

# TYPICAL ANCHORS (REFER TO ELEVATION FOR SPACING)

#### TYPE A **1/4" DIA. ULTRACON BY 'ELCO'** (Fy=155 ksi Fu = 177 ksi)

\* DIRECTLY INTO fc'=3000 PSI CONCRETE MIN.

1-1/2" MIN. EMBED. INTO MASONRY OR CONCRETE, 2-1/2" MIN. EDGE DISTANCE

#### TYPE A1 **1/4" DIA. ULTRACON BY 'ELCO'** (Fy=155 ksi Fu = 177 ksi)

\* DIRECTLY INTO SG=0.55 WOOD

WITH 1-1/2" MIN. EMBEDMENT, 1" MIN. EDGE DISTANCE,

OR THRU WOOD INTO CONCRETE OR MASONRY

WITH 1-1/2" MIN. EMBEDMENT, 2-1/2" MIN. EDGE DISTANCE

#### **TYPE B** 3/8" DIA. HLC SLEEVE ANCHOR BY 'HILTI'

\* DIRECTLY INTO fc'=3000 PSI CONCRETE MIN.

1-1/4" MIN. EMBED INTO MASONRY OR CONCRETE, 3" MIN. EDGE DISTANCE

\* DIRECTLY INTO fm'=1500 PSI FILLED GROUT FILLED CONCRETE BLOCK 1-1/4" MIN. EMBED INTO FILLED CONC. BLOCK, 3-1/2" MIN. EDGE DISTANCE

#### TYPE C 3/8" DIA. SLEEVE ANCHOR BY "WEJ-IT"

- \* DIRECTLY INTO fc'=4000 PSI CONCRETE MIN. 2-3/8" MIN. EMBED, 3-1/2" MIN. EDGE DISTANCE
- \* DIRECTLY INTO fc'=2000 PSI CONCRETE. BLOCK MIN. 1-1/4" MIN. EMBED, 3-1/2" MIN. EDGE DISTANCE

#### TYPE D 3/8" DIA. POWER BOLTS

- \* DIRECTLY INTO fc'=3000 PSI CONCRETE 2-1/2" MIN. EMBED, 3" MIN. EDGE DISTANCE
- \* DIRECTLY INTO fc'=1500 PSI GROUT FILLED CONCRETE BLOCK 2" MIN. EMBED. 3" MIN. EDGE DISTANCE

#### **TYPE E** 5/16" DIA. SMS OR MACHINE BOLTS GRADE 2 CRS OR ST/ST

\* DIRECTLY INTO 1/8" THK. STEEL/ALUMINUM 6063-T5

### **SEALANT:**

ALL FRAME JOINTS AND CORNERS TO BE SEALED WITH SILICONE AT PERIMETER

### HINGES:

STEEL BUTT HINGES 3 PER LEAF. FOR HINGE LOCATION SEE SHEET 1. TO BE FASTENED BY (4) #12-24 x 1/2" FLATHEAD MACHINE SCREWS TO THE DOOR PANEL AND TO THE FRAME. TOTAL OF (8) SCREWS.

## NOTE:

SUBSTRATE CAN BE CONCRETE, 2X WOOD BUCKS, WOOD STRUCTURAL MEMBER(S), CONCRETE BLOCK WALL AND METAL STRUCTURE (STEEL OR ALUMINUM). ANCHOR TYPE SHOWN ABOVE SHOULD BE CHOSEN BASED ON SUBSTRATE TYPE IN THE PROJECT. ANY TYPE OF ANCHOR NOT SPECIFIED HERE SHOULD BE ENGINEERED SEPARATELY.





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MCY ENGINEERING, INC. GLAZING CONSULTANTS 205A

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8501 SW 124 AVE. MIAMI, FL. 33183

