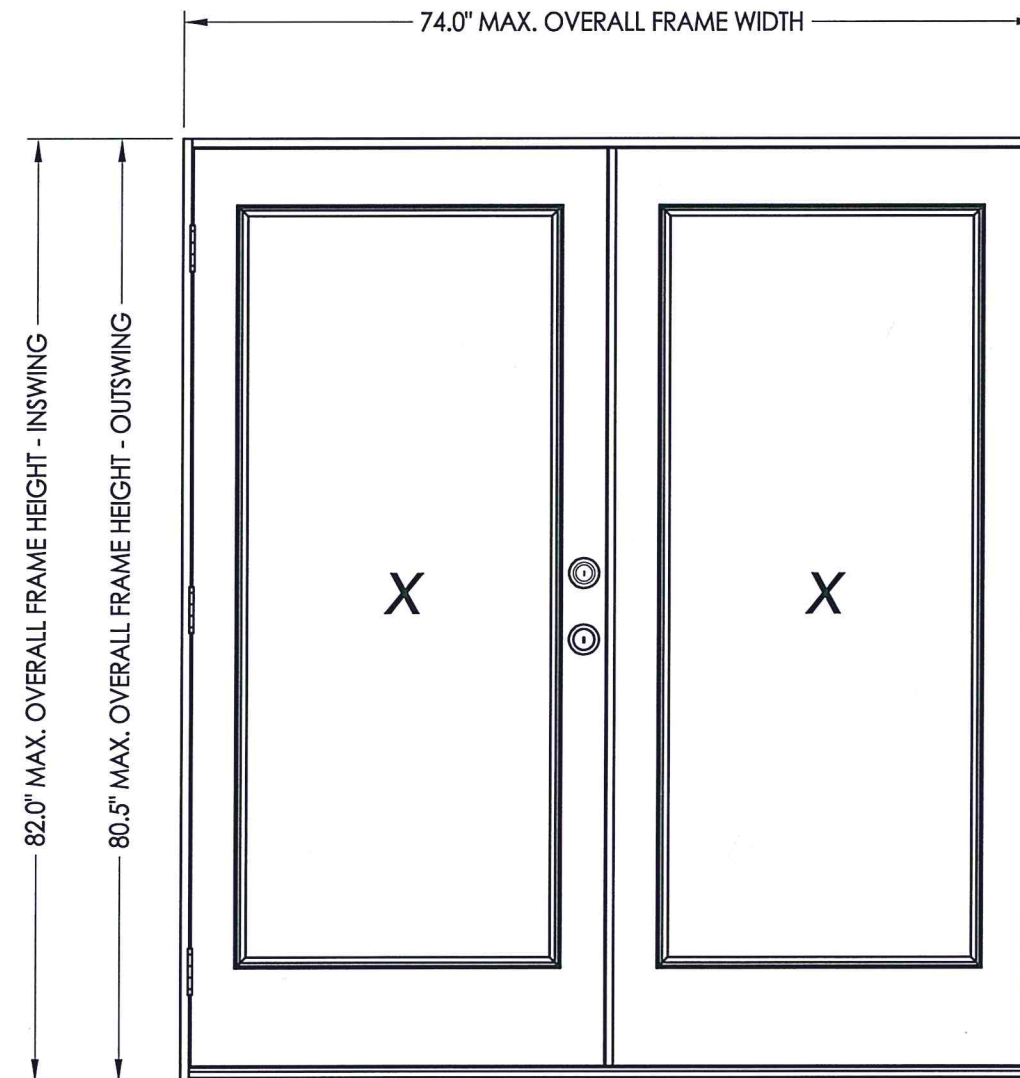




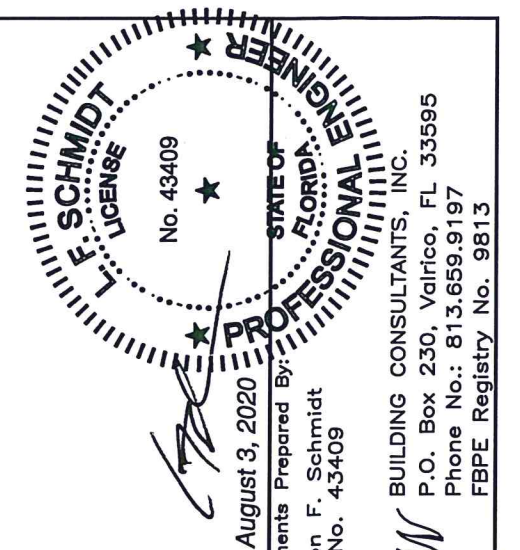
DIAMOND DOOR SERIES
FLUSH GLAZED FIBERGLASS DOORS
INSWING / OUTSWING
"NON-IMPACT"

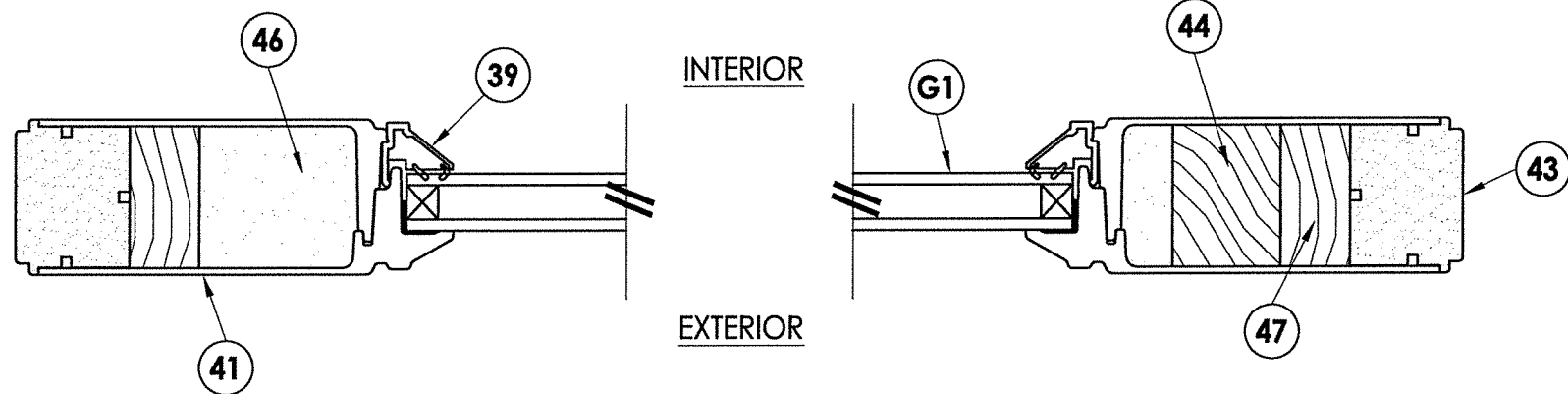
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction
7	Endura astragal details
8	Bill of materials, glazing detail & components

