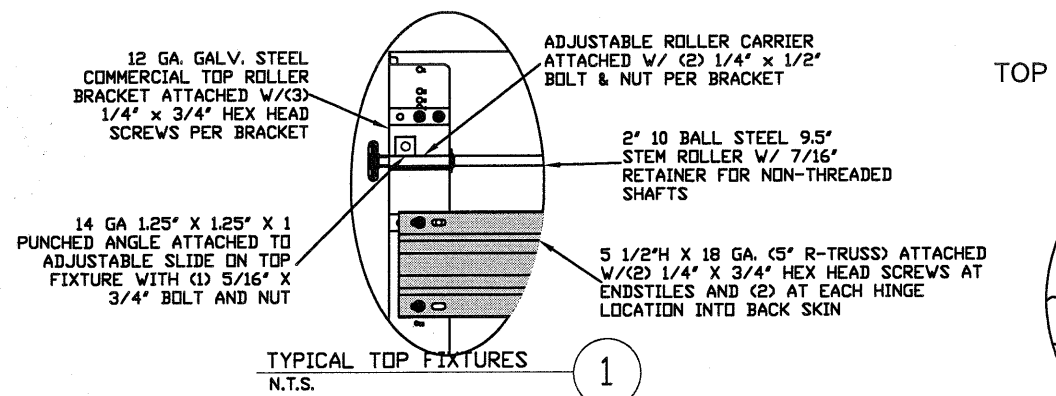
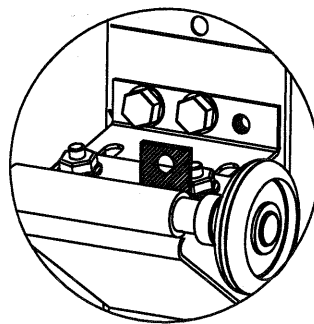
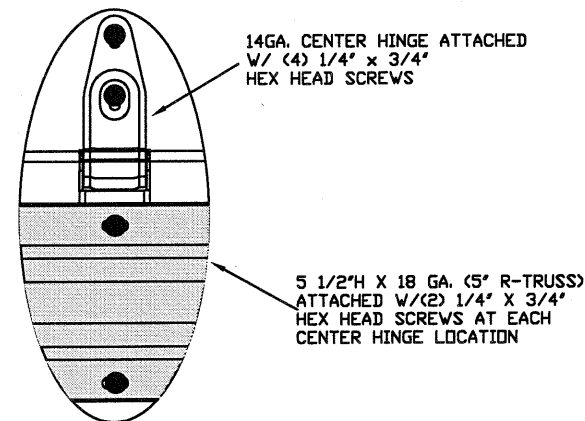




