLANE, AND 3/4" MIN EDGE DISTANCE
 - INTO APPROVED MULLIONS WITH 5 PITCHES PASSED THE THREAD PLANE, AND 3/4" MIN EDGE DISTANCE
 - INTO 2BY WOOD WITH 1-1/2" MIN ENGAGEMENT, AND 3/4" MIN EDGE DISTANCE

SUBSTRATE NOTES:

- WOOD AT HEAD, SILL OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD, SILL OR JAMBS f'c= 3000 PSI
- HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
- STEEL (1/8" THICK, A36 MIN) AT HEAD, SILL OR JAMBS
- ALUMINUM (1/8" THICK, 6063-T6 MIN) AT HEAD, SILL OR JAMBS

NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (EXAMPLE: STEEL WITH ALUMINUM)

ANCHOR LAYOUT / SPACING:

- FOR 1-1/2" X 1-1/2" X 1/8" ALUMINUM ANGLE (CONT.):
- ANCHORS C1/C2/C3 SHALL BE PLACED AT-
- MAX. 6" O.C. SPACING
 - MAX. 3" FROM UNIT CORNER FOR HEAD
 - MAX. 4" FROM UNIT CORNER FOR JAMB

FOR GALVANIZED STEEL "Z" CLIP (14 GA) OR 4-1/2" 16 GA. SS OR GALV SIMPSON CS16Z STEEL STRAPS-

ANCHORS C1/C2/C3 SHALL BE PLACED AS PER ANCHOR LAYOUT SHOWN ON SHEET 108

- THE STEEL CLIPS SHALL BE PLACED AT-
- MAX. 8" O.C. SPACING
 - MAX. 3" FROM UNIT CORNER FOR HEAD
 - MAX. 4" FROM UNIT CORNER FOR JAMB

FL#20652.4



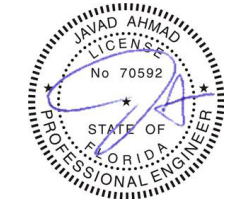
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EUROPEAN OUTSWING WOOD
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JA-1425-23	04-24-2024						



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PARTS LIST

FL#20652.4



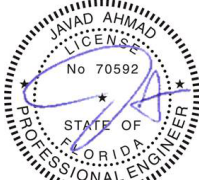
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**EUROPEAN OUTSWING WOOD
PATIO DOOR**
(LARGE AND SMALL MISSILE IMPACT RATED)

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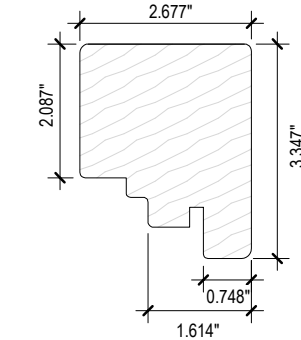
Sealed: 04-24-2024

