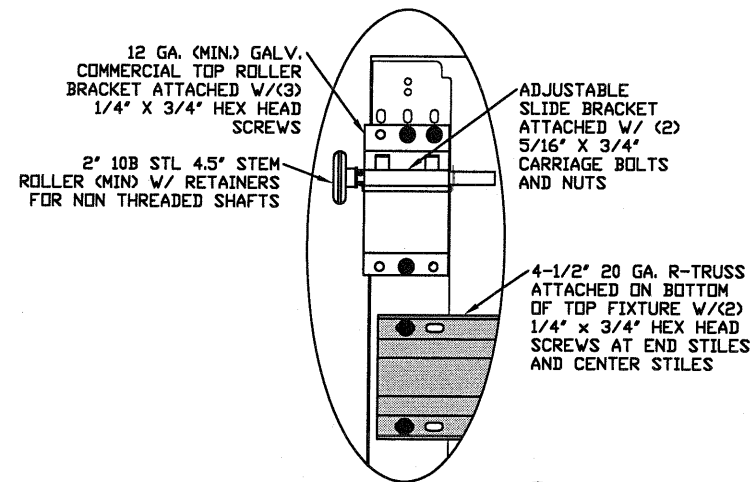
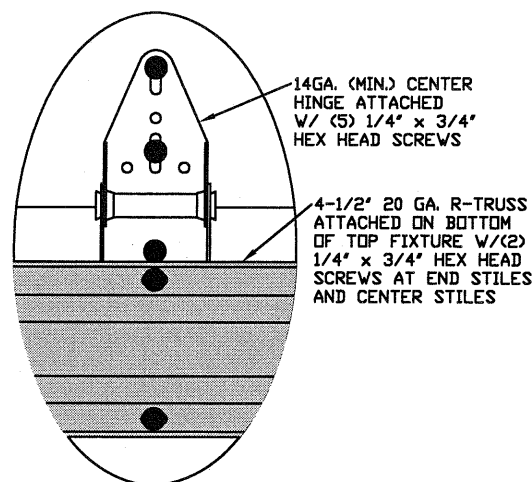
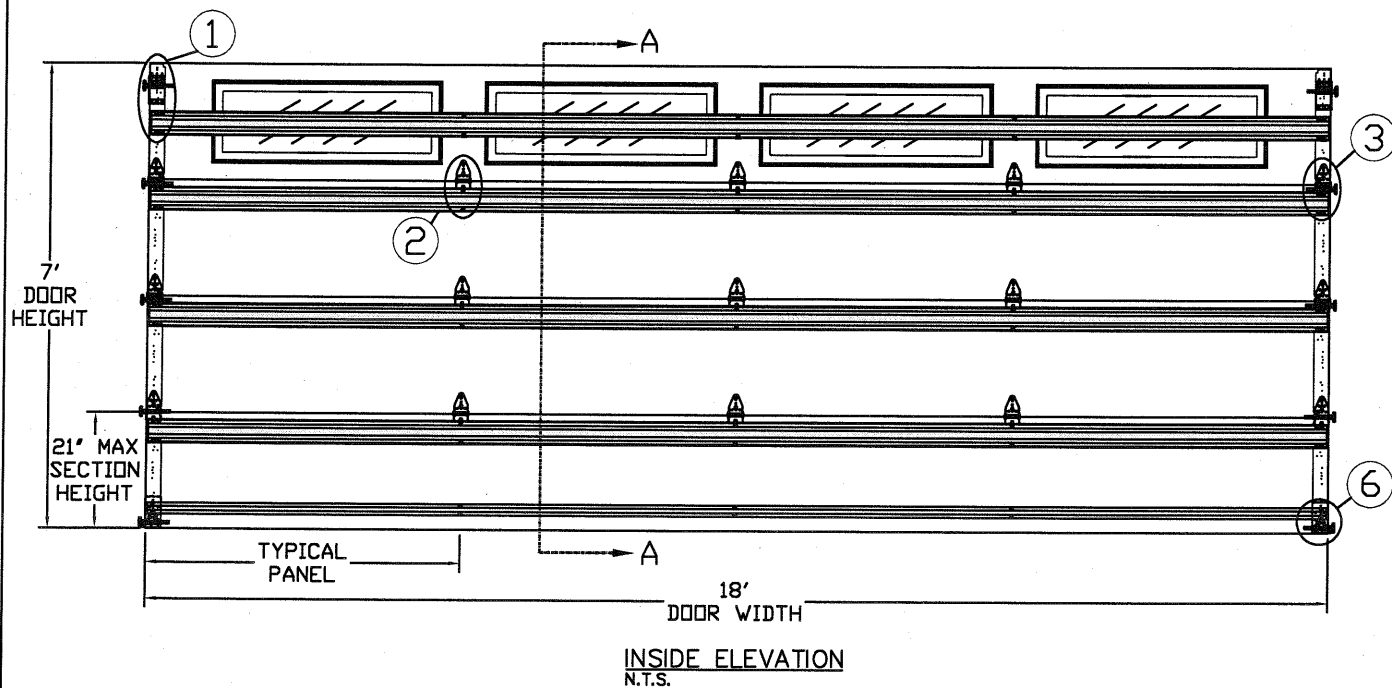




