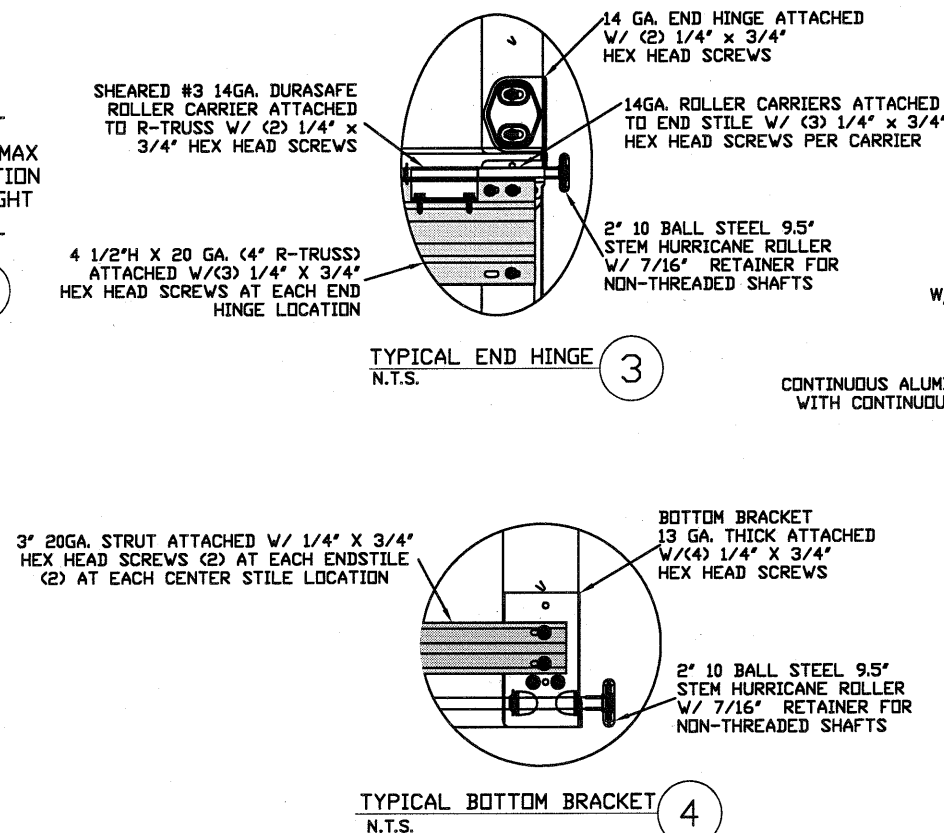
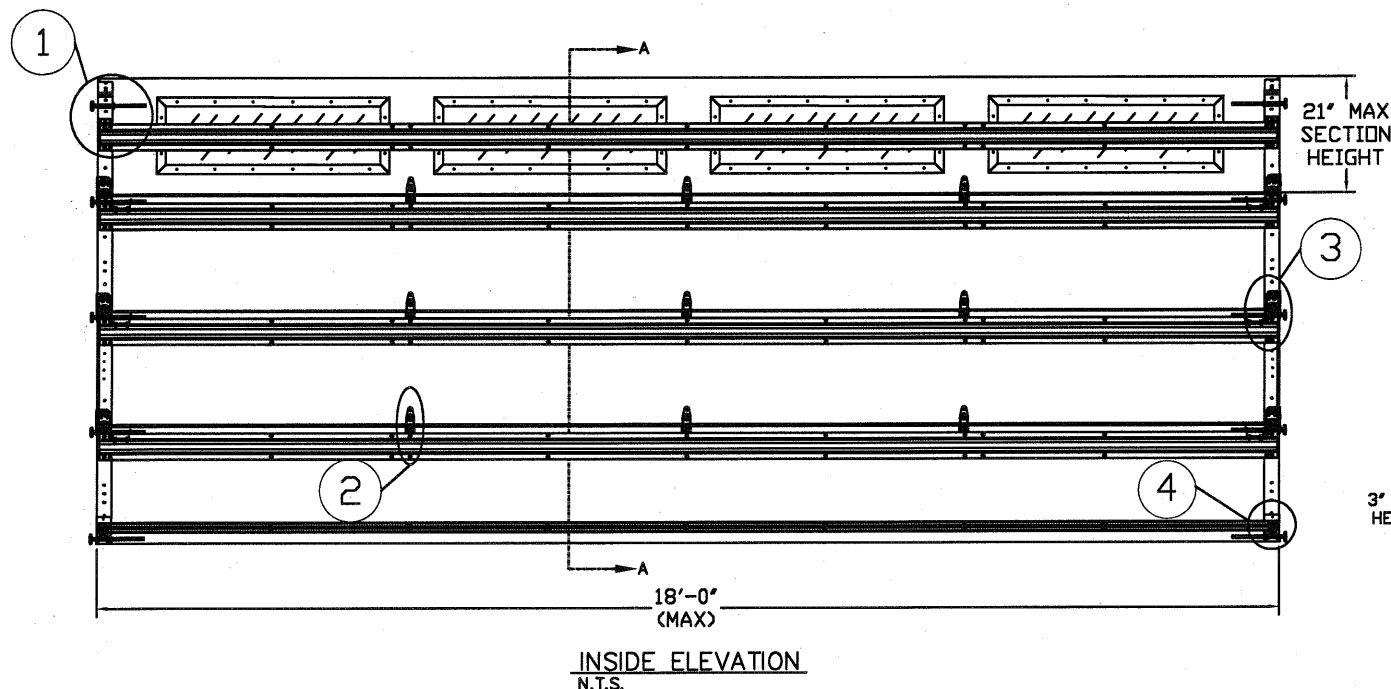
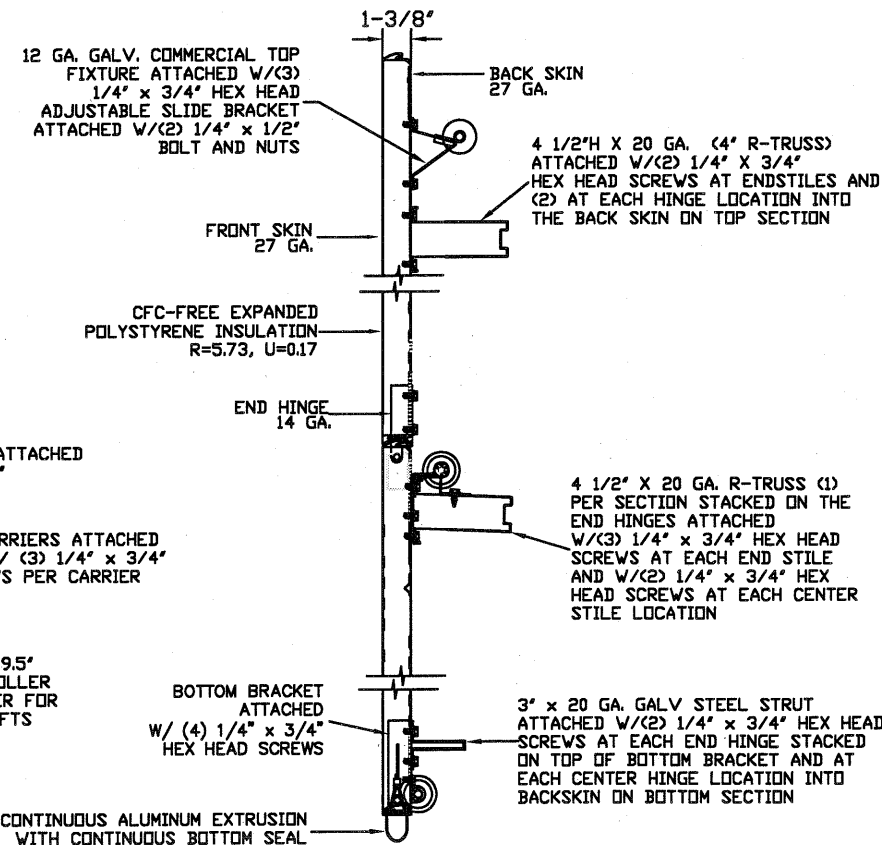