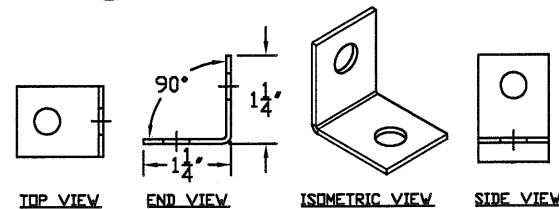
TOP FIXTURE REINFORCEMENT ILLUSTRATION



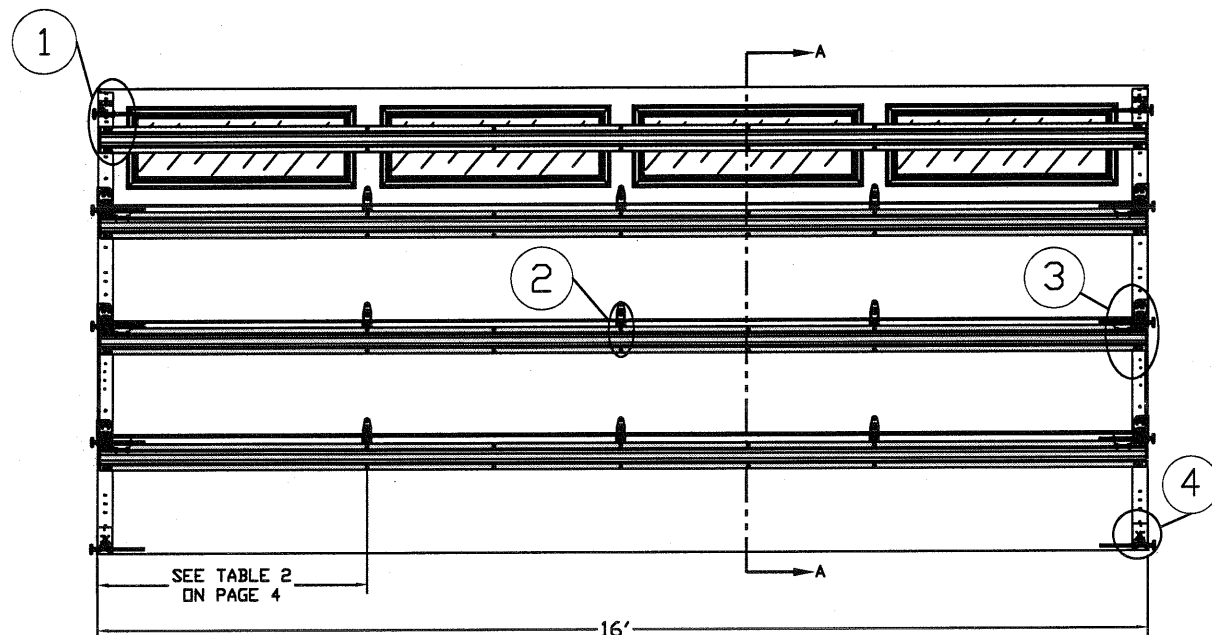
TYPICAL CENTER HINGE
N.T.S.



LARGE MISSILE IMPACT
RESISTANT



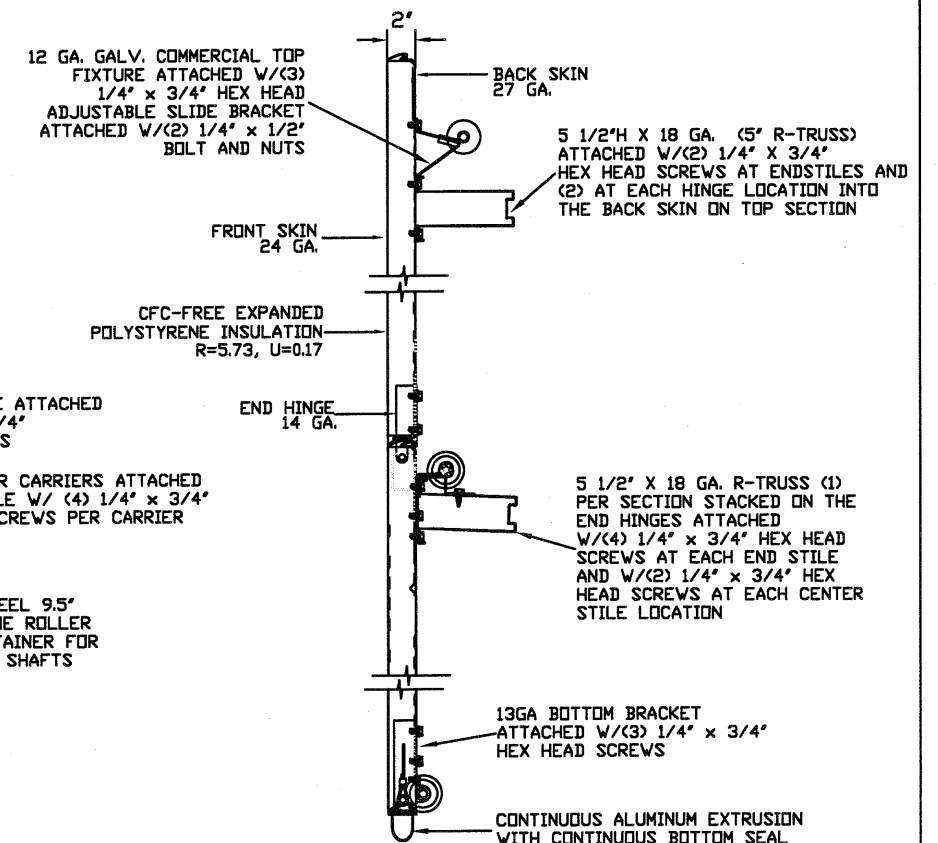
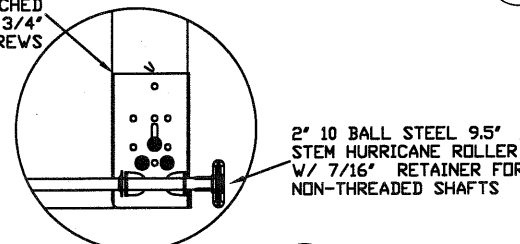
TOP FIXTURE ADDER PIECE



TYPICAL END HINGE
N.T.S.

