

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED CORROSION CHART	09/04/26	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. 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.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/2".
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T5.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

14. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI 1/8" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 - 4	INSTALLATION DETAILS
5	COMPONENTS

US ALUMINUM

950 SOLON RD.
WAXAHACHIE, TX 75165

SERIES 400 DOUBLE DOOR
NON-IMPACT
NOTES

DRAWN:
A.P.

DWG NO.
08-01835

REV
C

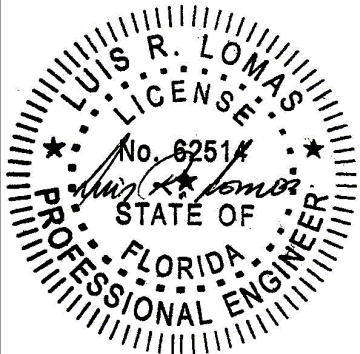
SCALE NTS

DATE 10/22/12

SHEET 1 OF 5

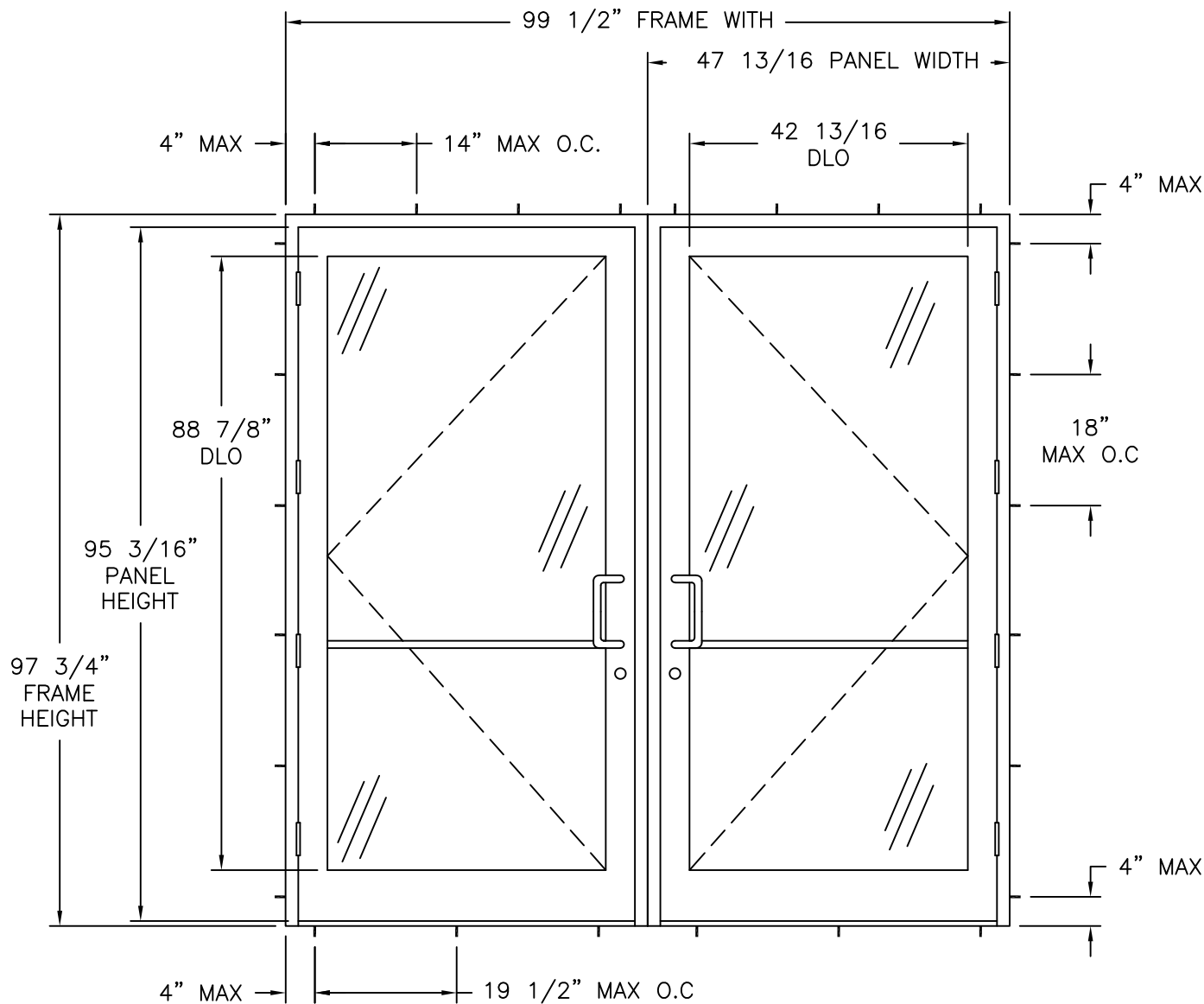
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/04/2026



