

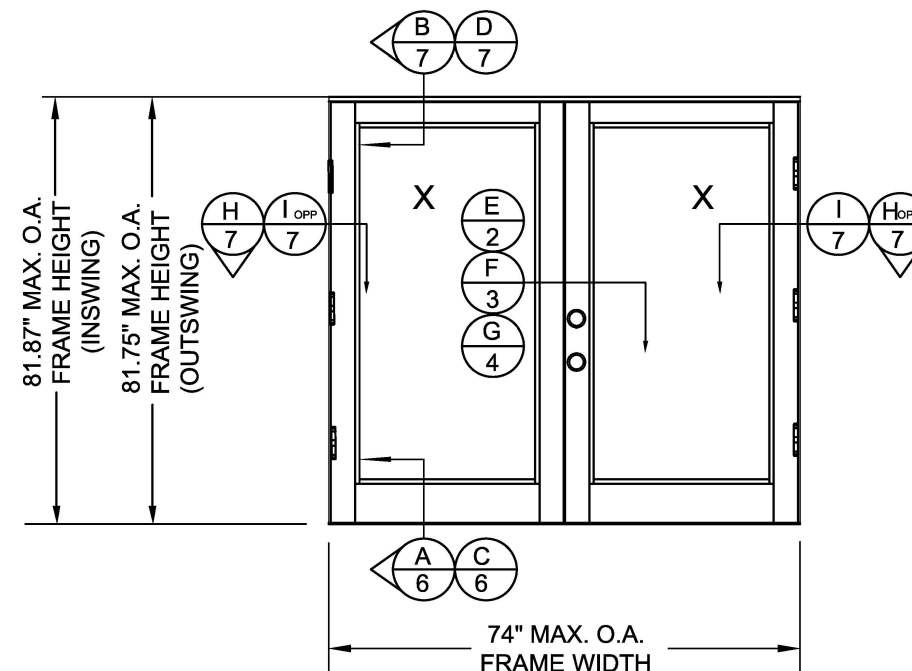


MASONITE GLAZED
6'-8" FIBERGLASS DOOR XX
INSWING / OUTSWING
IMPACT - HVHZ

GENERAL NOTES:

- THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (FBC) STRUCTURAL REQUIREMENTS INCLUDING THE "HIGH VELOCITY HURRICANE ZONE" (HVHZ).
- PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED REGISTERED DESIGN PROFESSIONAL IS REQUIRED.
- ADEQUACY OF EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING PER INSTALLATION AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO FOUNDATION IS THE RESPONSIBILITY OF ENGINEER OR ARCHITECT OF RECORD.
- THIS PRODUCT IS IMPACT RATED AND DOES NOT REQUIRE IMPACT PROTECTION IN WIND BORNE DEBRIS REGIONS.
- OUTSWING DOOR CONDITIONS MEET WATER INFILTRATION REQUIREMENTS. ALL OTHER CONFIGURATIONS DO NOT MEET WATER INFILTRATION REQUIREMENTS AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT ANGLE BETWEEN EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.
- ALL SYSTEM MEMBERS IN CONTACT WITH MASONRY/CONCRETE OR EXPOSED TO THE ENVIRONMENT SHALL BE TREATED WITH AN APPROVED PRESERVATIVE PER FBC CHAPTER 23.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- APPROVED CONFIGURATIONS: X, XX.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION AND GENERAL NOTES
2 - 4	ASTRAGAL AND LOCK DETAILS
5	LOCK DETAILS
6	SILL AND GLAZING DETAILS
7	INSTALLATION DETAILS
8	ANCHOR ELEVATIONS AND NOTES
9	COMPONENTS AND BILL OF MATERIALS

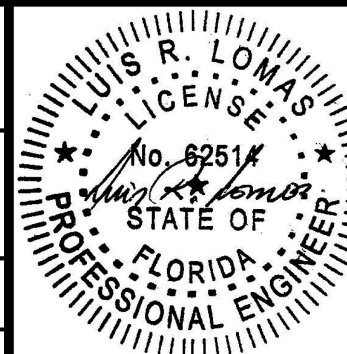


LARGE MISSILE IMPACT RATING			
MAX. OVERALL FRAME SIZE (IN)		DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
INSWING	74" X 81.87"	+ 50.0	- 50.0
OUTSWING	74" X 81.75"	+ 50.0	- 50.0
QUALIFIED PANELS AND COMPONENTS			
MASONITE FIBERGLASS INSERT GLAZED PANELS-SMC 0.075" SKIN			
REFER TO SHEETS 2, 3 & 4 FOR ALL HARDWARE OPTIONS			
REFER TO SHEET 6 FOR IMPACT GLAZING INSERT OPTIONS			

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE GLAZED
FIBERGLASS DOOR
ELEVATIONS AND NOTES

DRAWN: R.M.		DWG NO. NL-0013D		REV D
SCALE NTS	DATE 09/04/13	SHEET 1 OF 9		
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com				



Luis R. Lomas P.E.
FL No.: 62514

SIGNED: 04/01/2024

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.

UPPER BOLT SLEEVE

(2) #8 X 1-5/8" PFH
WOOD SCREWS

LATCH ACTUATOR

(4) #8 X 3" PFH
WOOD SCREWS

BOLT ACTUATOR LEVER

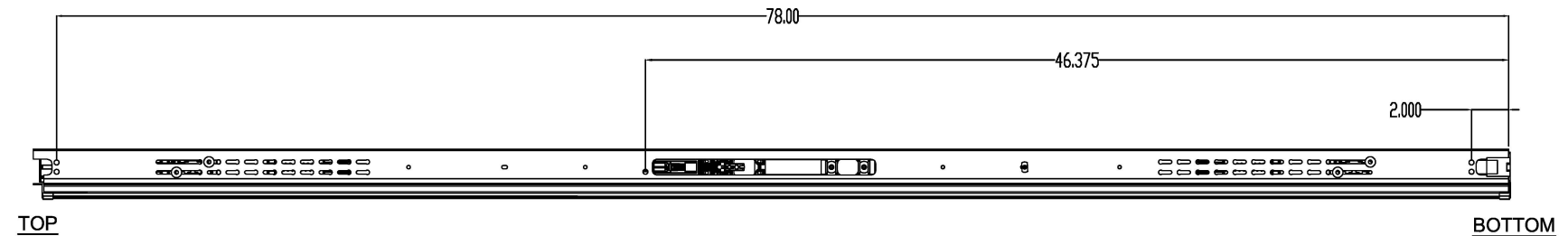
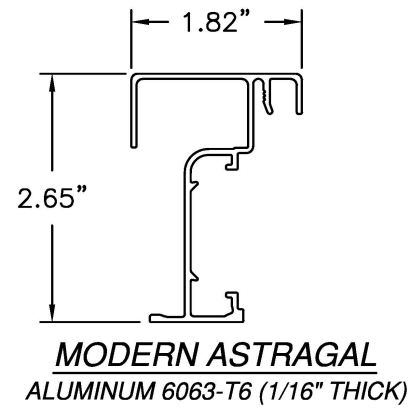
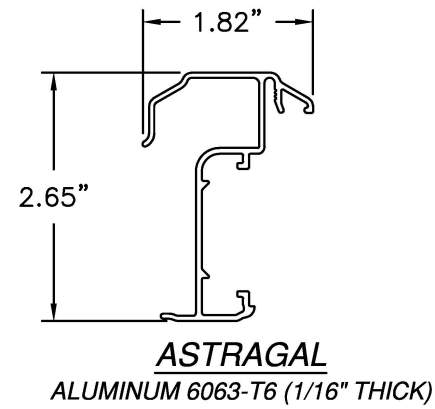
(2) #8 X 1-5/8" PFH
WOOD SCREWS