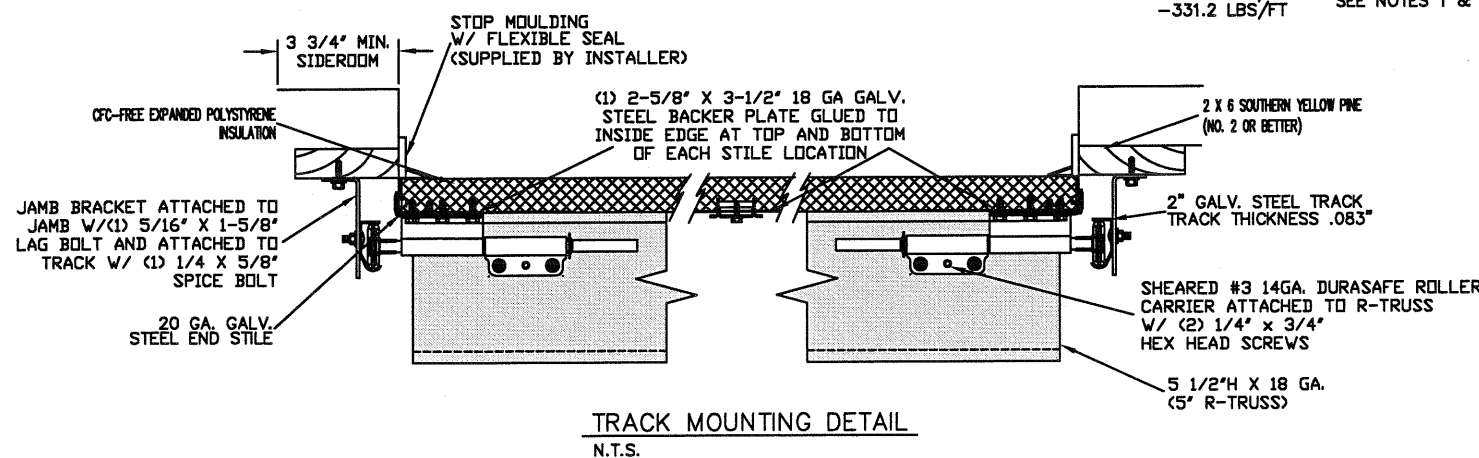
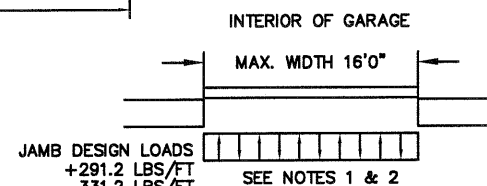
13 GA. THICK BOTTOM BRACKET
ATTACHED W/ (3) 1/4\"/>

TYPICAL BOTTOM BRACKET
N.T.S.



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

INSIDE ELEVATION
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

SPECIFICATIONS AND NOTES

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: +291.2 LBS/FT & -331.2 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASHA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996, & F588, ANSI/DASHA 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)	200	182	173	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+54.6 PSF
-62.1 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