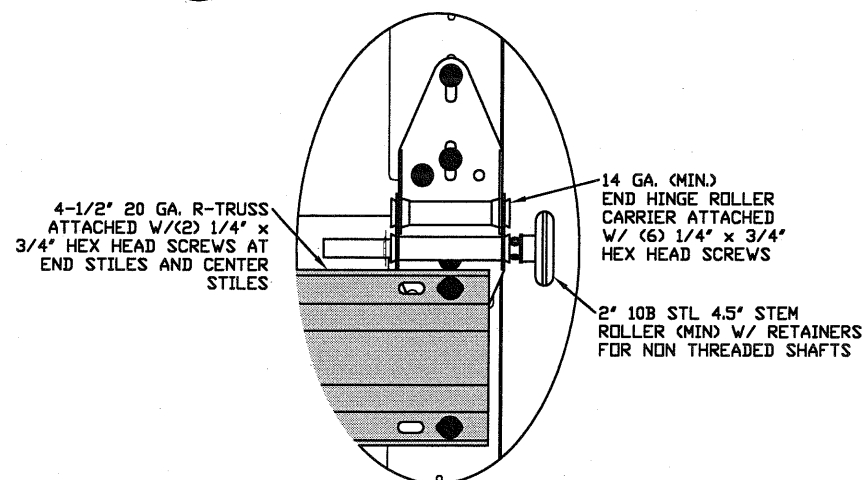
TYPICAL TOP FIXTURES
N.T.S. 1



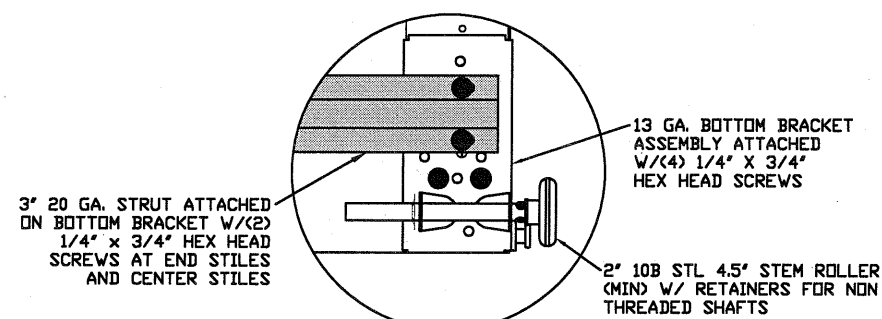
TYPICAL CENTER HINGE
N.T.S. 2



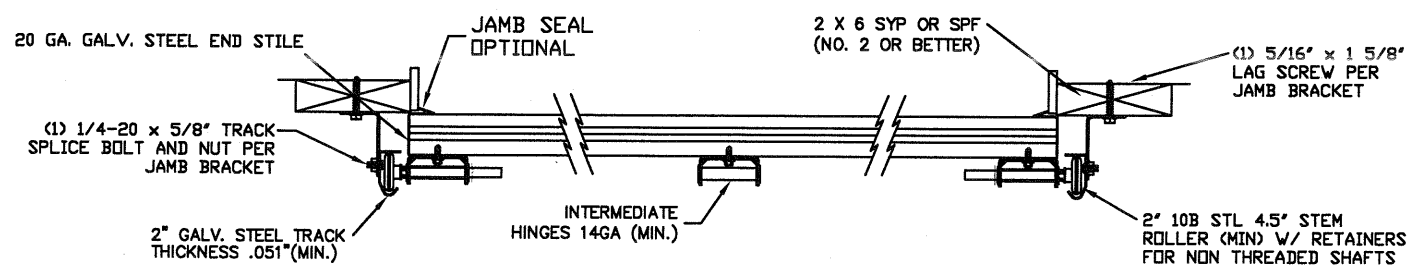
INSIDE ELEVATION
N.T.S.



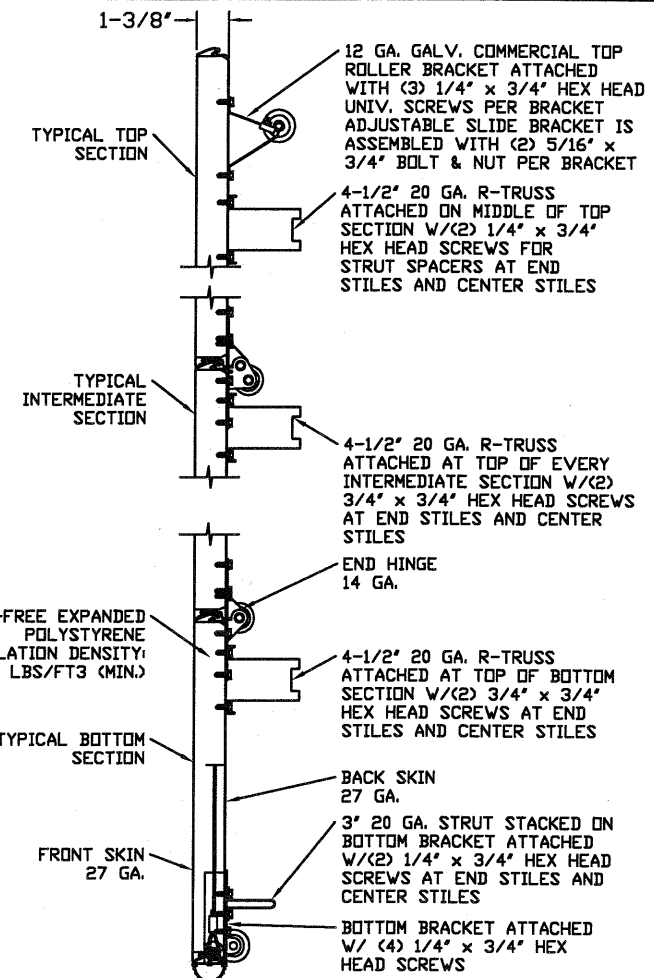
TYPICAL END HINGE
N.T.S. 3



BB-100 BOTTOM BRACKET
N.T.S. 6



TRACK MOUNTING DETAIL
N.T.S.



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

NOTE: FOR STRUT SCHEDULE SEE TABLE 4 ON PAGE 3

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 AND ASTM E330. 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' x 14'