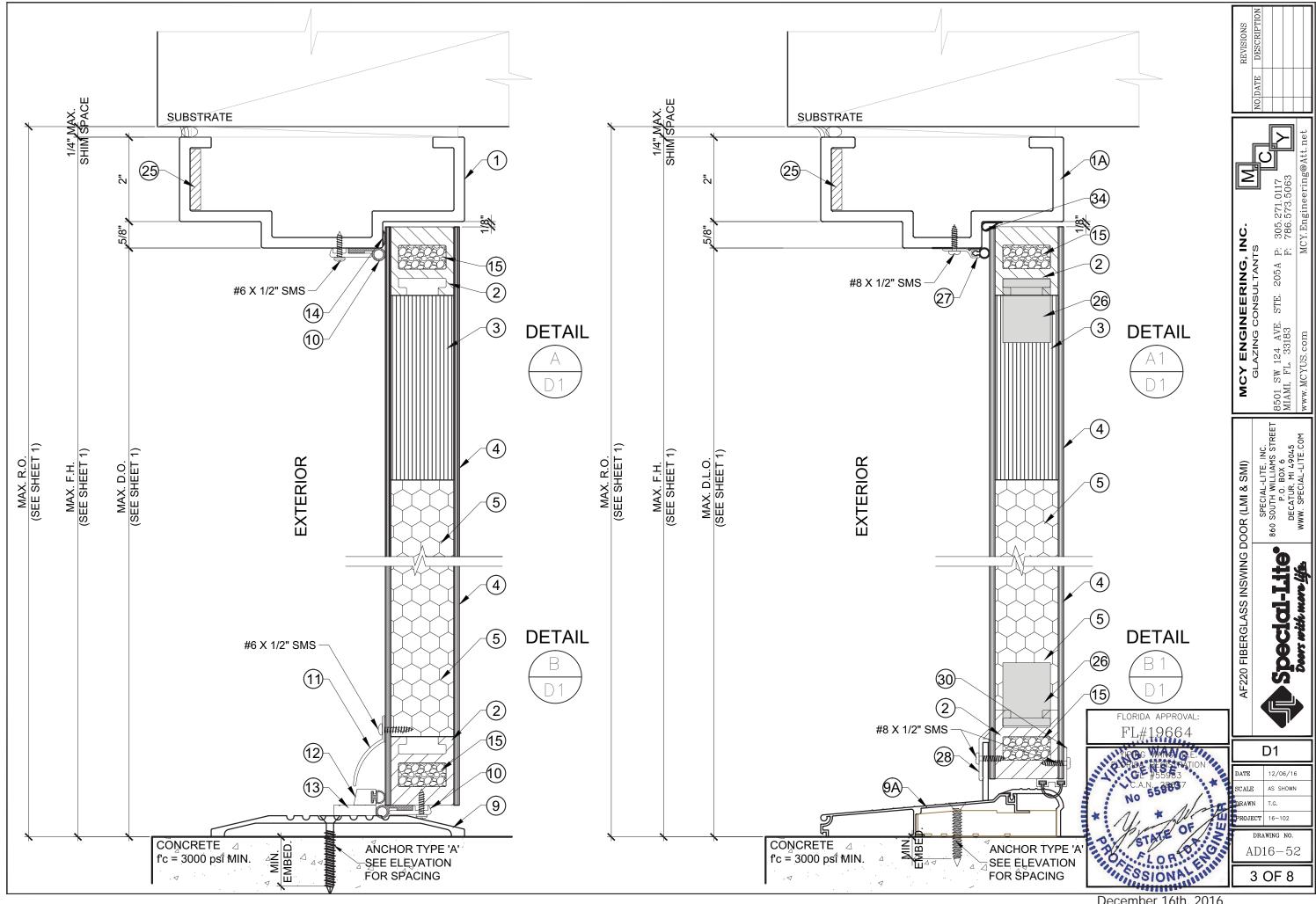
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