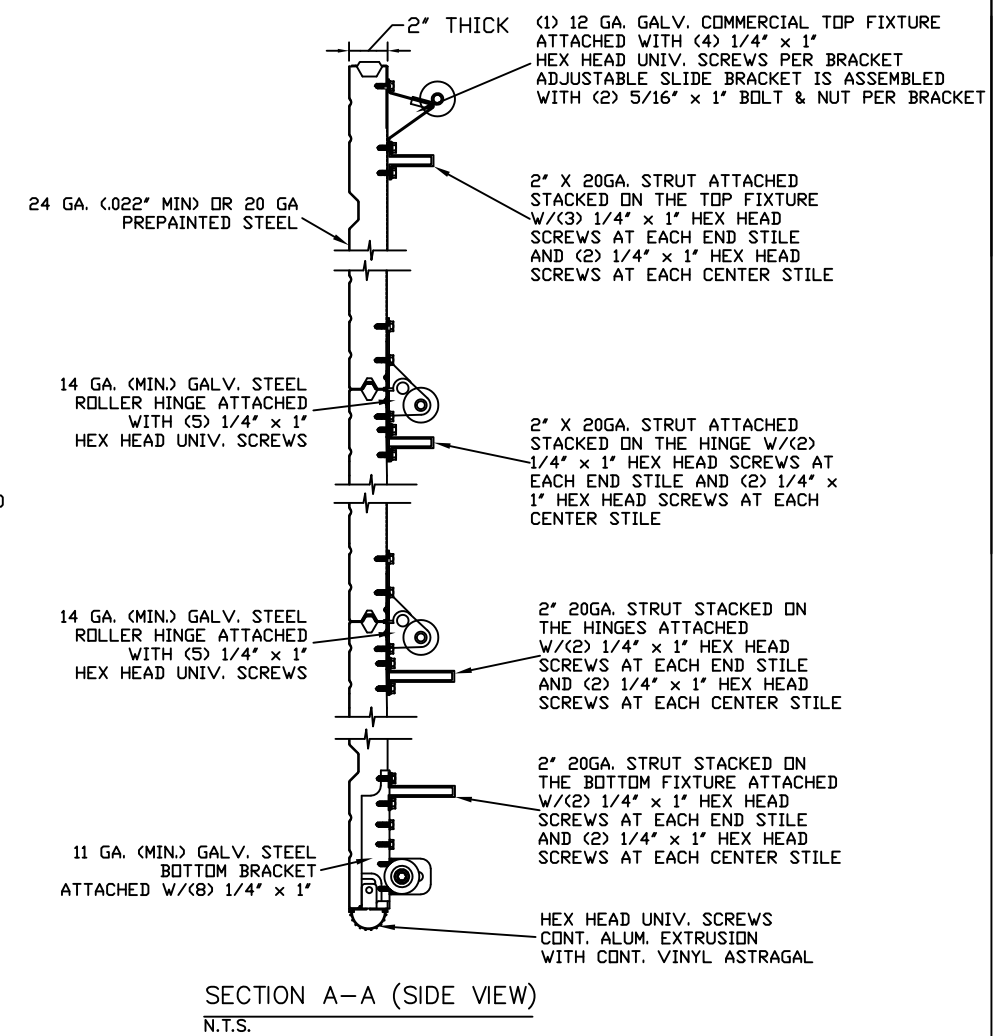
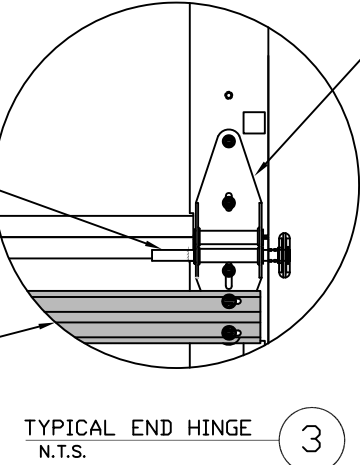