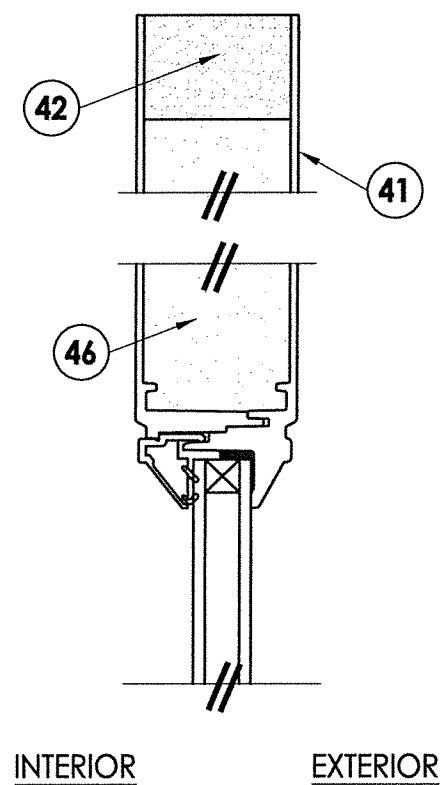
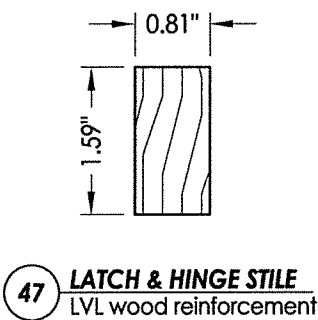
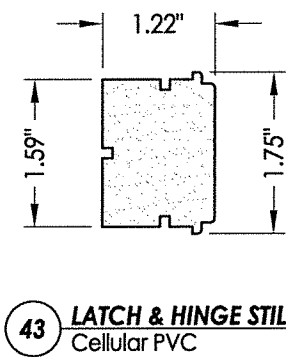
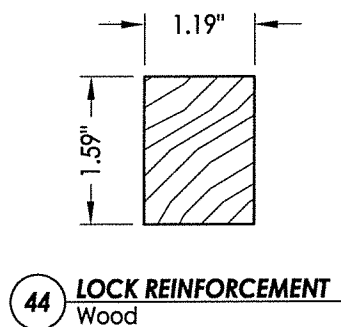
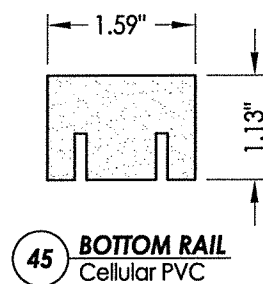
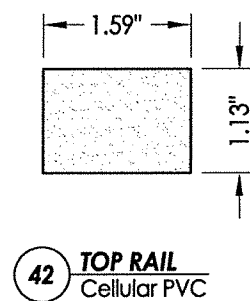


SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	74.0" x 82.0"	26.25" x 65.93"	G1	+50.0	-50.0
OUTSWING	74.0" x 80.5"	26.25" x 65.93"		+50.0	-50.0

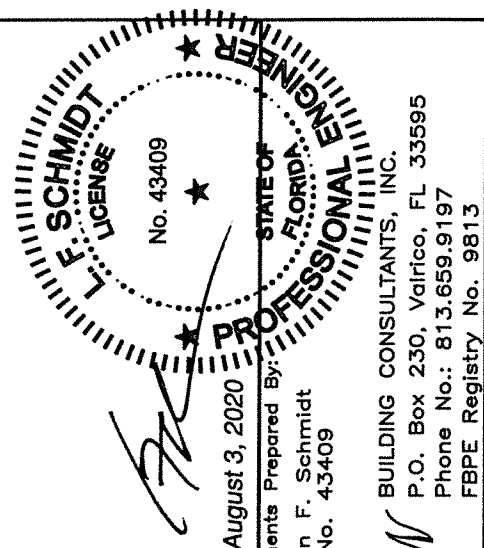
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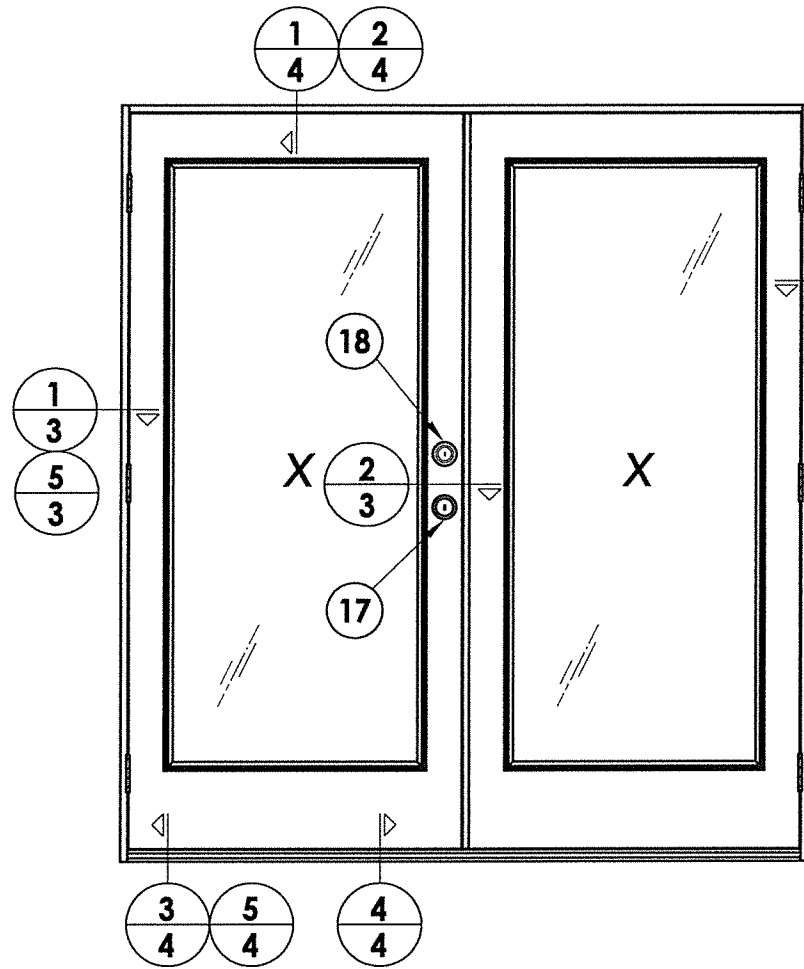
1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION
2



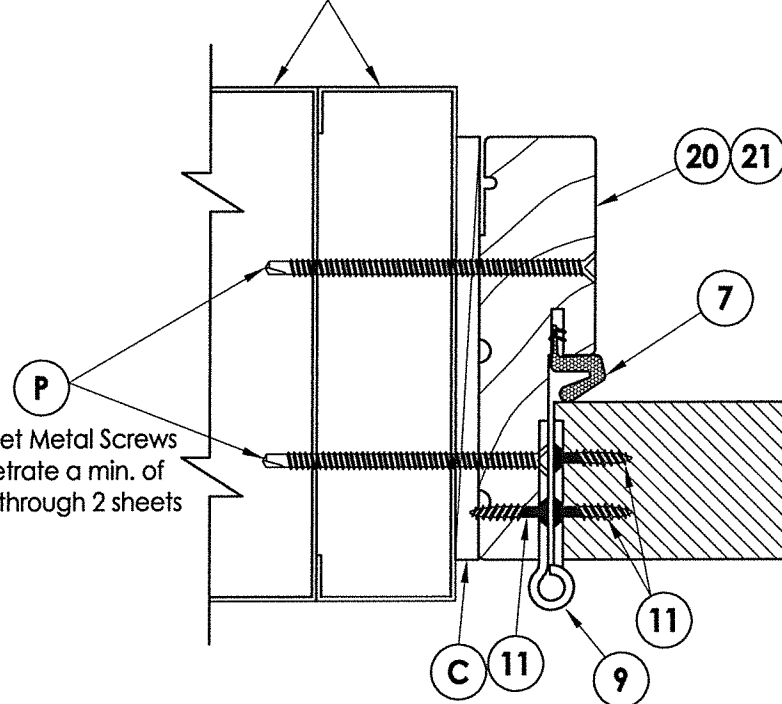
DATE: 09/22/15		DOERS FIBERGLASS DOOR		PRODUCT:
SCALE: N.T.S.		PART OR ASSEMBLY:		
DWG. BY: JK	DOOR PANEL DETAILS			
CHK. BY: LFS				
DRAWING NO.: FL-19007.4				
SHEET 2 OF 8				



