



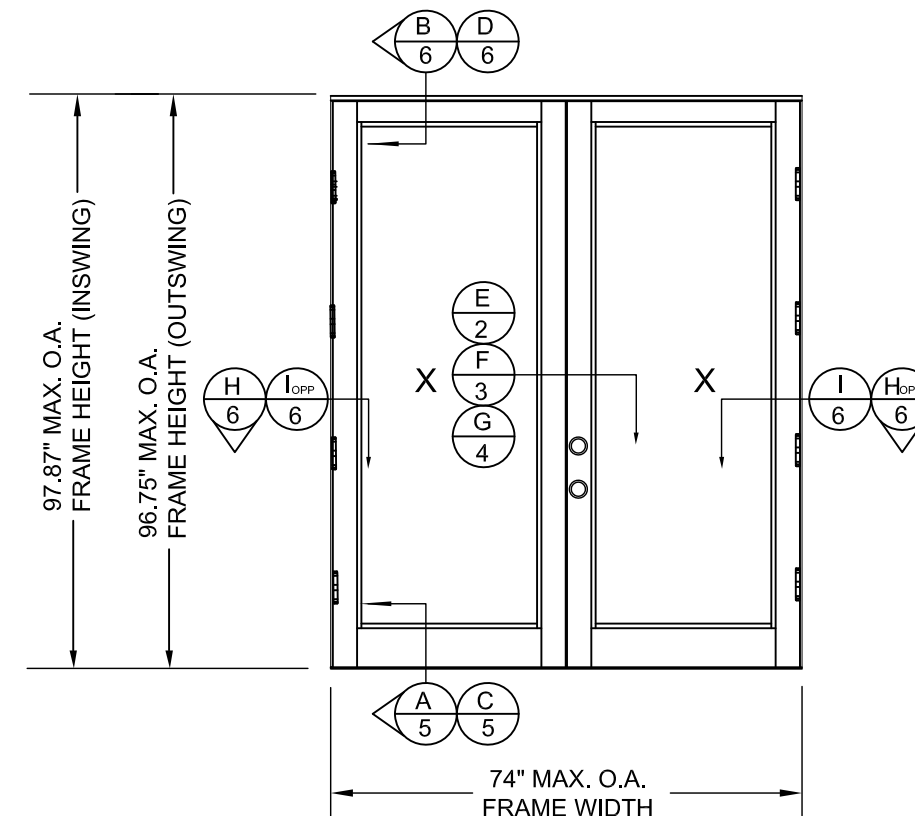
PLASTPRO GLAZED
8'-0" FIBERGLASS DOOR XX
INSWING / OUTSWING
IMPACT - HVHZ

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 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 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 THE WATER INFILTRATION REQUIREMENTS AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE ANGLE BETWEEN THE 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: XX, X.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION AND GENERAL NOTES
2 - 4	ASTRAGAL AND LOCK DETAILS
5	TRILLENIUM LOCKS FOR 8-0 DOORS
6	SILL AND GLAZING DETAILS
7	INSTALLATION DETAILS
8	ANCHOR ELEVATIONS AND NOTES
9	COMPONENTS AND BILL OF MATERIALS

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



LARGE MISSILE IMPACT RATING			
MAX. OVERALL FRAME SIZE (IN)		DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
INSWING	74" X 97.87"	+ 45.0	- 45.0
OUTSWING	74" X 96.75"	+ 45.0	- 45.0
QUALIFIED PANELS AND COMPONENTS			
PLASTPRO FIBERGLASS INSERTGLAZED PANELS-SMC 0.140" SKIN			
REFER TO SHEETS 2, 3 & 4 FOR ALL HARDWARE OPTIONS			
REFER TO SHEET 6 FOR IMPACT GLAZING INSERT OPTIONS			

SIGNED: 04/01/2024

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

PLASTPRO GLAZED
FIBERGLASS DOOR
ELEVATION AND NOTES

DRAWN:
R.M.