(2) #8 X 1-5/8" PFH
WOOD SCREWS

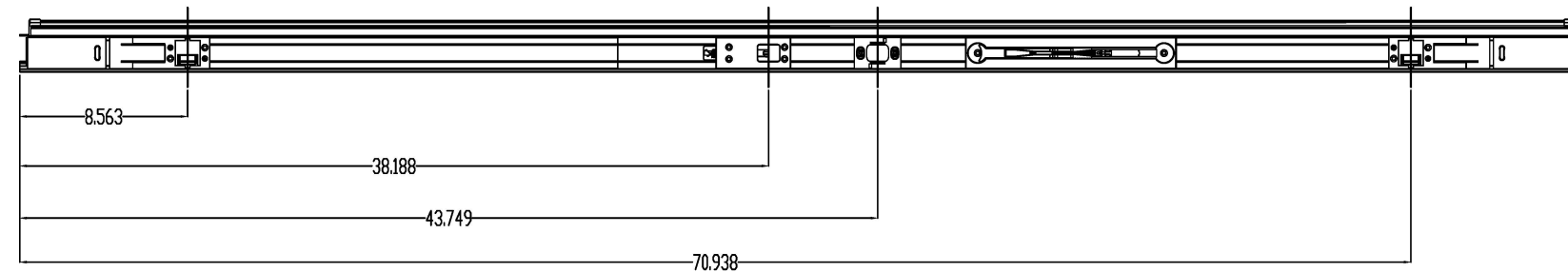
(2) #6-32 X 5/8"
MACHINE SCREWS

LOWER BOLT SLEEVE

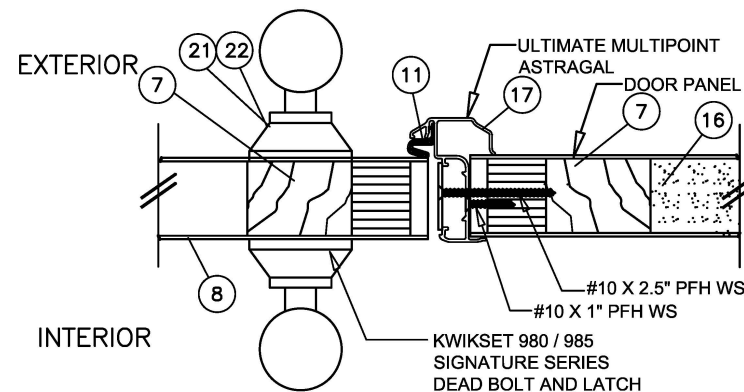
ULTIMATE MULTIPOINT ASTRAGAL



ANCHOR SCREW LOCATIONS



HARDWARE LOCATIONS



E
2 ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.

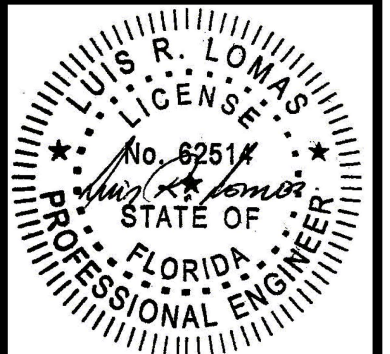
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE GLAZED
FIBERGLASS DOOR
ASTRAGAL AND LOCK SET DETAILS

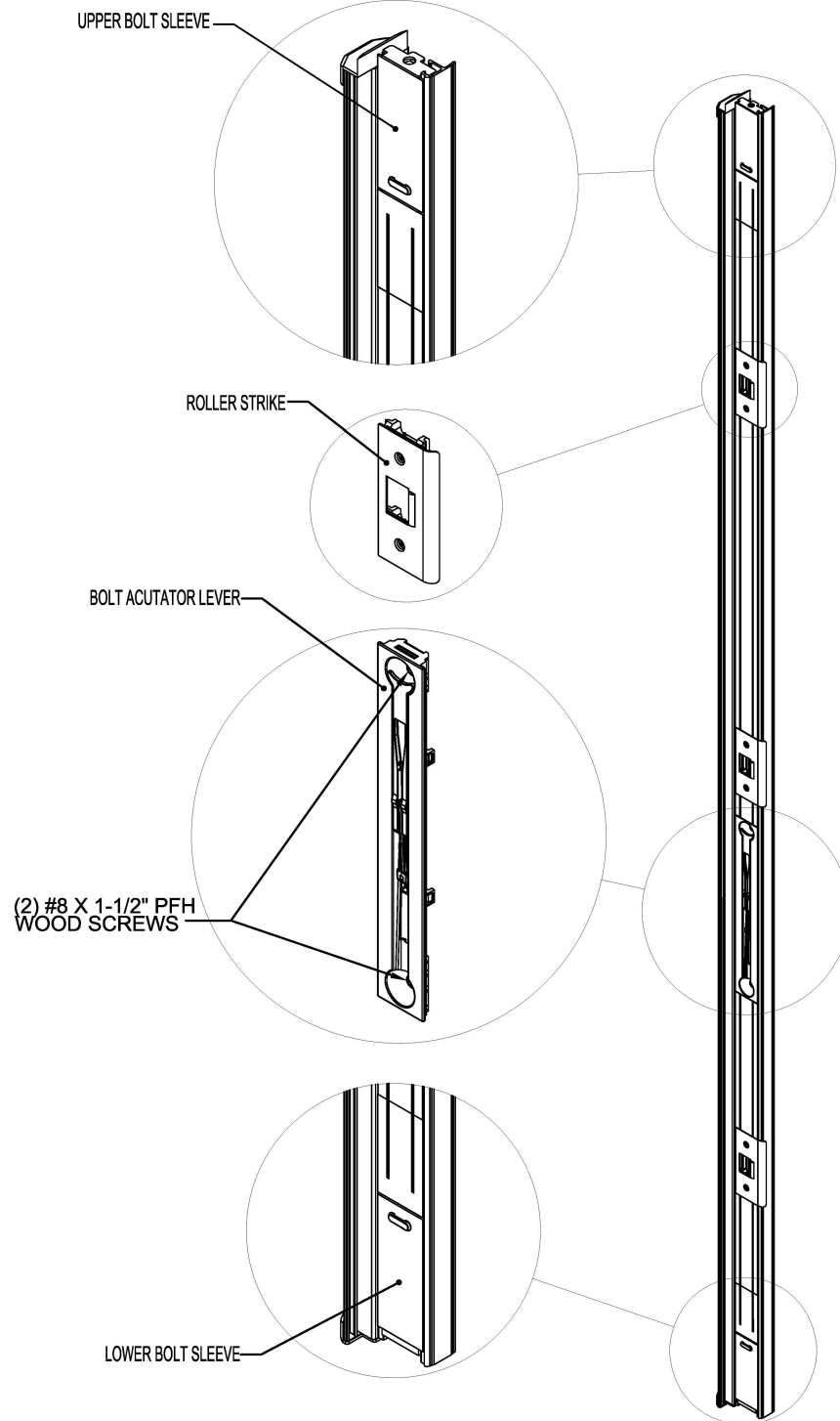
DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 2 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

