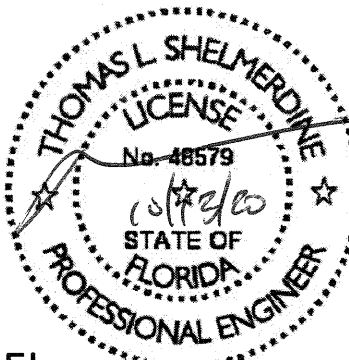
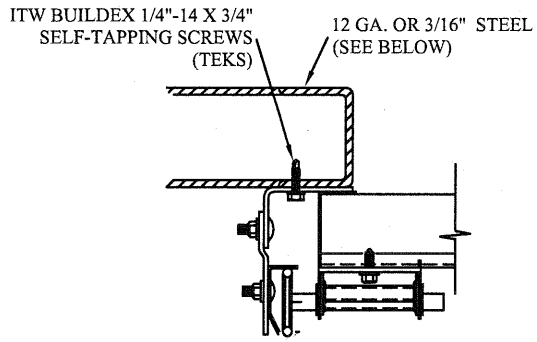


REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 10'2" x 24' DESIGN LOADS +32.4 PSF -37.7 PSF TEST LOADS +48.6 PSF -56.6 PSF	Thomas L. Shelmerdine, PE (FL PE #00048579) Structural Solutions, PA (FL Firm #29412)	 FL	dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
	<i>Amarr</i>		

MODEL 1000/SUPERFLEX AMARR 2432/SUPERFLEX			
SIZE	DRAWN BY	R/LR	DATE 6/11/19
B	CHECKED BY	R/LR	DATE 6/11/19
ENTREMATIC			DRAWING NUMBER IBC-1010-150-11-S
165 CARRIAGE COURT WINSTON-SALEM N.C. 27105			SHEET 1 OF 4

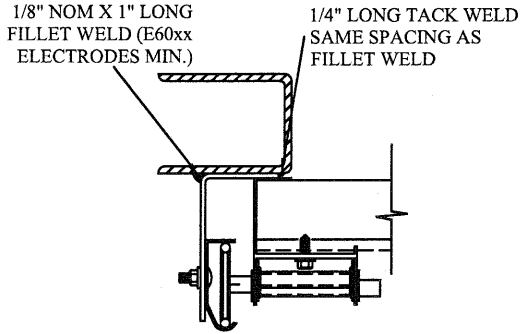
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

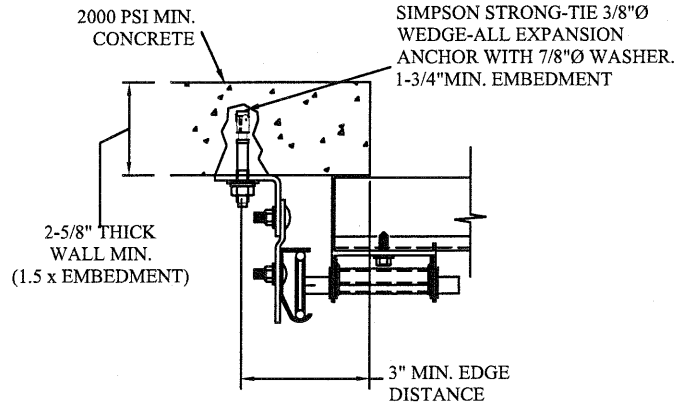
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 16" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



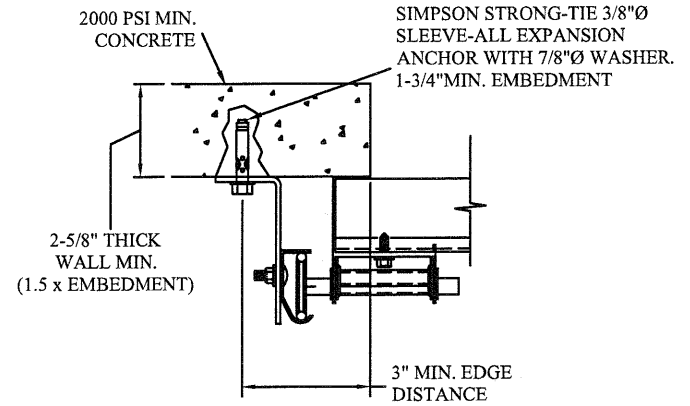
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

SPECIFICATIONS AND NOTES

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:
+164.7 LBS/FT & -191.6 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. (.021) 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.

