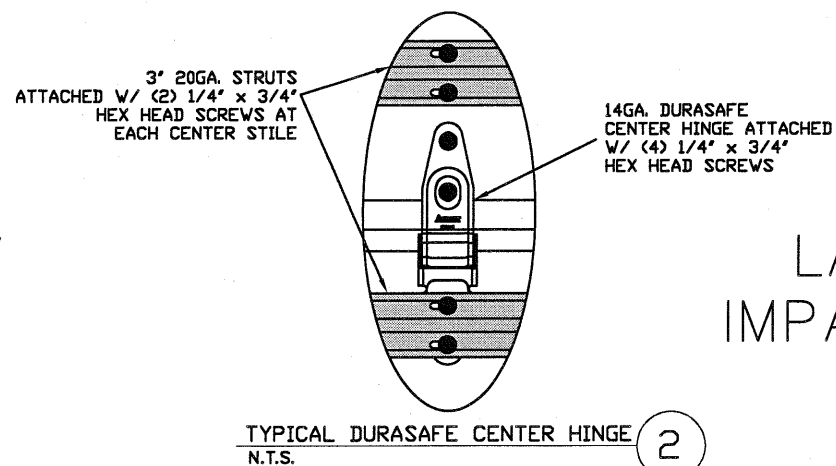
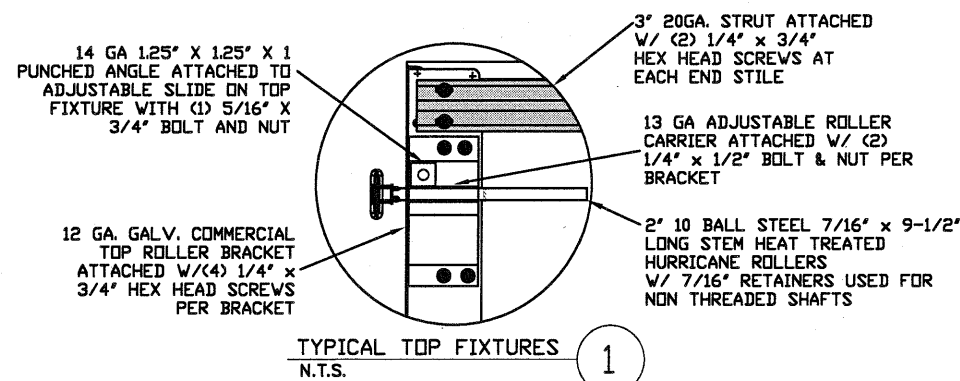




LARGE MISSILE IMPACT RESISTANT

25 GA (.019") EXTERIOR SKIN
G30 GALVANIZED
W/ POLYESTER TOP COAT

(1) 3" X 20 GA. STRUT ON THE TOP OF TOP SECTION ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT EACH END AND CENTER STILE

TOP ROLLER BRACKET ATTACHED W/ (4) 1/4" X 3/4" HEX HEAD SCREWS

27 GA (.015") INTERIOR SKIN
G30 GALVANIZED
W/ POLYESTER TOP COAT

END HINGE
12 GA.

(2) 3" X 20 GA. STRUTS PER SECTION

(1) 3" X 20 GA. STRUT ON THE BOTTOM OF EVERY SECTION ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT EACH END AND CENTER STILE