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED CORROSION CHART	09/04/26	R.L.



SERIES 400 DOUBLE DOOR
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±20.0PSF	NONE
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE THE WATER REQUIREMENT IS NOT NEEDED	

OTHER SIZES APPROVED, SEE CHART #1 THIS SHEET

HARDWARE SCHEDULE
A. PR-032 PULL HANDLE
B. PR-034 PUSH BAR
C. DH-129 HOOK BOLT LOCK
D. (4) DH-009 FIVE BARREL STAINLES STEEL HINGE
E. DM008 FLUSH BOLT (TOP & BOTTOM INACTIVE PANEL)

CHART #1 Design pressure rating (psf)										
Panel Height (in)	Panel width (in)									
	24.81		30.81		35.81		42.81		47.81	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.19	44.9	44.9	40.7	40.7	37.5	37.5	33.7	33.7	31.4	31.4
80.19	44.2	44.2	39.8	39.8	36.5	36.5	32.5	32.5	30.1	30.1
82.19	43.5	43.5	38.9	38.9	35.5	35.5	31.3	31.3	28.7	28.7
83.19	43.2	43.2	38.5	38.5	35.0	35.0	30.7	30.7	28.0	28.0
86.19	42.1	42.1	37.2	37.2	33.5	33.5	28.9	28.9	26.0	26.0
88.19	41.4	41.4	36.3	36.3	32.5	32.5	27.7	27.7	24.7	24.7
90.19	40.7	40.7	35.5	35.5	31.5	31.5	26.5	26.5	23.4	23.4
92.19	40.0	40.0	34.6	34.6	30.5	30.5	25.3	25.3	22.0	22.0
94.19	39.3	39.3	33.7	33.7	29.5	29.5	24.1	24.1	20.7	20.7
95.19	39.0	39.0	33.3	33.3	29.0	29.0	23.5	23.5	20.0	20.0

Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S

US ALUMINUM
950 SOLON RD.
WAXAHACHIE, TX 75165

SERIES 400 DOUBLE DOOR
NON-IMPACT
ELEVATION

DRAWN:
A.P.

