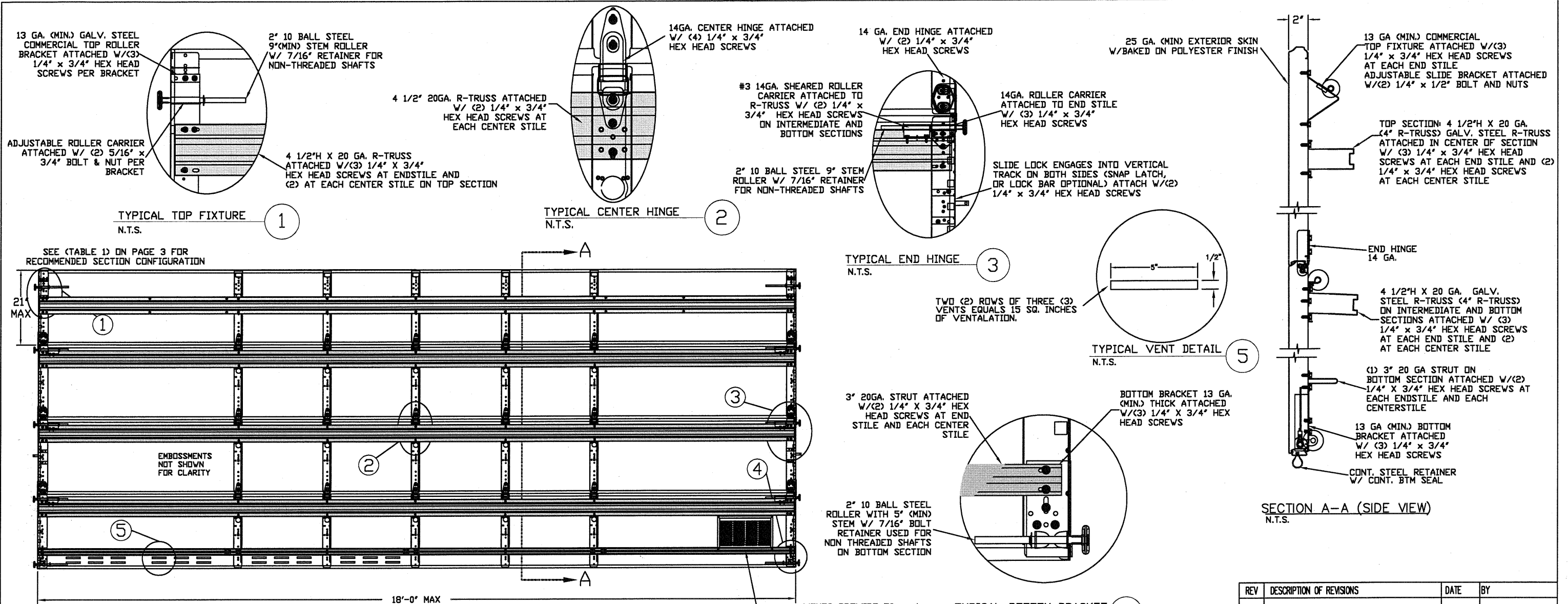
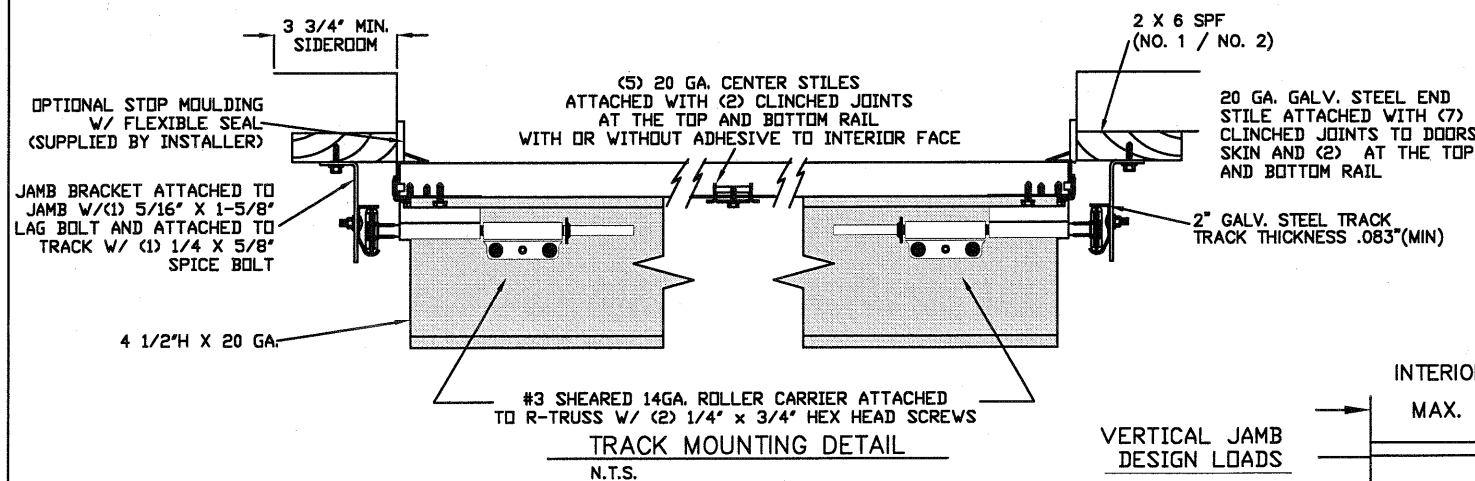