DWG NO.
NL-0010

REV
D

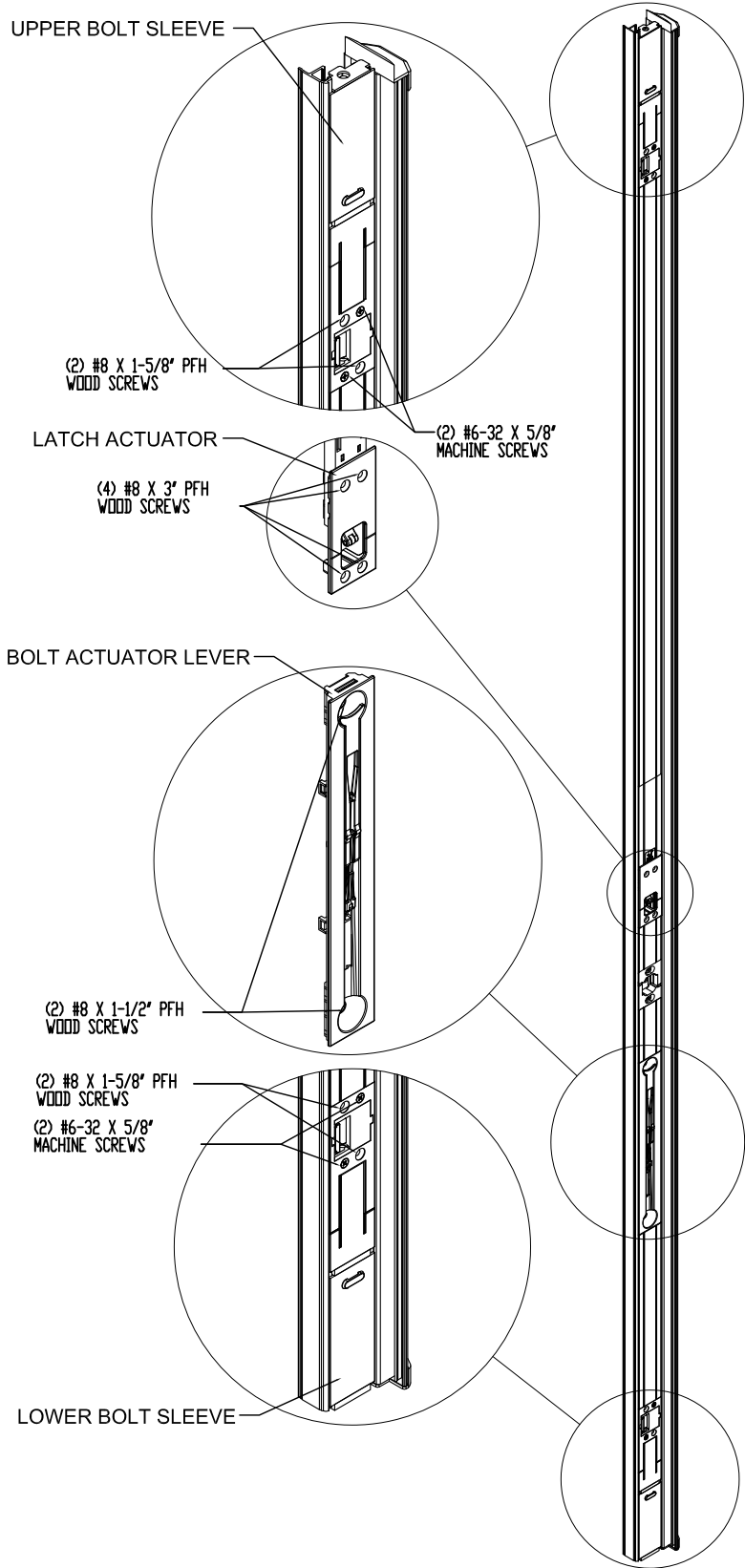
SCALE
NTS

DATE
07/30/13

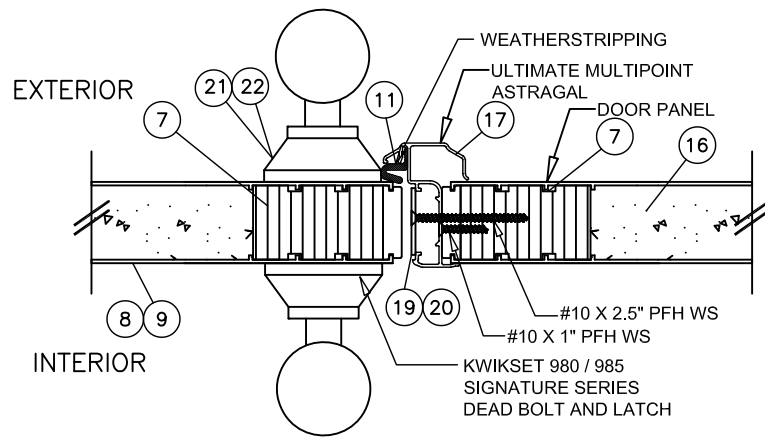
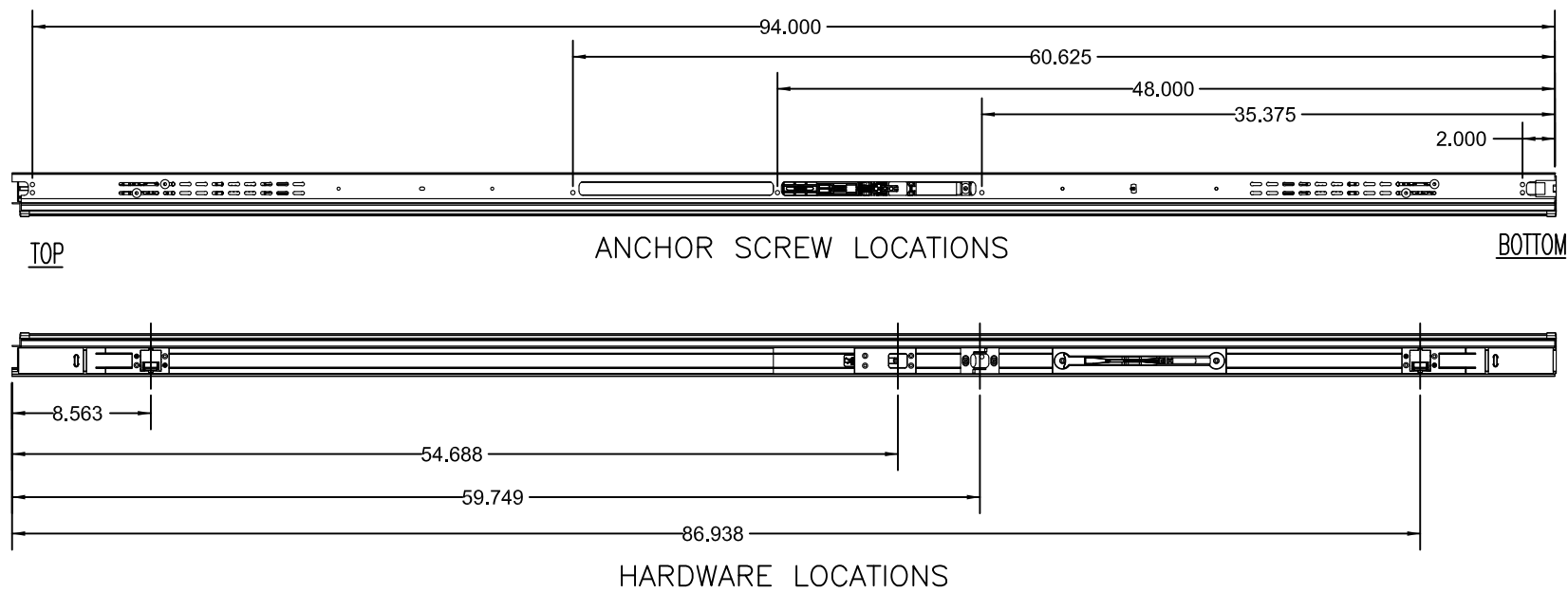
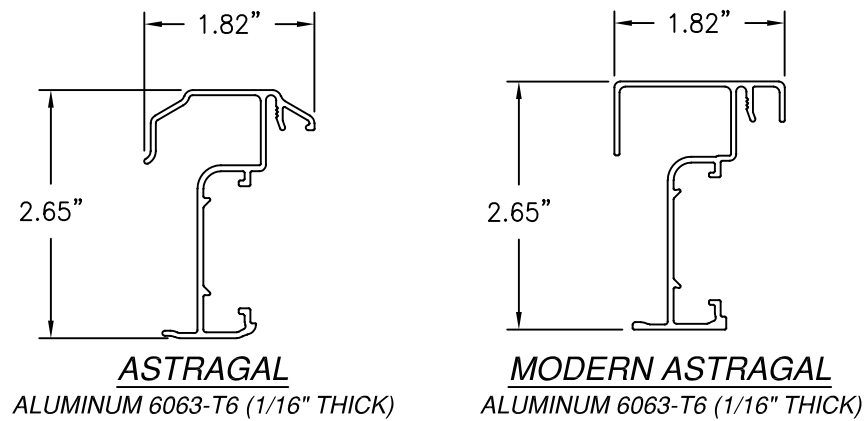
SHEET
1 OF 9

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



ULTIMATE MULTIPOINT ASTRAGAL



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

PLASTPRO GLAZED
FIBERGLASS DOOR
ASTRAGAL AND LOCK SET DETAILS

DRAWN:
R.M.

DWG NO.
NL-0010

REV
D

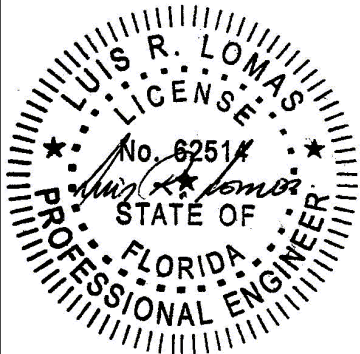
SCALE
NTS

DATE
07/30/13

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

UPPER BOLT SLEEVE

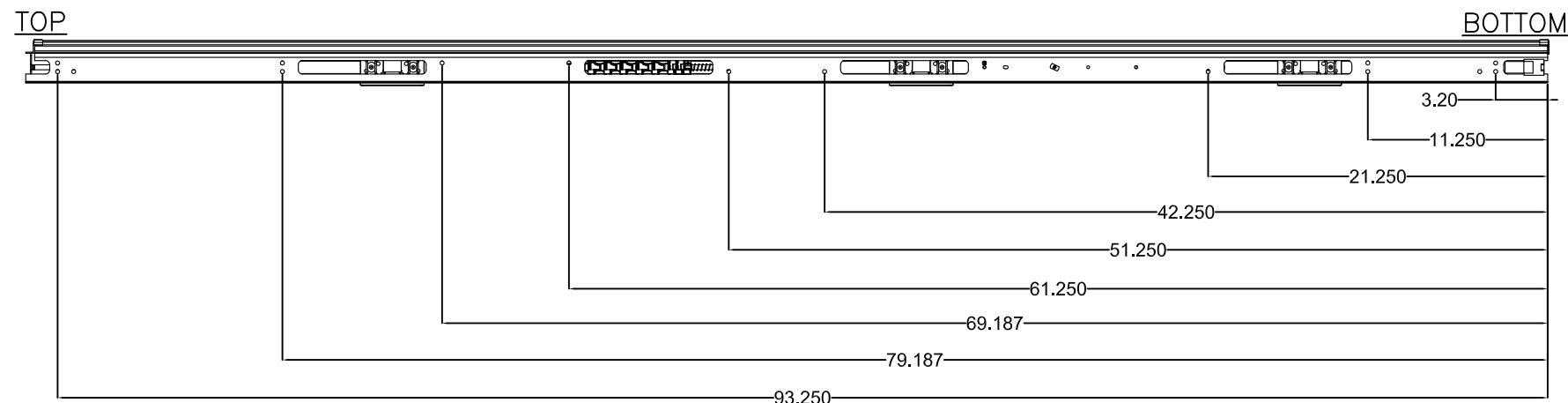
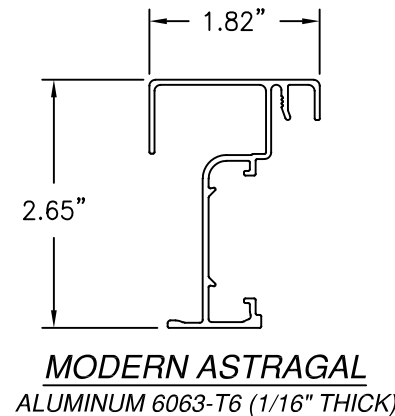
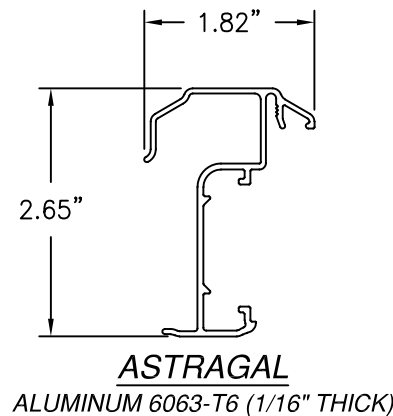
ROLLER STRIKE