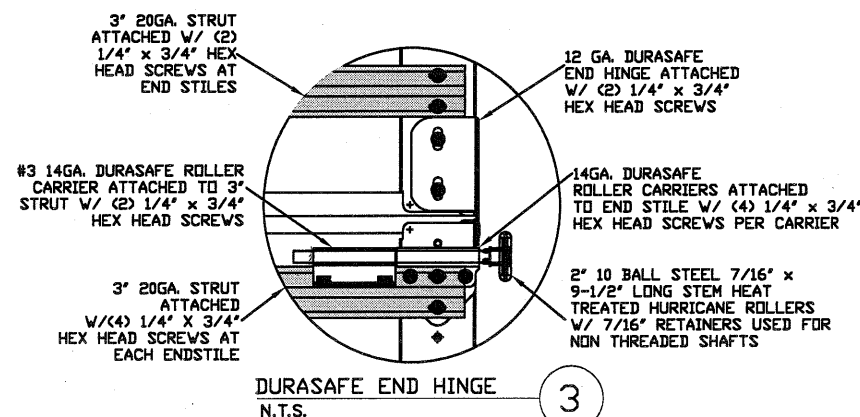
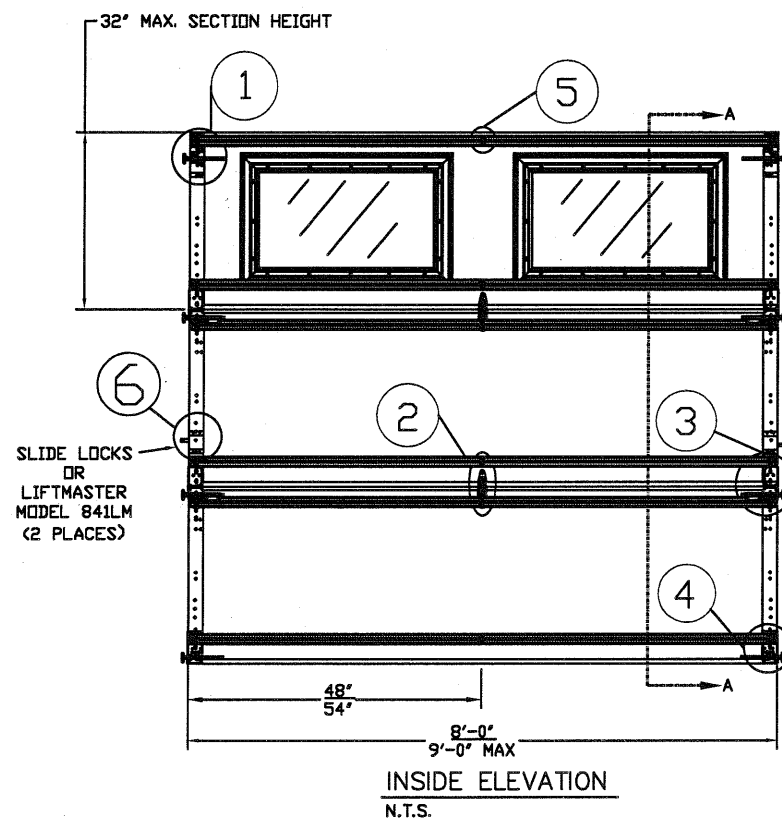
END HINGE
12 GA.

(1) 3" X 20 GA. STRUT ON THE HINGE LINE OF EVERY INTERMEDIATE AND BOTTOM SECTION ATTACHED W/ (4) 1/4" X 3/4" HEX HEAD SCREWS AT EACH END STILE AND W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT EACH CENTER STILE

BOTTOM BRACKET ATTACHED W/ (5) 1/4" X 3/4" HEX HEAD SCREWS

CONT. STEEL RETAINER W/ CONT. BTM SEAL

SECTION A-A (SIDE VIEW)
N.T.S.