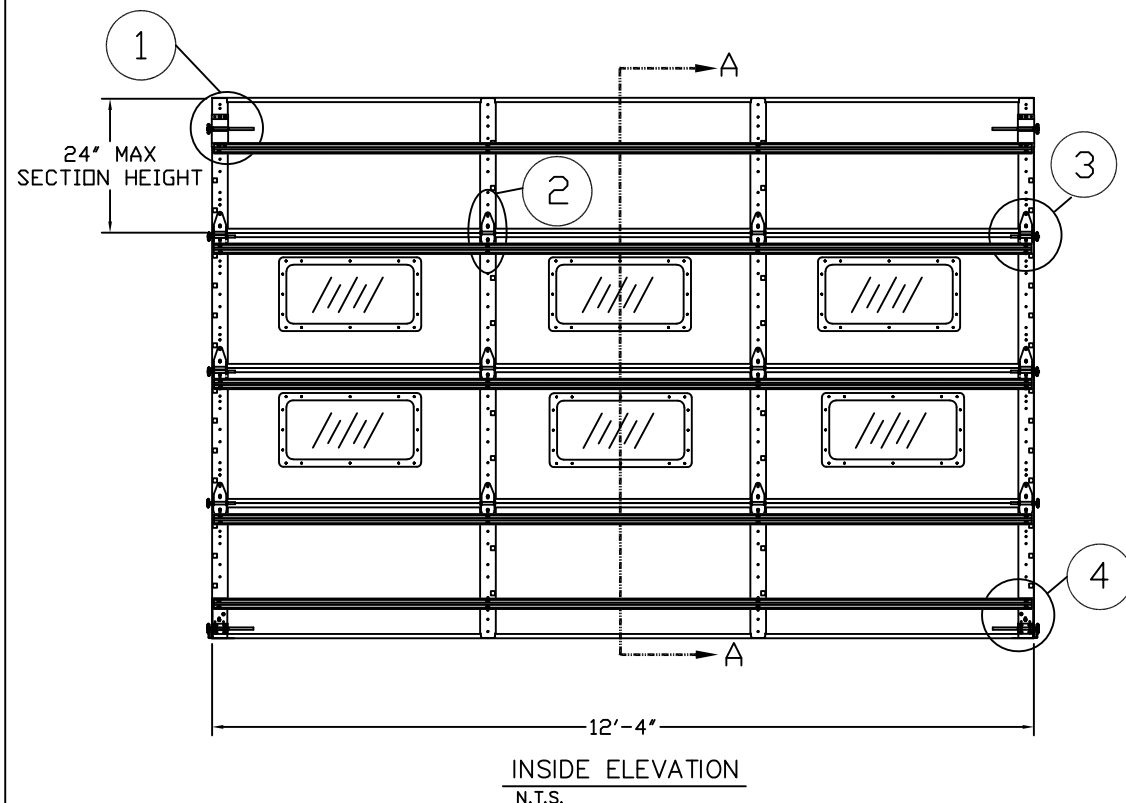
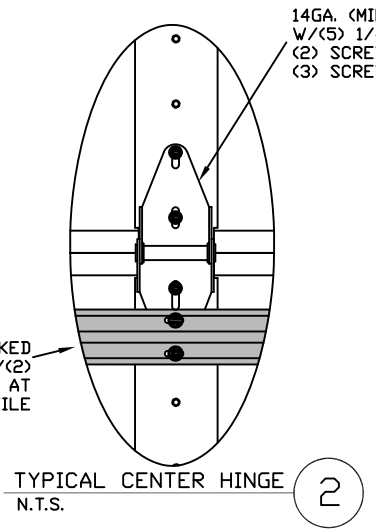
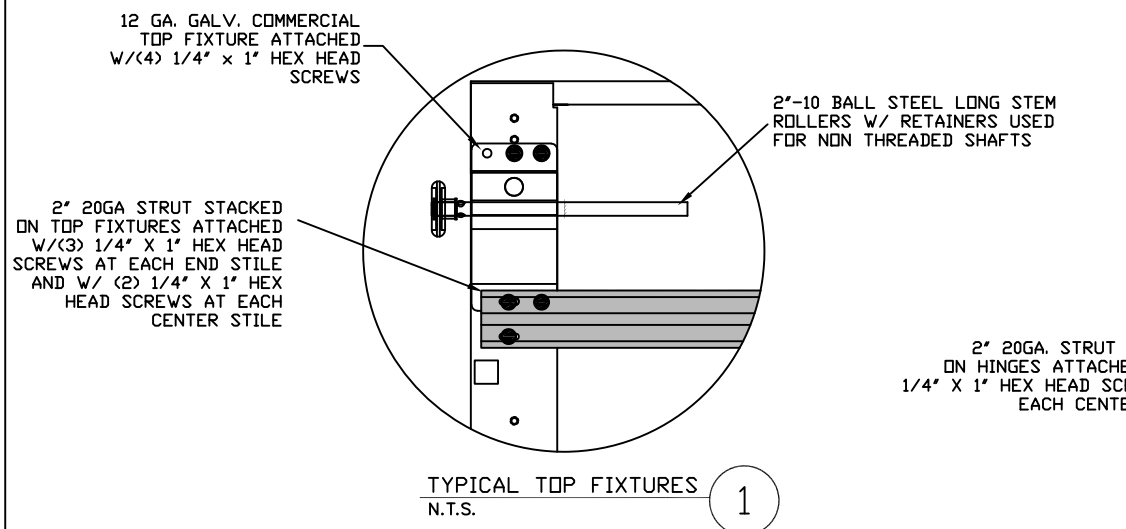