LARGE MISSILE IMPACT RESISTANT

INSIDE ELEVATION
N.T.S.



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 & E1996, AND 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)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

SPECIFICATIONS AND NOTES

- 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.
- EACH VERTICAL JAMB RECEIVES MAXIMUM DESIGN LOADS OF: +228.6 LBS/FT & -258.3 LBS/FT
- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY.
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
- AMARR MANUFACTURES AND DISTRIBUTES GARAGE DOORS UNDER MANY BRAND LABELS. PLEASE SEE AMARR-MANUFACTURED PRIVATE LABEL CHART FOR REFERENCE OF EQUIVALENT PRODUCTS FOR WINDLOAD APPROVAL.
- REFER TO TABLES ON PAGE 3 FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES
- PANEL STAMP DOES NOT EFFECT WINDLOAD CAPABILITIES.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 18' x 14'			
SIZES SUBJECT TO WEIGHT LIMITATIONS			
DESIGN LOADS			
+25.4 PSF			
-28.7 PSF			
TEST LOADS			
+38.1 PSF			
-43.1 PSF			
LARGE MISSILE IMPACT RESISTANT			

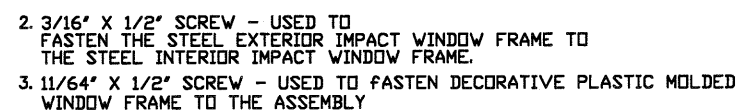
Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