DWG NO.
08-01835

REV
C

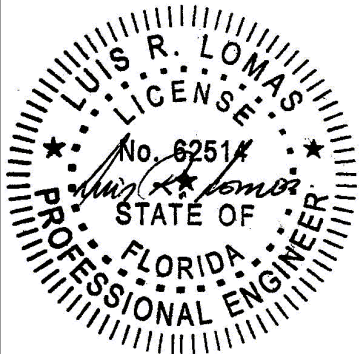
SCALE NTS

DATE 10/22/12

SHEET 2 OF 5

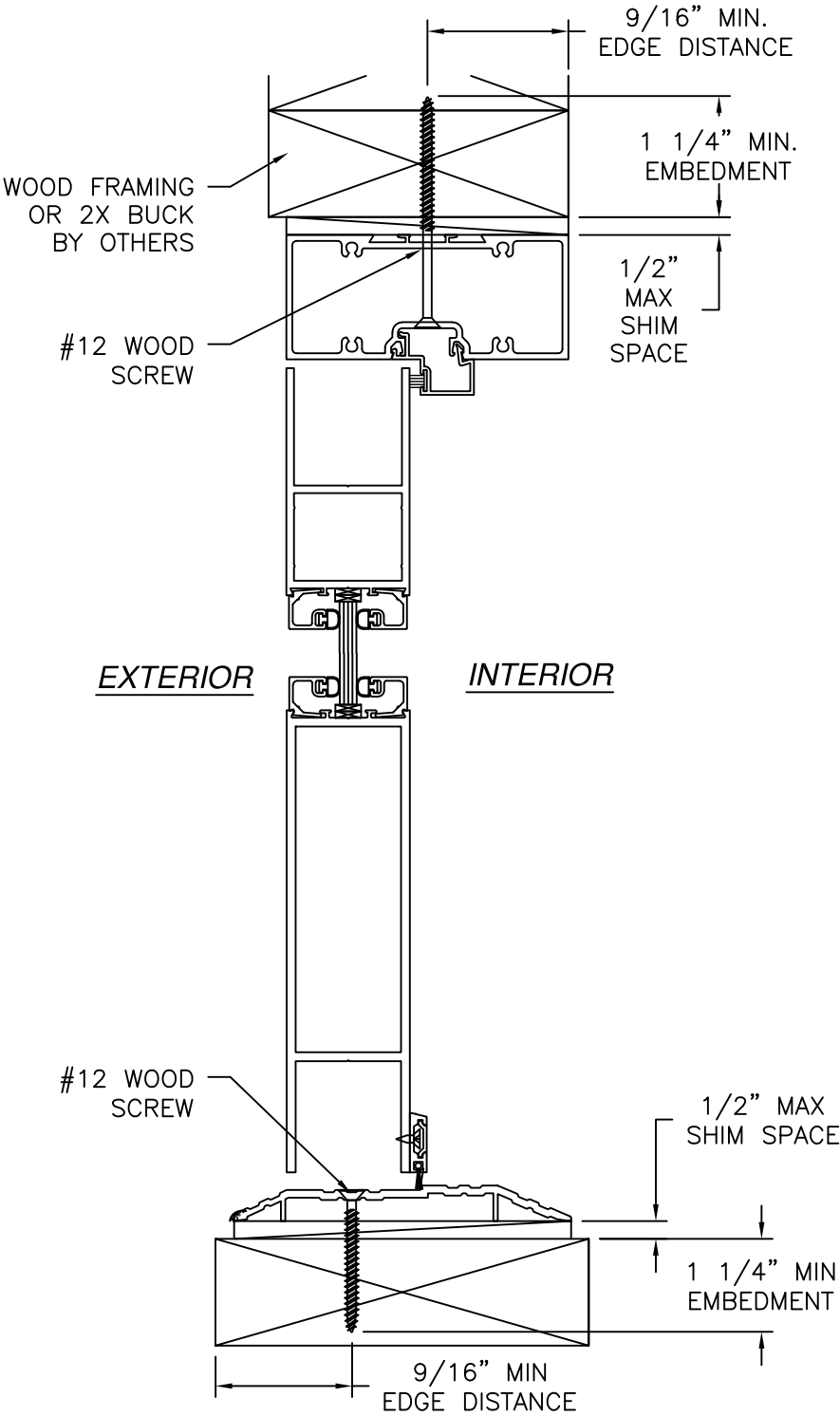
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/04/2026