Amarr

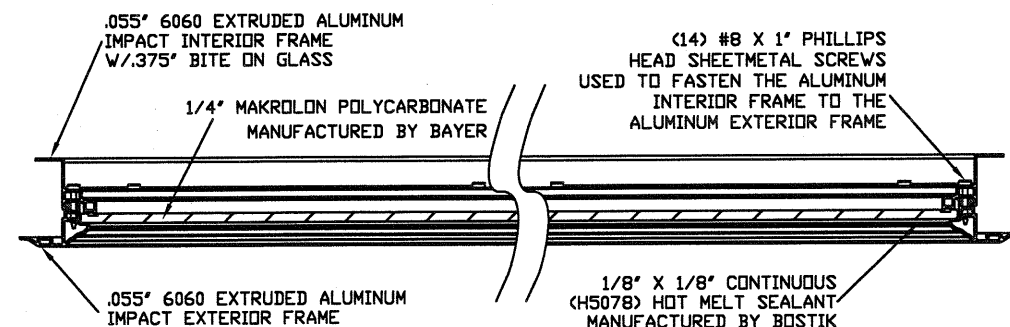
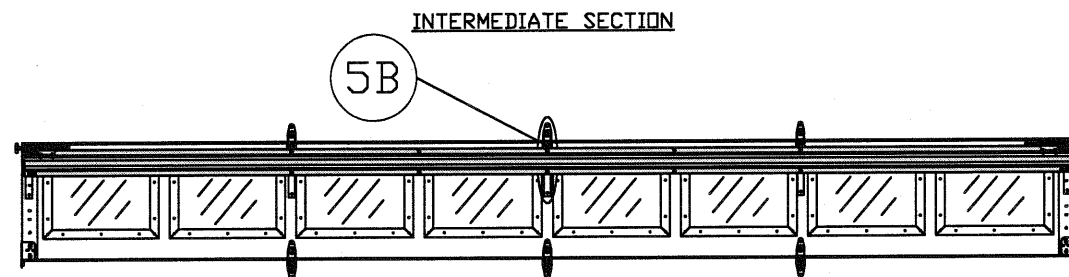
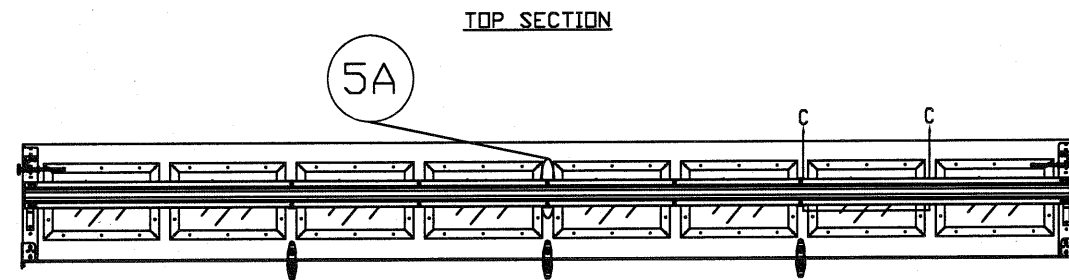
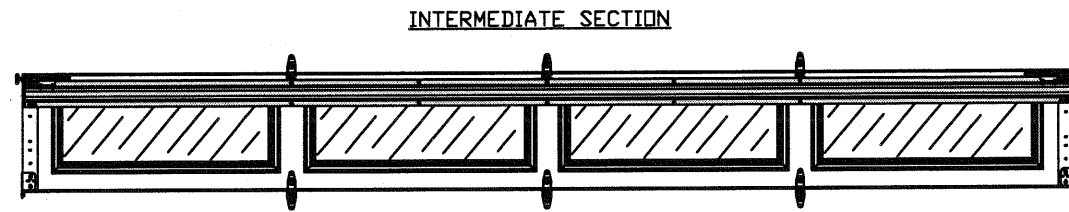
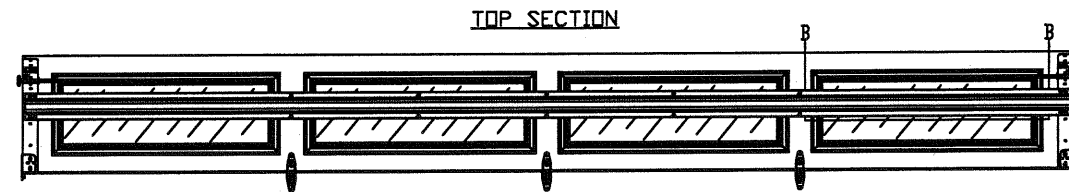
MODEL #1200 AMARR HERITAGE 3000
MODEL #1200 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	R/L	DATE	02/10/15	DRAWING NUMBER
B	CHECKED BY	R/L	DATE	02/10/15	IRC-1216-155-26-1

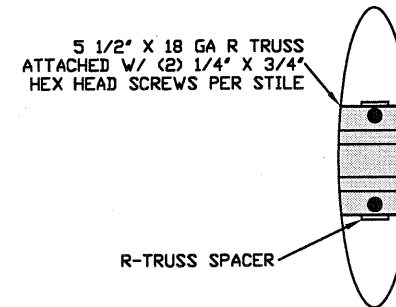
ENTREPRENEUR
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 1 OF 4