BOLT ACUTATOR LEVER

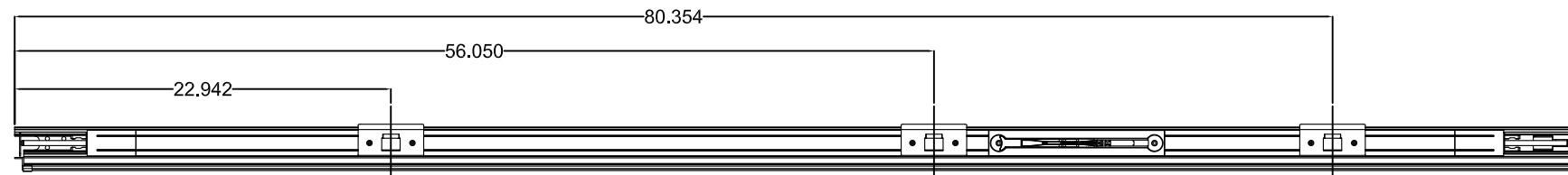
(2) #8 X 1-1/2" PFH
WOOD SCREWS

LOWER BOLT SLEEVE

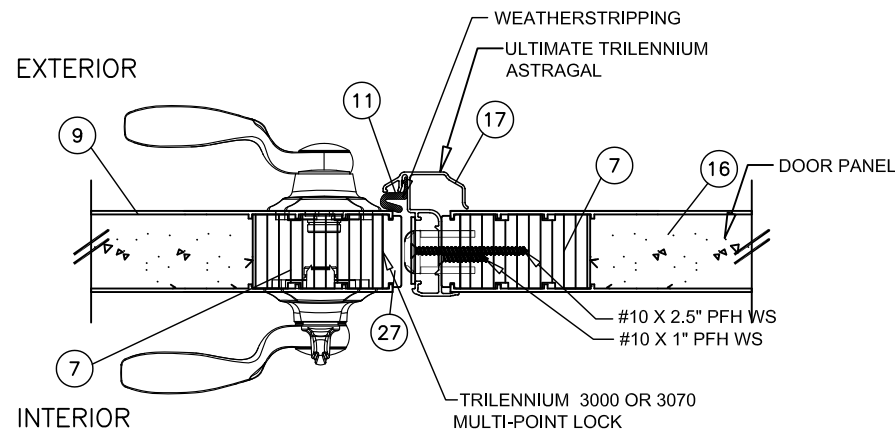
ULTIMATE TRILENNIUM ASTRAGAL



ANCHOR SCREW LOCATIONS



HARDWARE LOCATIONS



F
3 ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

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

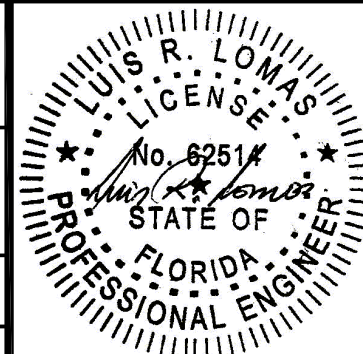
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

PLASTPRO GLAZED
FIBERGLASS DOOR
ASTRAGAL AND LOCK SET DETAILS

DRAWN: R.M.	DWG NO. NL-0010	REV D
SCALE NTS	DATE 07/30/13	SHEET 3 OF 9

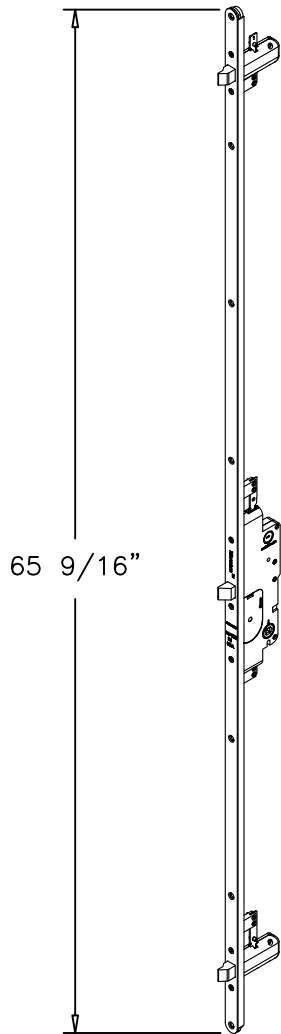
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024



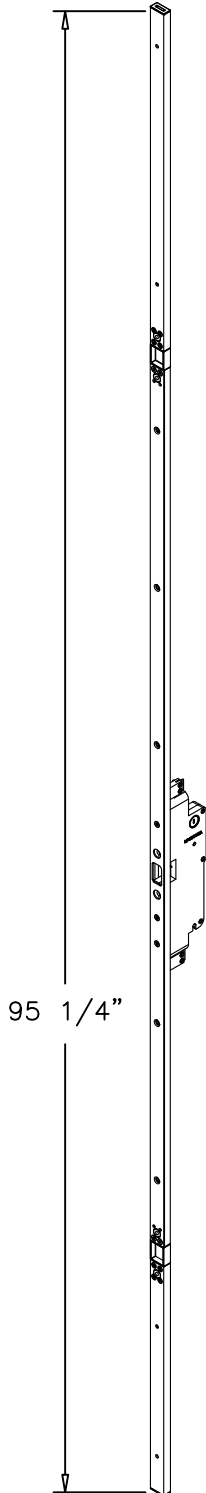
Luis R. Lomas P.E.
FL No.: 62514

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



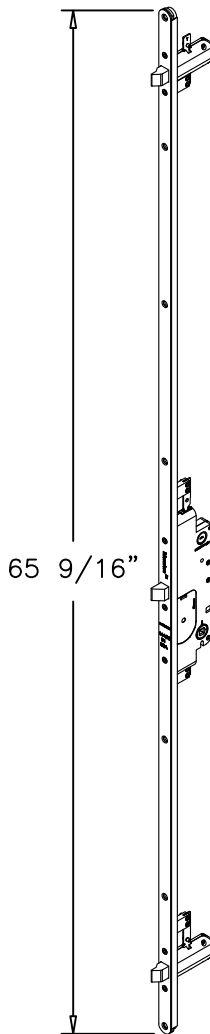
65 9/16"

TRILENNIUM
3000 - 8/0



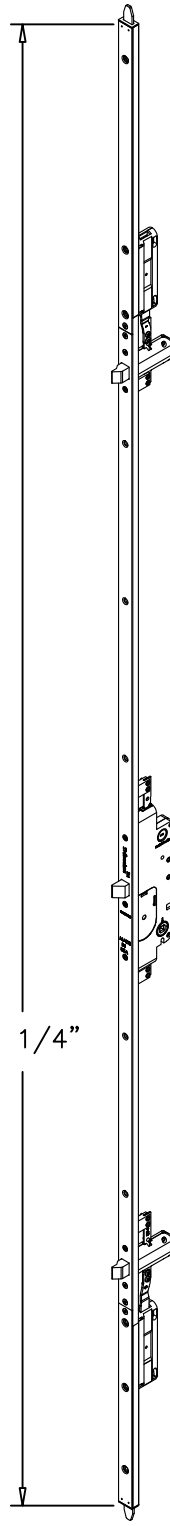
95 1/4"

TRILENNIUM
3020 8/0



65 9/16"

TRILENNIUM
3070 - 8/0



95 1/4"

TRILENNIUM
3500 - 8/0

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

PLASTPRO GLAZED
FIBERGLASS DOOR
TRILENNIUM LOCKS FOR 8/0 DOORS

DRAWN:
R.M.