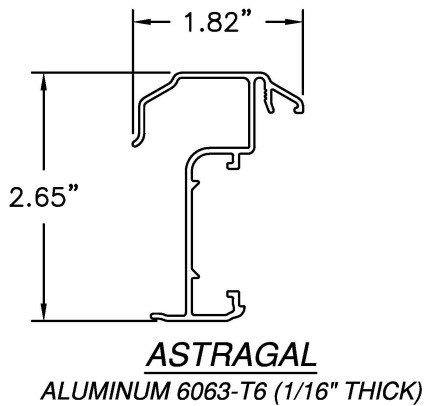
SIGNED: 04/01/2024



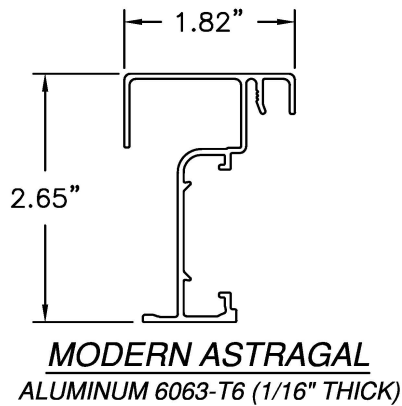
Luis R. Lomas P.E.
FL No.: 62514



ULTIMATE TRIENNium ASTRAGAL

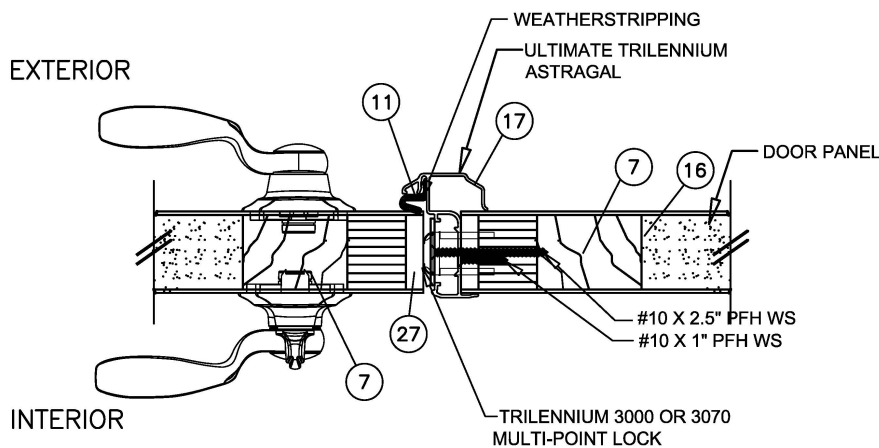
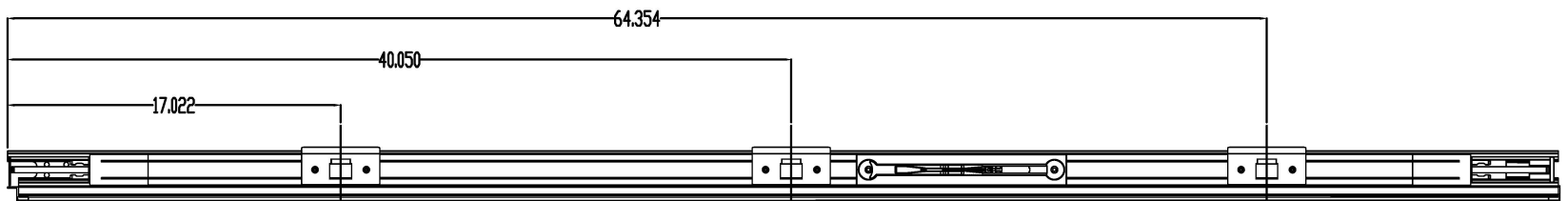
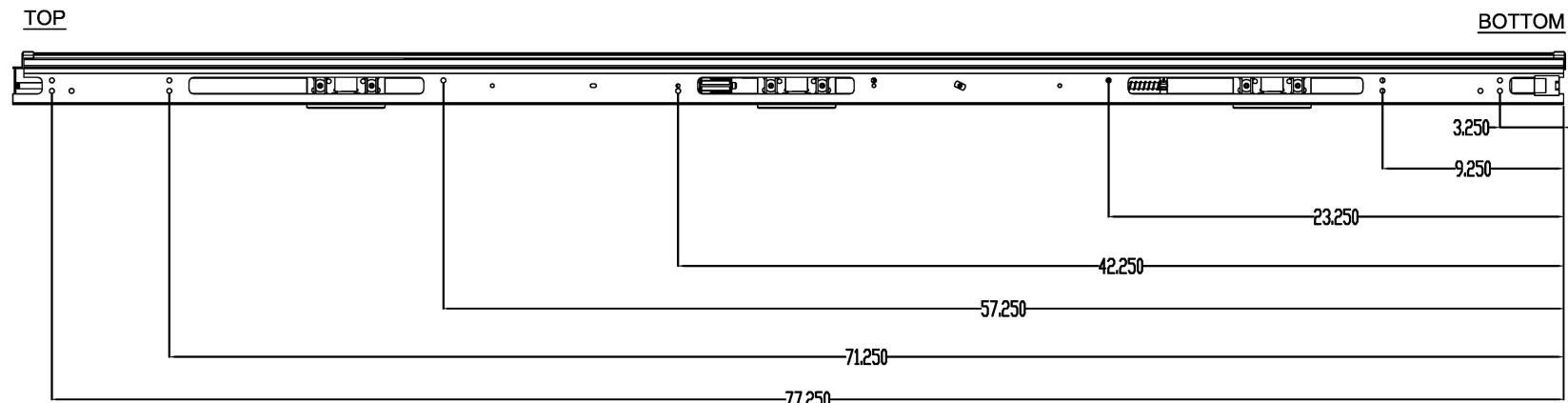


ASTRAGAL
ALUMINUM 6063-T6 (1/16" THICK)



MODERN ASTRAGAL
ALUMINUM 6063-T6 (1/16" THICK)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



F
3 ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

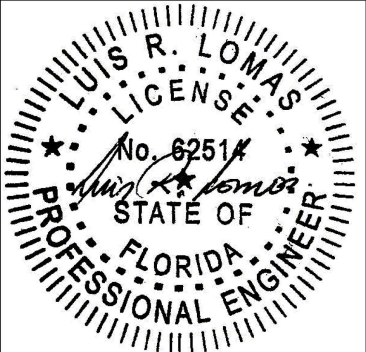
MASONITE GLAZED
FIBERGLASS DOOR
ASTRAGAL AND LOCK SET DETAILS

DRAWN: R.M. DWG NO. NL-0013D REV D

SCALE NTS DATE 09/04/13 SHEET 3 OF 9

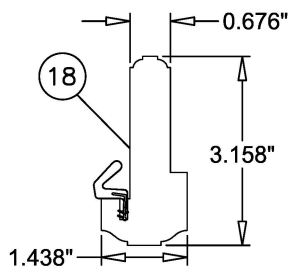
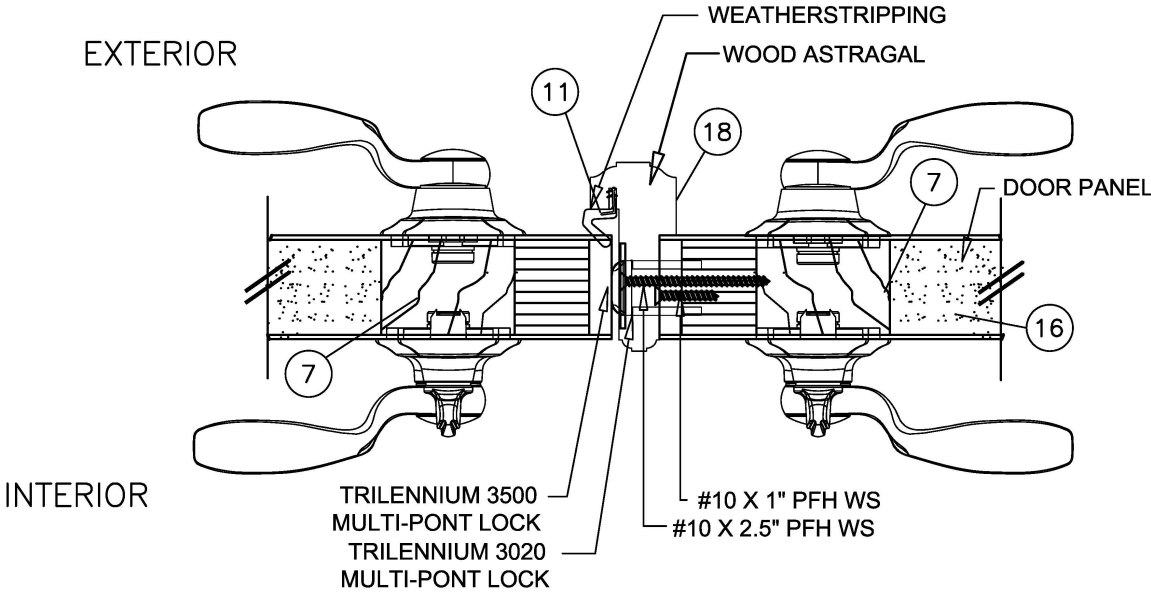
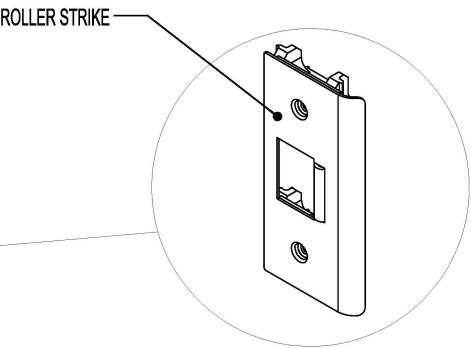
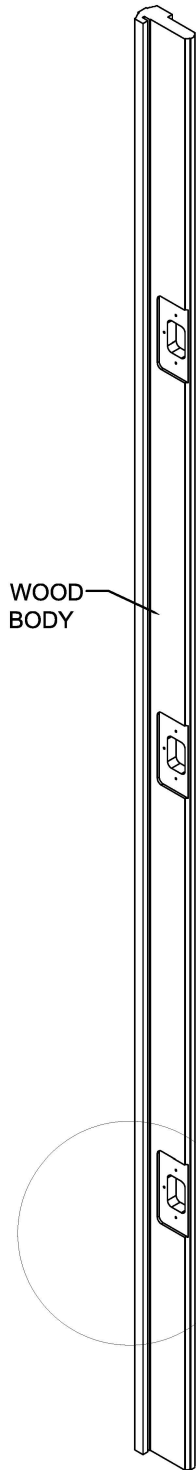
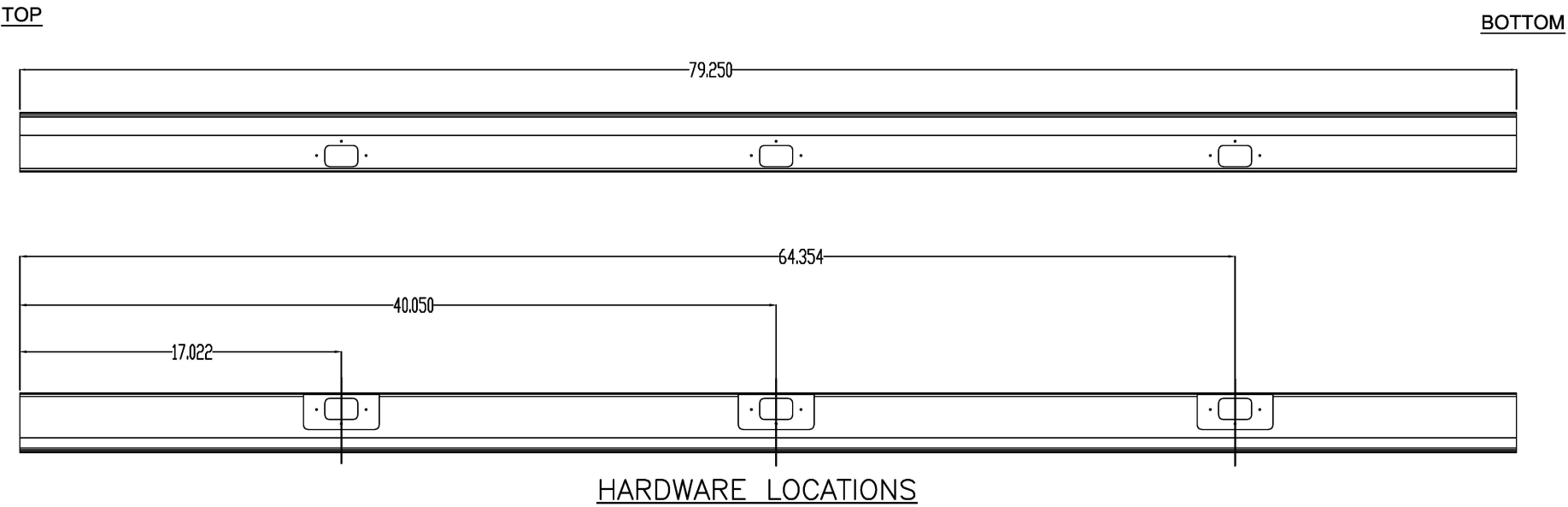
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