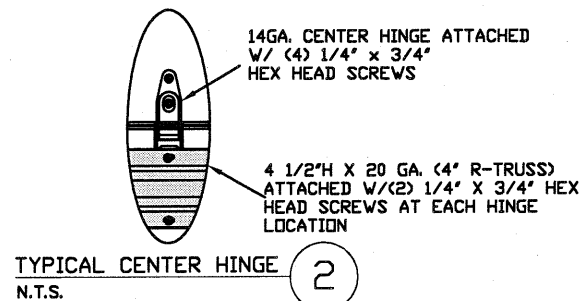
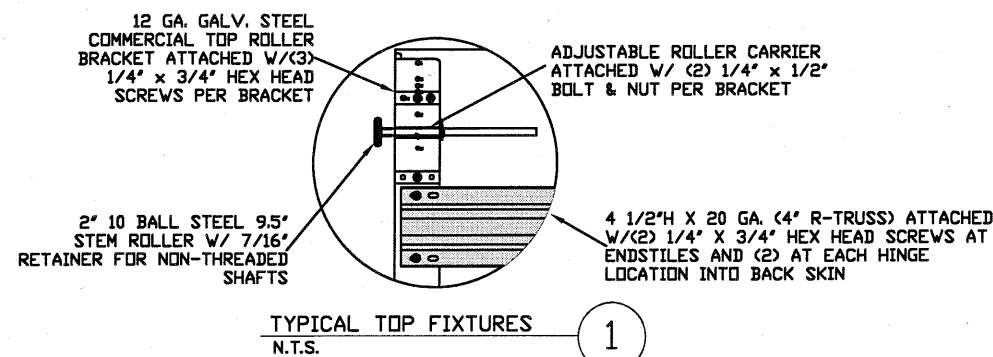
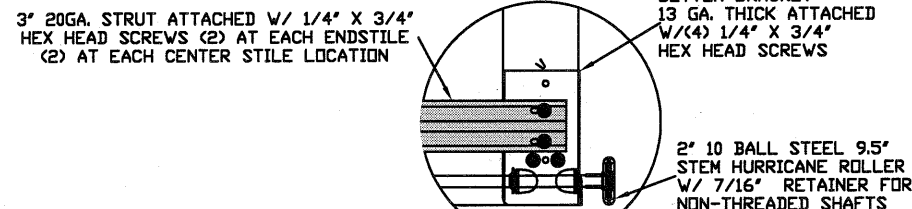