DWG NO.

NL-0010

REV
D

SCALE NTS

DATE

07/30/13

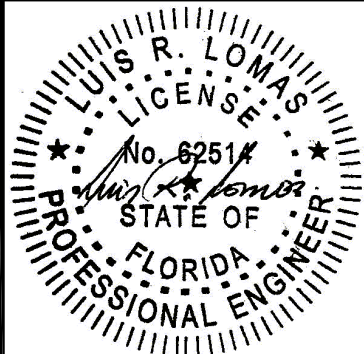
SHEET

5

OF 9

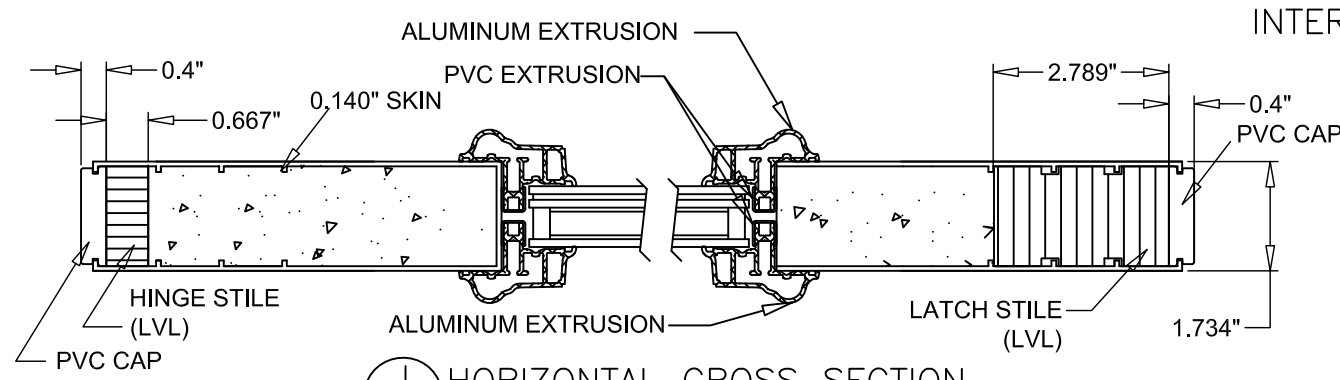
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024

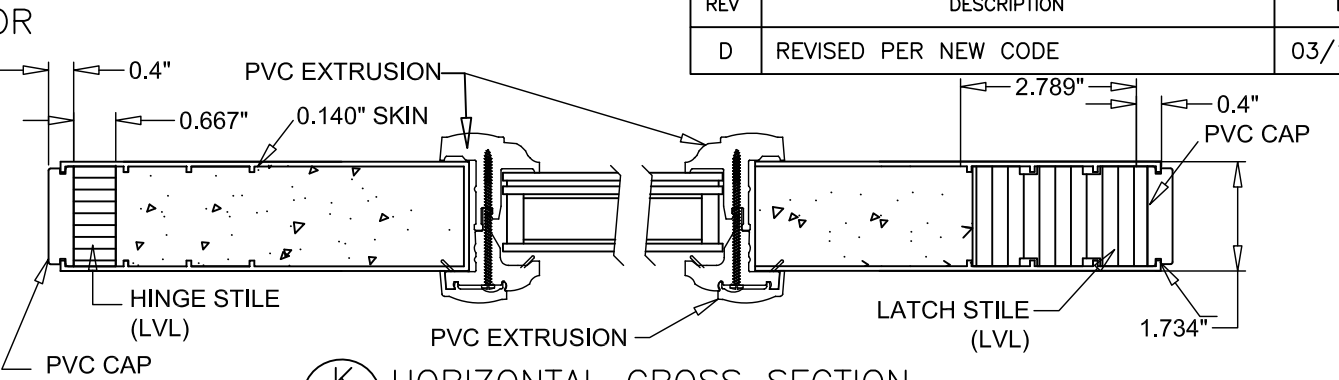


Luis R. Lomas P.E.
FL No.: 62514

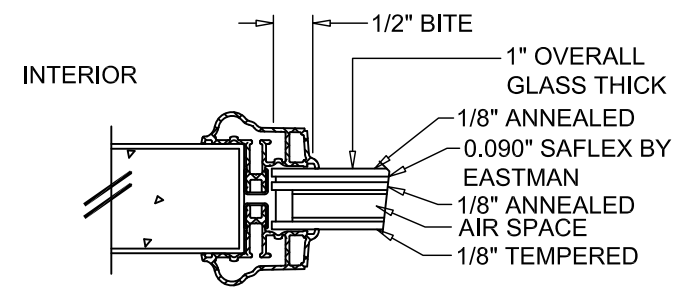
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