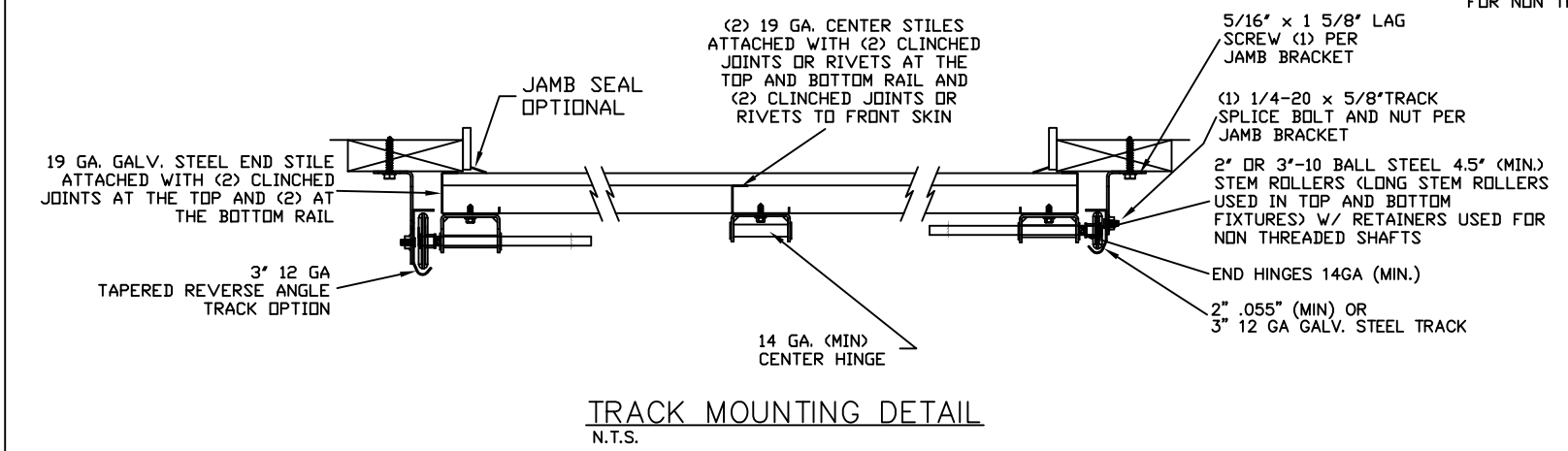
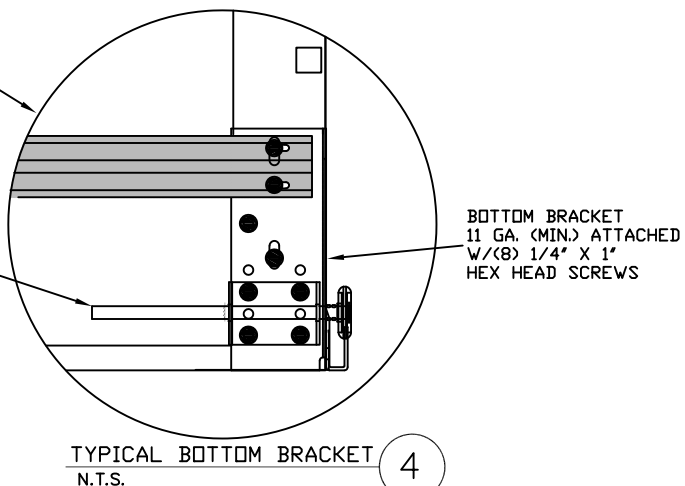