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

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)

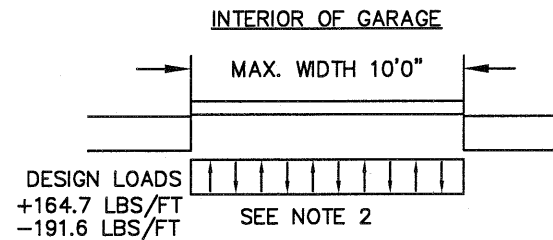
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

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

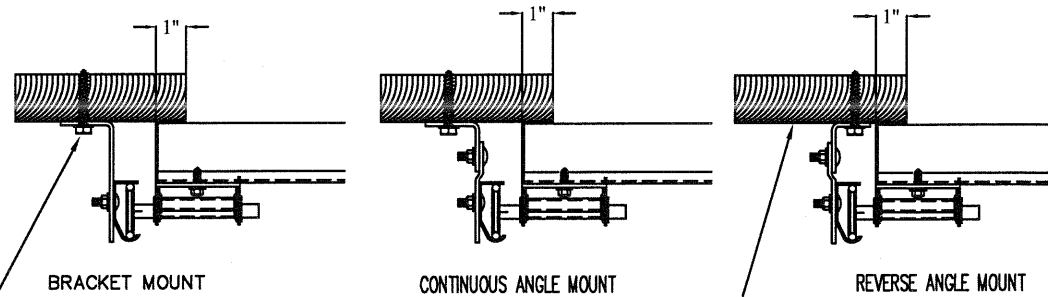
NOTES:

1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
3. MIN. EDGE DISTANCE OF 3" REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.



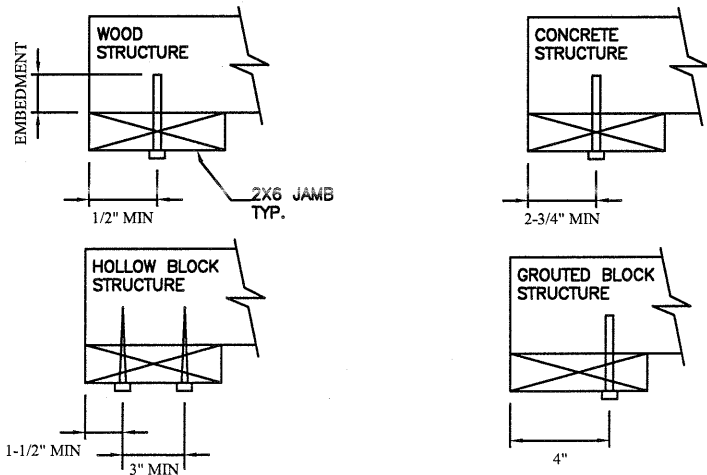
TRACK CONNECTION TO WOOD JAMB OPTIONS

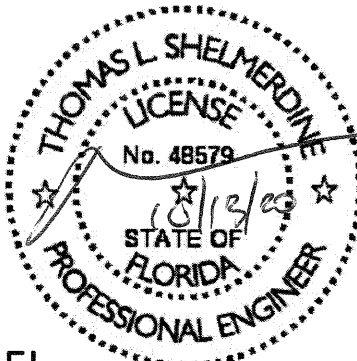
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL

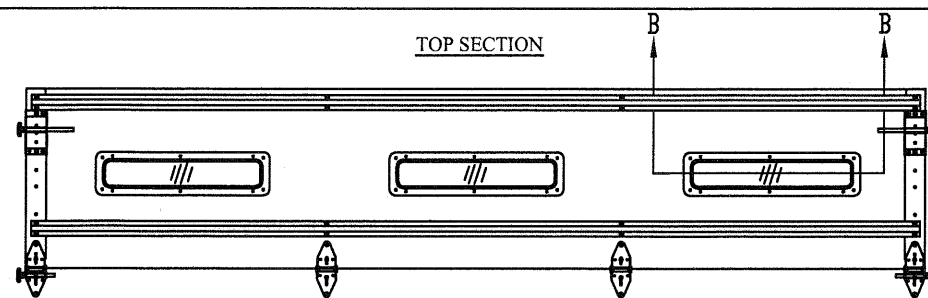


5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

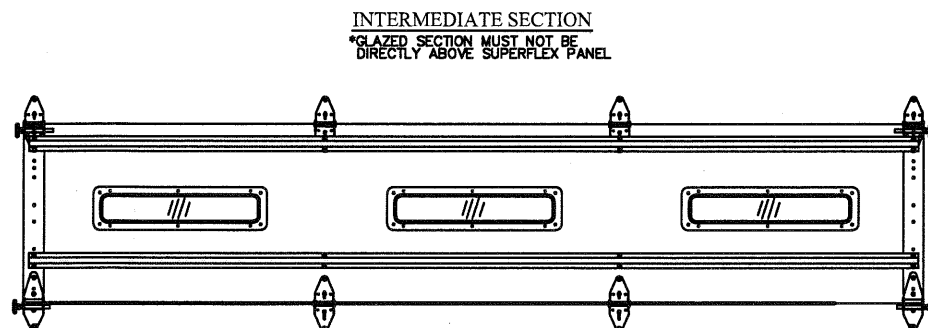
2x6 WOOD JAMB SYP OR SPF
(NO.2) OR BETTER (TYP.)



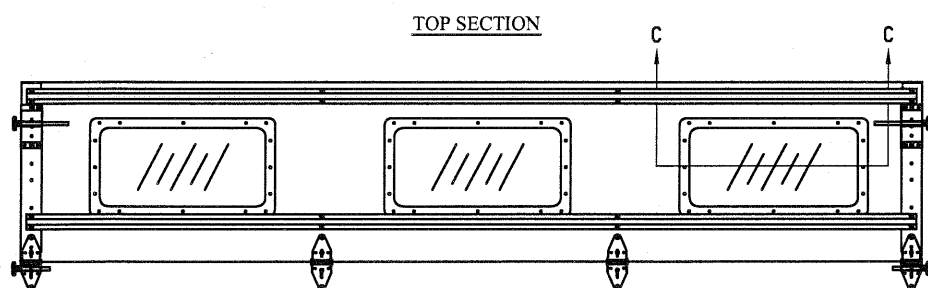
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2 x 24' DESIGN LOADS +32.4 PSF -37.7 PSF TEST LOADS +48.6 PSF -56.6 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)  FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 1000/SUPERFLEX AMARR 2432/SUPERFLEX			
SIZE	DRAWN BY	RLR	DATE 6/11/19
B	CHECKED BY	RLR	DATE 6/11/19
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			DRAWING NUMBER IBC-1010-150-11-S SHEET 2 OF 4



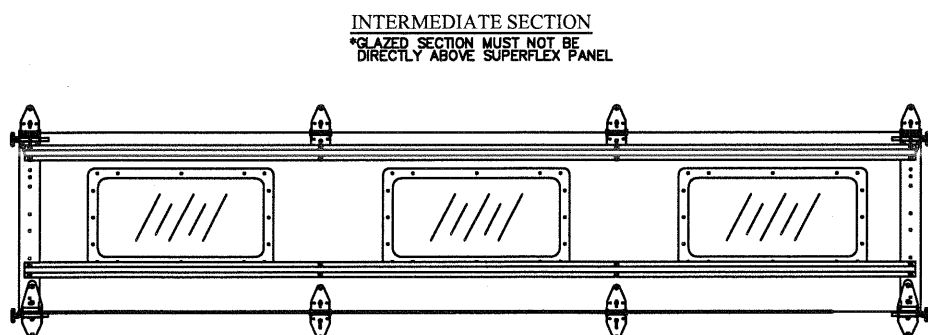
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS
N.T.S.



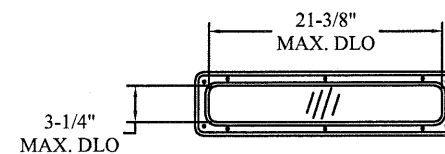
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS
N.T.S.