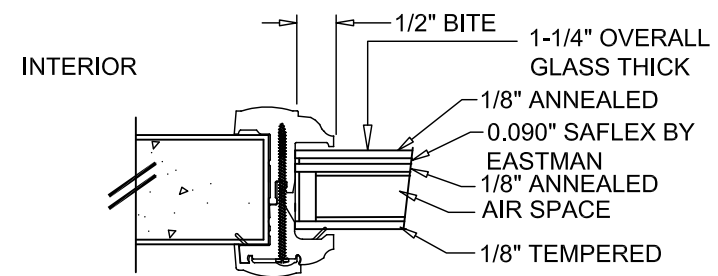
J
5 HORIZONTAL CROSS SECTION
ODL SEVERE WEATHER
GLAZING INSERT OPTION



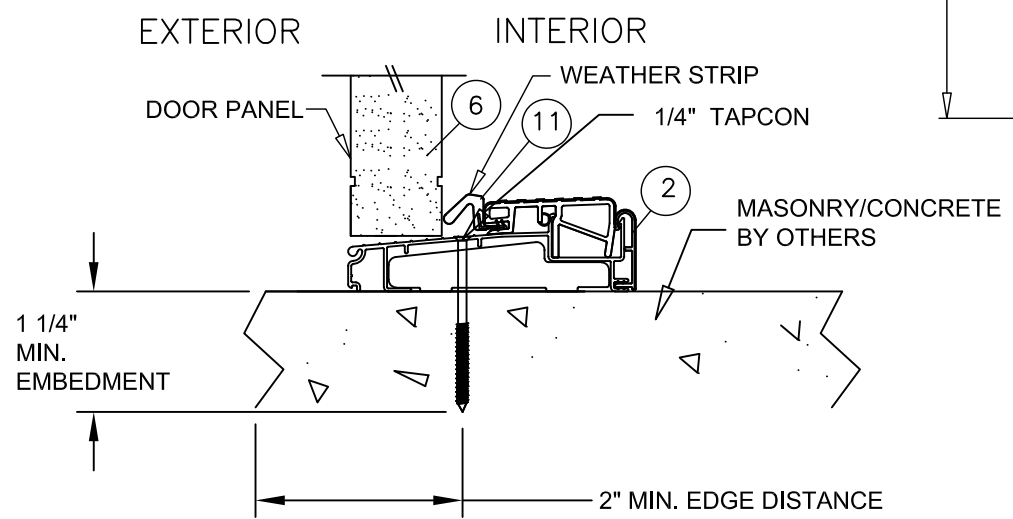
K
5 HORIZONTAL CROSS SECTION
RSL HURRICANE IMPACT
GLAZING INSERT OPTION



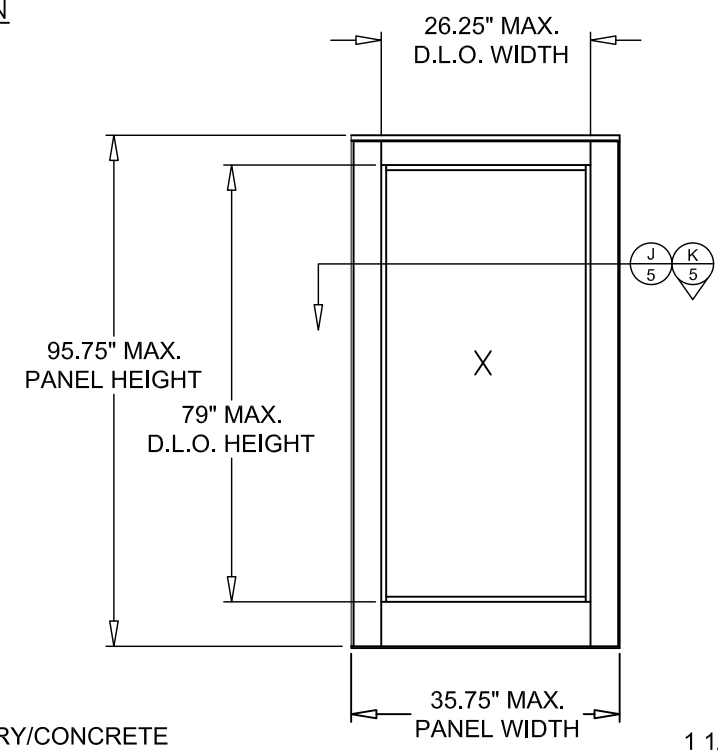
ODL GLAZING DETAIL
ALUMINUM SPACER



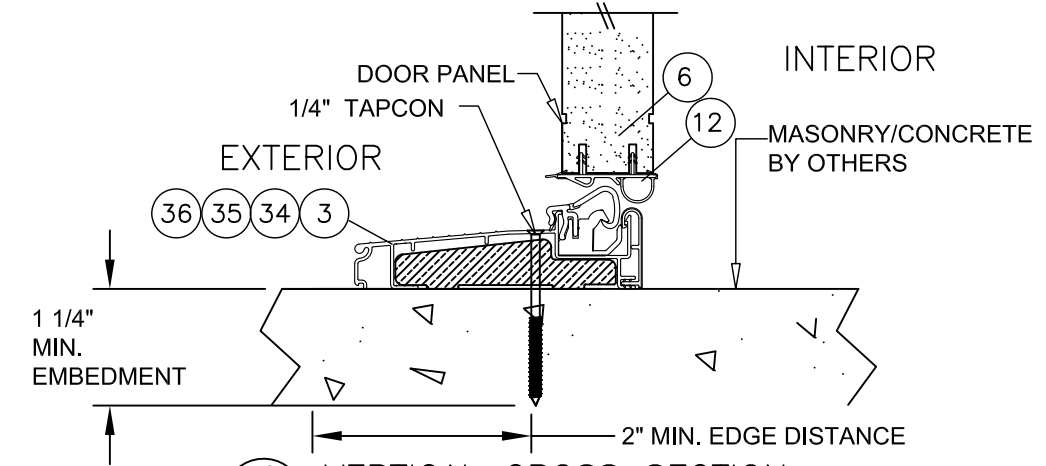
RSL GLAZING DETAIL
ALUMINUM SPACER



A
5 VERTICAL CROSS SECTION
OUTSWING MASONRY/CONCRETE INSTALLATION



PLASTPRO
GLAZED INSERT
FIBERGLASS



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

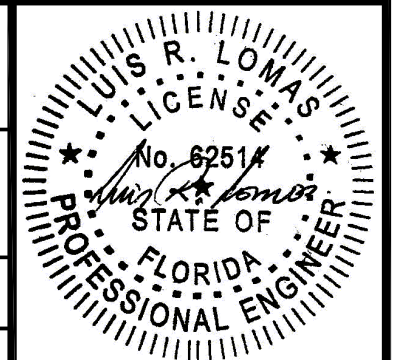
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