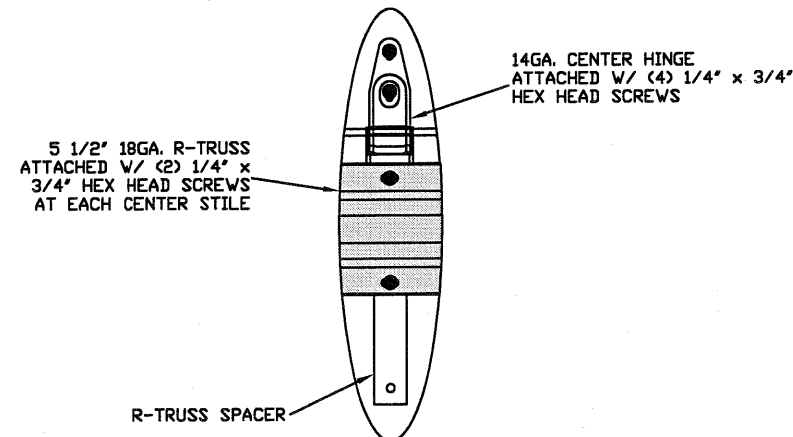
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS



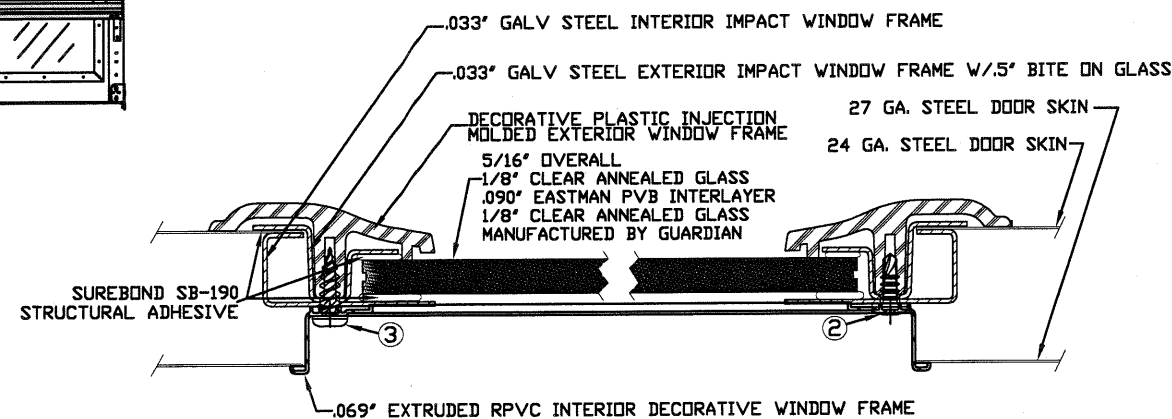
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



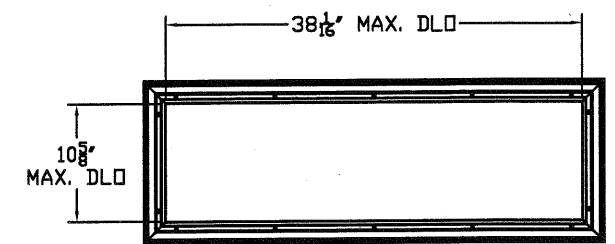
R-TRUSS SPACER (5A)
N.T.S.



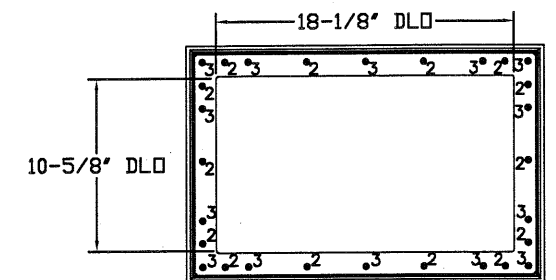
R-TRUSS SPACER
N.T.S.



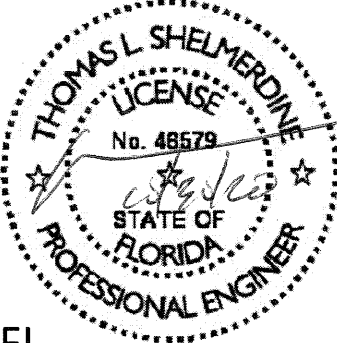
- 2 3/16" X 1/2" SCREW - USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
- 3 11/64" X 1/2" SCREW - USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY



LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.
GLAZING MEETS ASTM E1300-04