3" 20GA. STRUTS ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS

3-1/2" X 7" BOTTOM BRACKET 13 GA. THICK ATTACHED W/ (5) 1/4" X 3/4" HEX HEAD SCREWS

2" 10 BALL STEEL 7/16" X 9-1/2" LONG STEM HEAT TREATED HURRICANE ROLLERS W/ 7/16" RETAINERS USED FOR NON THREADED SHAFTS

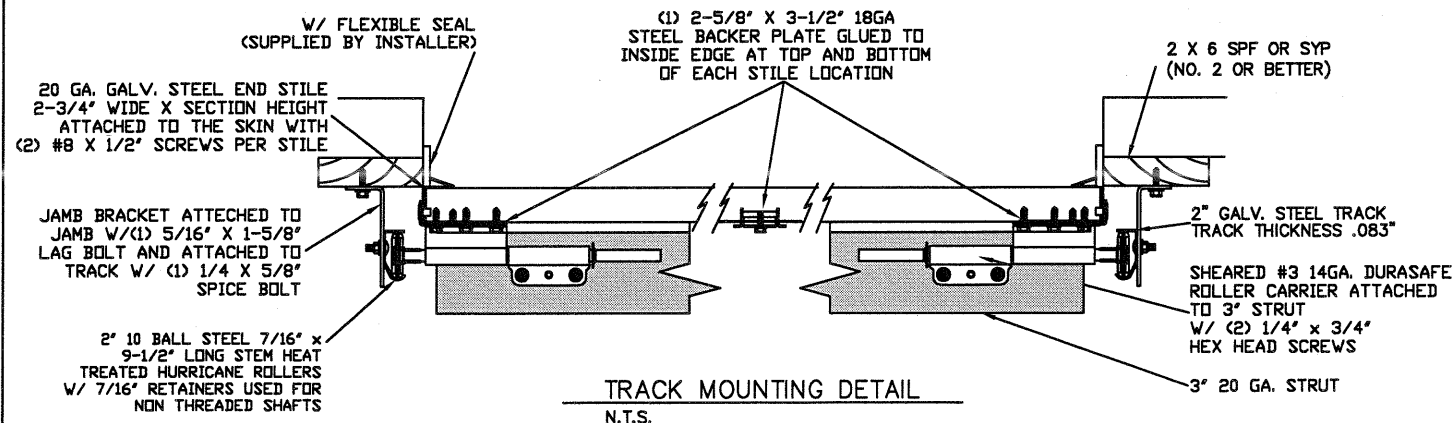
TYPICAL BOTTOM BRACKET
N.T.S.

3" 20GA. STRUTS ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT EACH CENTER STILE

STILE STIFFENERS (1) LOCATED IN HINGE HOLE(S) ON TOP SECTION ONLY

HOLES FOR STRUT ATTACHMENT (IF STRUT IS REQUIRED)

TYPICAL STILE STIFFENER
N.T.S.



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996 & F588, DASMA 108 & 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	232	211	201	192	184
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
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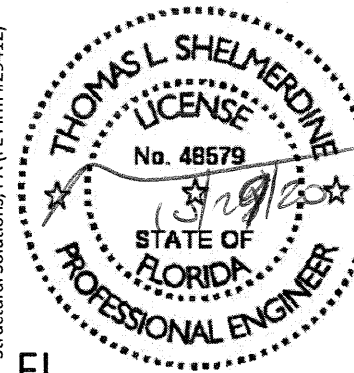
MAX SIZE
9'0" X 14'

DESIGN LOADS
+50.8 PSF
-59.8 PSF

TEST LOADS
(1.5 X DESIGN LOADS)
+76.2 PSF
-89.7 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

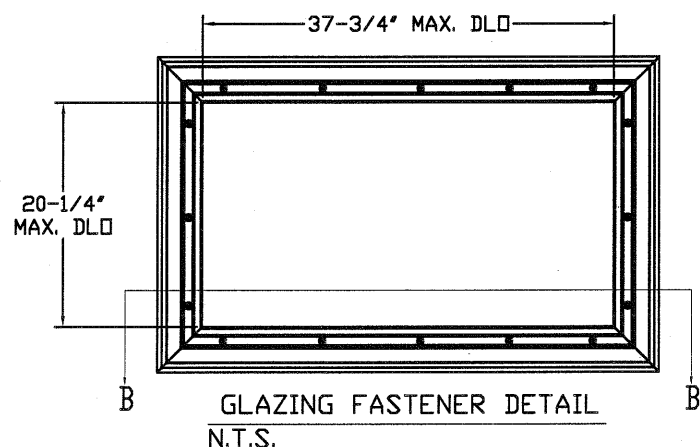
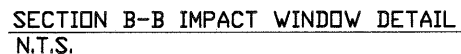


dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

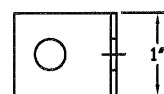
Amarr

MODEL #3000 AMARR CLASSICA 3000

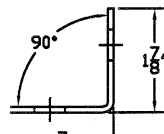
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B	CHECKED BY	RLR	DATE	1/25/18	IRC-3309-180-15-1
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC. 27105					SHEET 1 OF 3