PLASTPRO GLAZED
FIBERGLASS DOOR
GLAZING INSERT AND SILL DETAILS

DRAWN: R.M.	DWG NO. NL-0010	REV D
SCALE NTS	DATE 07/30/13	SHEET 6 OF 9

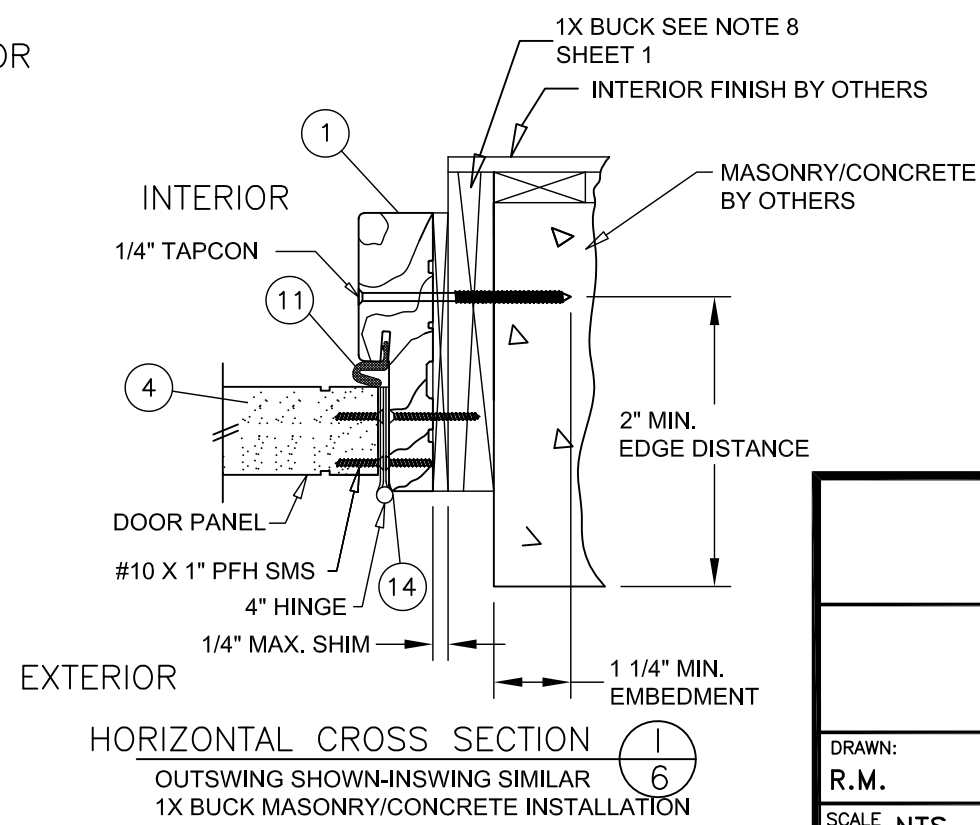
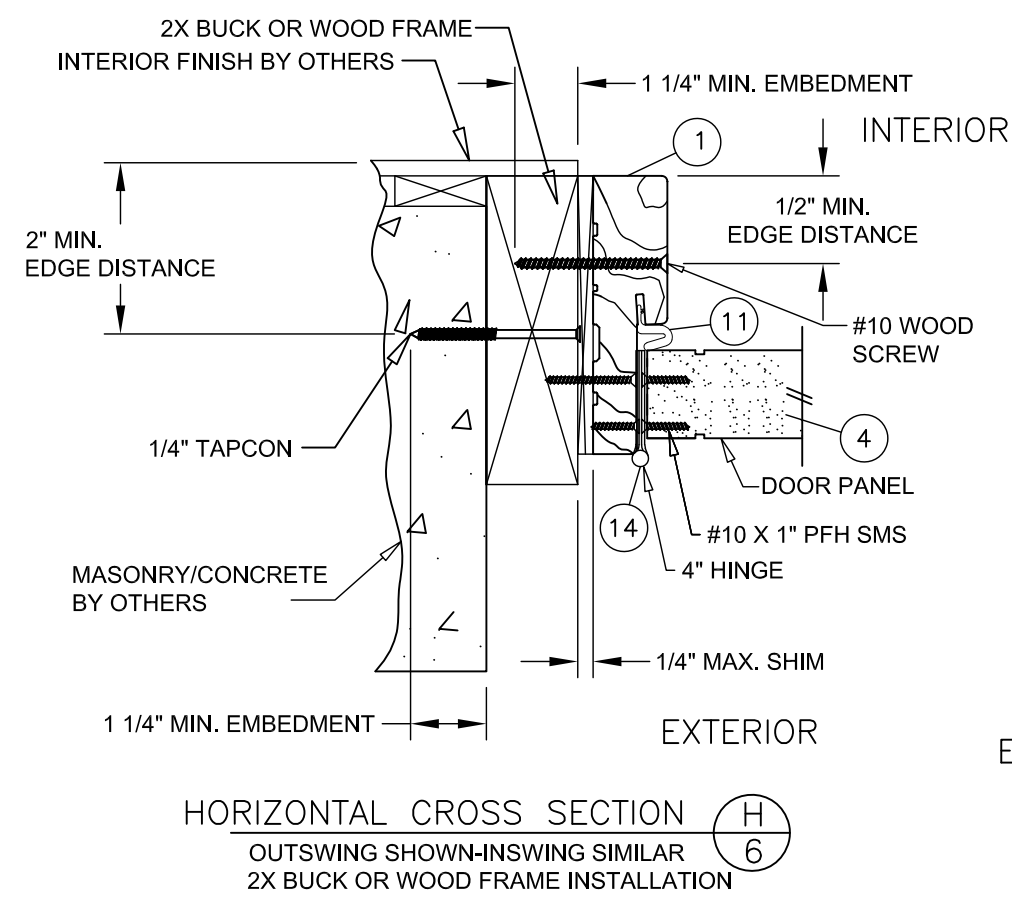
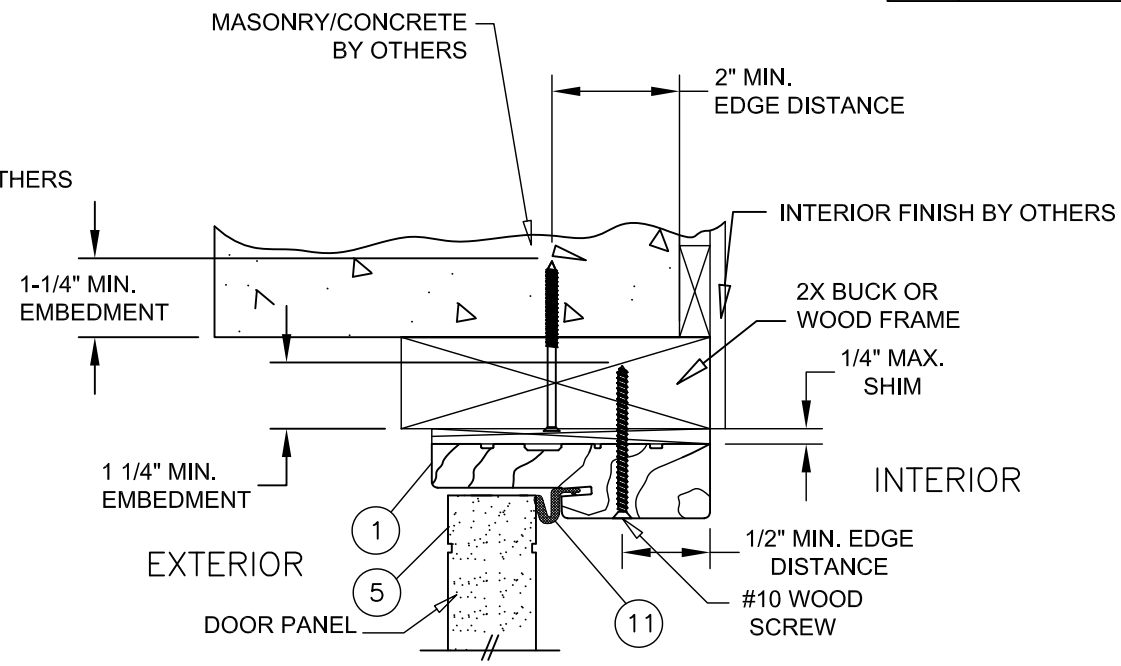
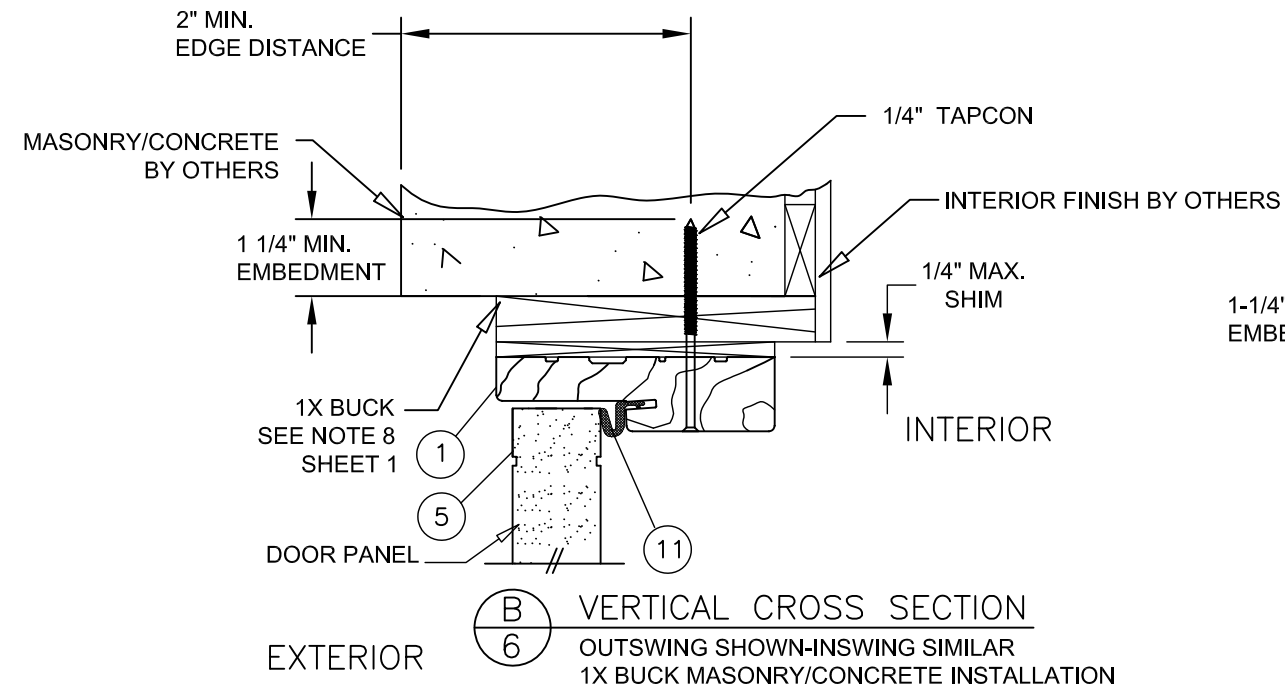
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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.