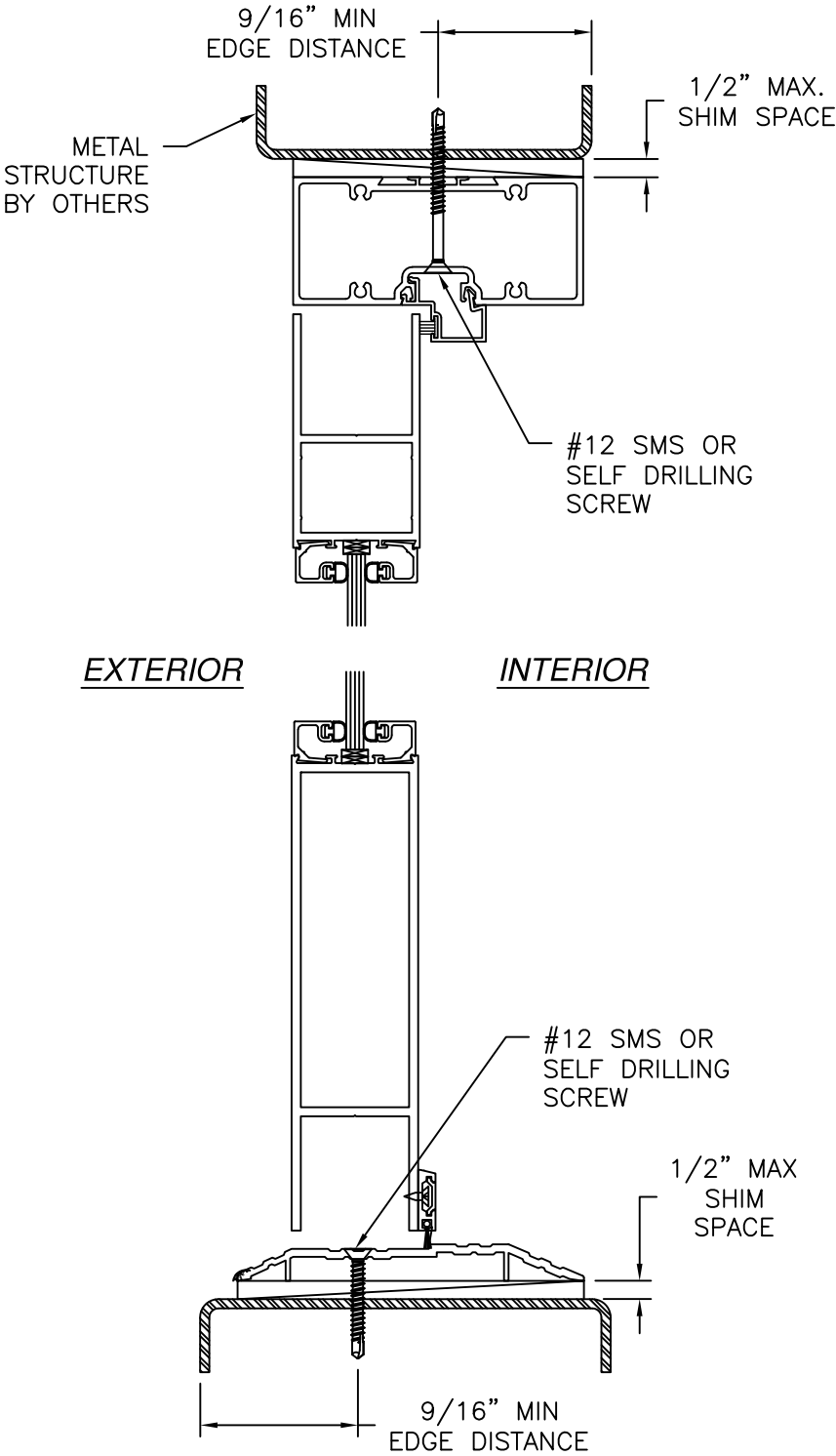


Luis R. Lomas P.E.
FL No.: 62514

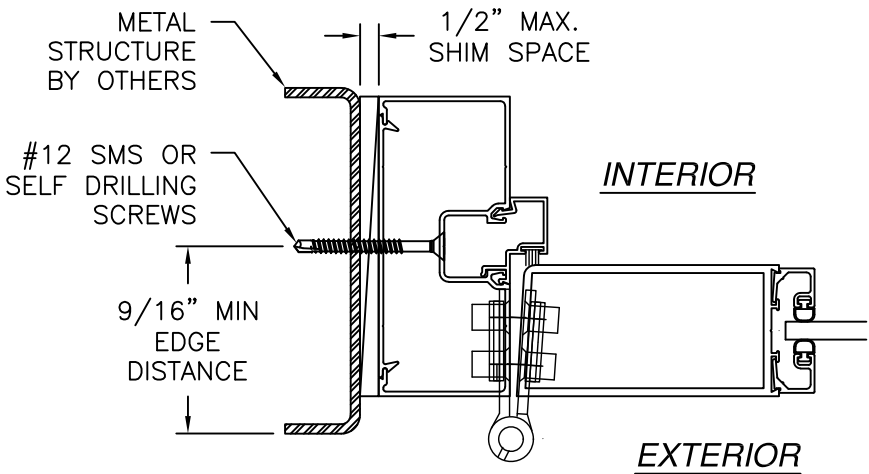
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED CORROSION CHART	09/04/26	R.L.



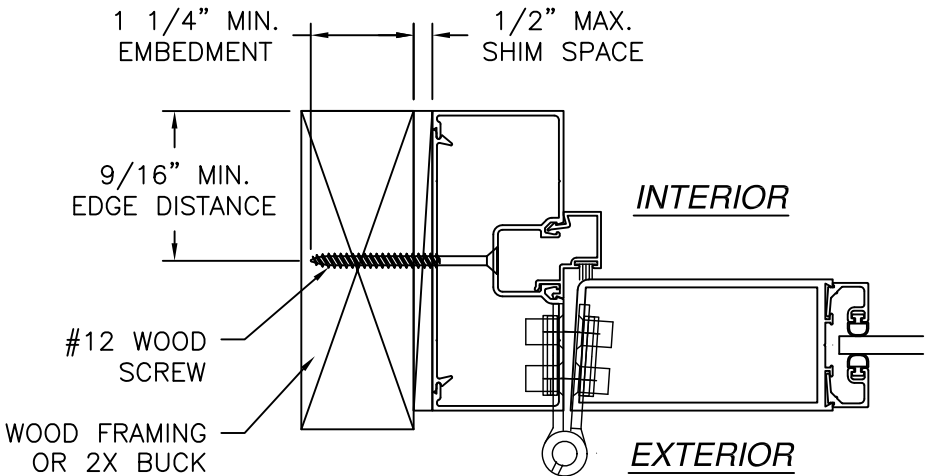
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