2\" 20 GA STRUT AT THE BOTTOM OF BOTTOM SECTION ATTACHED W/(2) 1/4\" X 1\" HEX HEAD SCREWS AT EACH END STILE AND W/(2) 1/4\" X 1\" HEX HEAD SCREWS AT EACH CENTER STILE



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

WIND SPEED (MPH)	135	122	116	111	107
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
12'4 x 24'

DESIGN LOADS
+15.3 PSF
-17.6 PSF

TEST LOADS
+22.9 PSF
-26.4 PSF

THOMAS L. SHELDERDINE
LICENSE
No. 48579
See Digital Signature
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

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

FL

Amarr

AMARR 2402, 2412, 2422
AMARR 2002, 2012, 2022

SIZE B	DRAWN BY DRC	DATE 05/23/23	DRAWING NUMBER IBC-2412-104-11-M
CHECKED BY RLR	DATE 08/15/23		

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

SHEET 1 OF 4

EDGE OF DOOR 1" OVERLAP ON EACH SIDE

1/8" NOM X 1" LONG
FILLET WELD (E60xx
ELECTRODES MIN.)

1/4" LONG TACK
WELD SAME SPACING
AS FILLET WELD

The diagram shows a cross-section of a fillet weld joint between two plates. The weld is labeled with dimensions and electrode specifications. A line points from the text '1/8" NOM X 1" LONG FILLET WELD (E60xx ELECTRODES MIN.)' to the weld metal. Another line points from the text '1/4" LONG TACK WELD SAME SPACING AS FILLET WELD' to a tack weld on the same joint. Below the joint, a mechanical fixture is shown, which appears to be a welding jig or a clamping device used to hold the plates in place during welding.

2000 PSI MIN. CONCRETE

2-5/8" THICK WALL MIN. (1.5 x EMBEDMENT)

SIMPSON STRONG-TIE
3/8" Ø WEDGE-ALL
EXPANSION ANCHOR WITH
7/8" Ø WASHER, 1-3/4" MIN. EMBEDMENT

3" MIN. EDGE DISTANCE

2000 PSI MIN. CONCRETE

3/8"Ø SLEEVE-ALL
EXPANSION ANCHOR WITH
7/8"Ø WASHER. 1-3/4" MIN.
EMBEDMENT

2-5/8" THICK
WALL MIN.
(1.5 x EMBEDMENT)

3" MIN. EDGE
DISTANCE

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: +94.4 LBS/FT & -108.5 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24"o" HIGH USE (1) 2" 20GA STRUTS PER INTERMEDIATE & TOP SECTIONS, (2) 2" 20GA STRUTS ON THE BOTTOM SECTION
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