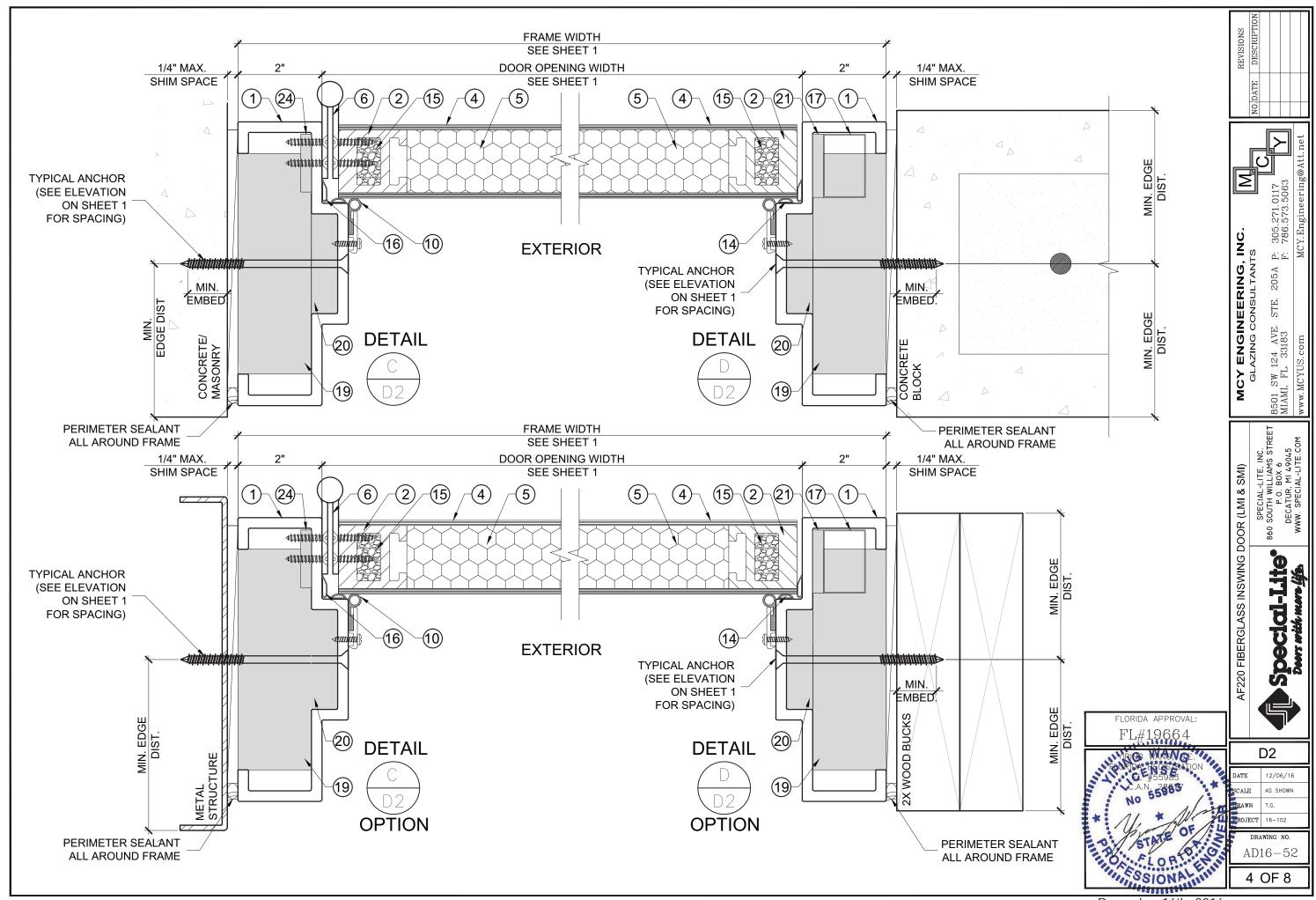
AF220 FIBERGLASS INSWING DOOR (LMI &