110

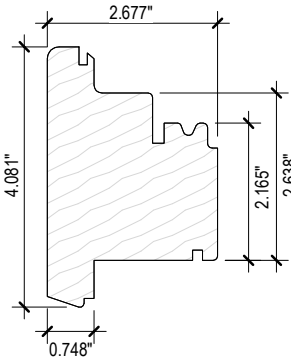
110 OF 111

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	3/ DOOR	FRAME HEAD/ JAMB	WOOD	MAHOGANY
2	—	2/ LEAF	TOP RAIL/ JAMB STILE	WOOD	MAHOGANY
3	—	1/ LEAF	UPPER BOTTOM RAIL	WOOD	MAHOGANY
4	—	1/ LEAF	LOWER BOTTOM RAIL	WOOD	MAHOGANY
4A	—	1/ LEAF	LOWER BOTTOM RAIL (ADA DOOR)	WOOD	MAHOGANY
5	—	1/ LEAF	ACTIVE LEAF LOCK STILE	WOOD	MAHOGANY
6	—	1/ LEAF	INACTIVE LEAF LOCK STILE	WOOD	MAHOGANY
7	—	AS REQD.	LOCK RAIL	WOOD	MAHOGANY
8	—	AS RECD.	ASTRAGAL	WOOD	MAHOGANY
9	—	AS REQD.	LOCK COVER	WOOD	MAHOGANY
10	—	1/ LEAF	DOOR DRIP	WOOD	MAHOGANY
11	—	4/ LEAF	GLAZING STOP (LAM. GLASS)	WOOD	MAHOGANY
11A	—	4/ LEAF	GLAZING STOP (INSUL. LAM. GLASS)	WOOD	MAHOGANY
11B	—	4/ LEAF	GLAZING STOP (WOOD PANEL)	WOOD	MAHOGANY
12	—	1	FRAME SILL	WOOD	MAHOGANY
13	—	1	THRESHOLD	BRASS	—
13A	—	1	THRESHOLD	ALUMINUM	—
14	—	AS REQD.	THERMOPLASTIC BULB GASKET	VINYL	OLIMPA
15	—	AS REOD.	BRUSH WEATHERSTRIPPING	—	SCHLEGEL
16	1500450	AS REQD.	THERMOPLASTIC GASKET	VINYL	OLIMPIA
17	1500430	AS REQD.	THERMOPLASTIC GASKET	VINYL	OLIMPIA
18	1500512	AS REQD.	THERMOPLASTIC GASKET	—	OLIMPIA
19	V992	AS REQD.	NORTON NORSEAL TAPE	—	TOTAL PLASTICS
20	—	6/ LEAF	5/8" X 3 1/4" ADJUSTABLE BARREL HINGE	ST. STEEL	—
21	—	AS REQD.	18 GA. X 1 1/2" BRAD NAILS	—	3" FROM ENDS & 8" O.C.
22	—	AS REQD.	18 GA. X 1 1/2" BRAD NAILS	—	3" FROM ENDS & 12" O.C.
23	—	—	REINFORCING BAR, FULL LENGTH	STEEL A36	—
24	—	AS REQD.	#8 X 1 1/4" SCREWS	—	2" FROM ENDS & 8" O.C.
25	—	AS REQD.	#8 X 1 3/4" SCREWS	—	2" FROM ENDS & 8" O.C.
26	—	AS REQD.	#8 X 1 1/4" SCREWS	—	6" FROM ENDS & 13 1/2" O.C.
27	—	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
28	—	AS REQD.	1 1/2" x 1 1/2" X 1/8" ANGLE	ALUMINUM	6063 -T5 MIN.
29	—	AS REQD.	4 1/2" SIMPSON CS16Z STEEL STRAPS	SS OR GALV.	(16 GA)
30	—	AS REQD.	GALVANIZED STEEL "Z" CLIP	STEEL	(14 GA)

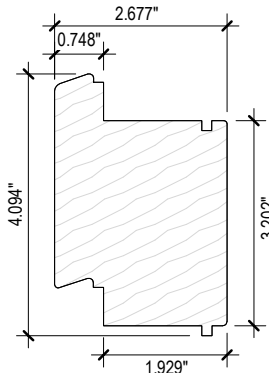
TYPICAL WOOD-HONDURES MAHOGANY LUMBER
SPECIFIC GRAVITY = 0.45 MIN.
GRADE = 2 MIN.
MOISTURE CONTENT = 19% MAX.