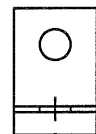
TOP FIXTURE ADDER PIECE



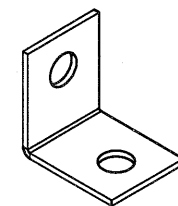
TOP VIEW



END VIEW



SIDE VIEW



ISOMETRIC VIEW

NOTES:

1. ZINC COATING
2. MATERIAL YIELD STRENGTH: 35-49 KSI.
3. MATERIAL HARDNESS: 50-60 ROCKWELL B.
4. 1.25" X 1.25" X 1" X 14 GA PUNCHED ANGLE ATTACHED W(1) 5/16" X 3/4" BOLT AND NUT

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 6"	3.5"	14"	27"	38"	46"	56"	64"								70"
7'	3.5"	14"	27"	38"	46"	56"	68"								76"
7' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"							82"
8'	3.5"	14"	27"	38"	46"	56"	68"	78"							88"
8' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"						94"
9'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"						100"
9' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	98"					106"
10'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"					112"
10' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				118"
11'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				124"
11' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	120"			130"
12'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"			136"
12' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	132"		142"
13'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"		148"
13' 6"	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	134"	144"	154"
14'	3.5"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"	160"

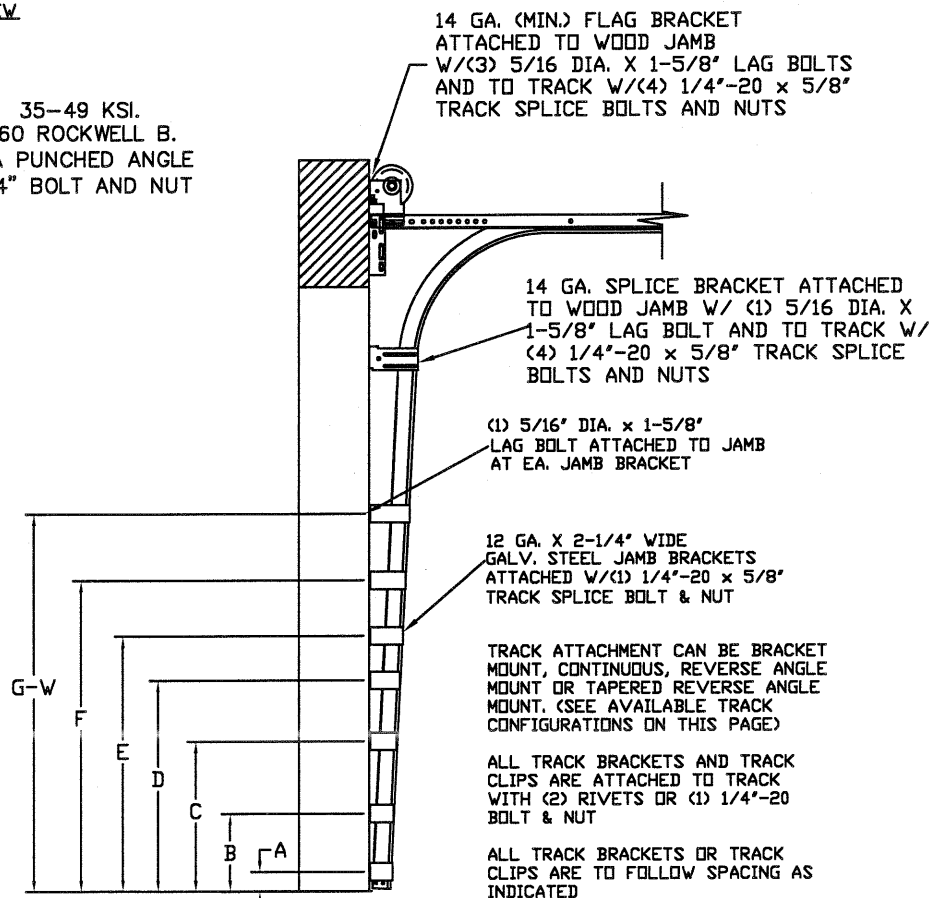
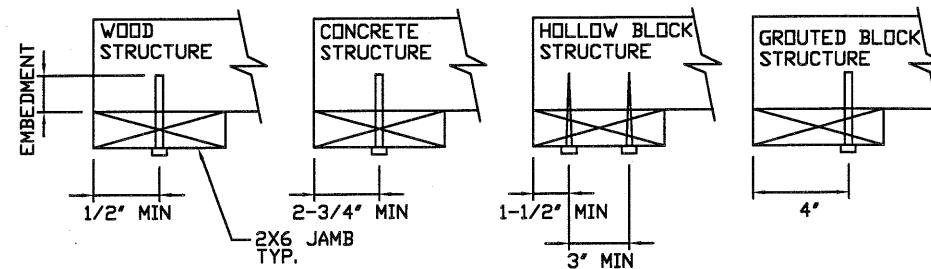
ALL TRACK ATTACHMENT SPACING $\pm 2"$ ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