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +36.4 PSF -41.4 PSF TEST LOADS (1.5 x DESIGN LOADS) +54.6 PSF -62.1 PSF LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #00048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL #1200 AMARR HERITAGE 3000 MODEL #1200 AMARR OAK SUMMIT 3000 SHORT, LONG, FLUSH & OAK SUMMIT PANELS			
SIZE	DRAWN BY	R/LR	DATE 02/10/15
B	CHECKED BY	R/LR	DATE 02/10/15
ENTRENATIC 165 CARRIAGE COURT WINSTON-SALEM, NC. 27105			
DRAWING NUMBER			IRC-1216-155-26-1
SHEET 2 OF 4			

WOOD JAMB ATTACHMENT TO STRUCTURE

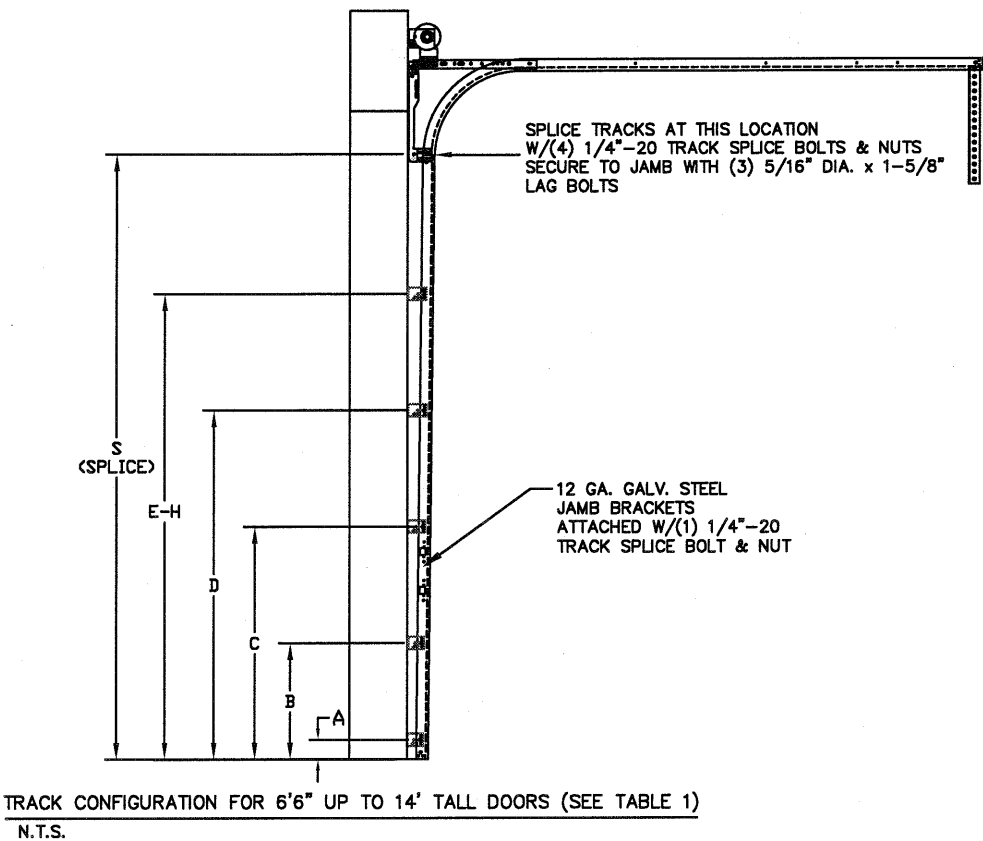


TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7'	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8'	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14'	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SYP NO. 2 OR BETTER ONLY