ASTRAGAL SECTION

G
4 ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

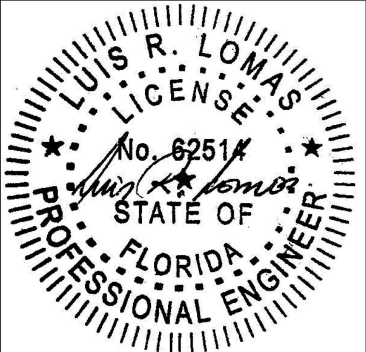
SIGNED: 04/01/2024

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE GLAZED
FIBERGLASS DOOR
ASTRAGAL AND LOCK SET DETAILS

DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 4 OF 9

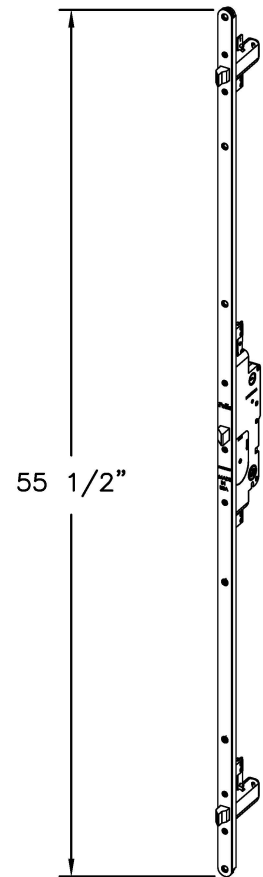
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



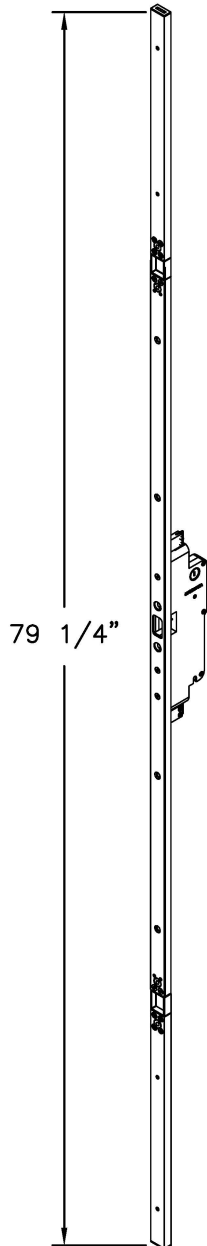
Luis R. Lomas P.E.
FL No.: 62514

WOOD ASTRAGAL

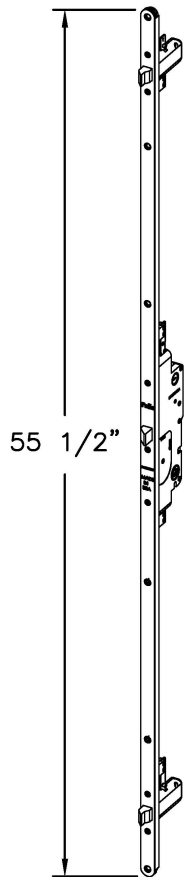
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



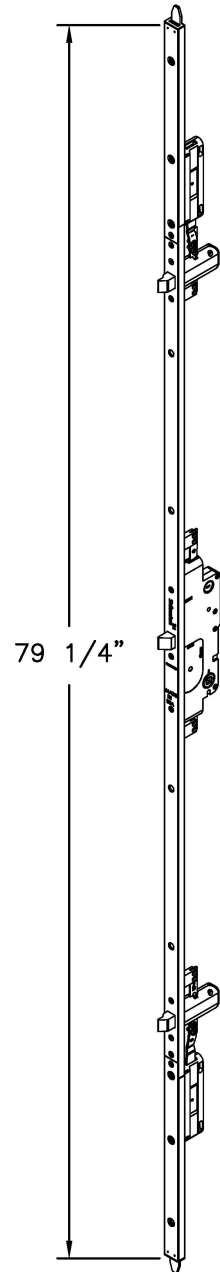
TRILENNIUM
3000 – 6/8



TRILENNIUM
3020 – 6/8



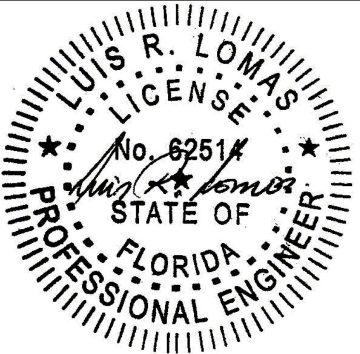
TRILENNIUM
3070 – 6/8



TRILENNIUM
3500 – 6/8

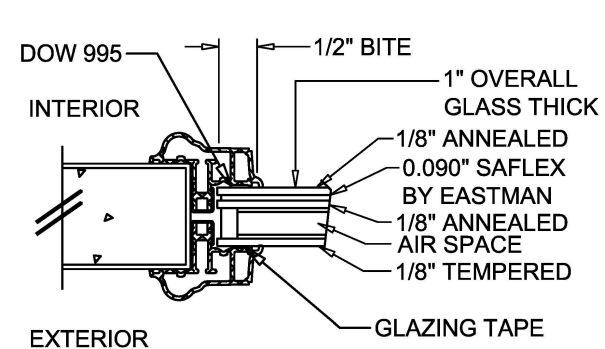
ENDURA PRODUCTS, INC. 8817 WEST MARKET STREET COLFAX, NC 27235		
MASONITE GLAZED FIBERGLASS DOOR TRILENNIUM LOCKS FOR 6-8 DOORS		
DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 5 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/01/2024

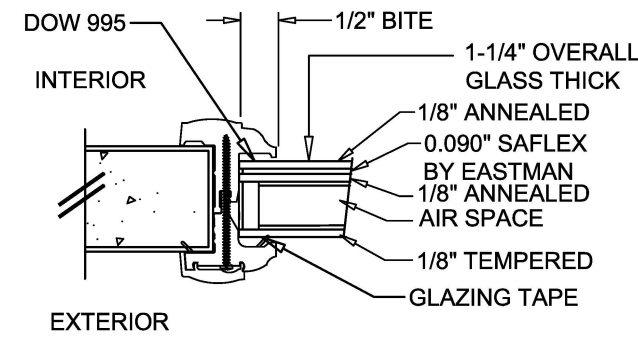


Luis R. Lomas P.E.
FL No.: 62514

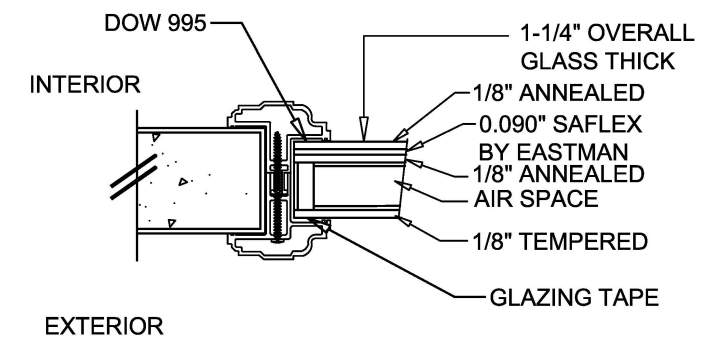
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