WOOD JAMB ATTACHMENT TO STRUCTURE

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" O.C. (1 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 18" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK (1900 PSI MIN)
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS
(3" APART) AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF
FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

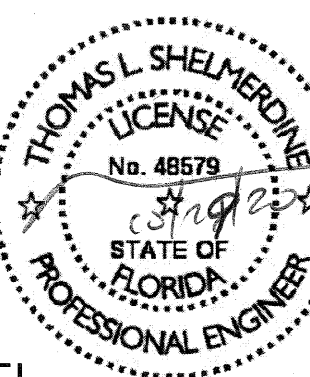
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 22" O.C. (1 1/4"
EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
SEE TABLE 1

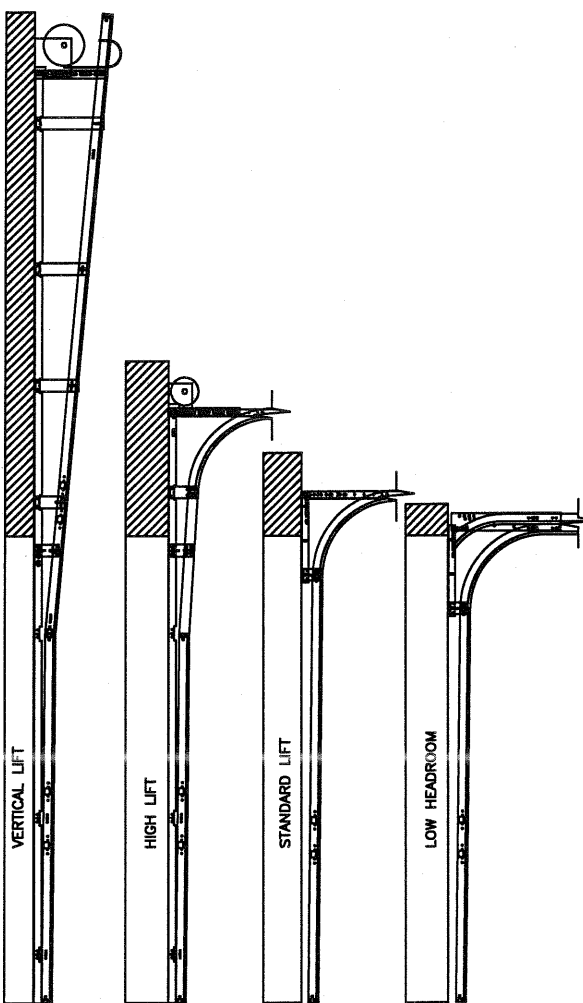
REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 9'0" x 14' DESIGN LOADS +50.8 PSF -59.8 PSF TEST LOADS (1.5 x DESIGN LOADS) +76.2 PSF -89.7 PSF LARGE MISSILE IMPACT RESISTANCE	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	 dba Structural Solutions of North Carolina, Inc. 5921 J.G.W. Erieland Ave., Greensboro, NC 27410
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MODEL #3000 AMARR CLASSICA 3000