The technical drawings illustrate the required dimensions for wood and hollow block structures. The top drawing, labeled 'WOOD STRUCTURE', shows a cross-section of a wall with a '2X6 JAMB TYP.' (typical) embedded. The 'EMBEDMENT' is indicated by three vertical arrows on the left. The horizontal distance from the center of the jamb to the edge of the structure is specified as '1/2" MIN'. The bottom drawing, labeled 'HOLLOW BLOCK STRUCTURE', shows a cross-section of a wall with two anchor bolts. The horizontal distance from the center of the bolts to the edge of the structure is specified as '1-1/2" MIN'. The distance between the two anchor bolts is specified as '2" MIN'.

The diagram illustrates the required embedment length for a post into two different structural materials:

- CONCRETE STRUCTURE:** The required embedment length is indicated as $2-3/4"$ MIN.
- GRAUTED BLOCK STRUCTURE:** The required embedment length is indicated as $4"$.

BRACKET MOUNT

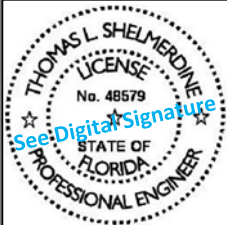
Diagram illustrating a Continuous Angle Mount. The diagram shows a cross-section of a bracket assembly. A vertical dimension line indicates a distance of 1" from the top of the bracket to the center of the spring. The bracket is shown in a retracted position, held by a spring. The assembly is mounted on a base.

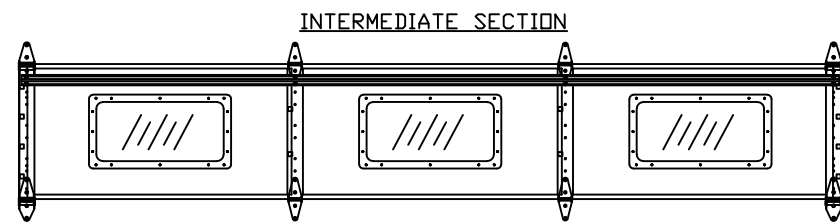
INTERIOR OF GARAGE

MAX. WIDTH 12'2"

ADS
/FT
/FT

SEE NOTE 2

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'4" x 24' DESIGN LOADS +15.3 PSF -17.6 PSF TEST LOADS +22.9 PSF -26.4 PSF	 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 This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. FL		
			
AMARR 2402, 2412, 2422 AMARR 2002, 2012, 2022			
SIZE	DRAWN BY	DRC	DATE 05/23/23
B			
	CHECKED BY	RLR	DATE 08/15/23
AMARR COMPANY			165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105
SHEET 2 OF 4			



INTERMEDIATE SECTION



The diagram shows a horizontal section of a beam. It features three rectangular reinforcement bars, each with diagonal hatching, positioned at regular intervals along the length of the beam. These bars are connected by vertical stirrups, which are represented by small circles with dots. The beam is bounded by two horizontal lines representing the top and bottom surfaces.

#8 3/4" ZINC SCREW

.080 PLEXI-GLASS

HOT MELT ADHESIVE

EXTRUDED POLYPROPYLENE

DOOR SKIN

21-5/8" MAX. DLO

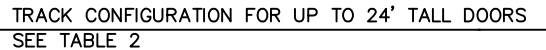
9-5/8" MAX. DLO

This diagram shows the front elevation of the cabinet. It features a large rectangular opening with rounded corners. The overall width is labeled as 21-5/8" MAX. DLO (Distance from Left Outer edge). The overall height is labeled as 9-5/8" MAX. DLO (Distance from Left Outer edge). There are four circular fasteners: two on the left side and two on the right side, positioned symmetrically within the cabinet body.