SECTION A-A (SIDE VIEW)
N.T.S.



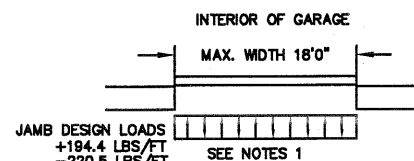
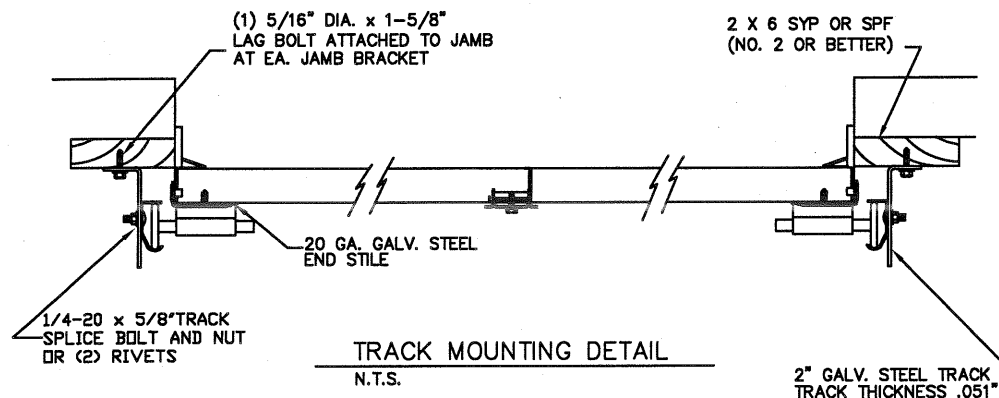
TYPICAL BOTTOM BRACKET
N.T.S.

