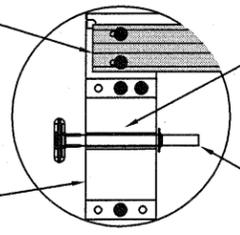


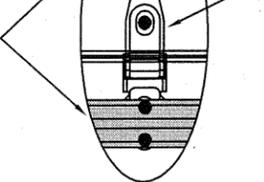
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE



TYPICAL TOP FIXTURES  
N.T.S. 1

ADJUSTABLE ROLLER CARRIER ATTACHED W/ (2) 1/4" x 1/2" BOLT & NUT PER BRACKET

2" NYLON OR 10-BALL STEEL 5\*(MIN) STEM ROLLER W/ 7/16" RETAINER FOR NON-THREADED SHAFTS

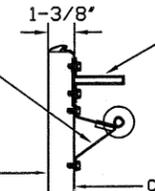


TYPICAL CENTER HINGE  
N.T.S. 2

14GA. CENTER HINGE ATTACHED W/ (4) 1/4" x 3/4" HEX HEAD SCREWS

12 GA. COMMERCIAL TOP FIXTURE ATTACHED W/(3) 1/4" x 3/4" HEX HEAD

ADJUSTABLE SLIDE BRACKET ATTACHED W/(2) 1/4" x 1/2" BOLT AND NUTS



FRONT SKIN 27 GA. CFC-FREE EXPANDED POLYSTYRENE INSULATION R=5.73, U=0.17

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

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

END HINGE 14 GA.

(1) 3" 20GA STRUT STACKED ON HINGES, ATTACHED W/(3) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE & W/(2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH CENTER STILE

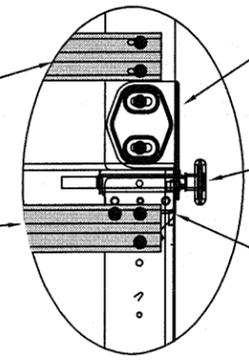
BACK SKIN 27 GA.