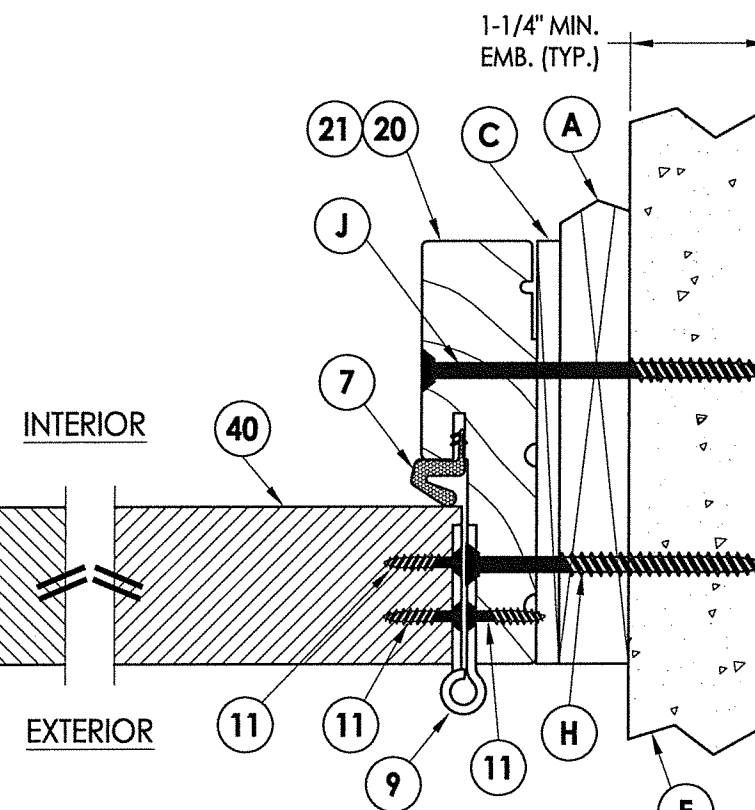
3
3
4
3

NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.

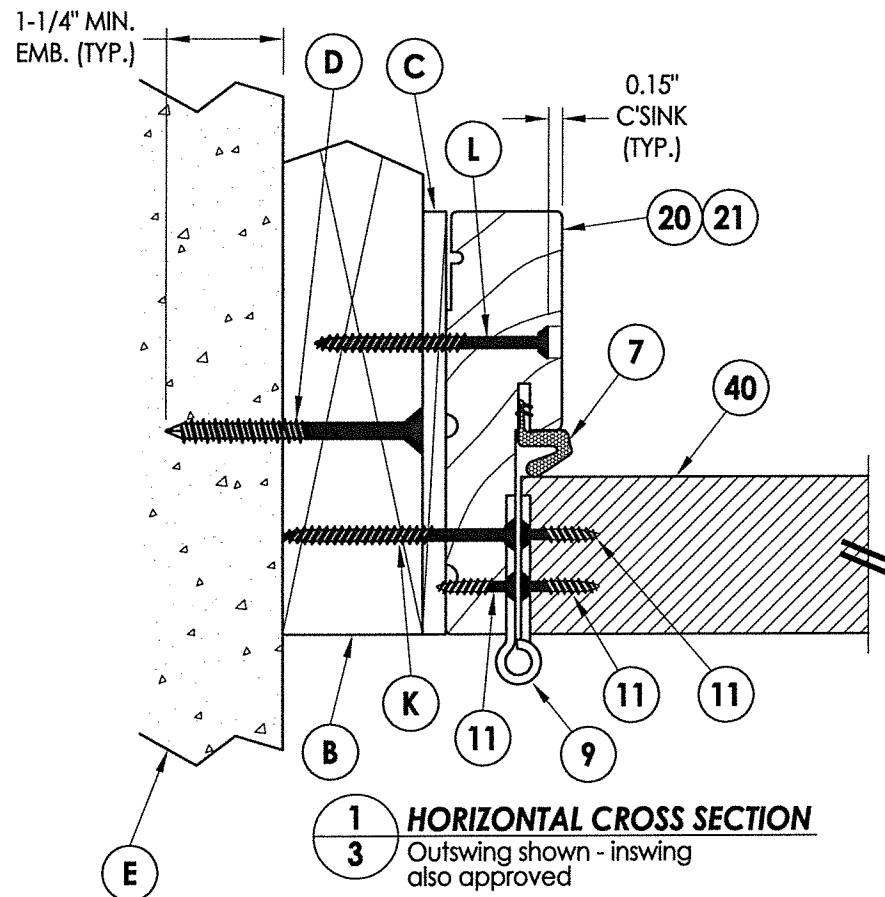
METAL STUDS BY OTHERS
(SSMA STUD 550S162-43, Fy = 33 ksi, Fu = 45 ksi, MIN.)



5
3 HORIZONTAL CROSS SECTION
Shown w/ Steel Stud Framing Option



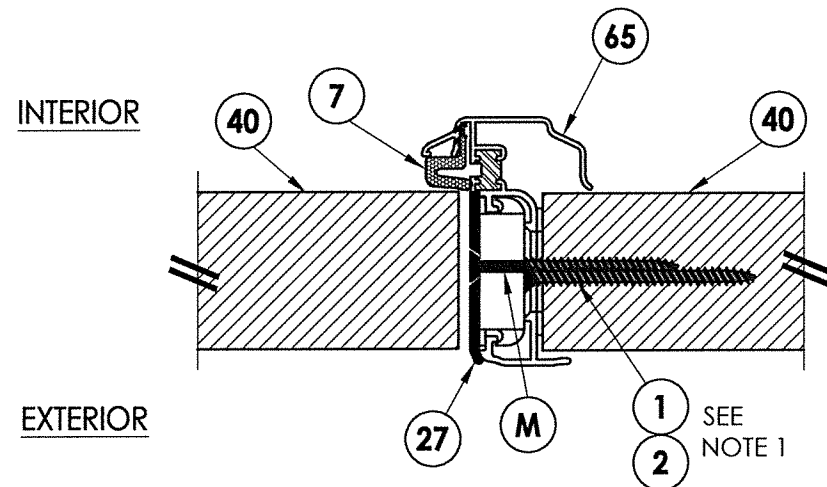
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3 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



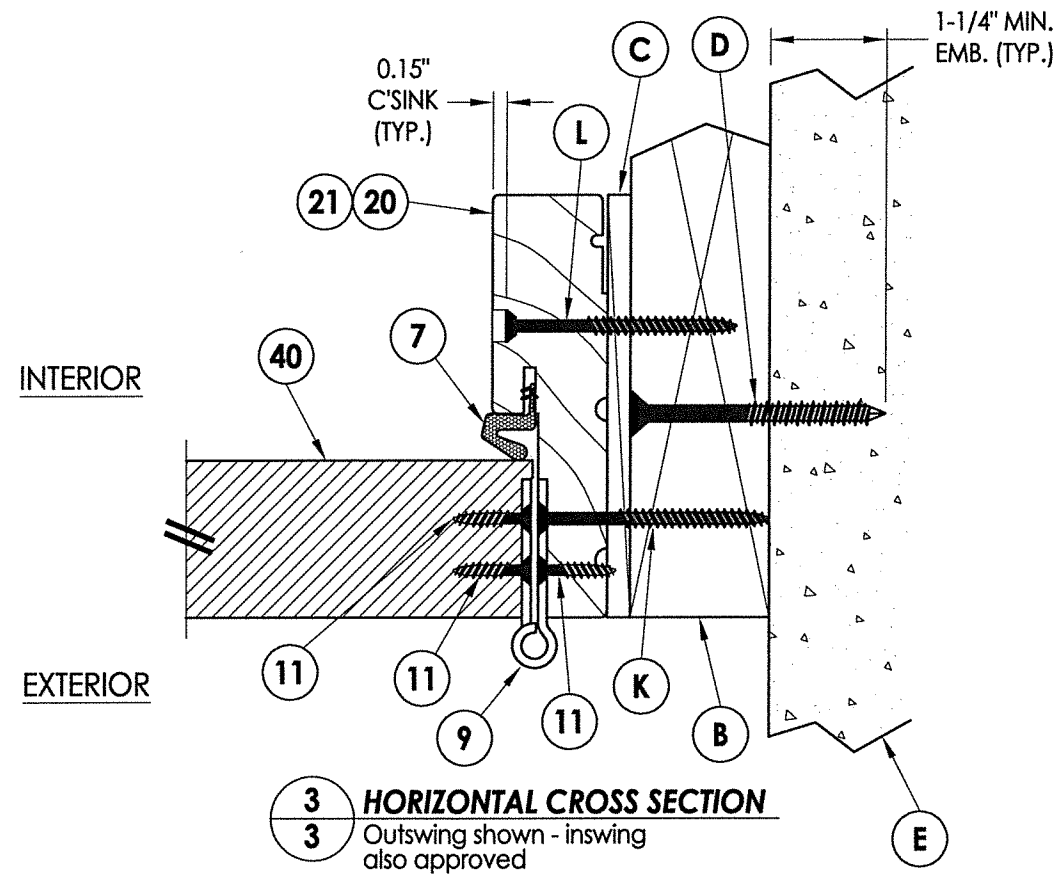
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3 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved

NOTE:

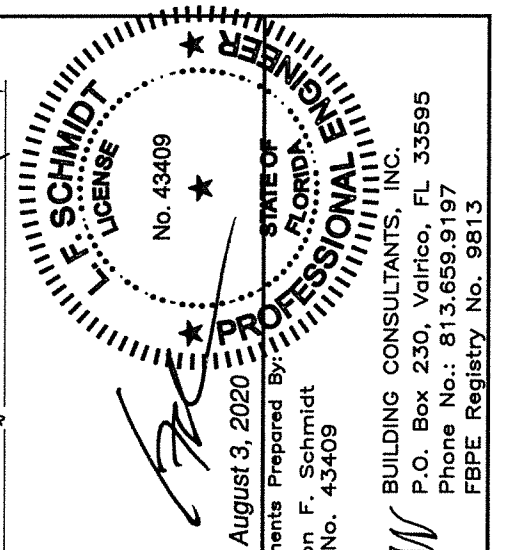
1. As noted in the test report astragal was attached to the inactive leaf with (10) #8 x 3" psh sms and (4) #10 x 2-1/2" pfh sms for all 6'-8" (outswing). Astragal was attached to the inactive leaf with (9) #8 x 3" psh sms and (4) #10 x 2-1/2" pfh sms for all 6'-8" (inswing).



2
3 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved



3
3 HORIZONTAL CROSS SECTION
Outswing shown - inswing also approved

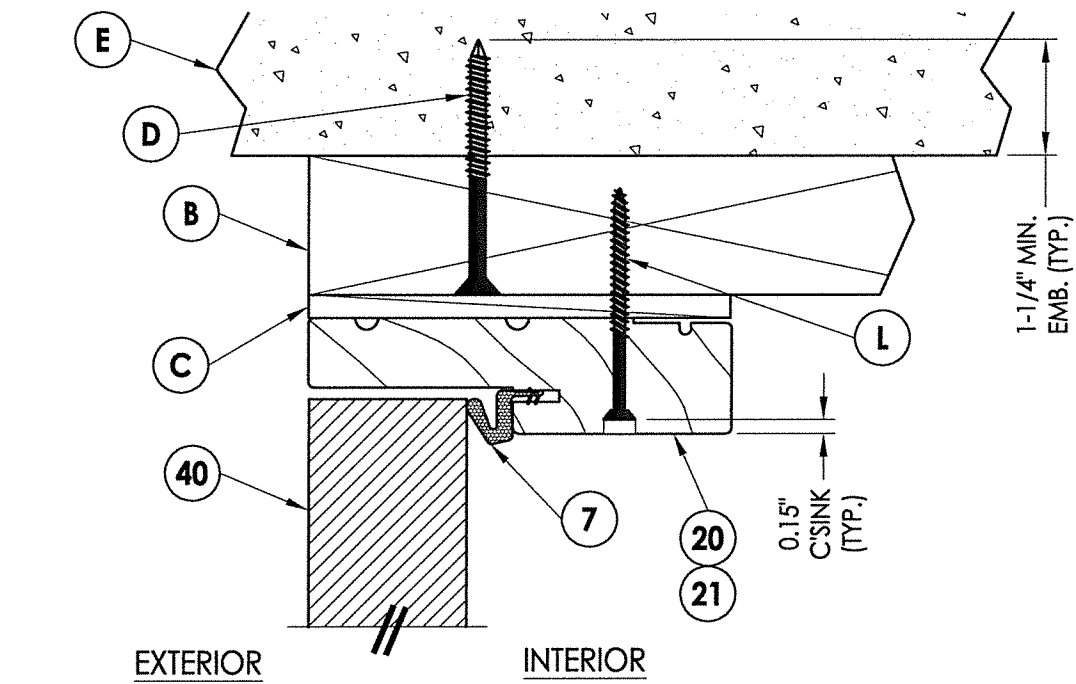


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

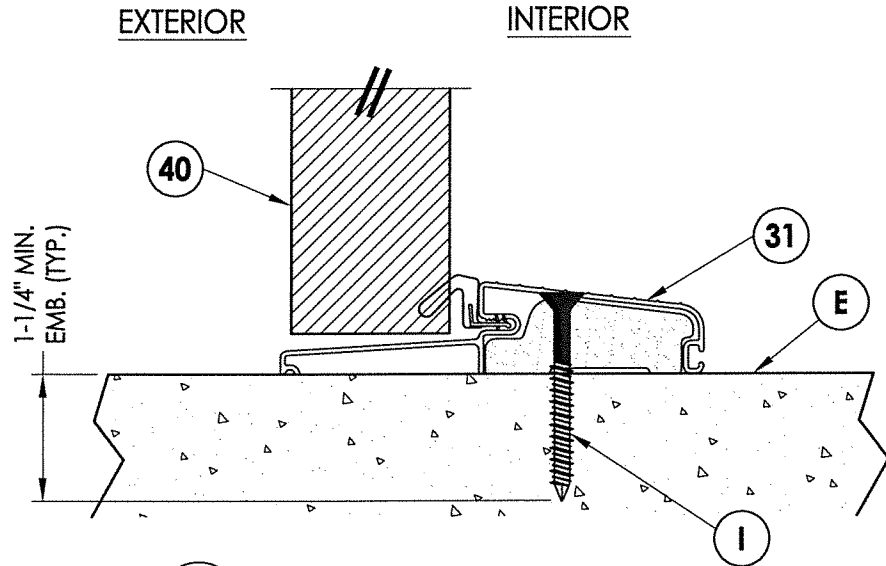
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS		FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS			
NO.	DATE	BY	DATE	BY	DATE
3	7/30/20	JK	7/30/20	JK	7/30/20
2	5/15/19	JK	5/15/19	JK	5/15/19
1	9/26/17	JK	9/26/17	JK	9/26/17
REVISIONS					
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.4					
SHEET 3 OF 8					