SPECIFICATIONS AND NOTES

- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +194.4 LBS/FT & -220.5 LBS/FT
- DOOR SECTIONS SHALL BE 27 GA. MIN. (.0151") 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.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108. 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)	155	141	134	128	122
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



REV	DESCRIPTION OF REVISIONS	DATE	BY

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

DESIGN LOADS
+21.6 PSF
-24.5 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+32.4 PSF
-36.8 PSF

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

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

MODEL #1500 AMARR STRATFORD 3000
MODEL #1200 AMARR HERITAGE 3000
MODEL #1550 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

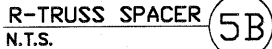
SIZE B	DRAWN BY RLR	DATE 11/24/13	DRAWING NUMBER IRC-1518-120-24
CHECKED BY	DATE	ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105	

SHEET 1 OF 3

GLAZING MEETS ASTM E1300-04



GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING IS AVAILABLE FOR ANY DOOR SIZE IF THE REQUIRED
DESIGN PRESSURES ARE LESS THAN OR EQUAL TO (+21.6/-24.5)



2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" 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 22" 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 16" 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 16" 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 24" O.C. (1 1/4"
EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

The diagram illustrates four different structural types and their corresponding jamb installation requirements:

- WOOD STRUCTURE:** Shows a 2x6 jamb with a minimum embedment of 1 1/2" and a minimum spacing of 2x6 TYP.
- CONCRETE STRUCTURE:** Shows a 2x6 jamb with a minimum embedment of 2-3 1/4" and a minimum spacing of 2x6 TYP.
- HOLLOW BLOCK STRUCTURE:** Shows a 2x6 jamb with a minimum embedment of 1-1 1/2" and a minimum spacing of 3" MIN.
- GROUTED BLOCK STRUCTURE:** Shows a 2x6 jamb with a minimum embedment of 4" and a minimum spacing of 3" MIN.

Amarra

MODEL #1500 AMARR STRATFORD 3000
MODEL #1200 AMARR HERITAGE 3000
MODEL #1550 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	11/24/13	DRAWING NUMBER IRC-1518-120-24
B	CHECKED BY		DATE		
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

TABLE 1

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"				

TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	S
6' 6"	10"	21"	42"	63"					70"
7'	10"	21"	42"	63"					76"
7' 6"	10"	21"	42"	63"					82"
8'	10"	21"	42"	63"					88"
8' 6"	10"	21"	42"	63"	84"				94"
9'	10"	21"	42"	63"	84"				100"
9' 6"	10"	21"	42"	63"	84"				106"
10'	10"	21"	42"	63"	84"	105"			112"
10' 6"	10"	21"	42"	63"	84"	105"			118"
11'	10"	21"	42"	63"	84"	105"			124"
11' 6"	10"	21"	42"	63"	84"	105"			130"
12'	10"	21"	42"	63"	84"	105"	126"		136"
12' 6"	10"	21"	42"	63"	84"	105"	126"		142"
13'	10"	21"	42"	63"	84"	105"	126"		148"
13' 6"	10"	21"	42"	63"	84"	105"	126"	147"	154"
14'	10"	21"	42"	63"	84"	105"	126"	147"	160"