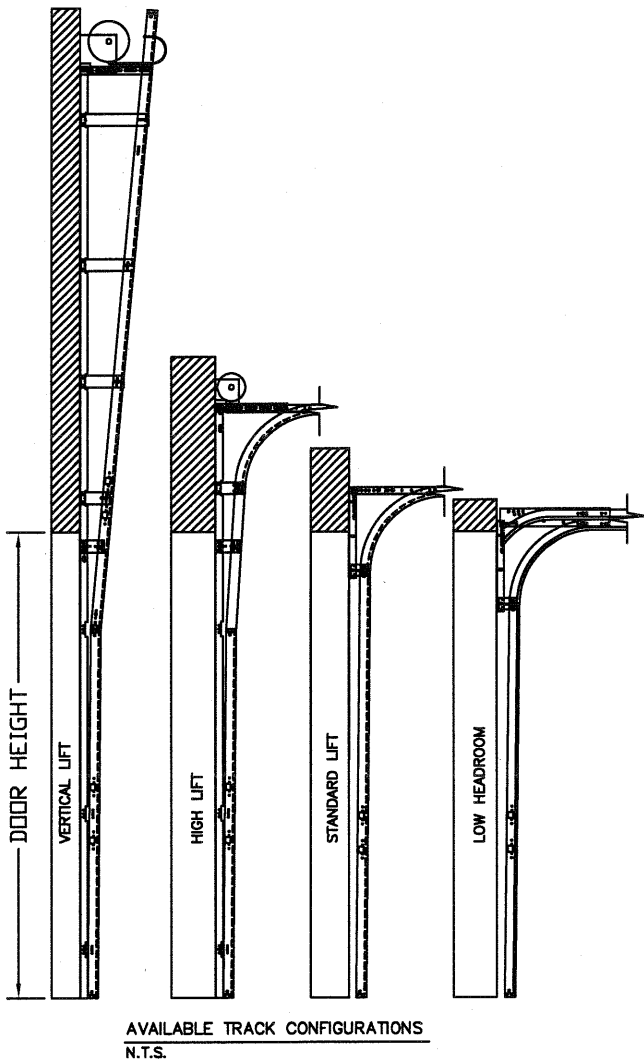
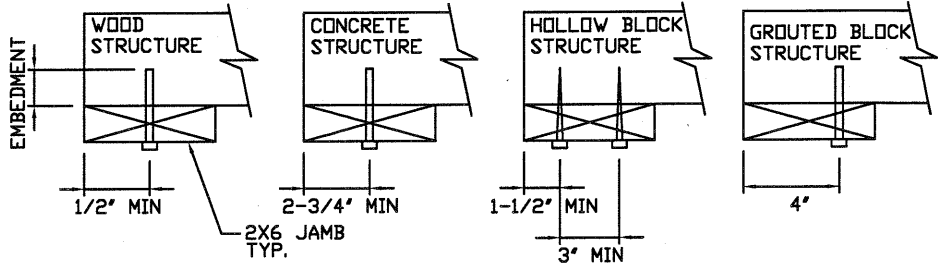
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 16" O.C. (1 1/2" EMBEDMENT)

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 14" 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
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 16" 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



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+54.6 PSF
-62.1 PSF

LARGE MISSILE IMPACT
RESISTANCE

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

FL

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

Amarr

MODEL #1200 AMARR HERITAGE 3000
MODEL #1200 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	02/10/15	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	02/10/15	IRC-1216-155-26-1

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 3 OF 4

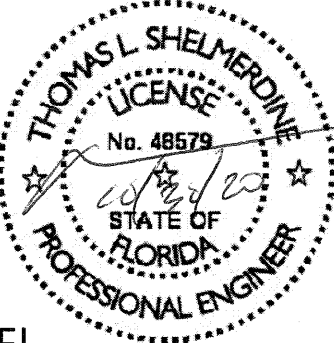
TABLE 2

Section	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
Width (ft)		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
10' 0	Short	48.41	71.59			48.6	55.2
10' 0	Long	60.00				29.0	33.0
10' 0	Oak Summit	60.00				29.0	33.0
12' 0	Short	48.81	95.19			36.5	41.5
12' 0	Long	49.63	94.38			36.8	41.9
12' 0	Oak Summit	48.31	95.69			36.3	41.3
12' 2	Short	49.64	96.36			36.1	41.0
12' 2	Long	50.08	95.92			36.2	41.2
12' 2	Oak Summit	49.06	96.94			35.9	40.8
12' 4	Short	50.64	97.36			35.7	40.6
12' 4	Long	51.08	96.92			35.9	40.8
12' 4	Oak Summit	49.81	98.19			35.4	40.3
12' 6	Short	50.67	99.33			35.0	39.8
12' 6	Long	51.17	98.83			35.2	40.0
12' 6	Oak Summit	50.56	99.44			35.0	39.8
12' 8	Short	51.67	100.33			34.7	39.4
12' 8	Long	52.10	99.90			34.8	39.6
12' 8	Oak Summit	51.31	100.69			34.5	39.3
12' 10	Short	52.25	101.75			34.2	38.9
12' 10	Long	53.10	100.90			34.5	39.2
12' 10	Oak Summit	52.06	101.94			34.1	38.8
13' 0	Short	53.00	103.00			33.8	38.4
13' 0	Long	54.10	101.90			34.1	38.8
13' 0	Oak Summit	52.81	103.19			33.7	38.3
13' 2	Short	54.00	104.00			33.4	38.0
13' 2	Long	55.10	102.90			33.8	38.4
13' 2	Oak Summit	53.56	104.44			33.3	37.9
13' 4	Short	54.40	105.60			32.9	37.4
13' 4	Long	54.90	105.10			33.1	37.6
13' 4	Oak Summit	54.31	105.69			32.9	37.4
13' 6	Short	55.40	106.60			32.6	37.1
13' 6	Long	55.90	106.10			32.8	37.3
13' 6	Oak Summit	55.06	106.94			32.5	37.0
13' 8	Short	56.40	107.60			32.3	36.8
13' 8	Long	56.63	107.38			32.4	36.8
13' 8	Oak Summit	55.81	108.19			32.1	36.6
13' 10	Short	57.16	83.00	108.71		41.9	47.6
13' 10	Long	57.17	108.83			31.9	36.3
13' 10	Oak Summit	56.56	109.44			31.8	36.1