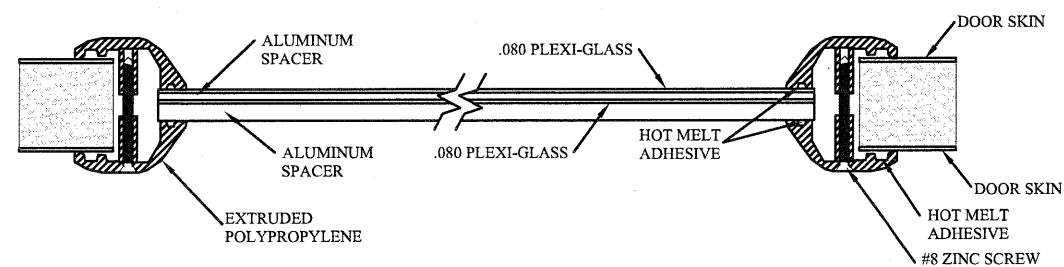
OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS
N.T.S.



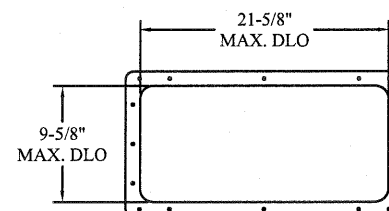
OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS
N.T.S.



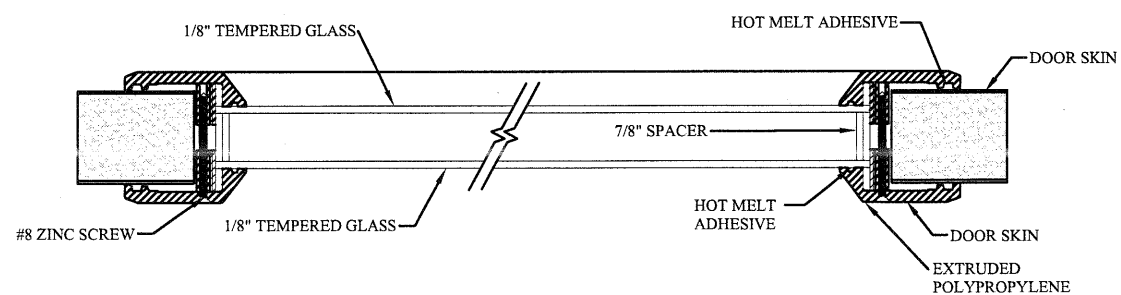
24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



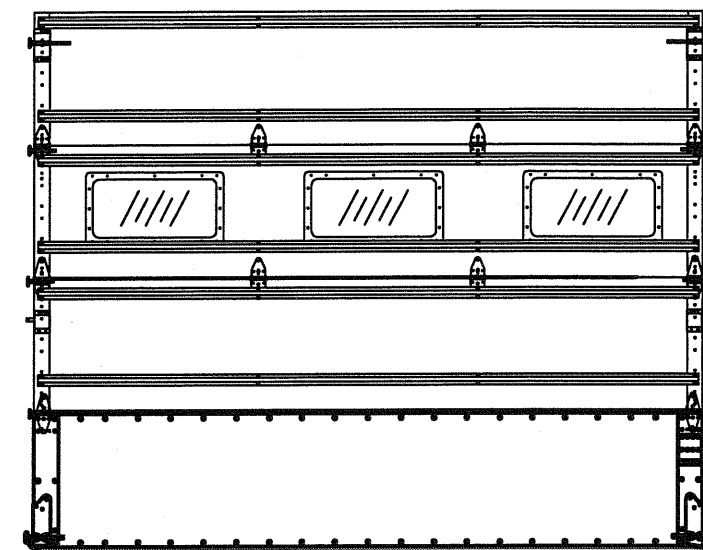
SECTION B-B 24" X 6" WINDOW DETAIL W/ .080 PLEXI-GLASS
N.T.S.



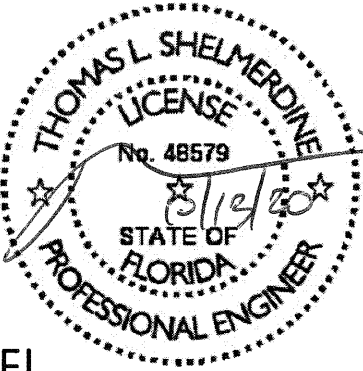
24" X 12" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



SECTION C-C 24" X 12" WINDOW DETAIL W/ 1-1/8" INSULATED GLASS
N.T.S.