US ALUMINUM

950 SOLON RD.
WAXAHACHIE, TX 75165

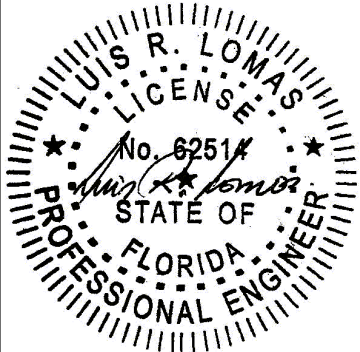
SERIES 400 DOUBLE DOOR
NON-IMPACT
INSTALLATION DETAILS

DRAWN: A.P.	DWG NO. 08-01835	REV C
SCALE NTS	DATE 10/22/12	SHEET 3 OF 5

L. ROBERTO LOMAS P.E.

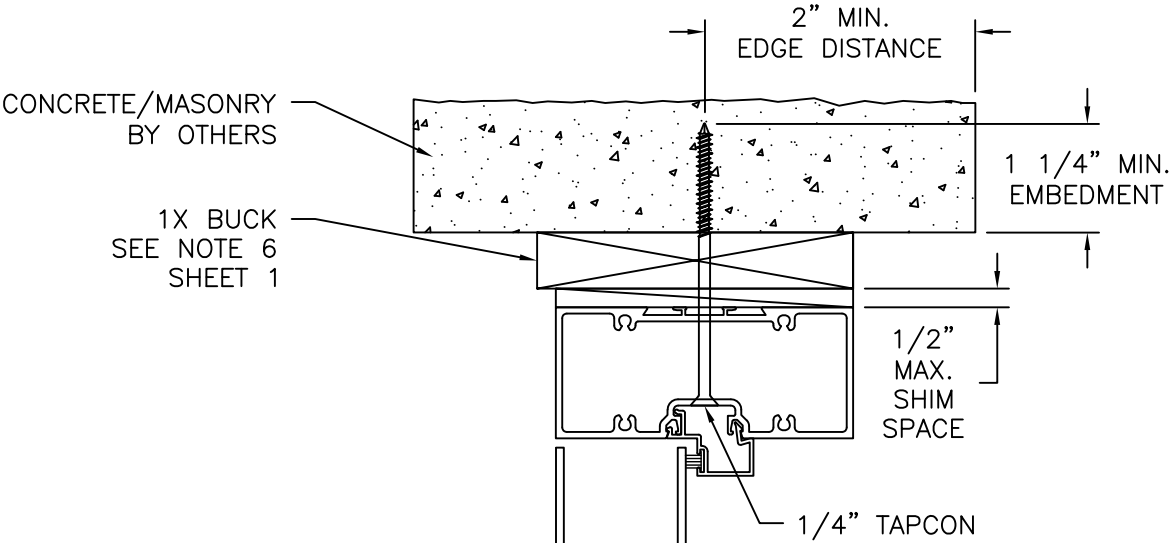
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/04/2026



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED CORROSION CHART	09/04/26	R.L.



EXTERIOR

INTERIOR

1/4" TAPCON

1X BUCK
SEE NOTE 6
SHEET 1

1/2" MAX
SHIM SPACE

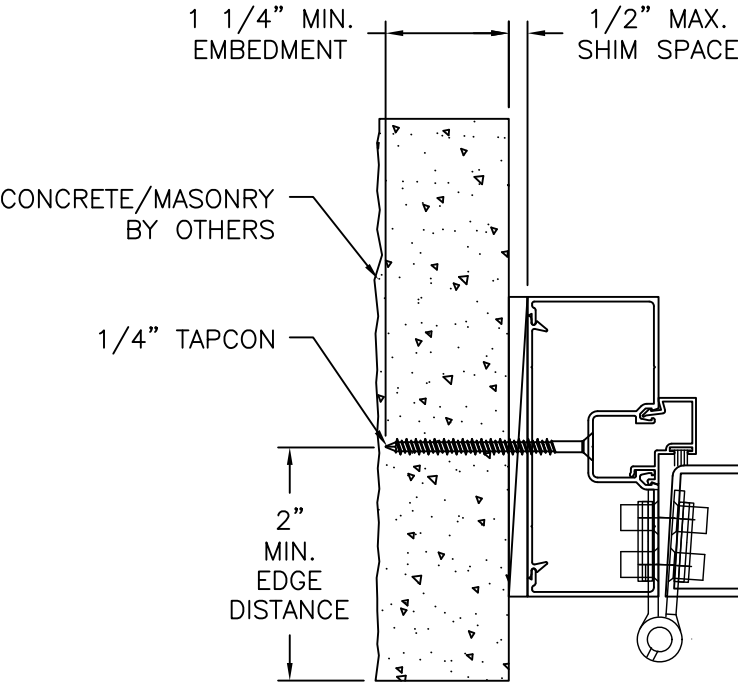
1 1/4" MIN
EMBEDMENT

CONCRETE/MASONRY
BY OTHERS

2" MIN.
EDGE DISTANCE

VERTICAL CROSS SECTION

CONCRETE/MASONRY INSTALLATION WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO JAMB
INSTALLATION DETAILS



INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER
TO HEAD AND SILL INSTALLATION DETAILS

NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS,
NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE
DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 09/04/2026

US ALUMINUM

950 SOLON RD.
WAXAHACHIE, TX 75165

SERIES 400 DOUBLE DOOR
NON-IMPACT
INSTALLATION DETAILS

DRAWN:
A.P.