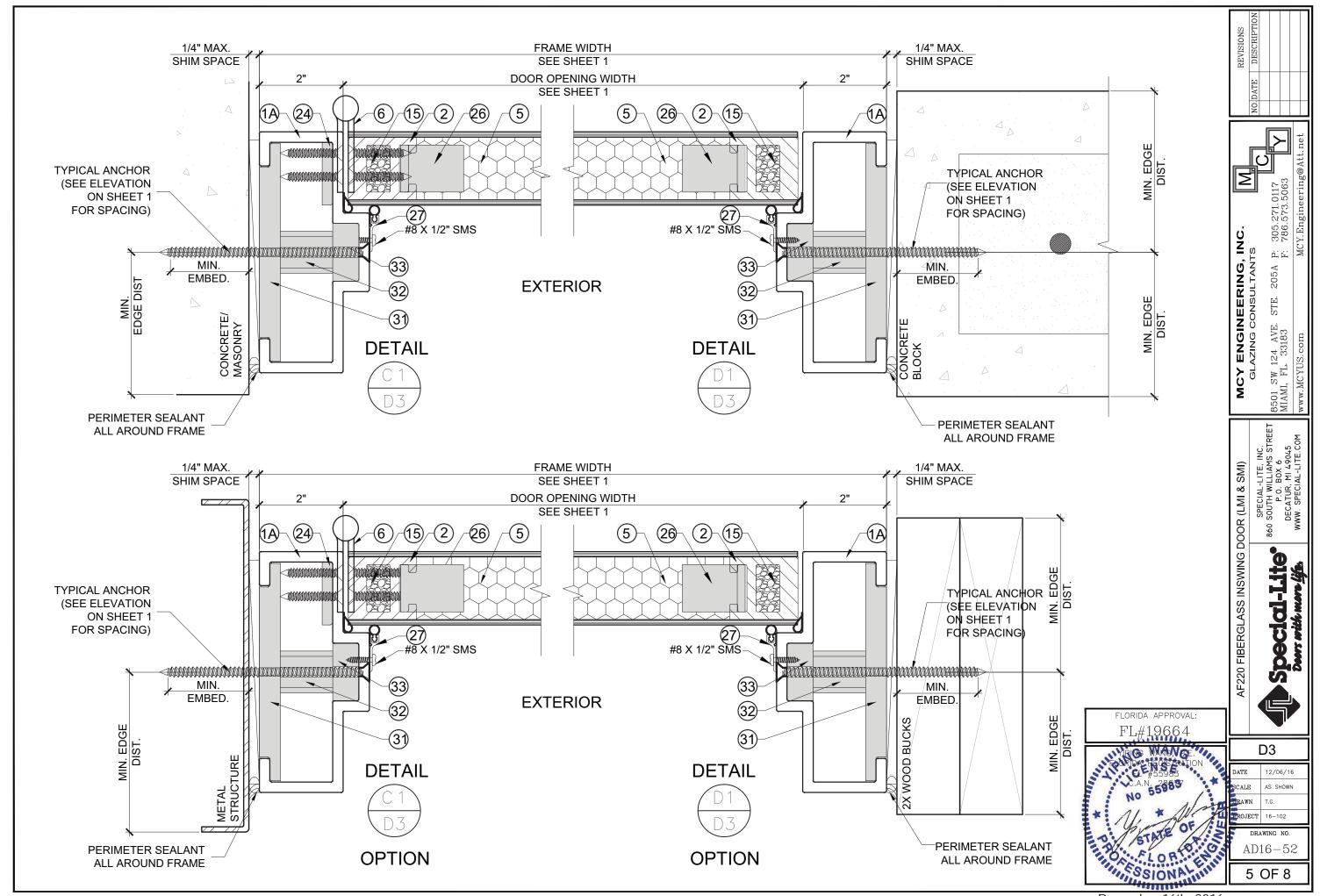
**ANCHORS** AD16 - 52