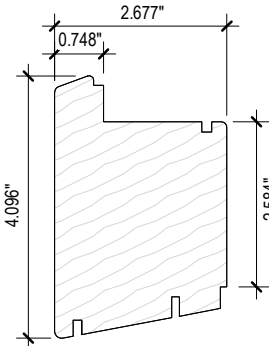
1. FRAME HEAD/JAMB



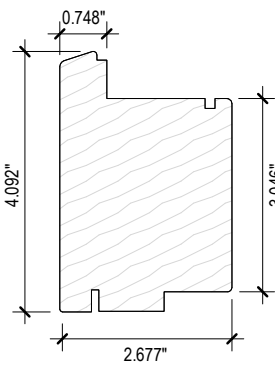
2. TOP RAIL/JAMB STILE



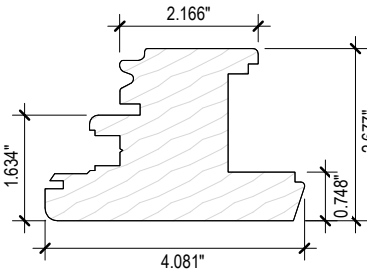
3. UPPER BOTTOM RAIL



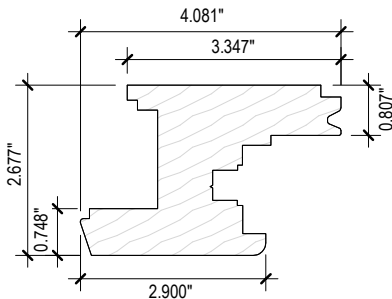
4. LOWER BOTTOM RAIL



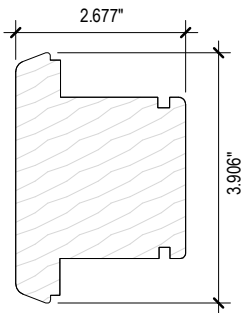
4A. LOWER BOTTOM RAIL (ADA DOOR)



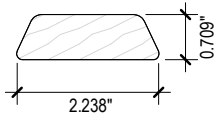
5. ACTIVE LEAF LOCK STILE



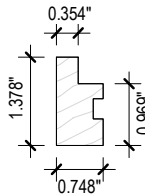
6. INACTIVE LEAF LOCK STILE



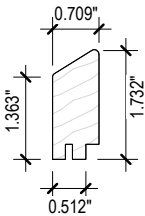
7. LOCK RAIL



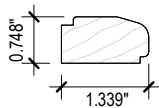
8. ASTRAGAL



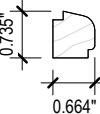
9. LOCK COVER



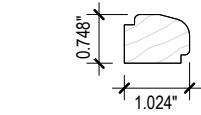
10. DOOR DRIP (ADA DOOR)



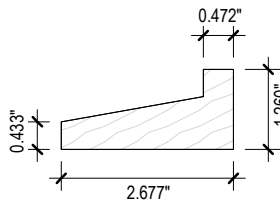
11. INTERIOR GLAZING STOP



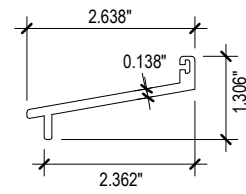
11A. INTERIOR GLAZING STOP



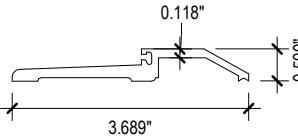
11B. INTERIOR GLAZING STOP



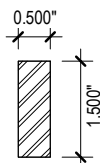
12. FRAME SILL



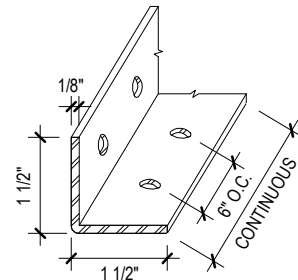
13. THRESHOLD



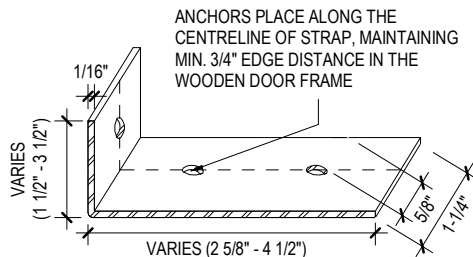
13A. THRESHOLD (ADA DOOR)



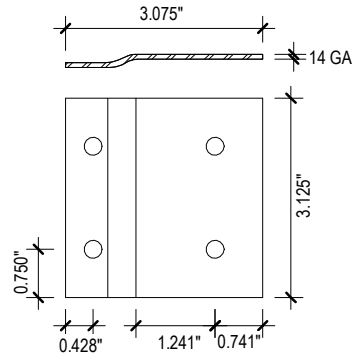
23. REINFORCING BAR



28. 1-1/2" X 1-1/2" X 1/8" ALUMINIUM ANGLE (CONT.)