DWG NO.
08-01835

SCALE
NTS

DATE
10/22/12

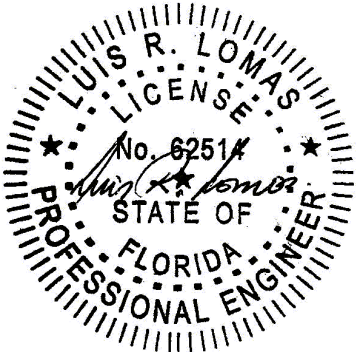
SHEET
4 OF 5

REV
C

L. ROBERTO LOMAS P.E.

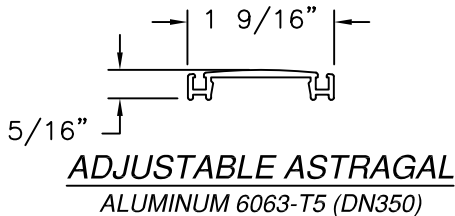
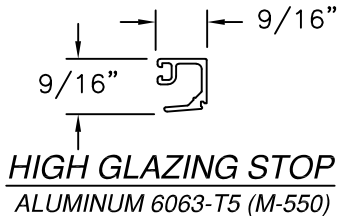
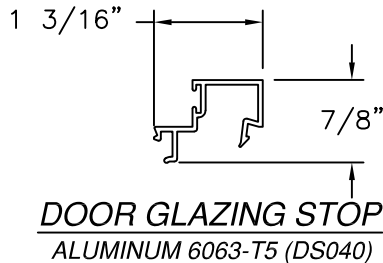
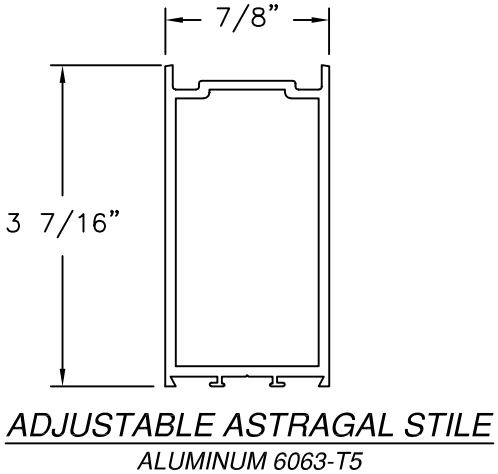
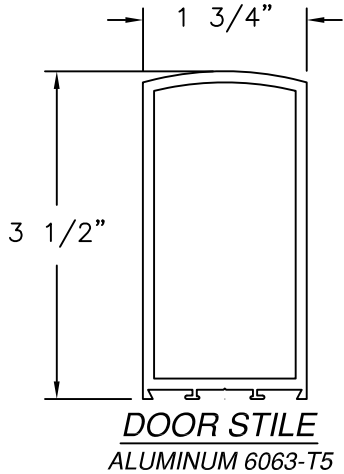
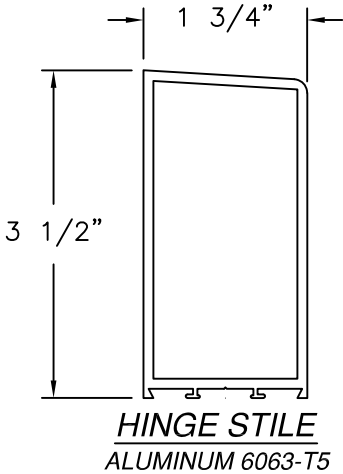
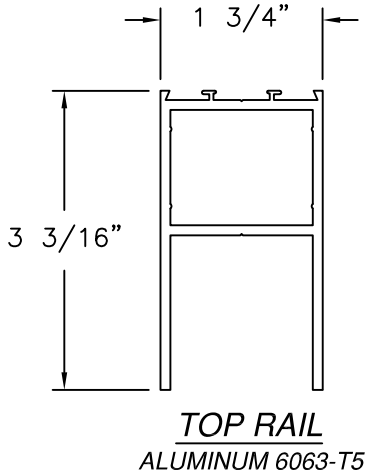
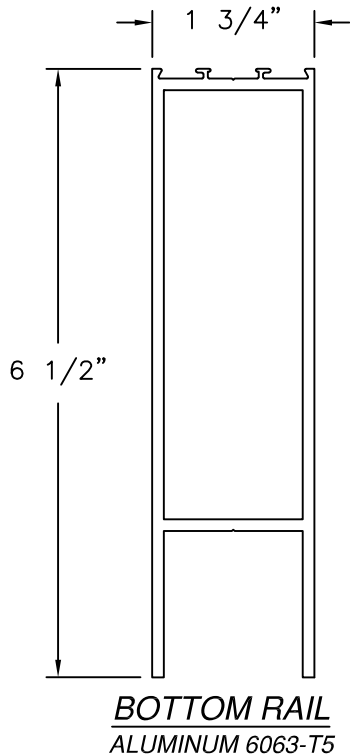
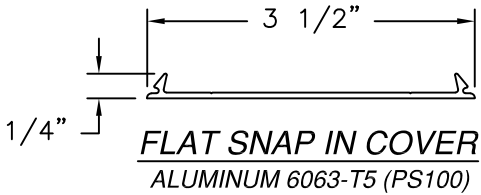
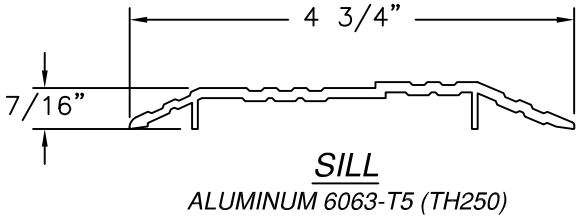