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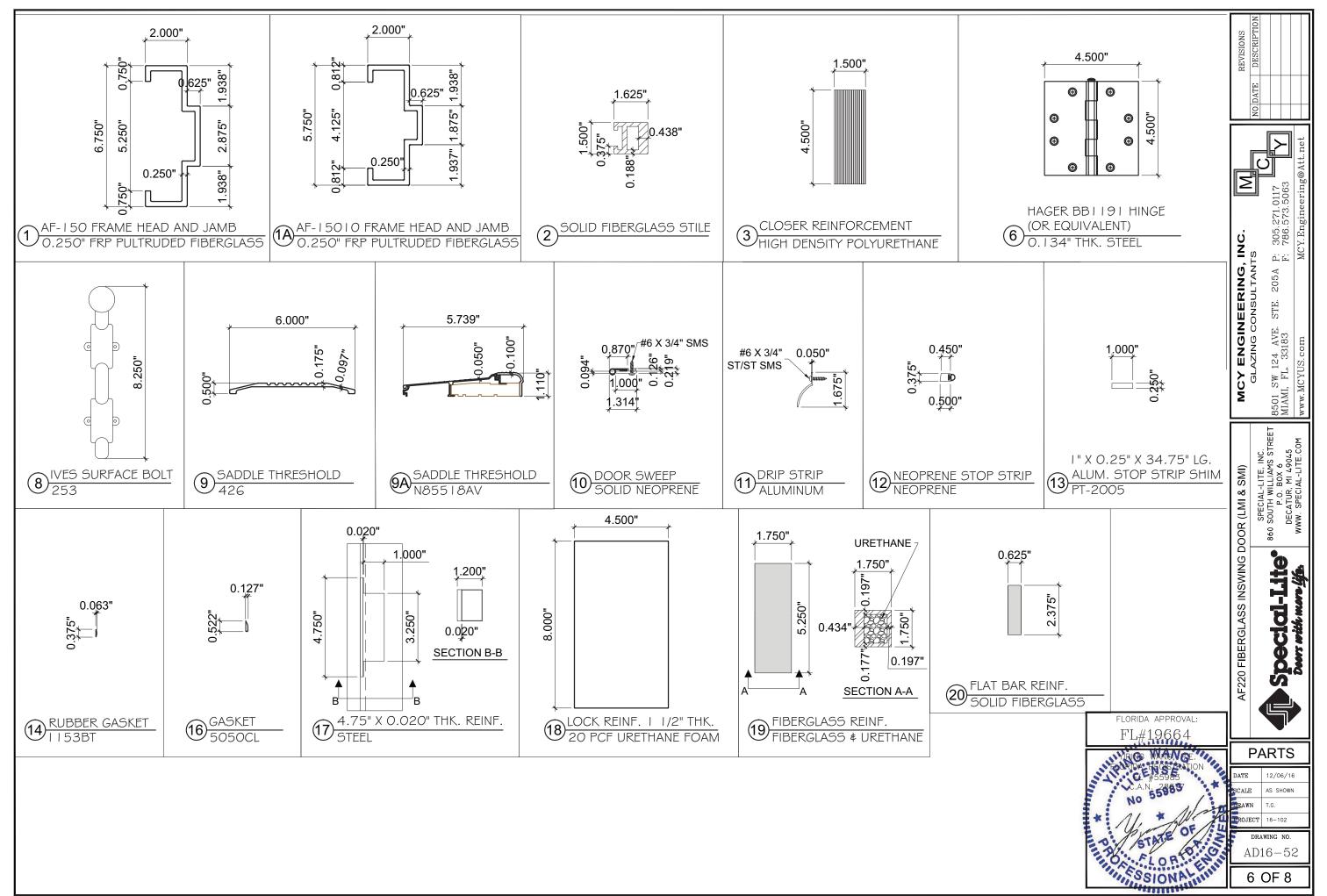
December 16th, 2016