29. 4 1/2" 16 GA SS OR GALV. SIMPSON CS16Z STEEL STRAPS



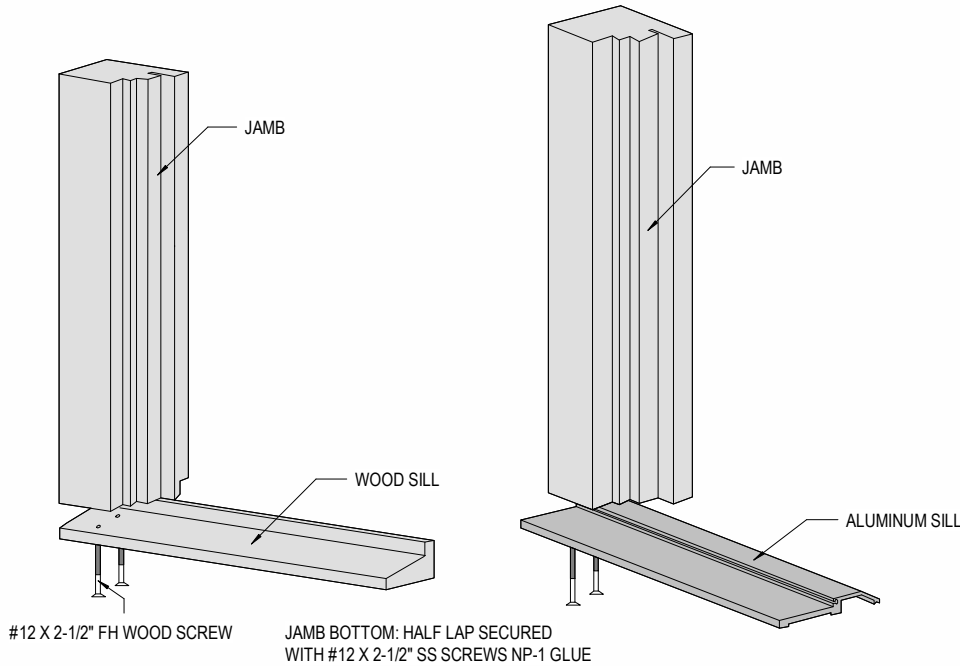
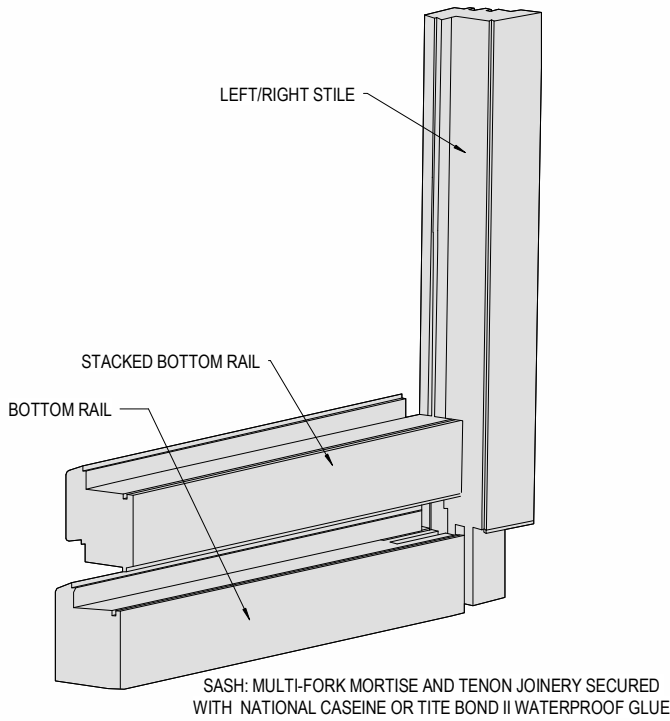
30. GALVANIZED STEEL "Z" CLIP (14 GA)