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

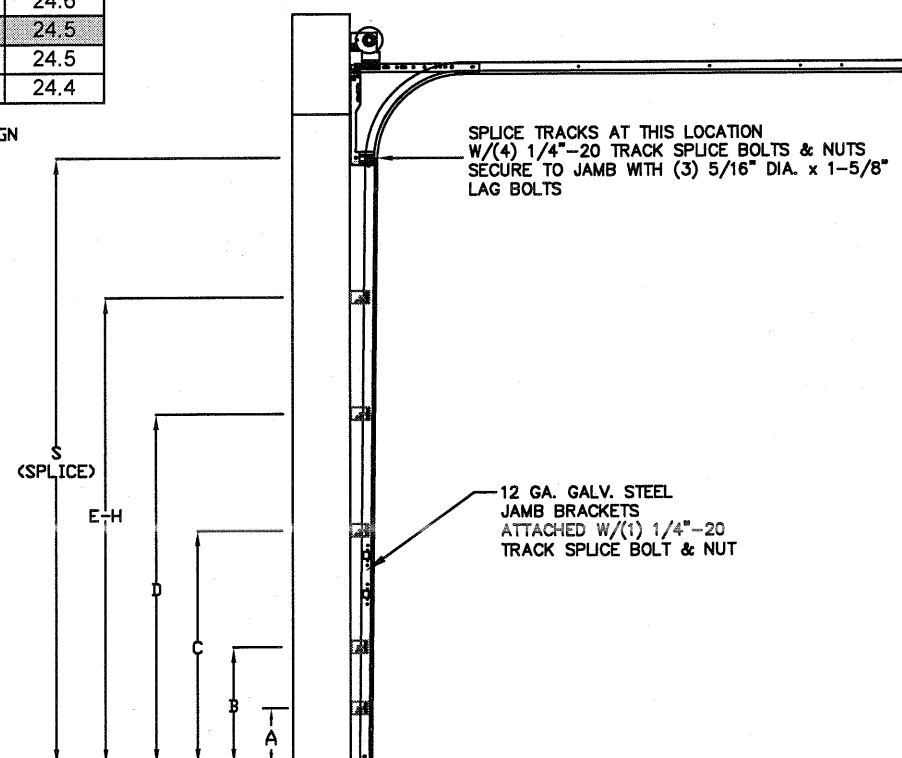
TABLE 3

Section	Panel Type	Max Design Loads Allowed	
		Positive (PSF)	Negative (PSF)
16' 2	Short	23.9	27.1
16' 2	Long	23.9	27.1
16' 2	Oak Summit	23.9	27.1
16' 4	Short	23.7	26.9
16' 4	Long	23.7	26.9
16' 4	Oak Summit	23.7	26.9
16' 6	Short	23.4	26.6
16' 6	Long	23.4	26.6
16' 6	Oak Summit	23.4	26.6
16' 8	Short	23.2	26.3
16' 8	Long	23.2	26.3
16' 8	Oak Summit	23.2	26.3
16' 10	Short	23.0	26.1
16' 10	Long	23.0	26.1
16' 10	Oak Summit	23.0	26.1
17' 0	Short	22.8	25.8
17' 0	Long	22.8	25.8
17' 0	Oak Summit	22.8	25.8
17' 2	Short	22.5	25.6
17' 2	Long	22.5	25.6
17' 2	Oak Summit	22.5	25.6
17' 4	Short	22.3	25.3
17' 4	Long	22.3	25.3
17' 4	Oak Summit	22.3	25.3
17' 6	Short	22.1	25.1
17' 6	Long	22.1	25.1
17' 6	Oak Summit	22.1	25.1
17' 8	Short	21.9	24.8
17' 8	Long	21.9	24.8
17' 8	Oak Summit	21.9	24.8
17' 10	Short	21.7	24.6
17' 10	Long	21.7	24.6
17' 10	Oak Summit	21.7	24.6
18' 0	Short	21.6	24.5
18' 0	Long	21.6	24.5
18' 0	Oak Summit	21.5	24.4

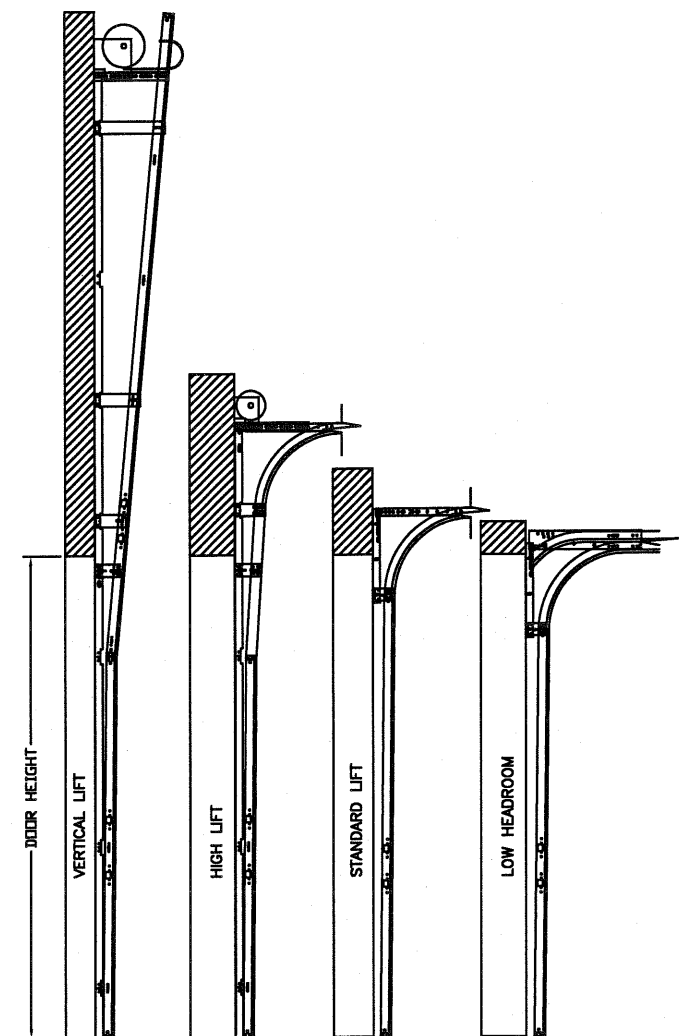
GLAZING IS AVAILABLE FOR ANY
DOOR SIZE IF THE REQUIRED DESIGN
PRESSURES ARE LESS THAN OR
EQUAL TO (+21.6/-24.5)