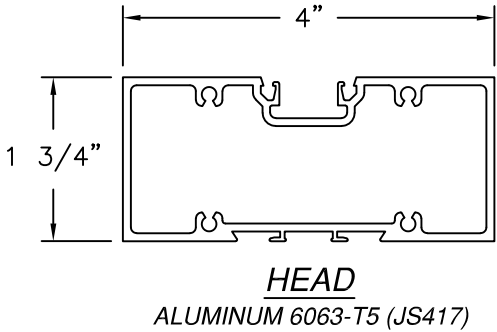
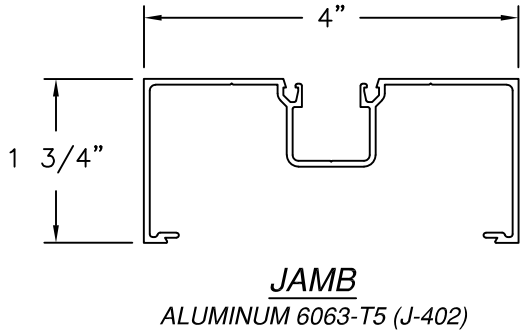
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADDED CORROSION CHART	09/04/26	R.L.



US ALUMINUM

950 SOLON RD.

WAXAHACHIE, TX 75165

SERIES 400 DOUBLE DOOR

NON-IMPACT

COMPONENTS

DRAWN: A.P.

DWG NO. 08-01835

REV C

SCALE NTS

DATE 10/22/12

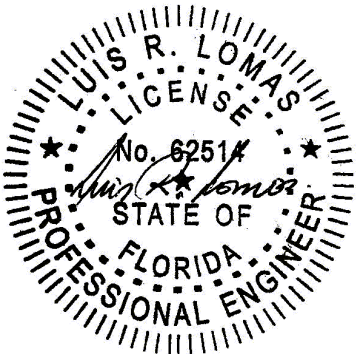
SHEET 5 OF 5

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/04/2026



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