OPTIONAL SINGLE SUPERFLEX SECTION
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2 x 24' DESIGN LOADS +32.4 PSF -37.7 PSF TEST LOADS +48.6 PSF -56.6 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL 	dba Structural Solutions of North Carolina, Inc. Charlotte, NC	
			
MODEL 1000/SUPERFLEX AMARR 2432/SUPERFLEX			
SIZE	DRAWN BY	RLR	DATE 6/11/19
B	CHECKED BY	RLR	DATE 6/11/19
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-1010-150-11-S
SHEET 3 OF 4			SHEET 3 OF 4

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

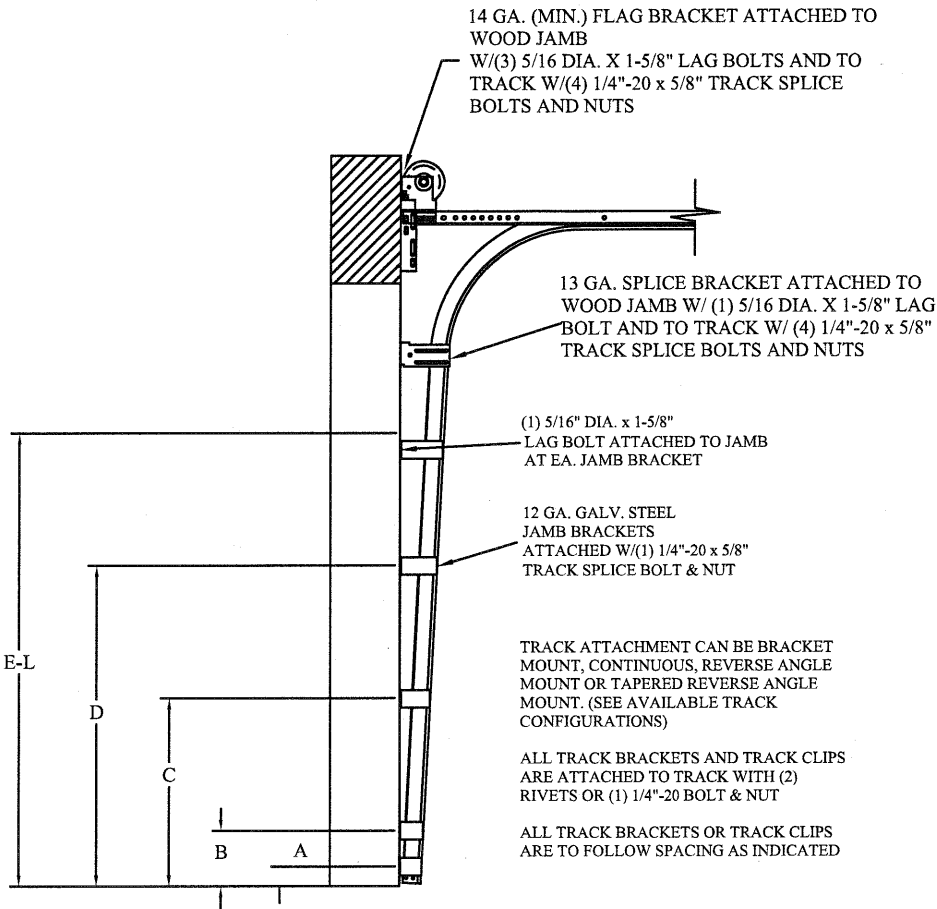
FL

The seal is circular with a dotted border. The outer ring contains the text "THOMAS L. SHELME RDINE" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the word "LICENSE" is at the top, "No. 48579" is in the center, and "STATE OF FLORIDA" is at the bottom. A signature is written across the seal, and the expiration date "3/14/20" is stamped over the center. Two stars are positioned on the left and right sides of the seal.

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

TABLE 1

Section Width (ft)	Center Stile Locations		Max Design Loads Allowed	
	1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6' 0"	36"	-	36.4	42.4
6' 2"	37"	-	35.4	41.2
6' 4"	38"	-	34.5	40.1
6' 6"	39"	-	33.6	39.1
6' 8"	40"	-	32.8	38.1
6' 10"	41"	-	32.0	37.2
7' 0"	42"	-	31.2	36.3
7' 2"	43"	-	30.5	35.5
7' 4"	44"	-	29.8	34.7
7' 6"	45"	-	29.1	33.9
7' 8"	46"	-	28.5	33.1
7' 10"	47"	-	27.9	32.4
8' 0"	48"	-	27.3	31.8
8' 2"	49"	-	26.7	31.1
8' 4"	50"	-	26.2	30.5
8' 6"	51"	-	25.7	29.9
8' 8"	52"	-	25.2	29.3
8' 10"	53"	-	24.7	28.8
9' 0"	54"	-	24.3	28.2
9' 2"	55"	-	23.8	27.7
9' 4"	36"	76"	34.3	39.9
9' 6"	37"	77"	33.9	39.4
9' 8"	38"	78"	33.4	38.9
9' 10"	39"	79"	33.0	38.4
10' 0"	40"	80"	32.6	37.9
10' 2"	41"	81"	32.4	37.7