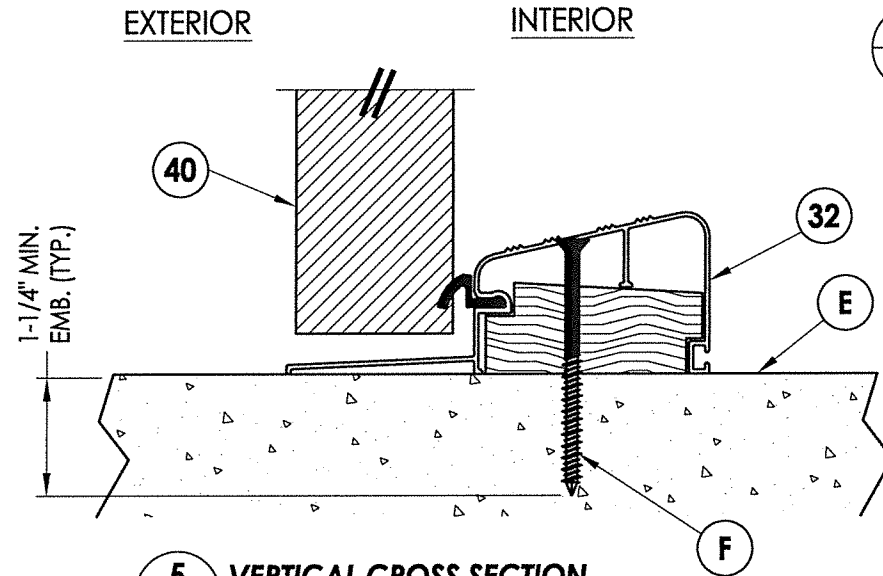
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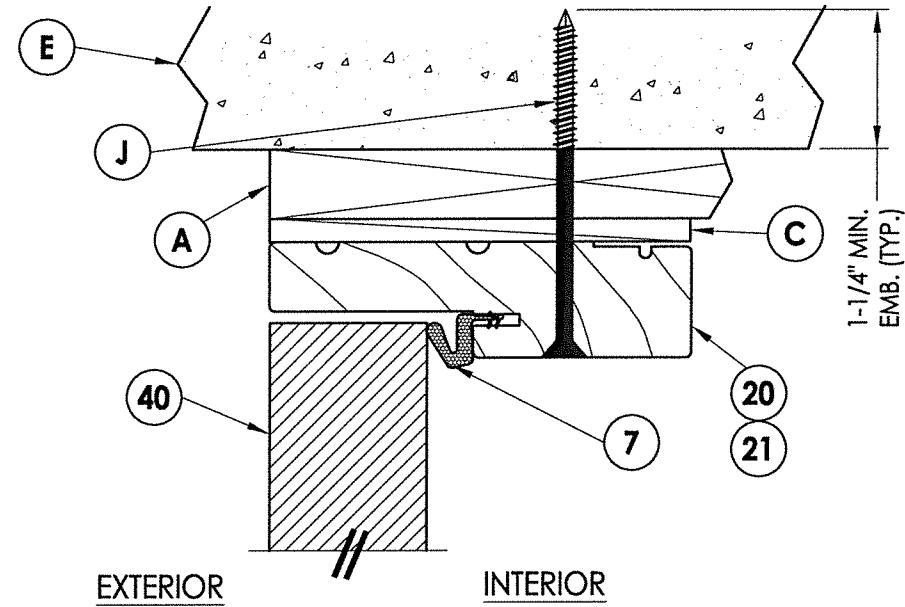
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4 **VERTICAL CROSS SECTION**
Outswing shown - inswing
also approved



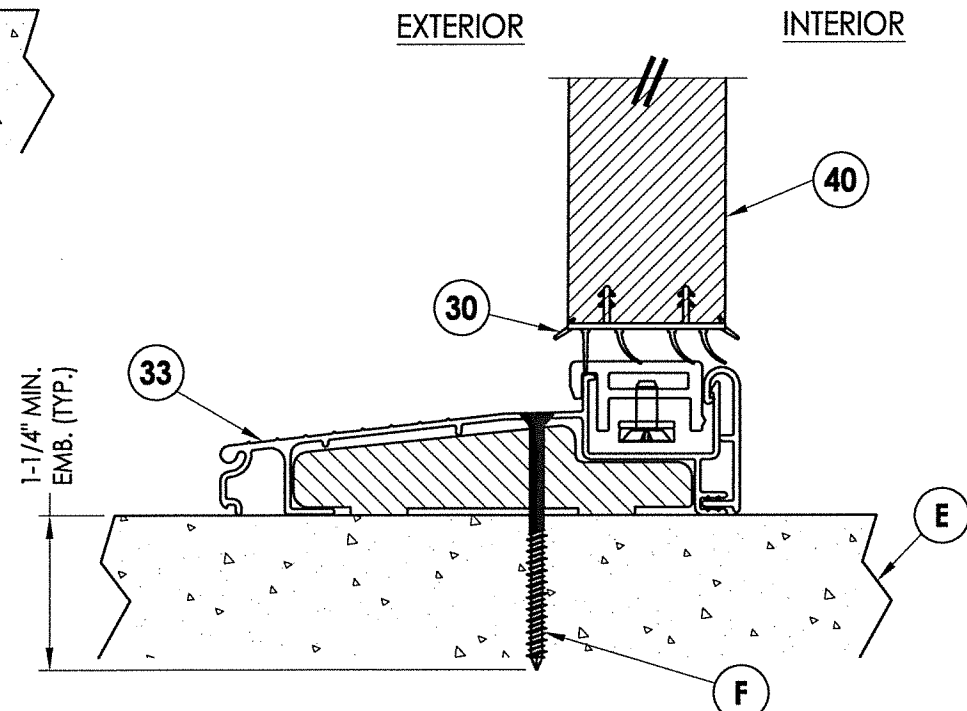
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4 **VERTICAL CROSS SECTION**
Outswing configuration



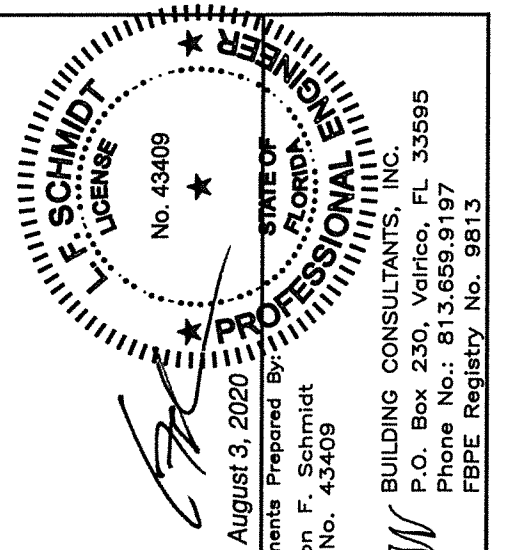
5
4 **VERTICAL CROSS SECTION**
Outswing configuration
(Where water infiltration requirements are specified)



2
4 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



4
4 **VERTICAL CROSS SECTION**
Inswing configuration



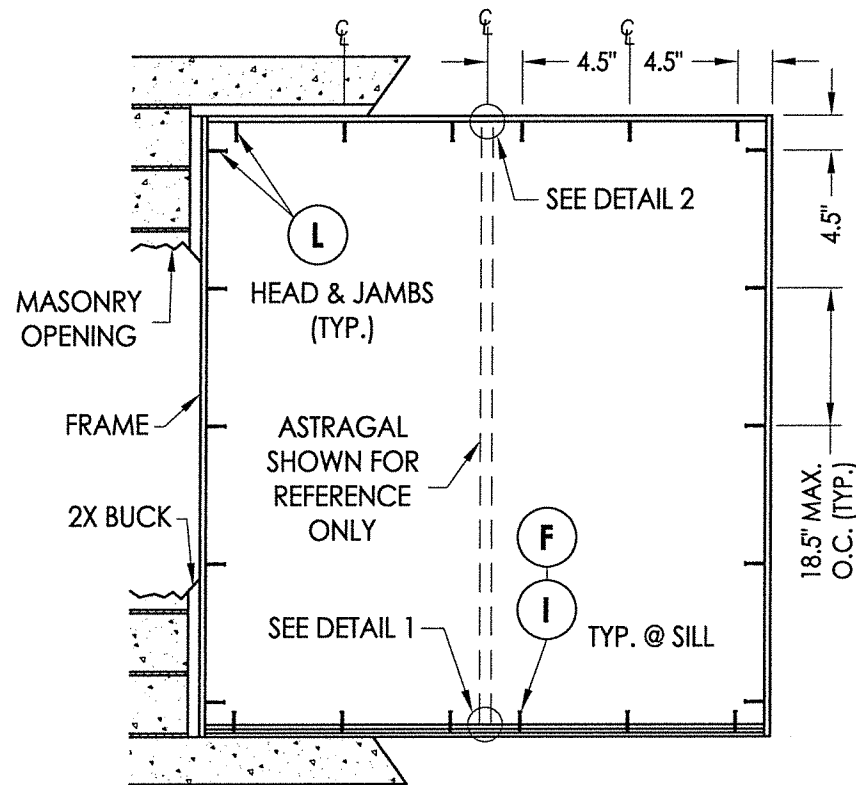
August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DOERS
FIBERGLASS DOOR
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