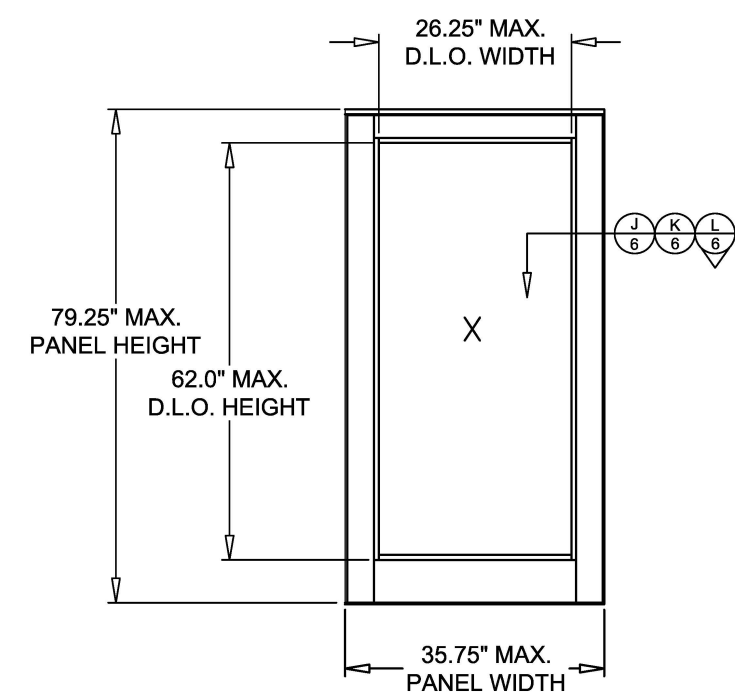
J
6 HORIZONTAL CROSS SECTION
ODL SEVERE WEATHER
GLAZING INSERT OPTION



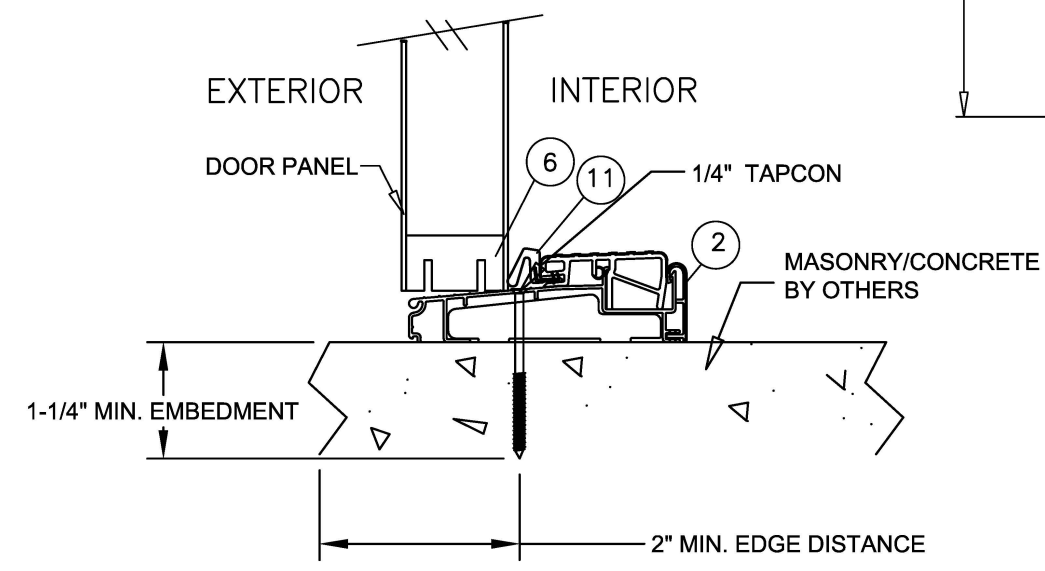
K
6 HORIZONTAL CROSS SECTION
RSL HURRICANE IMPACT
GLAZING INSERT OPTION



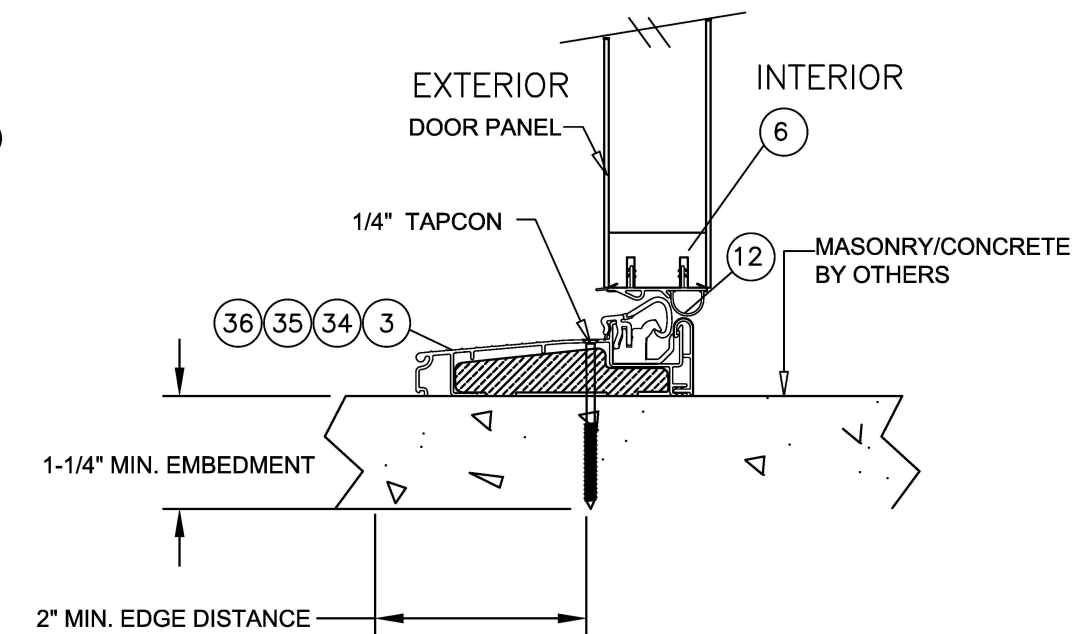
L
6 HORIZONTAL CROSS SECTION
SPECIALTY IMPACT
GLAZING INSERT OPTION



MASONITE
INSERT GLAZED
FIBERGLASS



A
6 VERTICAL CROSS SECTION
OUTSWING MASONRY/CONCRETE INSTALLATION



C
6 VERTICAL CROSS SECTION
IN-SWING MASONRY/CONCRETE INSTALLATION

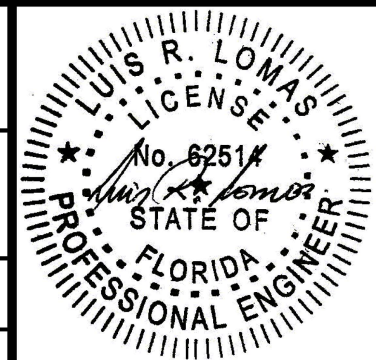
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE GLAZED
FIBERGLASS DOOR
GLAZING INSERT AND SILL DETAILS