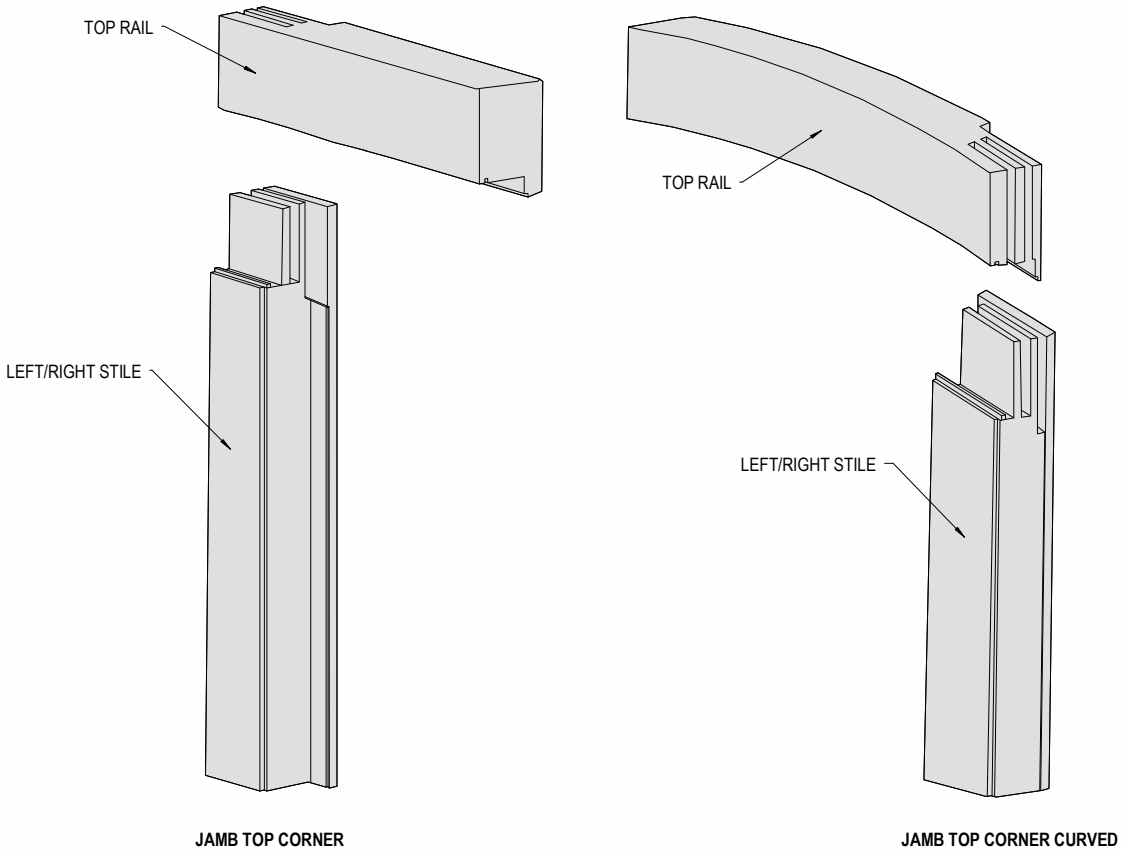
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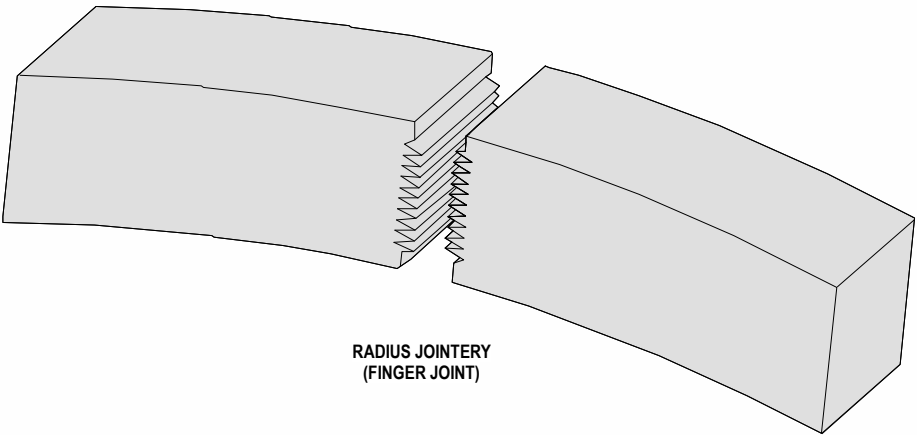
FRAME CORNER DETAILS