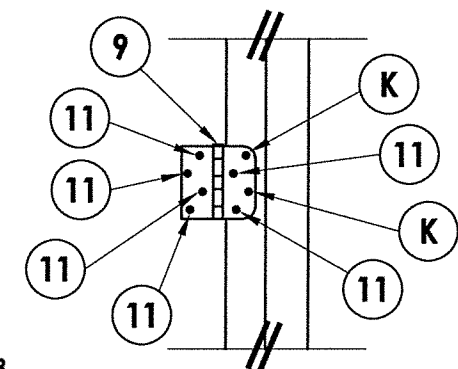
NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY

DATE: 09/22/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-19007.4
SHEET 4 OF 8

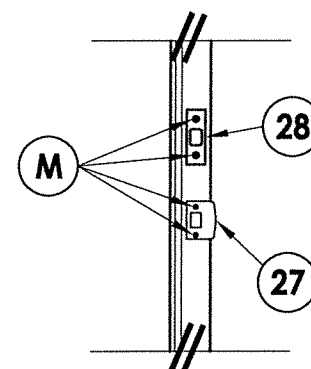
HINGE JAMB



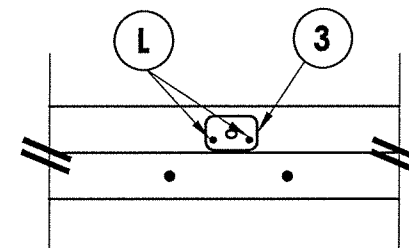
FRAME ANCHORING
Masonry 2X buck construction



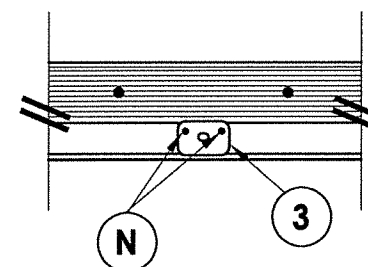
HINGE DETAIL



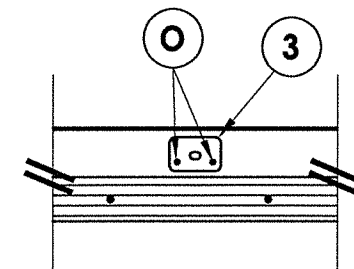
LATCH & DEADBOLT DETAIL



DETAIL 2



DETAIL 1
Inswing configuration

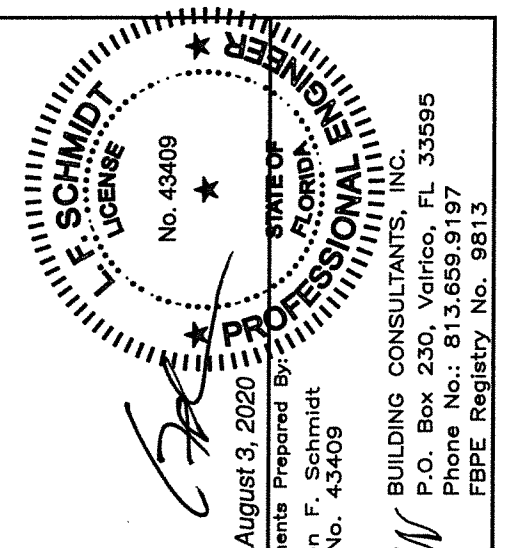


DETAIL 1
Outswing configuration

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DOERS
FIBERGLASS DOOR

PART OR ASSEMBLY: BUCK & FRAME ANCHORING 2X
BUCK MASONRY CONSTRUCTION

3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	5/15/19	ADD STEEL STUD ANCHORING		LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	JK
NO.	DATE			BY
				REVISIONS

DATE: 09/22/15

SCALE: N.T.S.

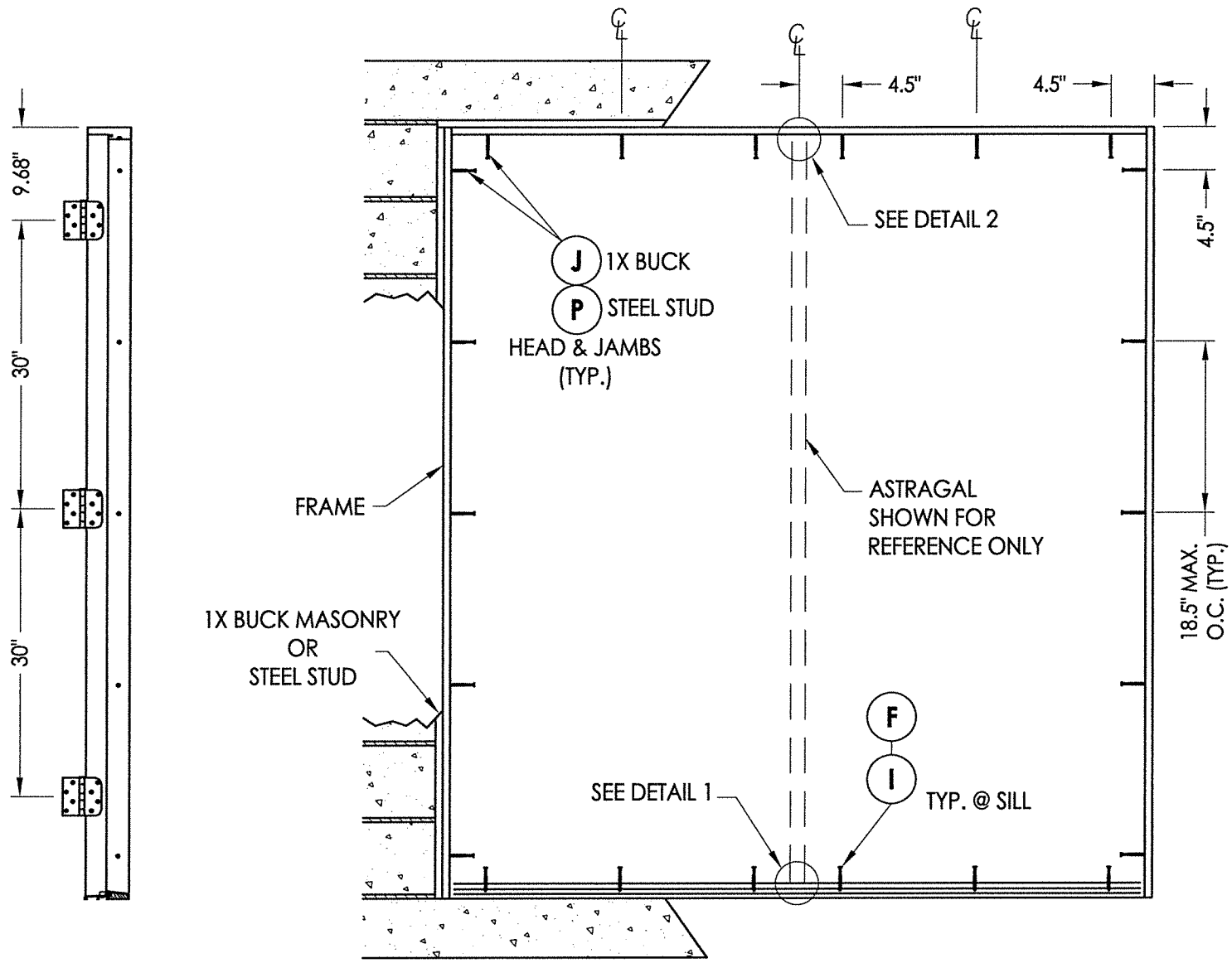
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-19007.4

SHEET 5 OF 8

R:\Clients\Doors PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 6.4



HINGE JAMB

FRAME ANCHORING

Masonry 1X buck Construction
Steel Stud Construction

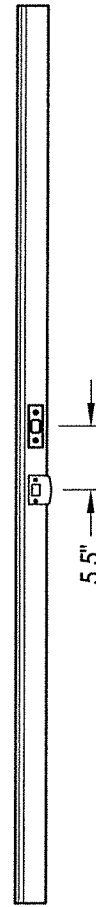
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