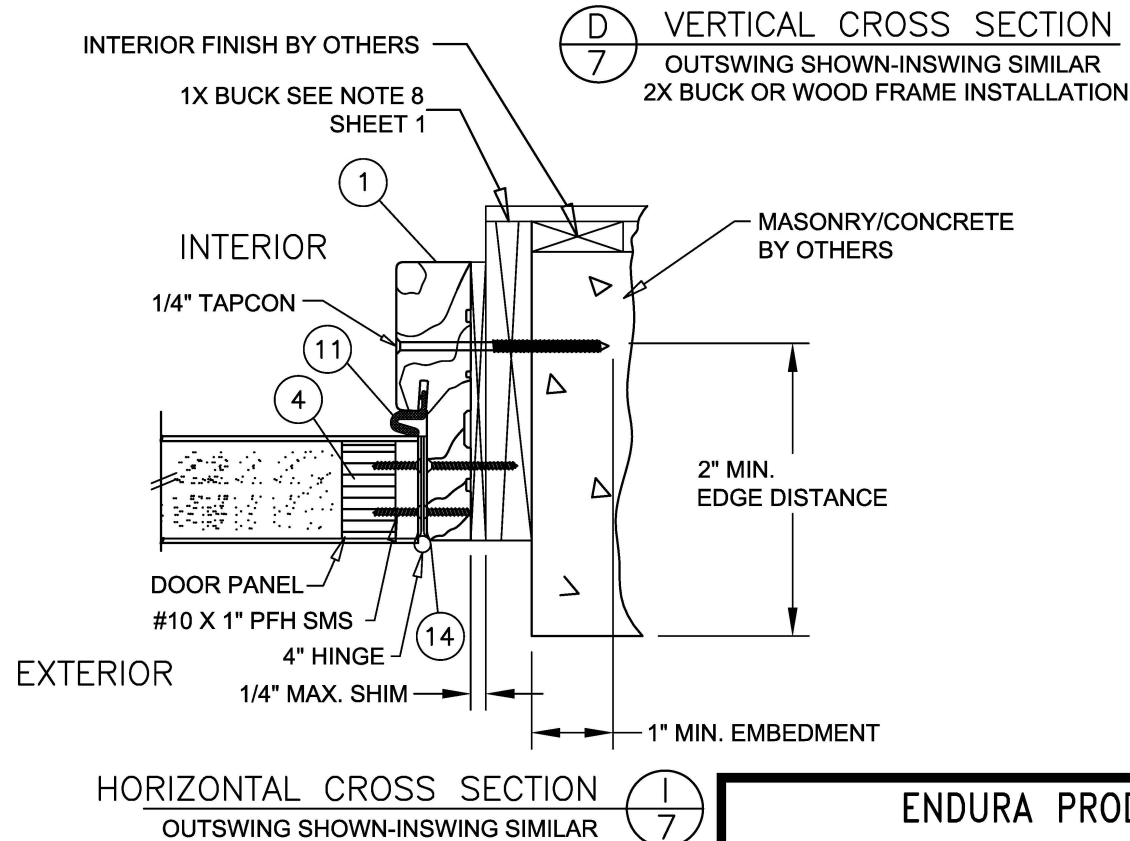
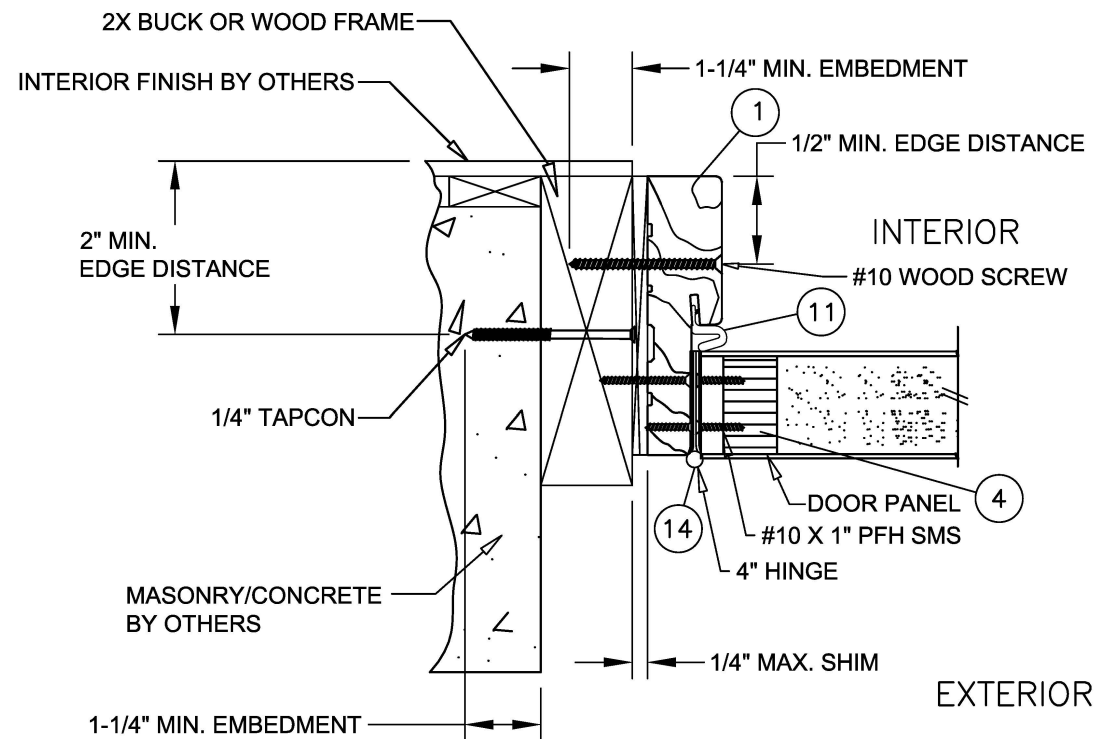
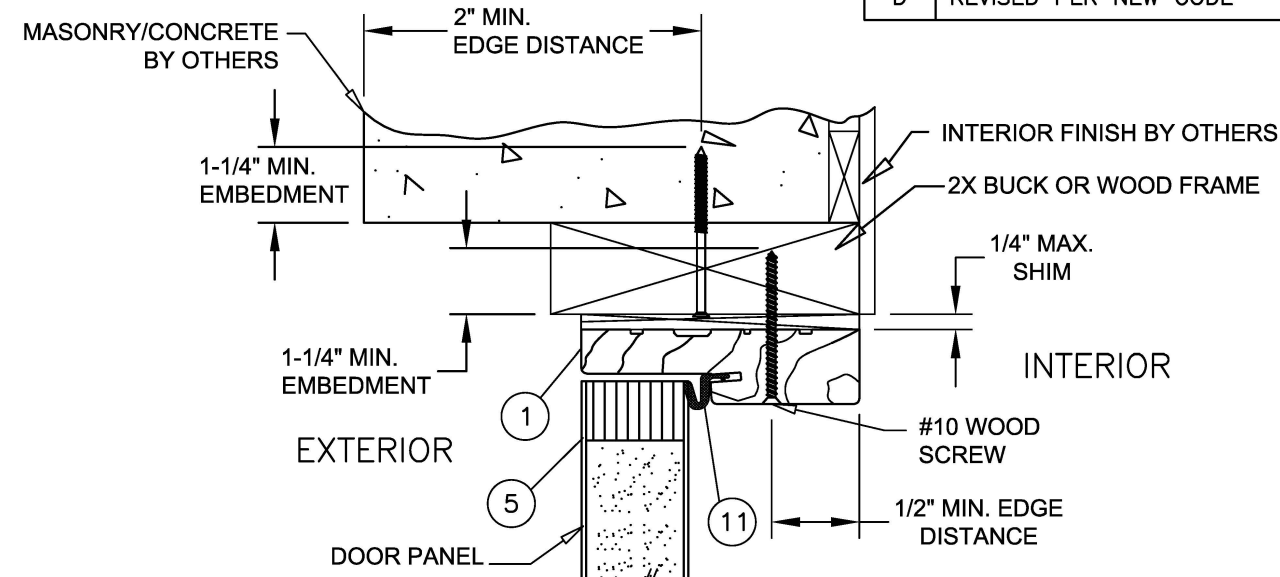
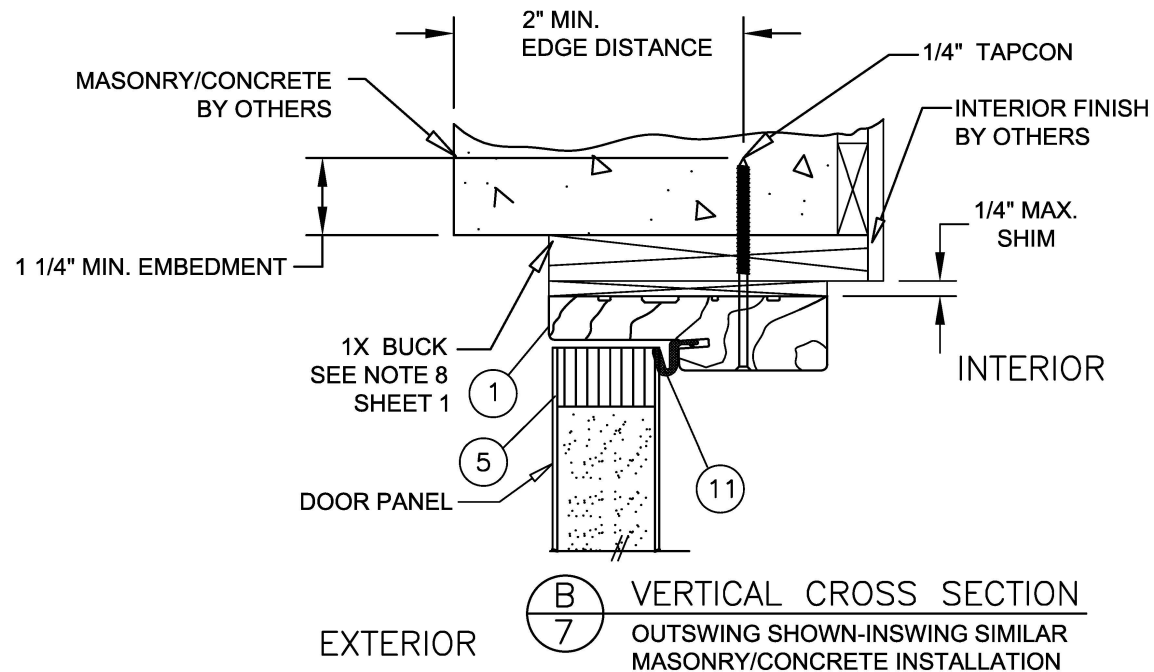
DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 6 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024



Luis R. Lomas P.E.
FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.