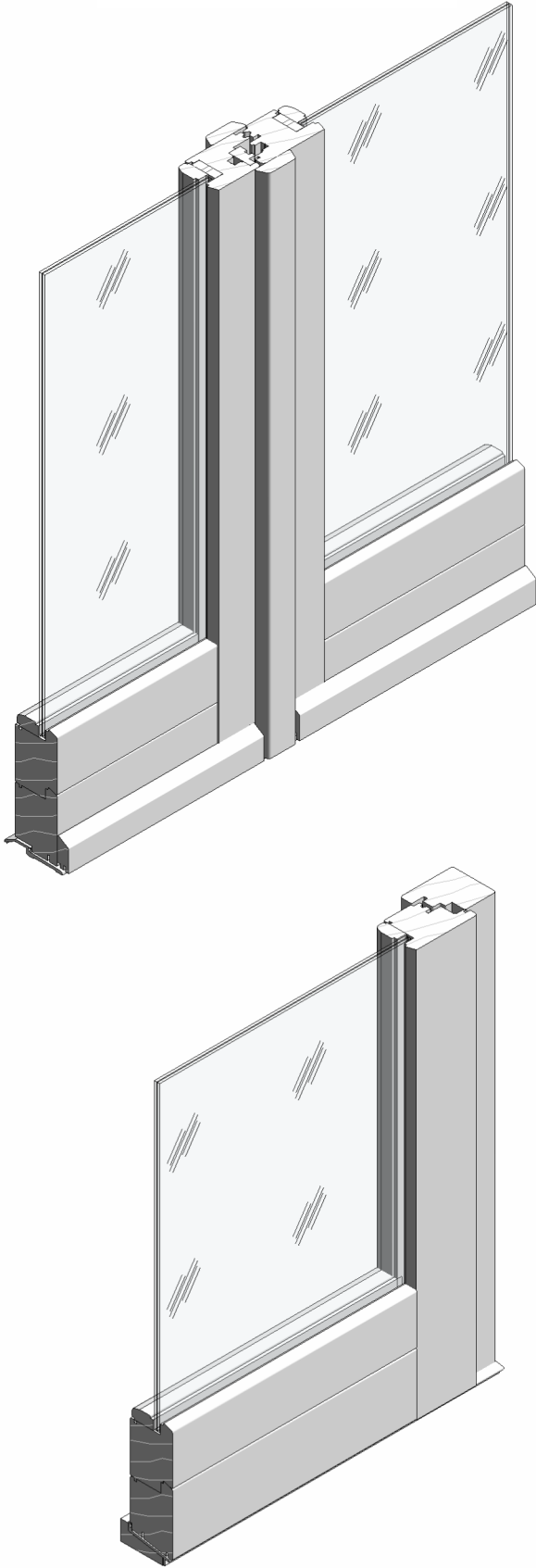
PANEL CORNER DETAILS



RADIUS JOINTERY



SECTIONAL DETAILS



**EUROPEAN OUTSWING WOOD
PATIO DOOR**
(LARGE AND SMALL MISSILE IMPACT RATED)

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drawing no.	date:	JA-1425-23	drawn by:	check by:	REVISION			
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