13 GA. BOTTOM BRACKET ATTACHED W/ (5) 1/4" x 3/4" HEX HEAD SCREWS

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

CONTINUOUS ALUMINUM EXTRUSION WITH CONTINUOUS BOTTOM SEAL

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



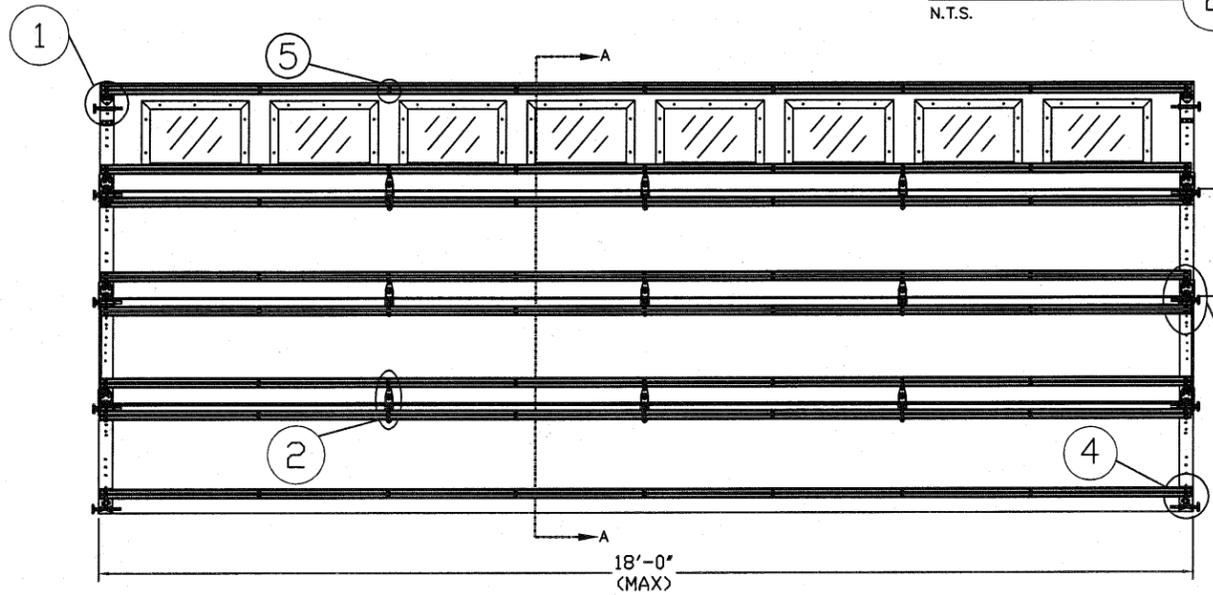
TYPICAL END HINGE  
N.T.S. 3

14 GA. END HINGE ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS

2" NYLON OR 10-BALL STEEL 5\*(MIN) STEM ROLLER W/ 7/16" RETAINER FOR NON-THREADED SHAFTS

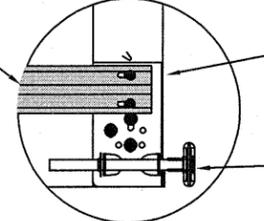
14GA. ROLLER CARRIERS ATTACHED TO END STILE W/ (3) 1/4" x 3/4" HEX HEAD SCREWS PER CARRIER

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



INSIDE ELEVATION  
N.T.S.

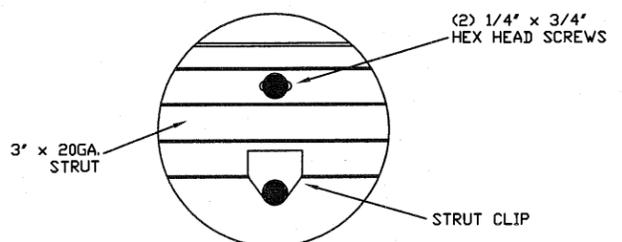
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH CENTER STILE



TYPICAL BOTTOM BRACKET  
N.T.S. 4

13 GA. BOTTOM BRACKET ATTACHED W/(5) 1/4" x 3/4" HEX HEAD SCREWS

2" NYLON OR 10-BALL STEEL 5\*(MIN) STEM ROLLER W/ 7/16" RETAINER FOR NON-THREADED SHAFTS



TYPICAL TOP STRUT ATTACHMENT  
N.T.S. 5

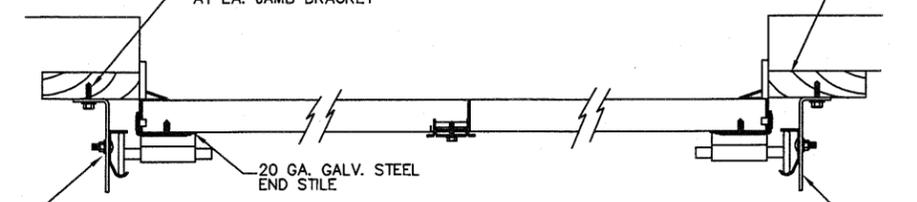
(2) 1/4" x 3/4" HEX HEAD SCREWS

STRUT CLIP

3" x 20GA. STRUT

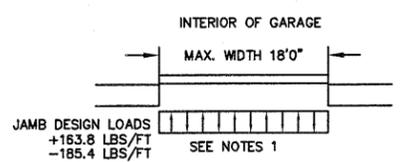
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET

2 X 6 SYP OR SPF (NO. 2 OR BETTER)



TRACK MOUNTING DETAIL  
N.T.S.

2" GALV. STEEL TRACK TRACK THICKNESS .051"



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 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	110	100	95	91	87
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

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: +163.8 LBS/FT & -185.4 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.