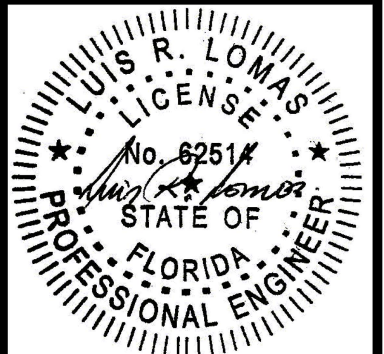
SIGNED: 04/01/2024

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

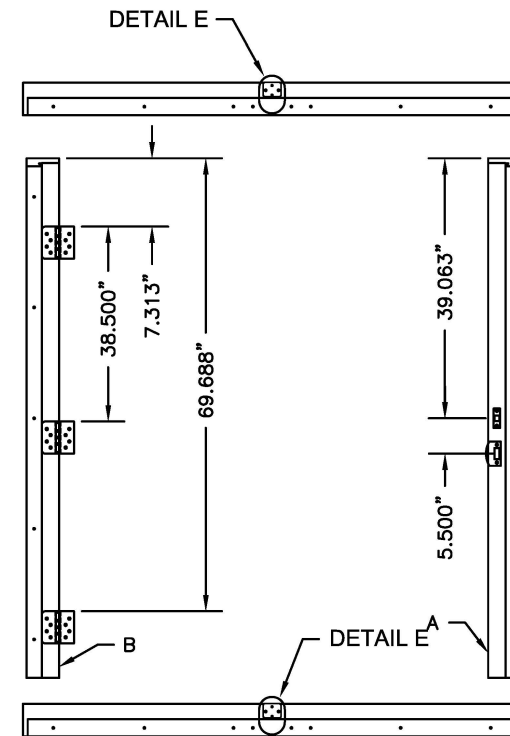
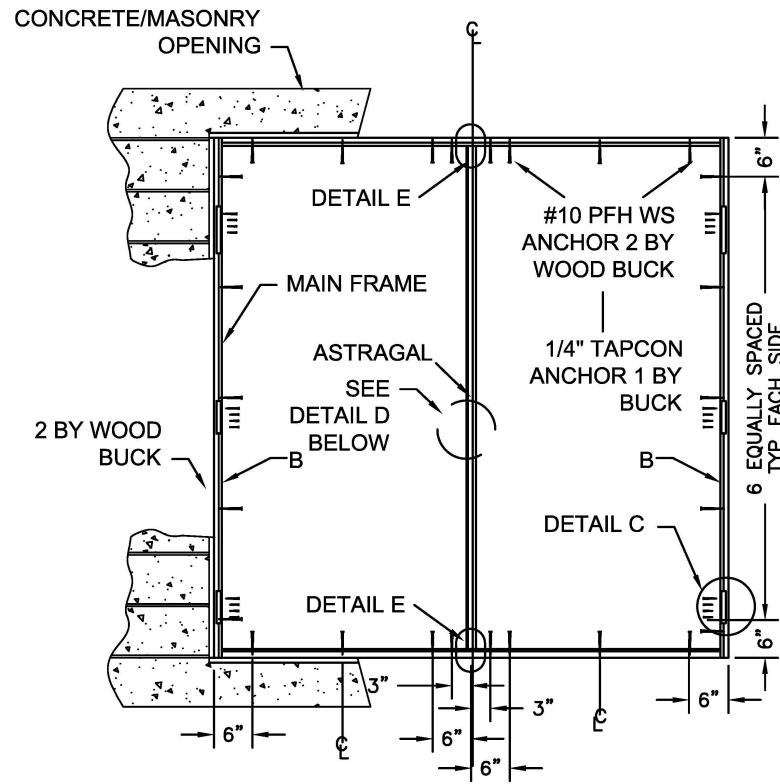
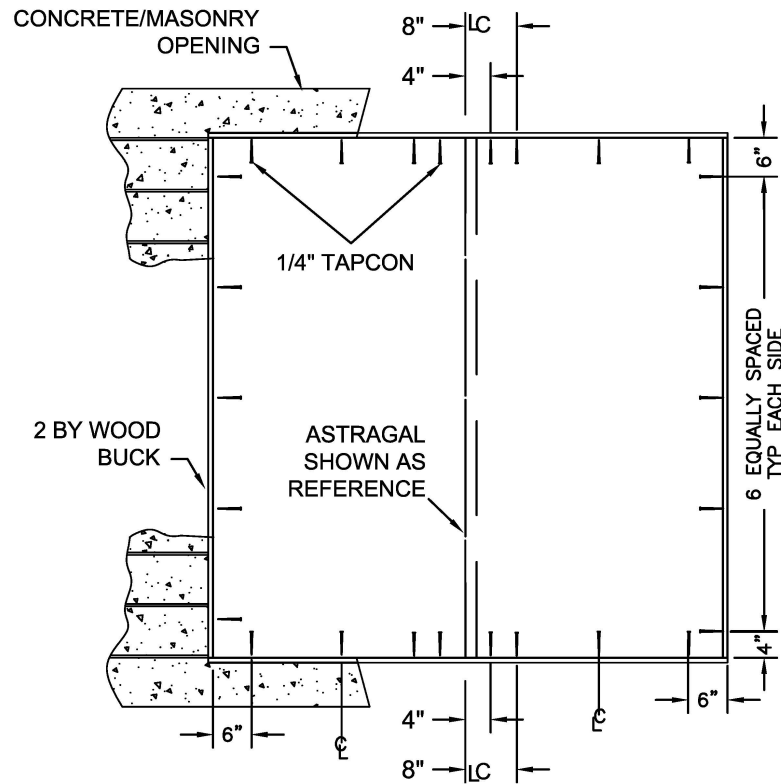
MASONITE GLAZED
FIBERGLASS DOOR
INSTALLATION DETAILS

DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 7 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



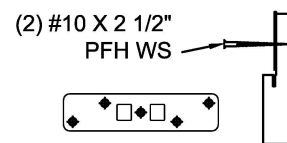
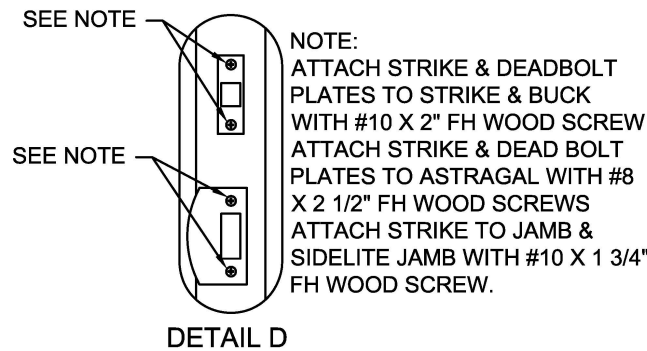
Luis R. Lomas P.E.
FL No.: 62514



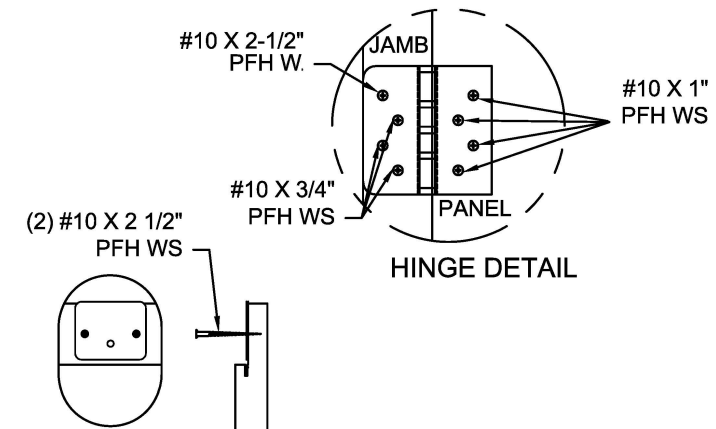
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS MUST MATCH TYPE, SIZE, AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/8 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 1/4" TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1-1/4" MINIMUM EMBEDMENT WITH A 2" MINIMUM EDGE DISTANCE.
- ALTERNATE CONCRETE / MASONRY INSTALLATION ANCHORS OF EQUIVALENT PERFORMANCE CHARACTERISTICS CAN BE USED UPON APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3192 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).



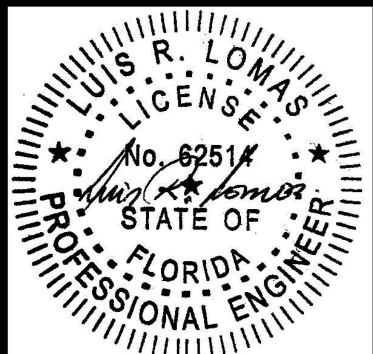
HEAD/SILL STRIKE PLATE DETAIL
3500 / 3020 TRILENNIUM
ATTACH LOCK THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.



HEAD STRIKE PLATE DETAIL
ULTIMATE MPA ASTRAGAL ATTACH
ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.