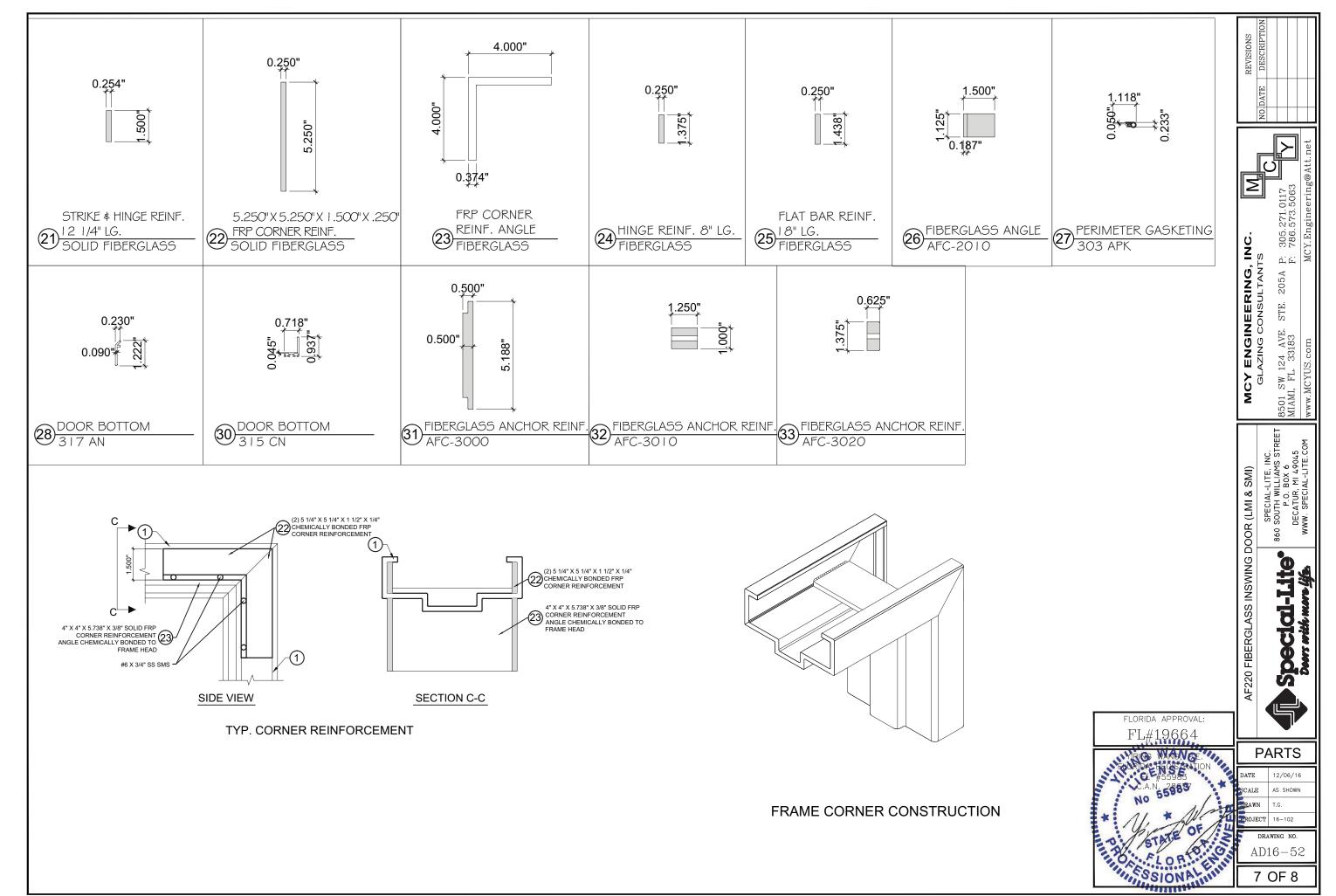




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BILL OF MATERIALS					
ITEM	PART NO.	MATERIAL	QTY.	DESCRIPTION	MANUFACTURER / SUPPLIER / REMARKS
1	AF-150	PULTRUDED FIBERGLASS	AS REQD.	FRAME JAMB / HEAD (6 3/4" X 2")	SPECIAL-LITE INC. (0.250" THK.) Fy=40.8 KSI MIN.
1A	AF-15010	PULTRUDED FIBERGLASS	AS REQD.	FRAME JAMB / HEAD (5 3/4" X 2")	SPECIAL-LITE INC. (0.250" THK.) Fy=40.8 KSI MIN.
2	AFC-2000	PULTRUDED FIBERGLASS	AS REQD.	SOLID FIBERGLASS STILE	SPECIAL-LITE INC.
3	AFC-2020	URETHANE	AS REQD.	4 1/2" X 1 1/2" X 20" 20 PCF URETHANE CLOSER REINFORCEMENT	INSIDE THE TOP LEFT SIDE OF THE PANEL CHEMICALLY BONDED
	-	FIBERGLASS	AS REQD.	0.120" SANDSTONE FRP TEXTURED FACE SHEET	SPECIAL-LITE INC.
4	_	FIBERGLASS	AS REQD.	0.120" PEBBLE GRAIN FRP TEXTURED FACE SHEET	SPECIAL-LITE INC.
5	PP8-80	POLYPROPYLENE	AS REQD.	AIR-COMB (OR EQUIVALENT) POLYPROPYLENE HONEYCOMB DOOR PANEL CORE	POLY-U-MAC
6	BB1191	ST/ST	3	HAGER BB1191 (OR EQUIVALENT) 4 1/2" SURFACE MOUNT METALLIC BUTT HINGE	HAGER, ATTACHED W/ (4) 12 X 1" FH SMS TO FRAME AND (4) 12 X 1" FH SMS TO PANEL
7	790	ST/ST	1	KABA 790 (OR EQUIVALENT) RFID MORTISE LOCK SET W/ KEY OVERRIDE	KABA
7A	45H7AB15H626LHRB	ST/ST	1	STANLEY (OR EQUIVALENT) MORTISE LOCK SET W/ KEY OVERRIDE	STANLEY
8	253	STEEL	AS REQD.	IVES 253 SURFACE BOLT	VES
9	426	ALUM.	AS REQD.	SADDLE THRESHOLD	NATIONAL GUARD PRODUCTS
9A	N85518AV	ALUM.	AS REQD.	SADDLE THRESHOLD	PEMKO ASSA ABLOY
10	328AA	SOLID NEOPRENE	AS REQD.	DOOR SWEEP	ZERO INTERNATIONAL
11	17	ALUMINUM	AS REQD.	RAIN DRIP GUARD	NATIONAL GUARD PRODUCTS
12	2N	NEOPRENE	AS REQD.	NEOPRENE STOP STRIP	NATIONAL GUARD PRODUCTS
13	PT-2005	ALUM.	AS REQD.	1" X 0.25" X 34.75" LG. ALUMINUM STOP STRIP SHIM	-
14	1153BT	RUBBER	AS REQD.	RUBBER SEAL	TRIM-LOK
15	-	URETHANE	AS REQD.	URETHANE FOAM	- TAIN LOR
16	5050CL	SILICONE	AS REQD.	ADHESIVE SILICONE GASKET	NATIONAL GUARD PRODUCTS