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

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

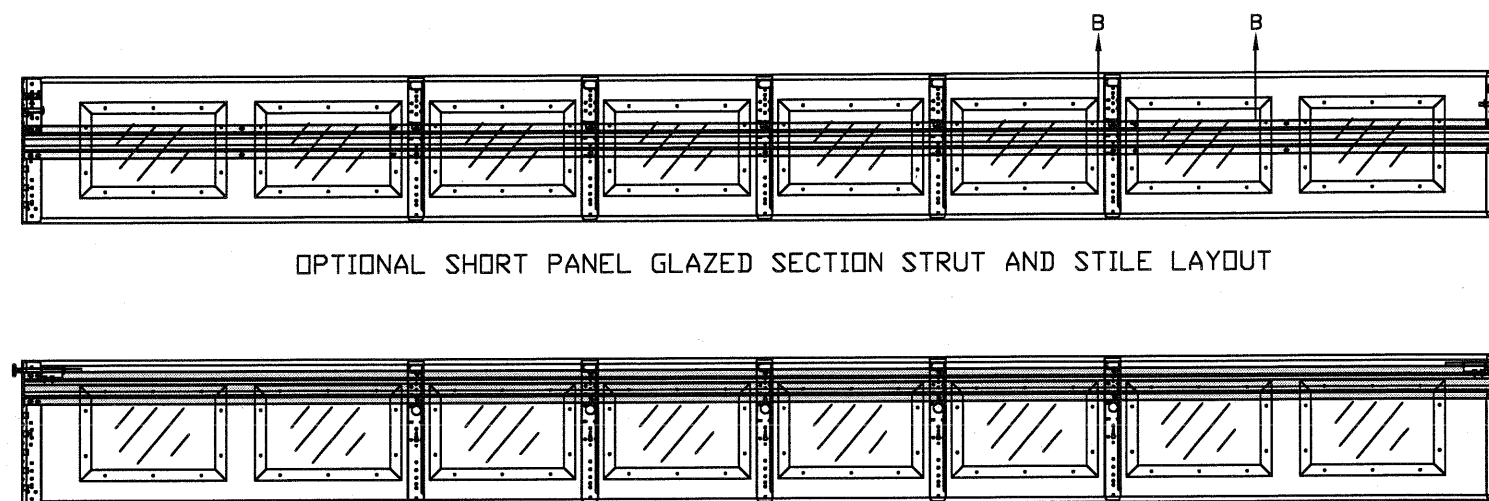
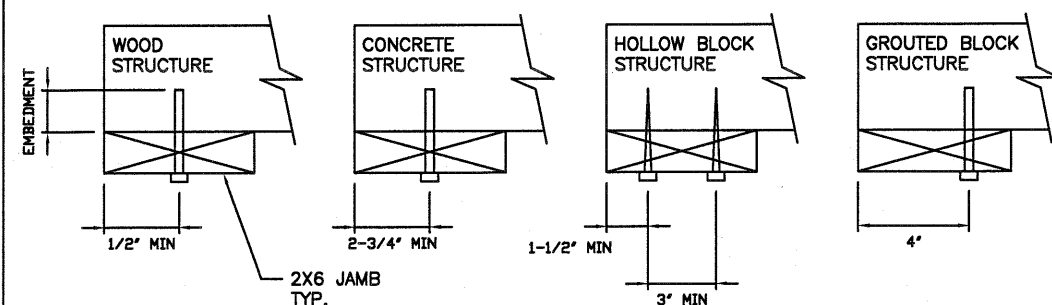
Amarr

MODEL #650 AMARR OAK SUMMIT SERIES 1000 & 2000			
MODEL #600 AMARR STRATFORD SERIES 1000 & 2000			
MODEL #950 AMARR HERITAGE SERIES 1000 & 2000			
SIZE	DRAWN BY	DRC	DATE
B	CHECKED BY	BHG	DATE
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IRC-6018-130-24-1
			SHEET 1 OF 3