Technical drawing of a rectangular plate. The overall length is dimensioned as 21-3/8" MAX. DLO. The overall width is dimensioned as 3-1/4" MAX. DLO. The drawing includes a break symbol (three parallel diagonal lines) in the center of the plate, indicating that the plate is longer than shown.

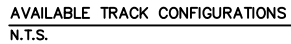
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'4 x 24' DESIGN LOADS +15.3 PSF -17.6 PSF TEST LOADS +22.9 PSF -26.4 PSF	 See Digital Signature This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. 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		
			
AMARR 2402, 2412, 2422 AMARR 2002, 2012, 2022			
SIZE	DRAWN BY DRC	DATE 05/23/23	DRAWING NUMBER
B	CHECKED BY RLR	DATE 08/15/23	IBC-2412-104-11-M
AMARR COMPANY			SHEET 3 OF 4
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	20.8	23.9
6'	2"	37"	-	20.2	23.3
6'	4"	38"	-	19.7	22.6
6'	6"	39"	-	19.2	22.1
6'	8"	40"	-	18.7	21.5
6'	10"	41"	-	18.2	21.0
7'	0"	42"	-	17.8	20.5
7'	2"	43"	-	17.4	20.0
7'	4"	44"	-	17.0	19.6
7'	6"	45"	-	16.6	19.1
7'	8"	46"	-	16.2	18.7
7'	10"	47"	-	15.9	18.3
8'	0"	48"	-	15.6	17.9
8'	2"	49"	-	15.3	17.6
8'	4"	50"	-	14.9	17.2
8'	6"	51"	-	14.7	16.9
8'	8"	52"	-	14.4	16.5
8'	10"	53"	-	14.1	16.2
9'	0"	54"	-	13.8	15.9
9'	2"	37"	73"	20.5	23.6
9'	4"	36"	76"	19.6	22.5
9'	6"	37"	77"	19.3	22.2
9'	8"	38"	78"	19.1	22.0
9'	10"	39"	79"	18.8	21.7
10'	0"	40"	80"	18.6	21.4
10'	2"	41"	81"	18.4	21.1
10'	4"	42"	82"	18.1	20.9
10'	6"	43"	83"	17.8	20.5
10'	8"	44"	84"	17.6	20.2
10'	10"	45"	85"	17.3	19.9
11'	0"	46"	86"	17.0	19.6
11'	2"	47"	87"	16.8	19.3
11'	4"	48"	88"	16.5	19.0
11'	6"	49"	89"	16.3	18.7
11'	8"	50"	90"	16.0	18.5
11'	10"	51"	91"	15.8	18.2
12'	0"	48"	96"	15.5	17.8
12'	2"	49"	97"	15.4	17.7
12'	4"	50"	98"	15.3	17.6



DOOR HEIGHT		TRACK ATTACHMENT										TYPICAL SPLICE	
		A	B	C	D	E	F	G	H	I	J		K
7'	0"	10"	34"	58"									76"
7'	6"	10"	34"	58"									82"
8'	0"	10"	34"	58"									88"
9'	0"	10"	34"	58"	82"								100"
9'	6"	10"	34"	58"	82"								106"
10'	0"	10"	34"	58"	82"								112"
11'	0"	10"	34"	58"	82"	106"							124"
12'	0"	10"	34"	58"	82"	106"							136"
13'	0"	10"	34"	58"	82"	106"	130"						148"
14'	0"	10"	34"	58"	82"	106"	130"						160"
15'	0"	10"	34"	58"	82"	106"	130"	154"					172"
16'	0"	10"	34"	58"	82"	106"	130"	154"					184"
17'	0"	10"	34"	58"	82"	106"	130"	154"	178"				196"
18'	0"	10"	34"	58"	82"	106"	130"	154"	178"				208"
19'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

SECTION	STRUT SIZE
12TH	2"
11TH	2"
10TH	2"
9TH	2"
8TH	2"
7TH	2"
6TH	2"
5TH	2"
4TH	2"
3RD	2"
2ND	2"
BOTTOM	2"
	2"

FL