REV	DESCRIPTION OF REVISIONS	DATE	BY
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MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)  
DESIGN LOADS +18.2 PSF -20.6 PSF  
TEST LOADS (1.5 x DESIGN LOADS) +27.3 PSF -30.9 PSF

Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)

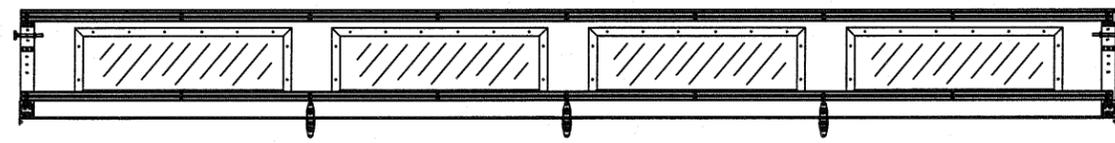
TX

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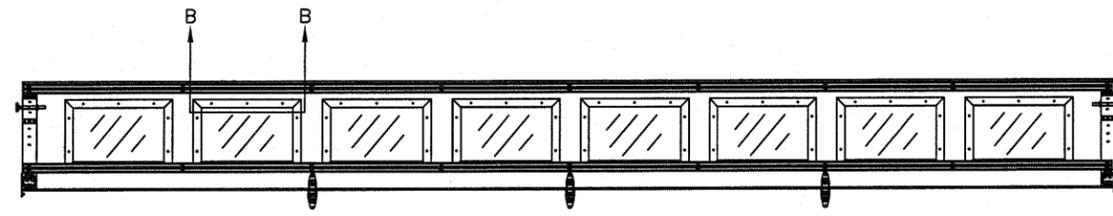
**Amarr**  
ENTREMATIC  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105  
MODEL #1500 STRATFORD 3000  
MODEL #1200 HERITAGE 3000  
MODEL #1550 OAK SUMMIT 3000  
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	06/05/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1518-110-15
					SHEET 1 OF 3

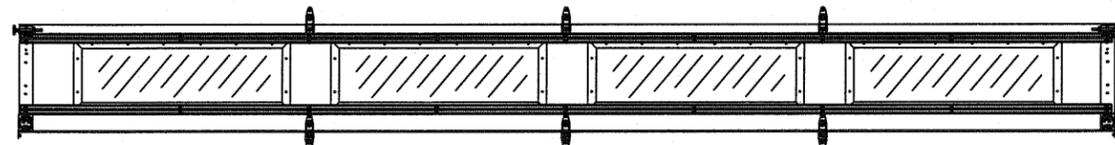
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS  
GLAZING MEETS ASTM E1300-04



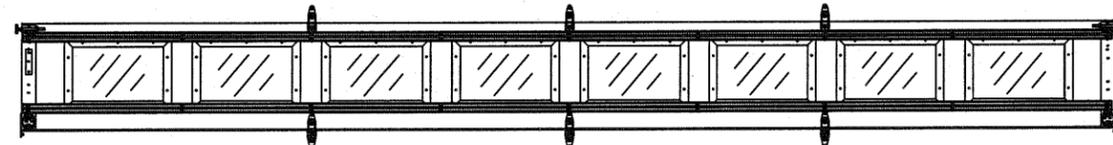
TOP SECTION



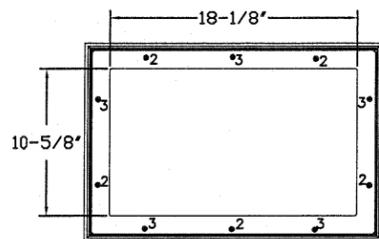
TOP SECTION



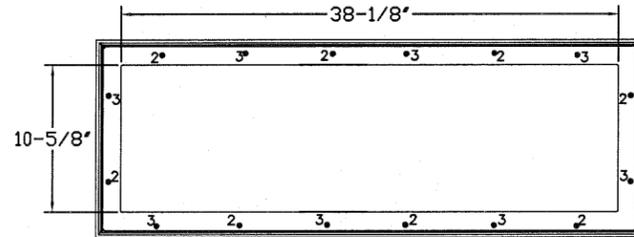
INTERMEDIATE SECTION



INTERMEDIATE SECTION



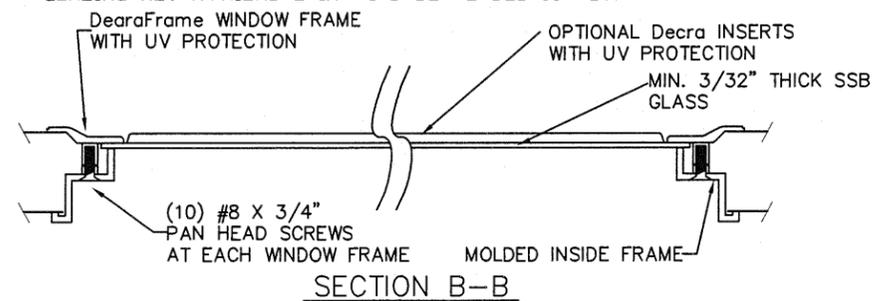
SHORT PANEL GLAZING FASTENER DETAIL  
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL  
N.T.S.

GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION



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 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 24" 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

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 18' WIDTH 14' HEIGHT (DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)		
	DESIGN LOADS +18.2 PSF -20.6 PSF		
	TEST LOADS (1.5 x DESIGN LOADS) +27.3 PSF -30.9 PSF		

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)

TX

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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105  
MODEL #1500 STRATFORD 3000  
MODEL #1200 HERITAGE 3000  
MODEL #1550 OAK SUMMIT 3000  
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	06/05/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1518-110-15
					SHEET 2 OF 3

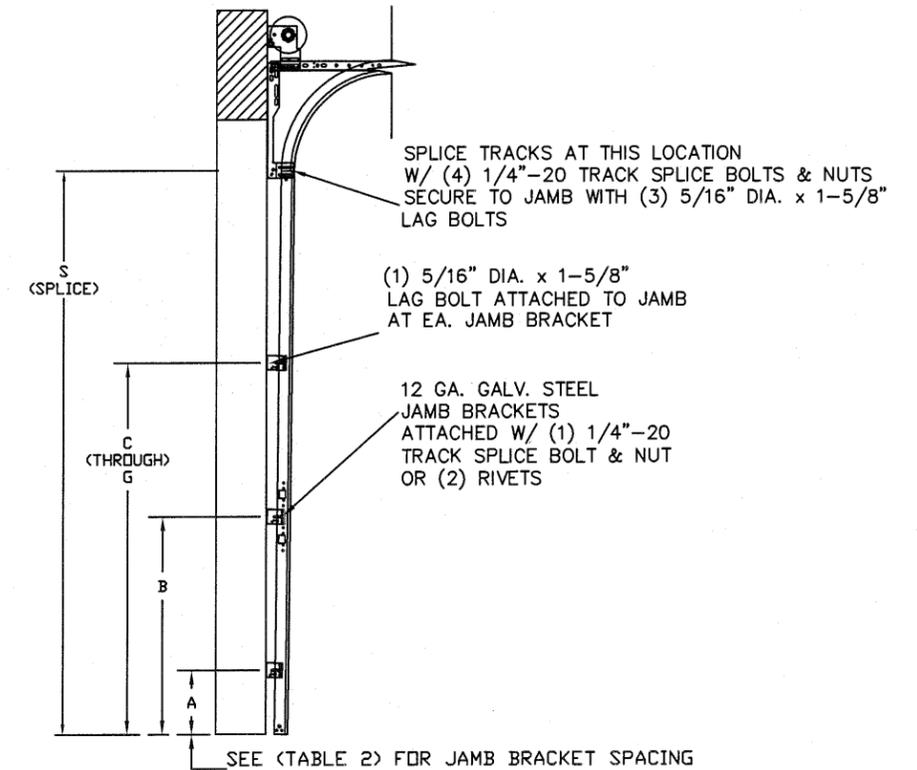
TABLE 1

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	
6' 6"	10"	38"	58"					70"
7'	10"	38"	58"					76"
7' 6"	4"	28"	52"	76"				82"
8'	10"	34"	58"	82"				88"
8' 6"	4"	28"	52"	76"				94"
9'	10"	34"	58"	82"				100"
9' 6"	4"	28"	52"	76"	100"			106"
10'	10"	34"	58"	82"	106"			112"
10' 6"	4"	28"	52"	76"	100"			118"
11'	10"	34"	58"	82"	106"			124"
11' 6"	4"	28"	52"	76"	100"	124"		130"
12'	10"	34"	58"	82"	106"	130"		136"
12' 6"	4"	28"	52"	76"	100"	124"		142"
13'	10"	34"	58"	82"	106"	130"		148"
13' 6"	4"	28"	52"	76"	100"	124"	148"	154"
14'	10"	34"	58"	82"	106"	130"	154"	160"