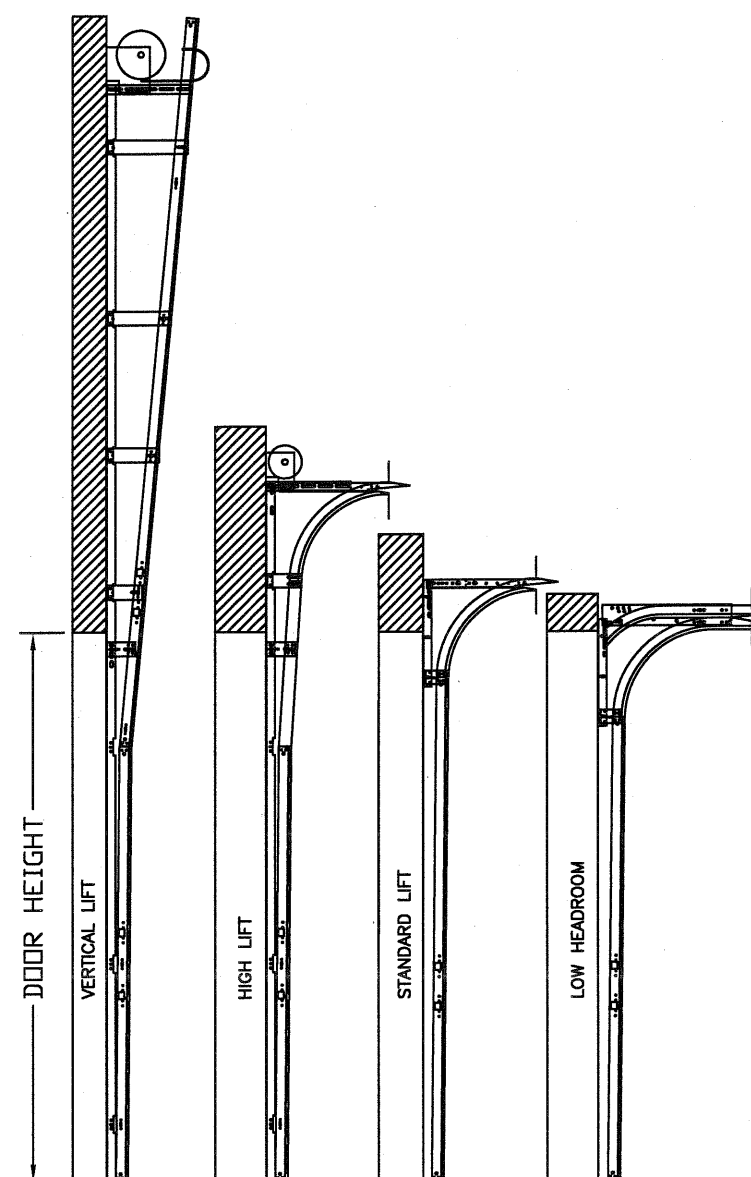


WOOD JAMB ATTACHMENT TO STRUCTURE

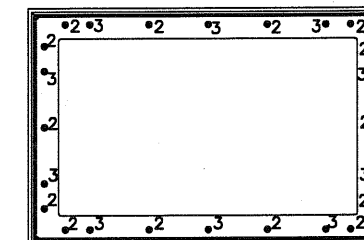
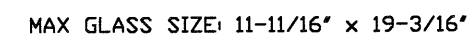
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



OPTIONAL SHORT PANEL GLAZED SECTION STRUT AND STILE LAYOUT

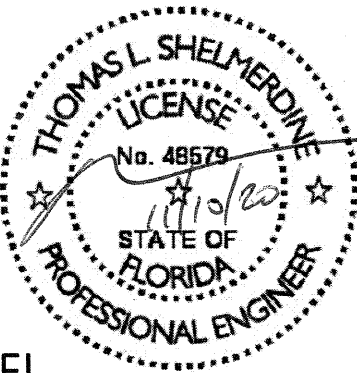


AVAILABLE TRACK CONFIGURATIONS
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14' SIZES SUBJECT TO WEIGHT LIMITATIONS DESIGN LOADS +25.4 PSF -28.7 PSF TEST LOADS +38.1 PSF -43.1 PSF LARGE MISSILE IMPACT RESISTANT	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL		dba Structural Solutions of North Carolina, Inc.
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MODEL #650 AMARR OAK SUMMIT SERIES 1000 & 2000 MODEL #600 AMARR STRATFORD SERIES 1000 & 2000 MODEL #950 AMARR HERITAGE SERIES 1000 & 2000			
SIZE	DRAWN BY	DRC	DATE 03/18/10
B	CHECKED BY	BHG	DATE 03/18/10

ENTREPRENEUR 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105	DRAWING NUMBER IRC-6018-130-24 SHEET 2 OF 3
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TABLE 1

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

TABLE 2

HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 0"	3.5"	18"	36"	54"					64"
6' 6"	3.5"	21"	38"	58"					70"
7' 0"	3.5"	21"	42"	63"					76"
7' 6"	3.5"	18"	36"	54"	72"				82"
8' 0"	3.5"	21"	39"	58"	75"				88"
8' 6"	3.5"	21"	42"	63"	81"				94"
9' 0"	3.5"	18"	36"	54"	72"	90"			100"
9' 6"	3.5"	21"	39"	57"	75"	93"			106"
10' 0"	3.5"	21"	42"	63"	81"	99"			112"
10' 6"	3.5"	21"	42"	63"	84"	105"			118"
11' 0"	3.5"	21"	39"	57"	75"	93"	111"		124"
11' 6"	3.5"	21"	42"	63"	81"	99"	117"		130"
12' 0"	3.5"	21"	42"	63"	84"	105"	123"		136"
12' 6"	3.5"	18"	36"	57"	75"	93"	111"	129"	142"
13' 0"	3.5"	21"	42"	63"	81"	99"	117"	135"	148"
13' 6"	3.5"	21"	42"	63"	84"	105"	123"	141"	154"
14' 0"	3.5"	21"	42"	63"	84"	105"	126"	147"	160"