DESIGN LOADS +21.6 PSF -24.5 PSF

TEST LOADS +32.4 PSF -36.8 PSF

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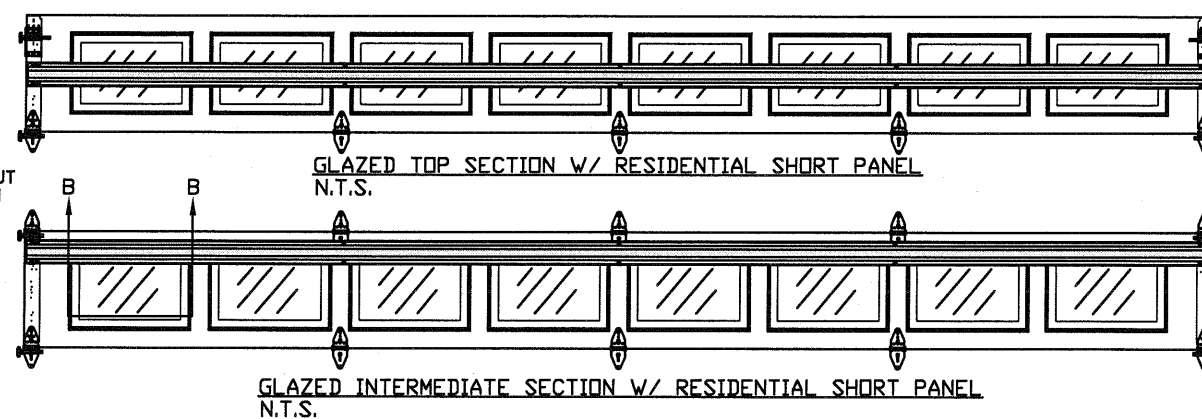
dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

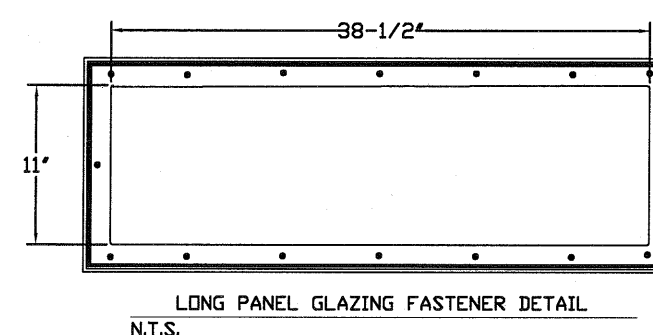
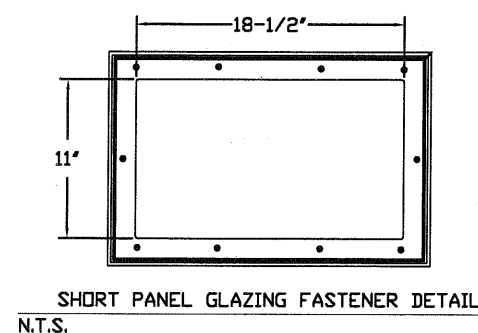
MODEL #3100 AMARR LINCOLN 3138
 MODEL #3150 AMARR HILLCREST 3138
 MODEL #1600 AMARR LINCOLN 3000
 MODEL #1650 AMARR HILLCREST 3000

SIZE	DRAWN BY	DRD	DATE	2/8/19	DRAWING NUMBER IRC-3118-120-24
B	CHECKED BY	DLJ	DATE	3/11/19	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

STRUT SPACERS MAY BE USED ON GLAZED SECTIONS



GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



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:
+194.4 LBS/FT & -220.5 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 27GA 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.
6. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.