17	30300L	STEEL	AS REQD.	4.745" X 0.020" THK. STEEL REINFORCEMENT	BEHIND STRIKE PLATE, ATTACHED W/ (2) 12 X 1 1/2" FH SMS
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18	-	URETHANE FOAM	AS REQD.	4 1/2" X 1 1/2" X 8" LG. 20 PCF URETHANE FOAM REINFORCEMENT	INSIDE PANEL AT LOCK LOCATION, CHEMICALLY BONDED
19	-	FIBERGLASS & URETHANE	AS REQD.	1 3/4" X 1 3/4" X 5 3/4" LG. FIBERGLASS BLOCK REINFORCEMENT	INSIDE FRAME JAMB AT EACH ANCHOR LOCATION, CHEMICALLY BONDED
20	-	FIBERGLASS	AS REQD.	1 3/4" X 2 3/8" X 5/8" THK. FIBERGLASS FLAT BAR REINFORCEMENT	BEHIND EACH FRAME JAMB BLOCK, CHEMICALLY BONDED TO FRAME
21	-	FIBERGLASS	AS REQD.	1 1/2" X 12 1/4"LG X 0.254" THK. FIBERGLASS FLAT BAR REINFORCEMENT	AT STRIKE PLATE LOCATION, CHEMICALLY BONDED
22	-	FIBERGLASS	AS REQD.	5 1/4" X 5 1/4" X 1 1 /2" X 1/4" THK. FRP CORNER REINFORCEMENT	FASTENED TO 4" X 4" ANGLE USING (4) 8 X 3/4" FH SMS AND CHEMICALLY BONDED
23	-	FIBERGLASS	AS REQD.	4" X 4" X 5.738" X 0.374" THK. SOLID FRP CORNER REINFORCEMENT ANGLE	AT UPPER CORNER, CHEMICALLY BONDED
24	AFC-3030	PULTRUDED FIBERGLASS		1 3/8" X 8" LG. X 1/4" THK. HINGE REINF.	CHEMICALLY BONDED TO FRAME
25	-	FIBERGLASS	AS REQD.	1 7/16" X 18" X 1/4" THK. FIBERGLASS FLAT BAR REINFORCEMENT	AT FRAME HEAD, CHEMICALLY BONDED TO FRAME
26	AFC-2010	FIBERGLASS	AS REQD.	1 1/2" X 1 1/8" X 3/16" ANGLE	AT TOP AND BOTTOM RAIL
27	303APK	-	3	PERIMETER GASKETING	PEMKO ASSA ABLOY
28	317AN	-	1	DOOR BOTTOM	PEMKO ASSA ABLOY
30	315CN	-	1	DOOR BOTTOM	PEMKO ASSA ABLOY
31	AFC3000	FIBERGLASS	1	ANCHOR REINFORCEMENT	INSIDE THE FRAME JAMB AT EACH FASTENER LOCATION
32	AFC3010	FIBERGLASS	1	ANCHOR REINFORCEMENT	INSIDE THE FRAME JAMB AT EACH FASTENER LOCATION
33	AFC3020	FIBERGLASS	1	ANCHOR REINFORCEMENT	INSIDE THE FRAME JAMB AT EACH FASTENER LOCATION
34	\$88D	SILICONE	1	ADHESIVE SILICONE GASKET	PEMKO ASSA ABLOY
35	AFC-2050	URETHANE FOAM	1	4 1/2" X 1 1/2" X 15" LG. 20 PCF URETHANE FOAM REINFORCEMENT	INSIDE THE PANEL AT LOCK LOCATION