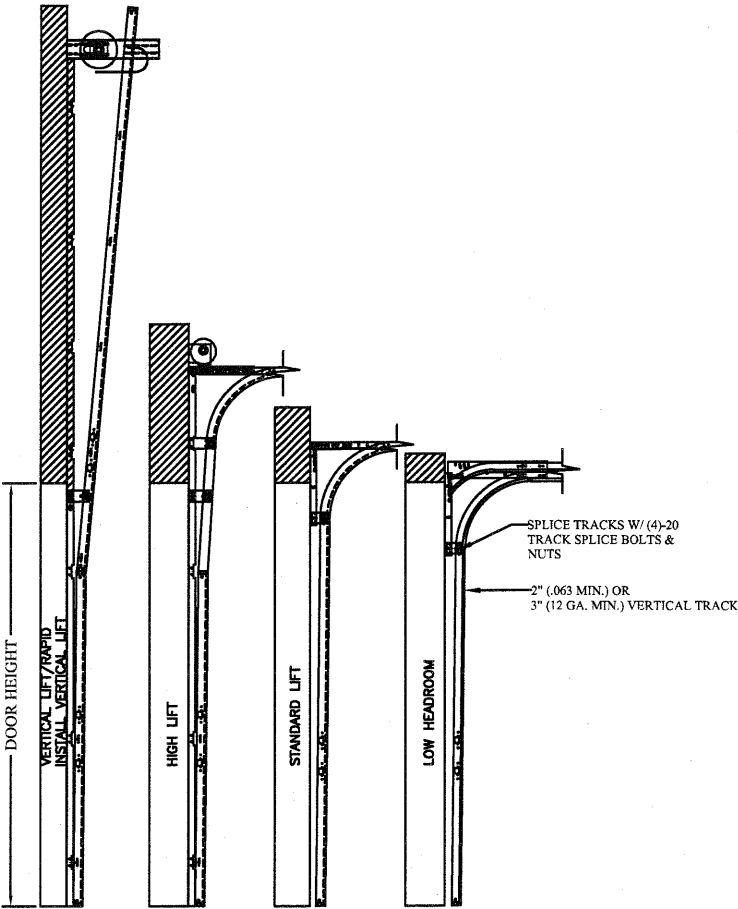


TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2

TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT												TYPICAL SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	
7' 0"	3.5"	10"	34"	58"									76"
7' 6"	3.5"	10"	34"	58"									82"
8' 0"	3.5"	10"	34"	58"									88"
8' 6"	3.5"	10"	34"	58"	82"								94"
9' 0"	3.5"	10"	34"	58"	82"								100"
9' 6"	3.5"	10"	34"	58"	82"								106"
10' 0"	3.5"	10"	34"	58"	82"								112"
11' 0"	3.5"	10"	34"	58"	82"	106"							124"
12' 0"	3.5"	10"	34"	58"	82"	106"							136"
13' 0"	3.5"	10"	34"	58"	82"	106"	130"						148"
14' 0"	3.5"	10"	34"	58"	82"	106"	130"						160"
15' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"					172"
16' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"					184"
17' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"				196"
18' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"				208"
19' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24' 0"	3.5"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV

DESCRIPTION OF REVISIONS

DATE

BY

MAX SIZE
10'2 x 24'

DESIGN LOADS
+32.4 PSF
-37.7 PSF

TEST LOADS
+48.6 PSF
-56.6 PSF

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 1000/SUPERFLEX
AMARR 2432/SUPERFLEX

SIZE

DRAWN BY

RLR

DATE

6/11/19

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DATE

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DRAWING NUMBER

IBC-1010-150-11-S

ENTREMATIC

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27103

SHEET 4 OF 4