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

PLASTPRO GLAZED
FIBERGLASS DOOR
INSTALLATION DETAILS

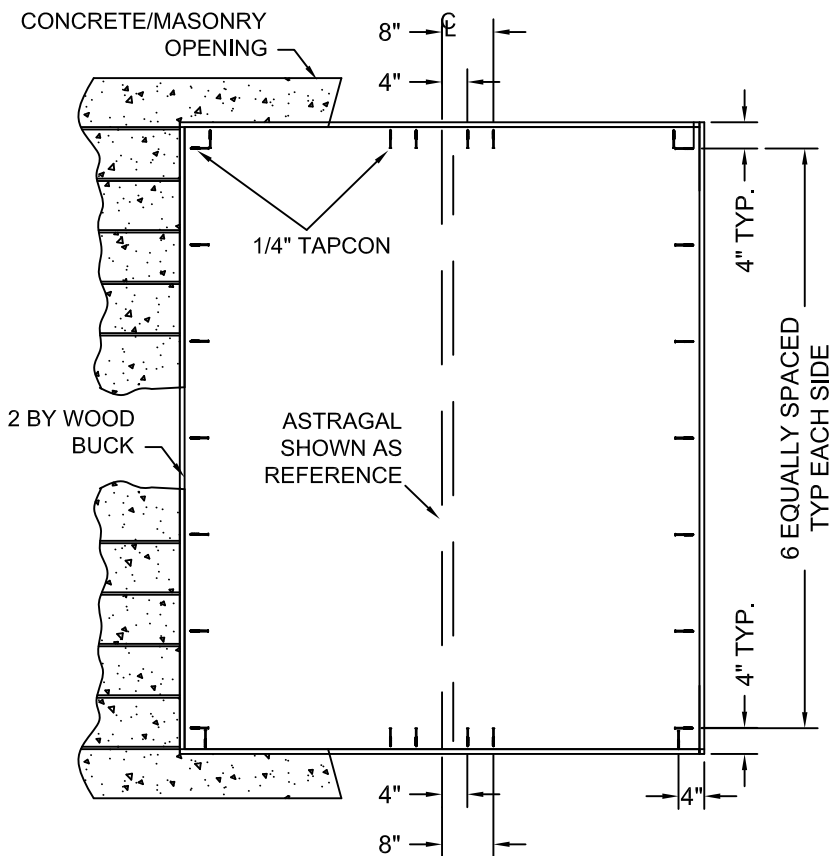
DRAWN: R.M.	DWG NO. NL-0010	REV D
SCALE NTS	DATE 07/30/13	SHEET 7 OF 9

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

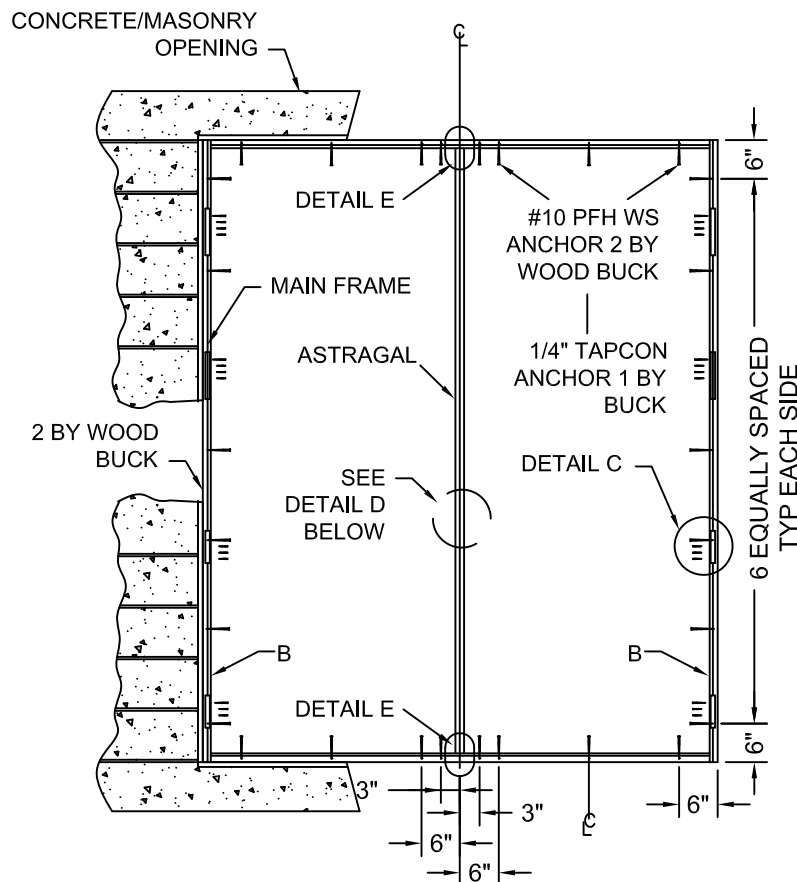
SIGNED: 04/01/2024

LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

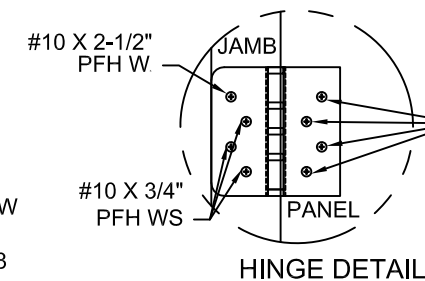
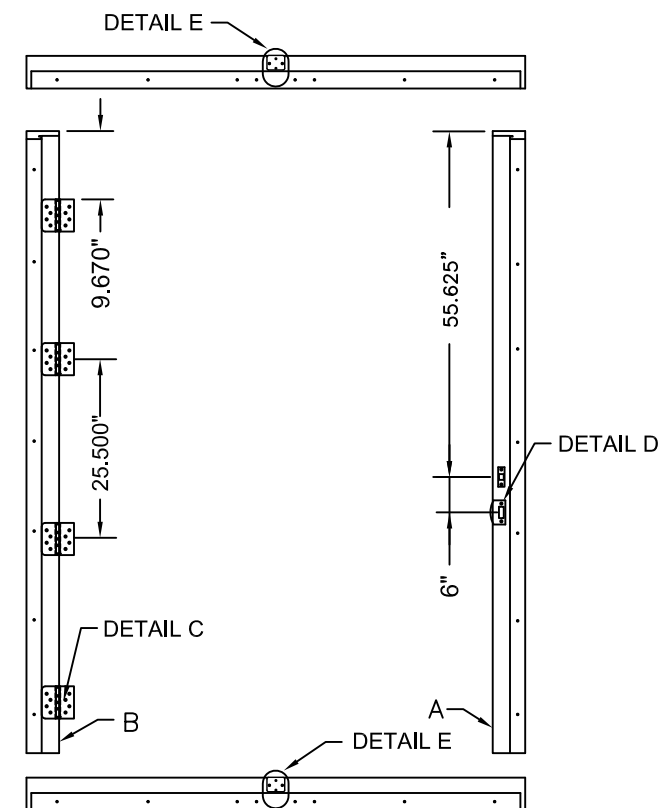
Luis R. Lomas P.E.
FL No.: 62514



WOOD BUCK TO
SUBSTRATE ANCHORING
XX



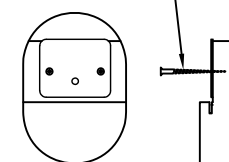
MAIN FRAME TO
BUCK ANCHORING
XX



HINGE DETAIL

#10 X 1" PFH WS

(2) #10 X 2 1/2" PFH WS

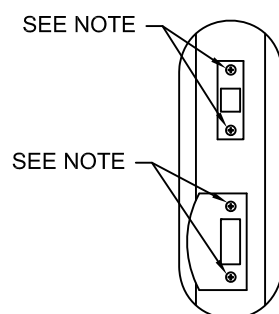


HEAD STRIKE PLATE DETAIL

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

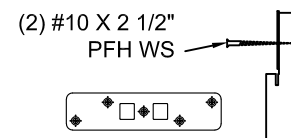
INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO 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 FOR THE PROJECT OF INSTALLATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS SHOWN 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).



DETAIL D

NOTE:
ATTACH STRIKE & DEADBOLT
PLATES TO STRIKE & BUCK
WITH #10 X 2" FH WOOD SCREW
ATTACH STRIKE & DEAD BOLT
PLATES TO ASTRAGAL WITH #8
X 2 1/2" FH WOOD SCREWS
ATTACH STRIKE TO JAMB &
SIDELITE JAMB WITH #10 X 1 3/4"
FH WOOD SCREW.