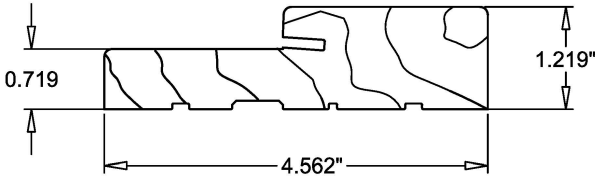
ENDURA PRODUCTS, INC. 8817 WEST MARKET STREET COLFAX, NC 27235		
MASONITE GLAZED FIBERGLASS DOOR ELEVATION AND ANCHOR LAYOUT		
DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 8 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/01/2024

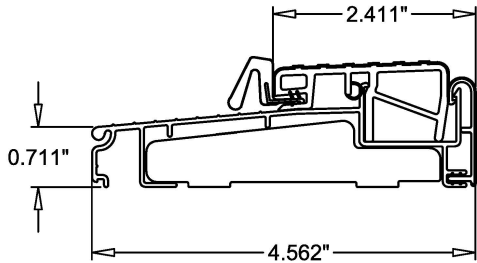


Luis R. Lomas P.E.
FL No.: 62514

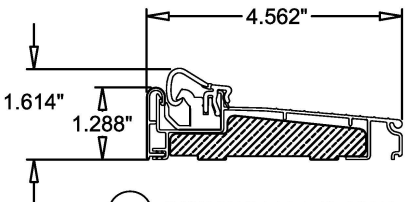
BILL OF MATERIAL			
ITEM #	DESCRIPTION	QTY.	MATERIAL
1	HEAD / JAMB		
2	OUTSWING BUMP THRESHOLD ZOB4565		
3	INSWING ADJUSTABLE THRESHOLD ZA4565		
4	DOOR STILE - CORE MATERIAL WOOD OR LVL		
5	DOOR TOP RAIL		
6	DOOR BOTTOM RAIL		
7	DOOR LOCK STILE - CORE MATERIAL WOOD OR LVL		
8	NOT USED		
9	DOOR SKIN (MIN. 0.085" THICK)		
10	REINFORCEMENT WOOD FOR LOCKS		
11	COMPRESSION WEATHERSTRIP-PE-650 QLON		
12	VINYL DOOR BOTTOM SWEEP-DBKAC		
13	CORNER PAD		
14	4" X 4" HINGE BUTT		
15	CONTINUOUS LATCH AND HINGE STILE REINFORCEMENT		
16	POLYURETHANE FOAM BY MASONITE		
17	EXTRUDED ALUMINUM ASTRAGAL BY ENDURA-6063T-6		
18	WOOD ASTRAGAL BY ENDURA		
19	LATCH STRIKE PLATE		
20	DEAD BOLT STRIKE PLATE		
21	KWIKSET KNOB (SIGNITURE SERIES)		
22	KWICKSET DEADBOLT (SIGNITURE SERIES 980 / 985)		
23	LATCH STRIKE PLATE 3500 / 3020		
24	DEADBOLT PLATE		
25	ASTRAGAL STRIKE PLATE		
26	TRILENNIUM 3500 / 3020 LOCK		
27	TRILENNIUM 3000 OR 3070 MULTIPOINT LOCK		
28	#10 X 3 / 4" PFH WOOD SCREW (HINGE TO FRAME)		
29	#10 X 2 -1 / 2" PFH WOOD SCREW		
30	#10 X 1" PFH WOOD SCREW		
31	ODL GLAZING INSERT-ALUMINUM LIGHT FRAME		
32	RSL GLAZING INSERT-PVC FRAME		
33	ECLIPSE INTERIOR LOCK TRIM		
34	INSWING THRESHOLD ZA4565		
35	INSWING THRESHOLD ZAIL4565		
36	INSWING THRESHOLD ZAILAA4565		



1 FRAME HEAD / JAMB
BY ENDURA (PINE SG = 0.37)



2 OUTSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZOBL4565



3 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZA4565

GENERAL PLASTICS NOTES:

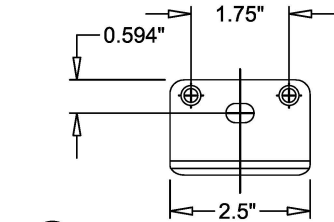
1. POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84.
2. PLASTICS TESTING OF FIBERLASS FACING:

Test Description	Test Method	Test Result
SELF IGNITION TEMP	ASTM D1929	Passed (>650 °F)
RATE OF BURNING	ASTM D635	Passed (C-1:<1.0 in/min)
SMOKE DENSITY	ASTM D2843	Passed (<75%)
TENSILE STRENGTH*	ASTM D638	Passed (<10%)

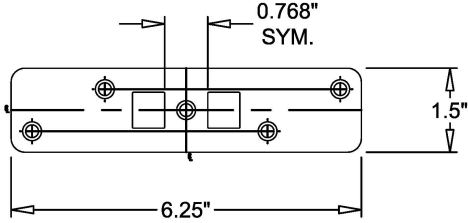
3. PVC PLASTICS TESTING OF RSL LITE FRAME MATERIAL

Test Description	Test Method	Test Result
SELF IGNITION TEMP	ASTM D1929	Passed (>650 °F)
RATE OF BURNING	ASTM D635	Passed (C-1:<1.0 in/min)
SMOKE DENSITY	ASTM D2843	Passed (<75%)
FLEXURAL STRENGTH*	ASTM D790	BEFORE = 3366 PSI AFTER = *3058 PSI

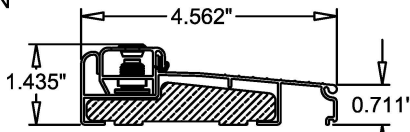
* STRENGTH TEST AFTER WEATHERING, PER SECTION 2612.2 OF THE FBC.



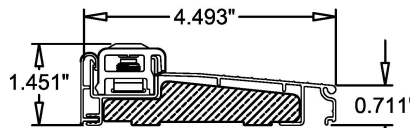
25 ASTRAGAL STRIKE PLATE
STEEL



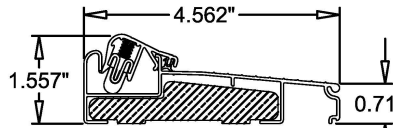
23 3500 / 3020 STRIKE PLATE
STEEL



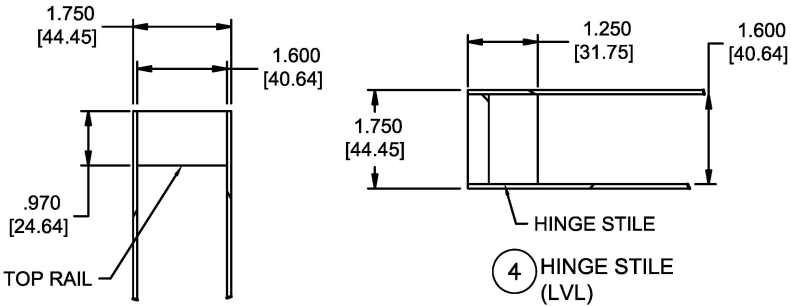
36 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZAILAA4565



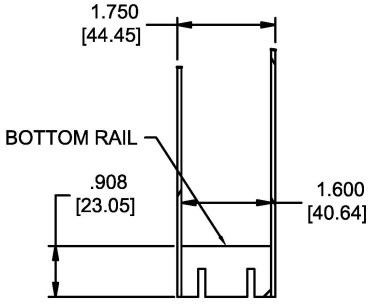
35 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZAIL4565



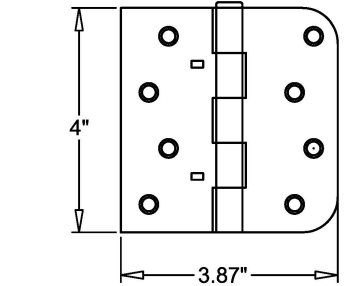
34 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZA4565



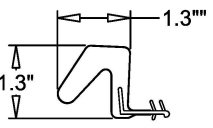
5 DOOR TOP RAIL
(PINE SG = 0.42)



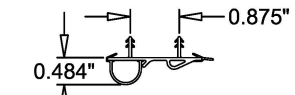
6 DOOR BOTTOM RAIL
(PINE SG = 0.42)



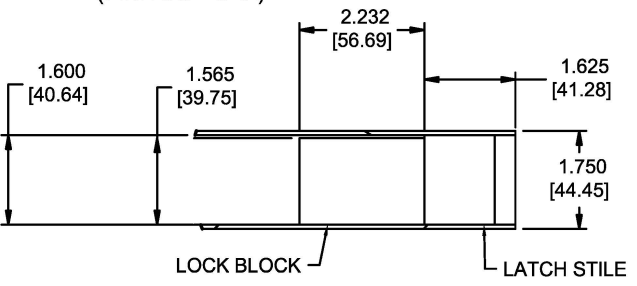
14 4" X 4" HINGE 0.097" THICK
STEEL



11 WEATHERSTRIPPING
PE-650 FOAM



12 DOOR BOTTOM SWEEP
(VINYL)



7 LOCK STILE
(LVL)

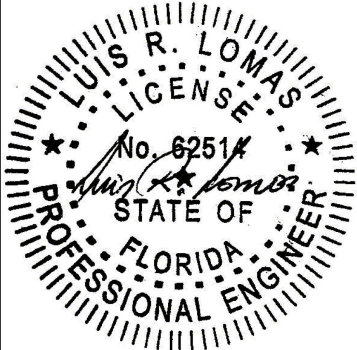
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE GLAZED
FIBERGLASS DOOR
BILL OF MATERIALS AND COMPONENTS

DRAWN: R.M.	DWG NO. NL-0013D	REV D
SCALE NTS	DATE 09/04/13	SHEET 9 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024



Luis R. Lomas P.E.
FL No.: 62514