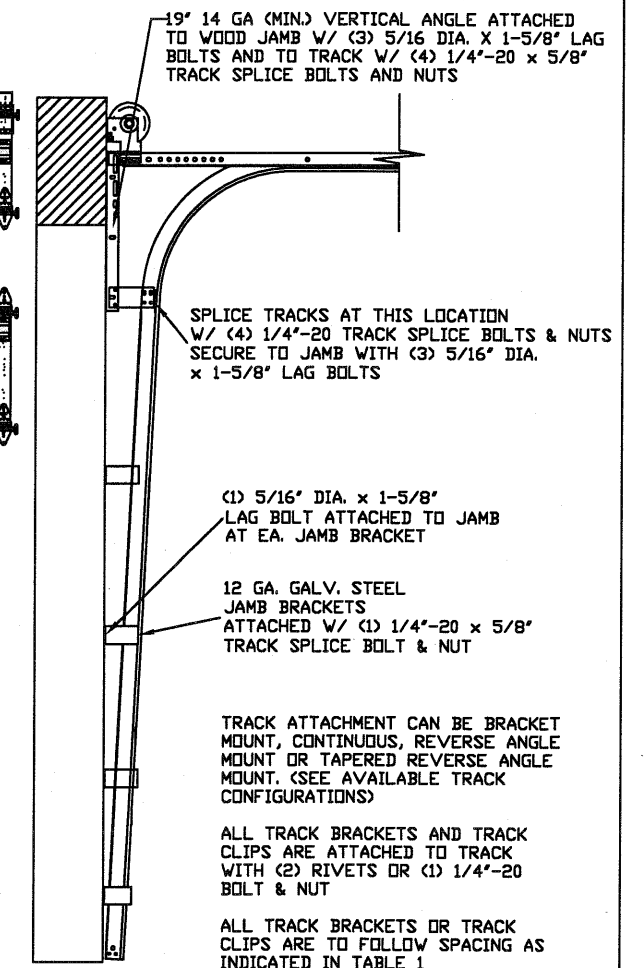
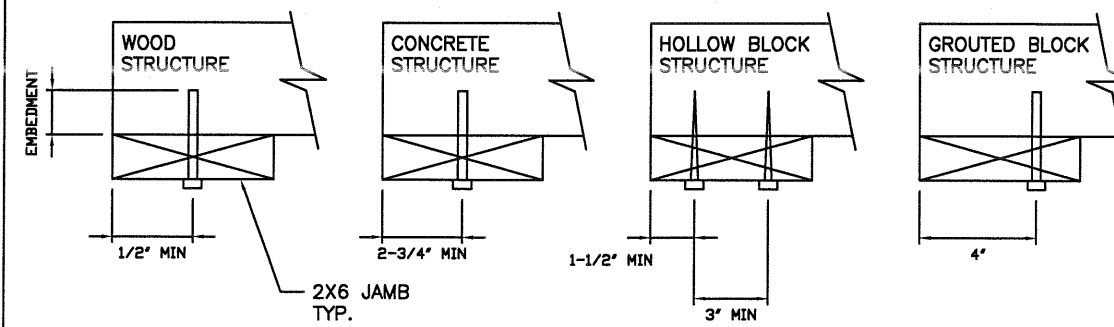
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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)

*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
N.T.S.

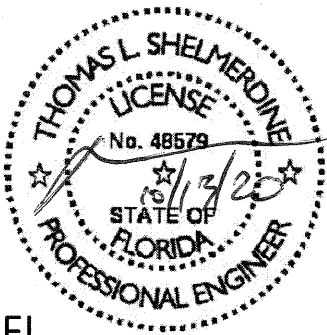
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 18' x 14' DESIGN LOADS +21.6 PSF -24.5 PSF TEST LOADS +32.4 PSF -36.8 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL #3100 AMARR LINCOLN 3138 MODEL #3150 AMARR HILLCREST 3138 MODEL #1600 AMARR LINCOLN 3000 MODEL #1650 AMARR HILLCREST 3000			
SIZE	DRAWN BY	DRD	DATE 2/8/19
B	CHECKED BY	DLJ	DATE 3/11/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			DRAWING NUMBER IRC-3118-120-24
SHEET 2 OF 3			

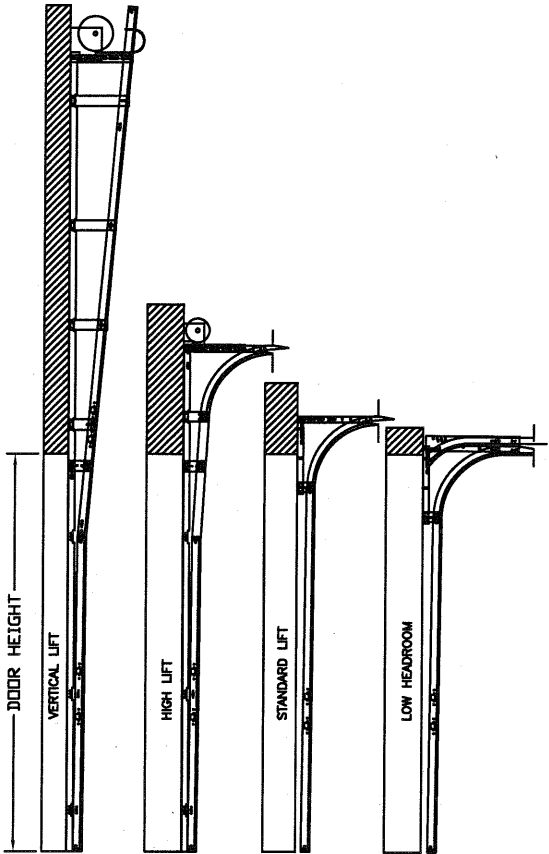
TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT								SPLICE S
	A	B	C	D	E	F	G	H	
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 +/- 2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 3