HEAD/SILL STRIKE PLATE DETAIL

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

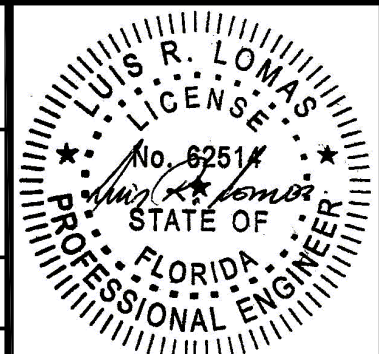
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

PLASTPRO GLAZED
FIBERGLASS DOOR
ELEVATION AND ANCHOR LAYOUT

DRAWN: R.M.	DWG NO. NL-0010	REV D
SCALE NTS	DATE 07/30/13	SHEET 8 OF 9

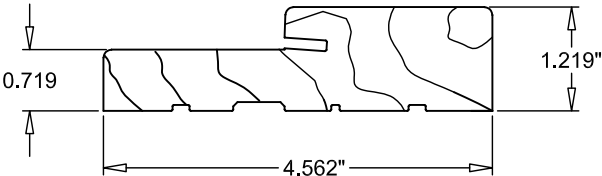
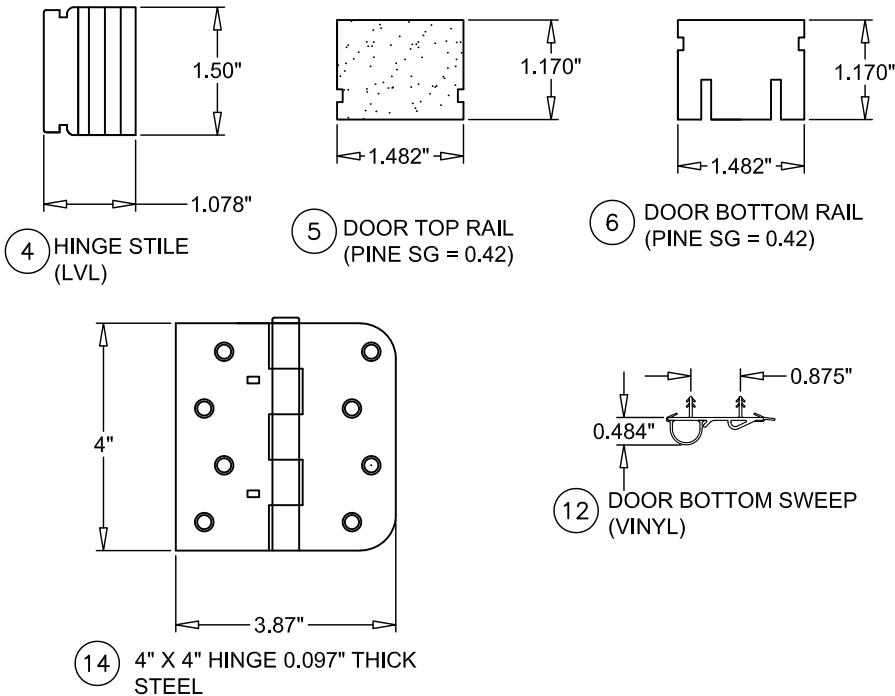
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024

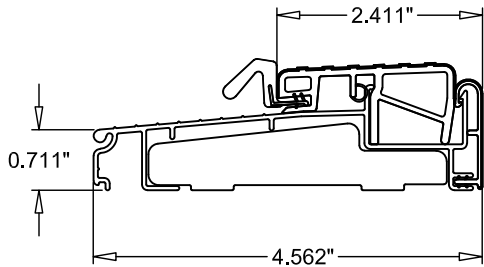


Luis R. Lomas P.E.
FL No.: 62514

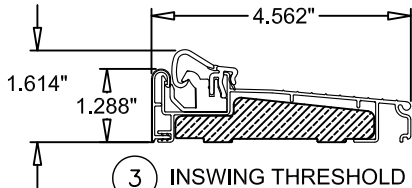
BILL OF MATERIAL			
ITEM #	DESCRIPTION	QTY.	MATERIAL
1	HEAD / JAMB		
2	OUTSWING BUMP THRESHOLD ZOB4565		
3	INSWING ADJUSTABLE THRESHOLD ZACL4565		
4	DOOR STILE - CORE MATERIAL WOOD OR LVL		
5	DOOR TOP RAIL		
6	DOOR BOTTOM RAIL		
7	DOOR LOCK STILE - CORE MATERIAL WOOD OR LVL		
8	NOT USED		
9	DOOR SKIN (MIN. 0.140" 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 PLASTPRO		
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 (SIGNATURE SERIES)		
22	KWICKSET DEADBOLT (SIGNATURE 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 ZACLA4565		
35	INSWING THRESHOLD ZAIL4565		
36	INSWING THRESHOLD ZAILAA4565		



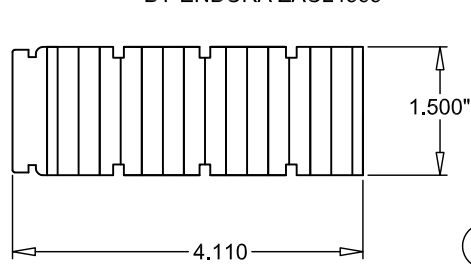
1 FRAME HEAD / JAMB
BY ENDURA (PINE SG = 0.37)



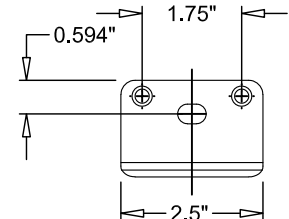
2 OUTSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZOBL4565



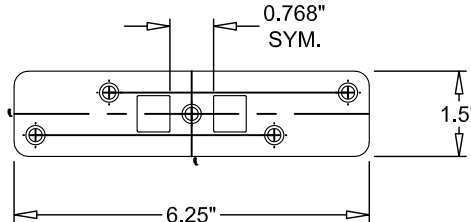
3 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZACL4565



7 LOCK STILE
(LVL)



25 ASTRAGAL STRIKE PLATE
STEEL



23 3500 / 3020 STRIKE PLATE
STEEL

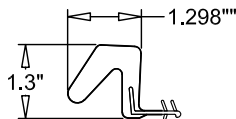
GENERAL PLASTICS NOTES:

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

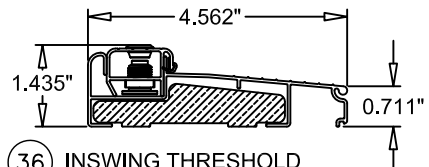
Test Description	Test Method	Test Result
SELF IGNITION TEMP	ASTM D1929	Passed (>650 °F)
RATE OF BURNING	ASTM D635	Passed (C-1:<1.0 in/min)
SMOKE DENSITY	ASTM D2843	Passed (<75%)
TENSILE STRENGTH*	ASTM D638	Passed (<10%)

3. PVC PLASTICS TESTING OF RSL LITE FRAME MATERIAL:

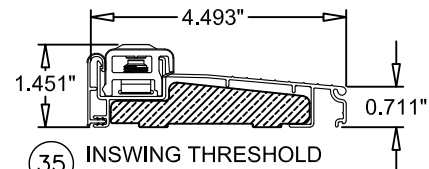
Test Description	Test Method	Test Result
SELF IGNITION TEMP	ASTM D1929	Passed (>650 °F)
RATE OF BURNING	ASTM D635	Passed (C-1:<1.0 in/min)
SMOKE DENSITY	ASTM D2843	Passed (<75%)
FLEXURAL STRENGTH*	ASTM D790	BEFORE = 3366 PSI AFTER = *3058 PSI



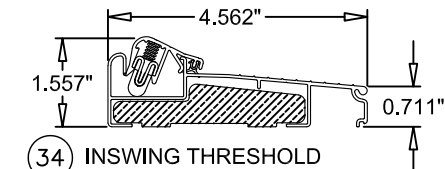
11 WEATHERSTRIPPING
PE-650 FOAM



36 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZAILAA4565



35 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZAIL4565



34 INSWING THRESHOLD
ALUMINUM / WOOD
BY ENDURA ZACLA4565

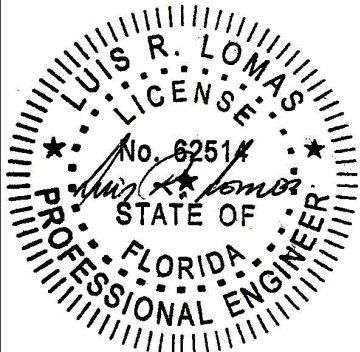
SIGNED: 04/01/2024

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

PLASTPRO GLAZED
FIBERGLASS DOOR
BILL OF MATERIALS & COMPONENTS

DRAWN: R.M.	DWG NO. NL-0010	REV D
SCALE NTS	DATE 07/30/13	SHEET 9 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