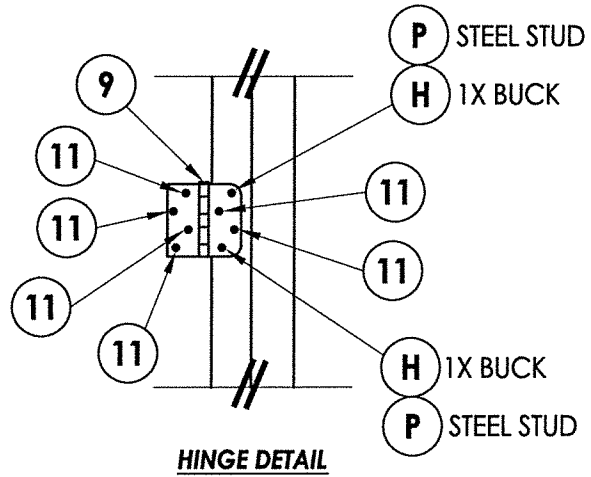
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

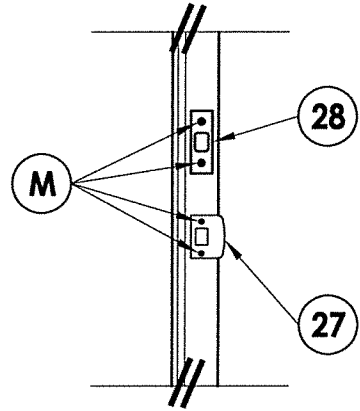
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



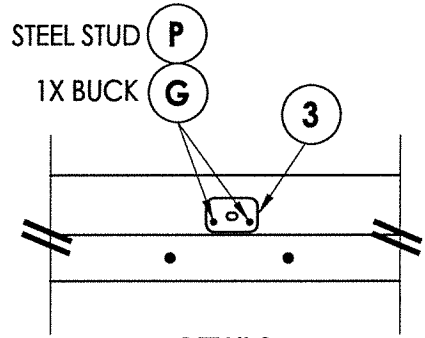
ASTRAGAL STRIKE JAMB



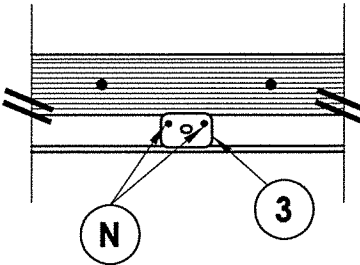
HINGE DETAIL



LATCH & DEADBOLT DETAIL

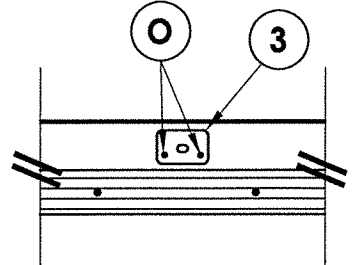


DETAIL 2



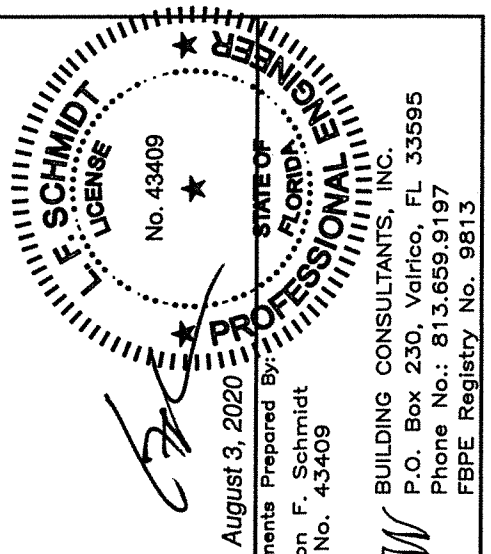
DETAIL 1

Inswing configuration



DETAIL 1

Outswing configuration



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

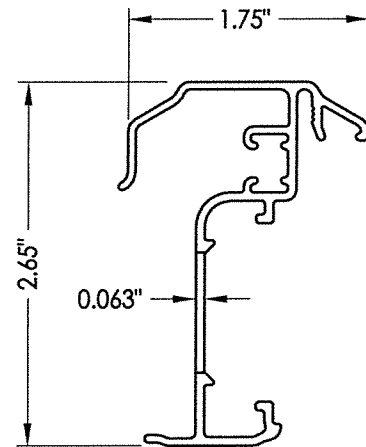
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	DOERS FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION

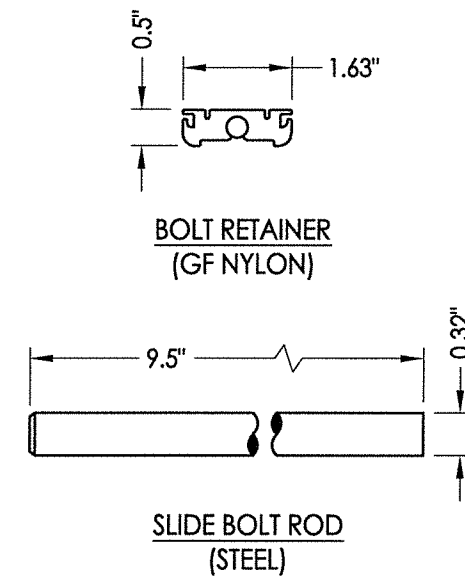
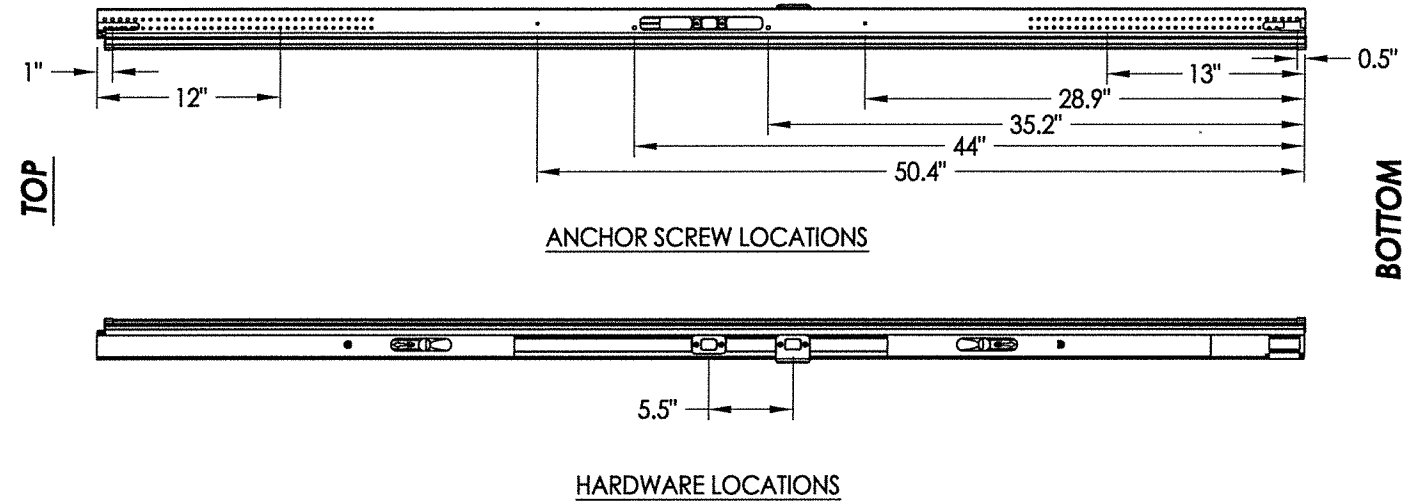
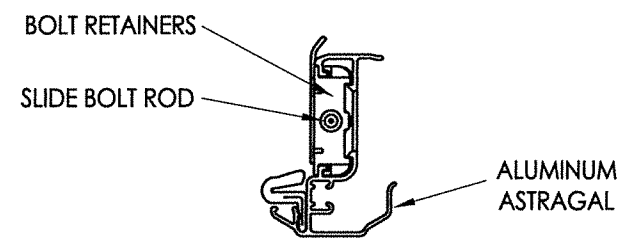
NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC