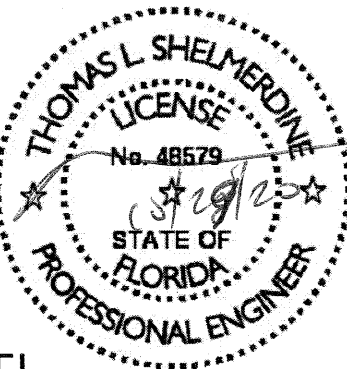
SIZE	DRAWN BY	RLR	DATE	1/25/18	DRAWING NUMBER
	B	CHECKED BY	RLR	DATE	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105					SHEET 2 OF 3



1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +228.6 LBS/FT & -269.1 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. (.019) MIN. EXTERIOR SKIN AND 27 GA. (.015) MIN. INTERIOR SKIN, ROLLED FORMED, G30 GALVANIZED W/POLYESTER TOP COAT
5. DOORS UP TO 14'0" HIGH USE (2) 3" 20GA STRUTS ON EACH SECTION
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

Section	Panel Type	Center Stile Location		Max Design Loads Allowed	
Width (ft)		1st (in)	2st (in)	Positive (PSF)	Negative (PSF)
6' 0	Short	24.6	47.4	76.2	88.6
7' 0	Short	29.1	54.9	65.3	75.9
7' 2	Short	29.9	56.1	63.7	74.2
7' 4	Short	30.6	57.4	62.3	72.5
7' 6	Long/Short	45.0		60.9	70.9
7' 8	Long/Short	46.0		59.6	69.3
7' 10	Long/Short	47.0		58.3	67.9
8' 0	Long/Short	48.0		57.1	66.4
8' 2	Long/Short	49.0		55.9	65.1
8' 4	Long/Short	50.0		54.8	63.8
8' 6	Long/Short	51.0		53.7	62.5
8' 8	Long/Short	52.0		52.7	61.3
8' 10	Long/Short	53.0		51.7	60.2
9' 0	Long/Short	54.0		50.8	59.1

DOOR HEIGHT	SECTION HEIGHTS					
	Btm	#2	#3	#4	#5	#6
14' 0"	28"	28"	28"	28"	28"	28"
13' 6"	28"	28"	28"	28"	18"	32"
13' 0"	32"	32"	32"	32"	28"	
12' 5"	32"	32"	32"	32"	21"	
12' 0"	32"	28"	28"	28"	28"	
11' 6"	32"	32"	28"	28"	18"	
11' 1"	28"	28"	28"	28"	21"	
10' 4"	32"	32"	32"	28"		
10' 0"	32"	32"	28"	28"		
9' 6"	32"	32"	32"	18"		
9' 1"	32"	28"	28"	21"		
8' 6"	28"	28"	28"	18"		
8' 0"	32"	32"	32"			
7' 4"	28"	28"	32"			
7' 0"	28"	28"	28"			

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'0 x 14' DESIGN LOADS +50.8 PSF -59.8 PSF TEST LOADS (1.5 x DESIGN LOADS) +76.2 PSF -89.7 PSF LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL #3000 AMARR CLASSICA 3000			
SIZE B	DRAWN BY	RLR	DATE 1/25/18
	CHECKED BY	RLR	DATE 1/25/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IRC-3309-180-15-1 SHEET 3 OF 3