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)			Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
16' 2	Short	50.27	97.00	143.73	23.9	27.1
16' 2	Long	51.17	97.00	142.83	23.9	27.1
16' 2	Hillcrest	48.75	97.00	145.25	23.9	27.1
16' 4	Short	51.27	98.00	144.73	23.7	26.9
16' 4	Long	52.17	98.00	143.83	23.7	26.9
16' 4	Hillcrest	49.08	98.00	146.92	23.7	26.9
16' 6	Short	52.27	99.00	145.73	23.4	26.6
16' 6	Long	51.34	99.00	146.66	23.4	26.6
16' 6	Hillcrest	49.42	99.00	148.59	23.4	26.6
16' 8	Short	51.34	100.00	148.66	23.2	26.3
16' 8	Long	52.20	100.00	147.80	23.2	26.3
16' 8	Hillcrest	49.92	100.00	150.09	23.2	26.3
16' 10	Short	51.50	101.00	150.50	23.0	26.1
16' 10	Long	53.20	101.00	148.80	23.0	26.1
16' 10	Hillcrest	50.15	101.00	151.59	23.0	26.1
17' 0	Short	53.34	102.00	150.66	22.8	25.8
17' 0	Long	54.20	102.00	149.80	22.8	25.8
17' 0	Hillcrest	50.92	102.00	153.09	22.8	25.8
17' 2	Short	53.00	103.00	153.00	22.5	25.6
17' 2	Long	55.20	103.00	150.80	22.5	25.6
17' 2	Hillcrest	51.42	103.00	154.59	22.5	25.6
17' 4	Short	54.00	104.00	154.00	22.3	25.3
17' 4	Long	56.20	104.00	151.80	22.3	25.3
17' 4	Hillcrest	51.92	104.00	156.09	22.3	25.3
17' 6	Short	55.00	105.00	155.00	22.1	25.1
17' 6	Long	57.20	105.00	152.80	22.1	25.1
17' 6	Hillcrest	52.42	105.00	157.59	22.1	25.1
17' 8	Short	54.80	106.00	157.20	21.9	24.8
17' 8	Long	55.80	106.00	156.20	21.9	24.8
17' 8	Hillcrest	52.92	106.00	159.09	21.9	24.8
17' 10	Short	55.80	107.00	158.20	21.7	24.6
17' 10	Long	56.25	107.00	157.75	21.7	24.6
17' 10	Hillcrest	53.42	107.00	160.59	21.7	24.6
18' 0	Short	57.25	108.00	158.75	21.6	24.5
18' 0	Long	57.80	108.00	158.20	21.6	24.5
18' 0	Hillcrest	53.92	108.00	162.09	21.6	24.5



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

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 4

SECTION	STRUT SIZE
TOP	4.5"
7TH	4.5"
6TH	4.5"
5TH	4.5"
4TH	4.5"
3RD	4.5"
2ND	4.5"
BOTTOM	4.5"
	3"

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+21.6 PSF
-24.5 PSF

TEST LOADS
+32.4 PSF
-36.8 PSF

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Structural Solutions, PA (FL Firm #29412)

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Amarr

MODEL #3100 AMARR LINCOLN 3138
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SIZE B	DRAWN BY DLJ	DRD	DATE 2/8/19	DRAWING NUMBER IRC-3118-120-24
	CHECKED BY	DLJ	DATE 3/11/19	

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

SHEET 3 OF 3