Section	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
14' 0	Short	57.76	84.00	110.11		41.4	47.1
14' 0	Long	58.63	84.00	109.38		41.4	47.1
14' 0	Oak Summit	57.31	110.69			31.4	35.7
14' 2	Short	58.85	85.00	111.41		40.9	46.5
14' 2	Long	59.17	85.00	110.83		40.9	46.5
14' 2	Oak Summit	58.06	111.94			31.1	35.3
14' 4	Short	59.16	86.00	112.71		40.4	46.0
14' 4	Long	60.17	86.00	111.83		40.4	46.0
14' 4	Oak Summit	58.81	113.19			30.7	34.9
14' 6	Short	59.86	87.00	114.01		40.0	45.5
14' 6	Long	61.17	87.00	112.83		40.0	45.5
14' 6	Oak Summit	59.56	114.44			30.4	34.6
14' 8	Short	60.56	88.00	115.31		39.5	44.9
14' 8	Long	44.81	88.00	131.19		39.5	44.9
14' 8	Oak Summit	60.31	115.69			30.1	34.2
14' 10	Short	61.26	89.00	116.61		39.1	44.4
14' 10	Long	45.60	89.00	132.40		39.1	44.4
14' 10	Oak Summit	61.06	116.94			29.7	33.8
15' 0	Short	61.94	90.00	117.94		38.6	43.9
15' 0	Long	46.60	90.00	133.40		38.6	43.9
15' 0	Oak Summit	61.81	118.19			29.4	33.5
15' 2	Short	62.66	91.00	119.21		38.2	43.5
15' 2	Long	47.60	91.00	134.40		38.2	43.5
15' 2	Oak Summit	62.56	119.44			29.1	33.1
15' 4	Short	53.60	79.20	104.80	130.40	37.8	43.0
15' 4	Long	47.25	92.00	136.75		37.8	43.0
15' 4	Oak Summit	63.31	120.69			28.8	32.8
15' 6	Short	46.62	93.00	139.38		37.4	42.5
15' 6	Long	47.60	93.00	138.40		37.4	42.5
15' 6	Oak Summit	47.42	93.00	138.58		37.4	42.5
15' 8	Short	47.62	94.00	140.38		37.0	42.1
15' 8	Long	48.60	94.00	139.40		37.0	42.1
15' 8	Oak Summit	48.02	94.00	139.98		37.0	42.1
15' 10	Short	48.62	95.00	141.38		36.6	41.6
15' 10	Long	49.17	95.00	140.83		36.6	41.6
15' 10	Oak Summit	48.62	95.00	141.38		36.6	41.6
16' 0	Short	49.62	96.00	142.38		36.4	41.4
16' 0	Long	50.60	96.00	141.40		36.4	41.4
16' 0	Oak Summit	48.42	96.00	143.58		36.4	41.4

TABLE 3

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

REV	DESCRIPTION OF REVISIONS		DATE	BY
MAX SIZE 16' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +36.4 PSF -41.4 PSF TEST LOADS (1.5 x DESIGN LOADS) +54.6 PSF -62.1 PSF LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)  FL		
				
MODEL #1200 AMARR HERITAGE 3000 MODEL #1200 AMARR OAK SUMMIT 3000 SHORT, LONG, FLUSH & OAK SUMMIT PANELS				
SIZE	DRAWN BY	RLR	DATE	02/10/15
B	CHECKED BY	RLR	DATE	02/10/15
DRAWING NUMBER				IRC-1216-155-26-1
ENTREMATIC				SHEET 4 OF 4
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105				