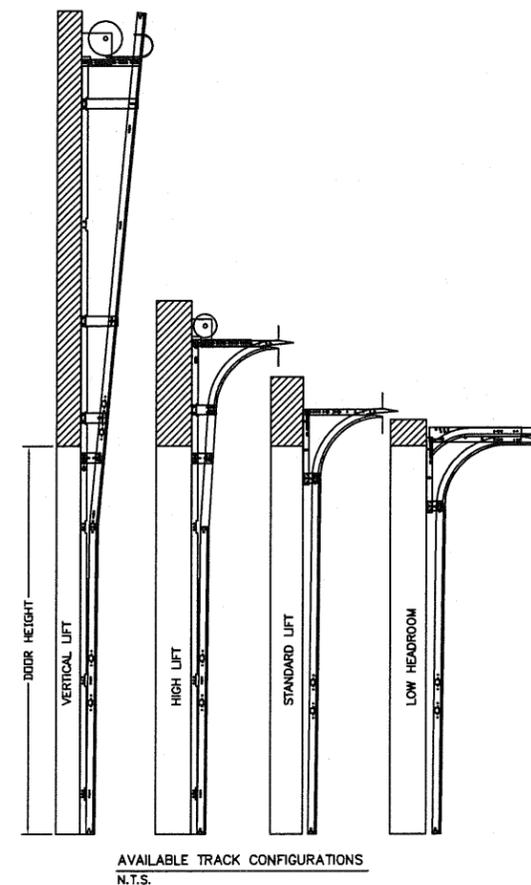
ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS N.T.S.

TABLE 3

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)			Max Pressure	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
16'2	Short	50.272	97.000	143.728	20.1	22.7
16'2	Long	51.168	97.000	142.834	20.1	22.7
16'4	Short	51.272	98.000	144.728	19.9	22.5
16'4	Long	52.168	98.000	143.834	19.9	22.5
16'6	Short	52.272	99.000	145.728	19.7	22.3
16'6	Long	51.340	99.000	146.660	19.7	22.3
16'8	Short	51.340	100.000	148.660	19.5	22.1
16'8	Long	52.200	100.000	147.800	19.5	22.1
16'10	Short	51.500	101.000	150.500	19.3	21.9
16'10	Long	53.200	101.000	148.800	19.3	21.9
17'0	Short	53.340	102.000	150.660	19.1	21.7
17'0	Long	54.200	102.000	149.800	19.1	21.7
17'2	Short	53.000	103.000	153.000	18.9	21.4
17'2	Long	55.200	103.000	150.800	18.9	21.4
17'4	Short	54.000	104.000	154.000	18.8	21.2
17'4	Long	56.200	104.000	151.800	18.8	21.2
17'6	Short	55.000	105.000	155.000	18.6	21.0
17'6	Long	57.200	105.000	152.800	18.6	21.0
17'8	Short	54.800	106.000	157.200	18.4	20.8
17'8	Long	55.800	106.000	156.200	18.4	20.8
17'10	Short	55.800	107.000	158.200	18.2	20.6
17'10	Long	56.250	107.000	157.750	18.2	20.6
18'0	Short	57.250	108.000	158.750	18.2	20.6
18'0	Long	57.800	108.000	158.200	18.2	20.6



REV	DESCRIPTION OF REVISIONS	DATE	BY

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

DESIGN LOADS +18.2 PSF -20.6 PSF

TEST LOADS (1.5 x DESIGN LOADS) +27.3 PSF -30.9 PSF

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STATE OF TEXAS  
THOMAS L. SHELMERDINE  
85829  
LICENSED PROFESSIONAL ENGINEER  
TX

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SIZE	DRAWN BY	R/R	DATE	DRAWING NUMBER
B			06/05/14	IRC-1518-110-15
	CHECKED BY		DATE	

SHEET 3 OF 3