TABLE 4

Section	Panel Type	Center Stile Locations (Measured from Left Edge)		
		1st (in)	2nd (in)	3rd (in)
16' 2	Short	50.27	97.00	143.73
16' 2	Long	51.17	97.00	142.83
16' 2	Oak Summit	48.75	97.00	145.25
16' 4	Short	51.27	98.00	144.73
16' 4	Long	52.17	98.00	143.83
16' 4	Oak Summit	49.08	98.00	146.92
16' 6	Short	52.27	99.00	145.73
16' 6	Long	51.34	99.00	146.66
16' 6	Oak Summit	49.42	99.00	148.59
16' 8	Short	51.34	100.00	148.66
16' 8	Long	52.20	100.00	147.80
16' 8	Oak Summit	49.92	100.00	150.09
16' 10	Short	51.50	101.00	150.50
16' 10	Long	53.20	101.00	148.80
16' 10	Oak Summit	50.15	101.00	151.59
17' 0	Short	53.34	102.00	150.66
17' 0	Long	54.20	102.00	149.80
17' 0	Oak Summit	50.92	102.00	153.09
17' 2	Short	53.00	103.00	153.00
17' 2	Long	55.20	103.00	150.80
17' 2	Oak Summit	51.42	103.00	154.59
17' 4	Short	54.00	104.00	154.00
17' 4	Long	56.20	104.00	151.80
17' 4	Oak Summit	51.92	104.00	156.09
17' 6	Short	55.00	105.00	155.00
17' 6	Long	57.20	105.00	152.80
17' 6	Oak Summit	52.42	105.00	157.59
17' 8	Short	54.80	106.00	157.20
17' 8	Long	55.80	106.00	156.20
17' 8	Oak Summit	52.92	106.00	159.09
17' 10	Short	55.80	107.00	158.20
17' 10	Long	56.25	107.00	157.75
17' 10	Oak Summit	53.42	107.00	160.59
18' 0	Short	57.25	108.00	158.75
18' 0	Long	57.80	108.00	158.20
18' 0	Oak Summit	53.92	108.00	162.09

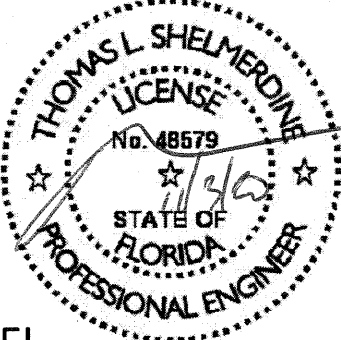


TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS (SEE TABLE 2)
N.T.S.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS) DESIGN LOADS +21.6 PSF -24.5 PSF TEST LOADS (1.5 x DESIGN LOADS) +32.4 PSF -36.8 PSF	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
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MODEL #1500 AMARR STRATFORD 3000 MODEL #1200 AMARR HERITAGE 3000 MODEL #1550 AMARR OAK SUMMIT 3000 SHORT, LONG, FLUSH & OAK SUMMIT PANELS			
SIZE	DRAWN BY	RLR	DATE 11/24/13
B	CHECKED BY		DATE
			DRAWING NUMBER IRC-1518-120-24
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			SHEET 3 OF 3