DATE:	09/22/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19007.4
SHEET	6 OF 8

65 ALUMINUM ASTRAGAL



ALUMINUM ASTRAGAL ASSEMBLY



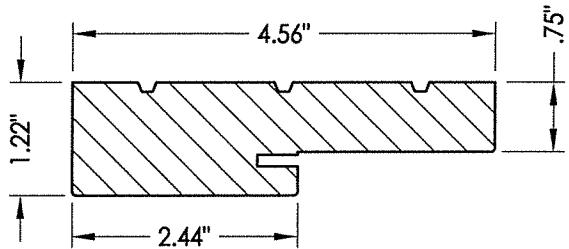
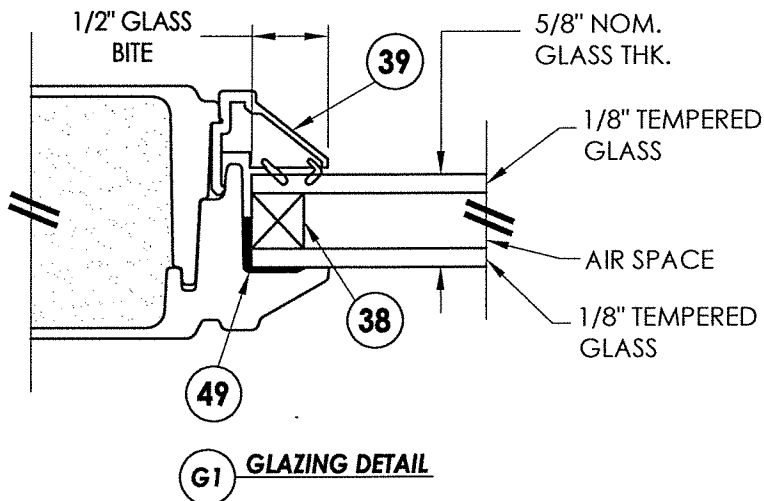
DATE: 09/22/15		PRODUCT: DOERS FIBERGLASS DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: ENDURA ASTRAGAL DETAILS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.4			
SHEET 7 OF 8			
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	5/15/19	ADD STEEL STUD ANCHORING	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO.	DATE		BY
REVISIONS			


August 3, 2020
Plans Prepared By: _____
John F. Schmidt
No. 43409

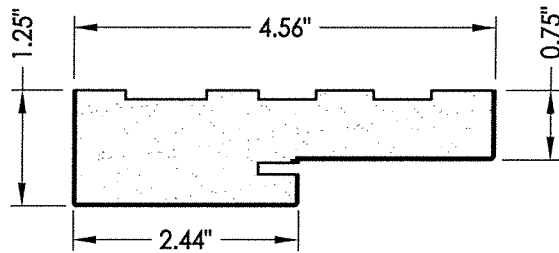
W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 8.4

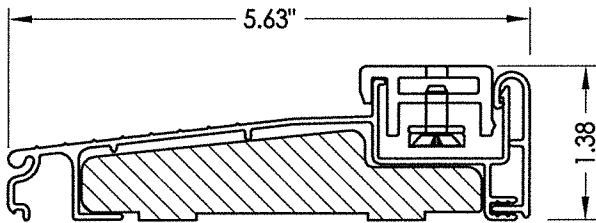
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD	20	FINGER JOINTED PINE FRAME, HEAD & HINGE JAMBS	WOOD
B	2X BUCK SG >= 0.55	WOOD	21	POLY FIBER JAMB	COMP. / VINYL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	30	WEATHER-STOP 3647 HOLM INDUSTRIES	VINYL
F	1/4" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL	31	OUTSWING BUMP THRESHOLD	ALUM. / PVC
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL	32	OUTSWING HIGH DAM BUMP THRESHOLD	ALUM. / WOOD
H	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL	33	INSWING ADJUSTABLE THRESHOLD	ALUM. / WOOD
I	1/4" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL	38	GLAZING SPACER	ALUM.
J	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL	39	GLAZING BEAD	PVC
K	#9 X 2-1/2" PFH WOOD SCREW	STEEL	40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
L	#10 X 2-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL	41	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
M	#9 X 2-1/4" PFH WOOD SCREW	STEEL	42	TOP RAIL	CELLULAR PVC
N	3/16" X 3-1/2" PFH ITW CONCRETE SCREW	STEEL	43	LATCH & HINGE STILE	CELLULAR PVC
O	3/16" X 1-1/2" PFH ITW CONCRETE SCREW	STEEL	44	LOCK REINFORCEMENT	WOOD
P	#10-16 PFH SELF-DRILLING SMS	STEEL	45	BOTTOM RAIL	CELLULAR PVC
1	#10 X 2-1/2" PFH SMS	STEEL	46	POLYURETHANE FOAM	POLYURETHANE
2	#8 X 3" PSH SMS	STEEL	47	CONTINUOUS LATCH & HINGE STILE REINFORCEMENT	WOOD
3	FLUSH BOLT STRIKE PLATE	STEEL	49	GLAZING COMPOUND DOW 995	SILICONE
7	Q-LON 650 WEATHERSTRIP SCHLEGEL	FOAM	65	ASTRAGAL (ENDURA)	ALUMINUM
9	4" X 4" BUTT HINGE	STEEL			
11	#9 X 3/4" PFH WOOD SCREW	STEEL			
17	KWIKSET KEYED ENTRY - SIGNATURE SERIES	-			
18	KWIKSET DEADBOLT - SIGNATURE SERIES (780)	-			



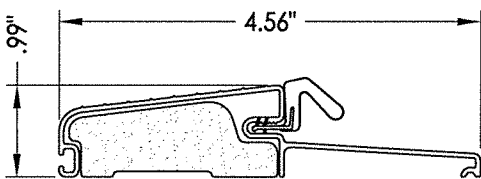
20 HEAD & SIDE
Jamb



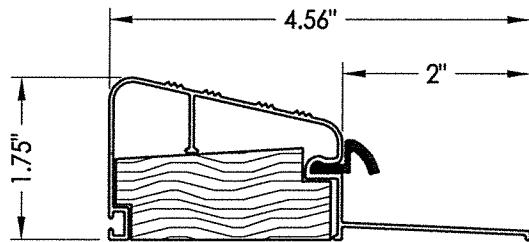
21 HEAD & SIDE
Poly fiber jamb



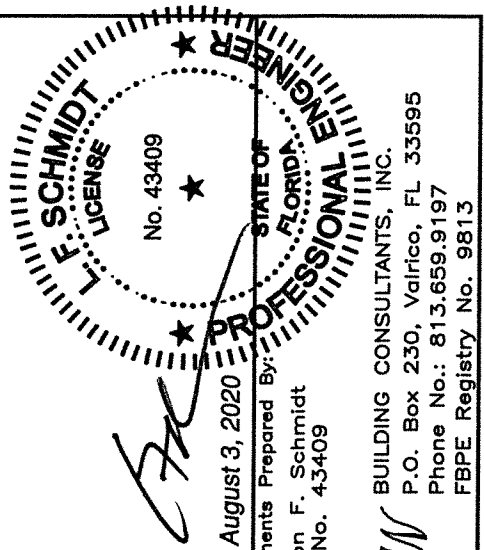
33 ADJUSTABLE INSWING THRESHOLD



31 OUTSWING BUMP THRESHOLD
Endura (FOB4566AA)



32 OUTSWING HIGH DAM BUMP THRESHOLD
DLP (QOSR)



August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DOERS FIBERGLASS DOOR
PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS

NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY

DATE: 09/22/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-19007.4
SHEET 8 OF 8