ALL TRACK ATTACHMENT SPACING +/- 1" WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 3

Section	Panel Type	Center Stile Locations (Measured from Left Edge)					Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	Positive (PSF)	Negative (PSF)
16' 2	Short	50.27	73.64	97.00	120.36	143.73	28.1	31.8
16' 2	Long	51.17	74.08	97.00	119.92	142.83	28.1	31.8
16' 2	Bead	48.75	72.88	97.00	121.13	145.25	28.1	31.8
16' 4	Short	51.27	74.64	98.00	121.36	144.73	27.9	31.5
16' 4	Long	52.17	75.08	98.00	120.92	143.83	27.8	31.4
16' 4	Bead	49.08	73.54	98.00	122.46	146.92	27.9	31.5
16' 6	Short	52.27	75.64	99.00	122.36	145.73	27.6	31.2
16' 6	Long	51.34	75.17	99.00	122.83	146.66	27.6	31.2
16' 6	Bead	49.42	74.21	99.00	123.79	148.59	27.6	31.2
16' 8	Short	51.34	75.67	100.00	124.33	148.66	27.3	30.8
16' 8	Long	52.20	76.10	100.00	123.90	147.80	27.3	30.8
16' 8	Bead	49.92	74.96	100.00	125.04	150.09	27.3	30.8
16' 10	Short	51.50	76.25	101.00	125.75	150.50	27.0	30.5
16' 10	Long	53.20	77.10	101.00	124.90	148.80	27.0	30.5
16' 10	Bead	50.15	75.57	101.00	126.29	151.59	27.0	30.5
17' 0	Short	53.34	77.67	102.00	126.33	150.66	26.8	30.2
17' 0	Long	54.20	78.10	102.00	125.90	149.80	26.7	30.2
17' 0	Bead	50.92	76.46	102.00	127.54	153.09	26.8	30.2
17' 2	Short	53.00	78.00	103.00	128.00	153.00	26.5	29.9
17' 2	Long	55.20	79.10	103.00	126.90	150.80	26.4	29.8
17' 2	Bead	51.42	77.21	103.00	128.79	154.59	26.5	29.9
17' 4	Short	54.00	79.00	104.00	129.00	154.00	26.2	29.7
17' 4	Long	56.20	80.10	104.00	127.90	151.80	26.1	29.5
17' 4	Bead	51.92	77.96	104.00	130.04	156.09	26.2	29.7
17' 6	Short	55.00	80.00	105.00	130.00	155.00	26.0	29.4
17' 6	Long	57.20	81.10	105.00	128.90	152.80	25.7	29.1
17' 6	Bead	52.42	78.71	105.00	131.29	157.59	26.0	29.4
17' 8	Short	54.80	80.40	106.00	131.60	157.20	25.7	29.1
17' 8	Long	55.80	80.90	106.00	131.10	156.20	25.7	29.1
17' 8	Bead	52.92	79.46	106.00	132.54	159.09	25.7	29.1
17' 10	Short	55.80	81.40	107.00	132.60	158.20	25.5	28.8
17' 10	Long	56.25	81.63	107.00	132.38	157.75	25.5	28.8
17' 10	Bead	53.42	80.21	107.00	133.79	160.59	25.5	28.8
18' 0	Short	57.25	82.63	108.00	133.38	158.75	25.4	28.7
18' 0	Long	57.80	82.90	108.00	133.10	158.20	25.3	28.6
18' 0	Bead	53.92	80.96	108.00	135.04	162.09	25.4	28.7

REV

DESCRIPTION OF REVISIONS

DATE

BY

MAX SIZE
18' x 14'

SIZES SUBJECT
TO WEIGHT
LIMITATIONS

DESIGN LOADS
+25.4 PSF
-28.7 PSF

TEST LOADS
+38.1 PSF
-43.1 PSF

LARGE
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MODEL #650 AMARR OAK SUMMIT SERIES 1000 & 2000
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SIZE

DRAWN BY DRC

DATE 03/18/10

DRAWING NUMBER

B

CHECKED BY BHG

DATE 03/18/10

IRC-6018-130-24-I

ENTREMATIC

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

SHEET 3 OF 3