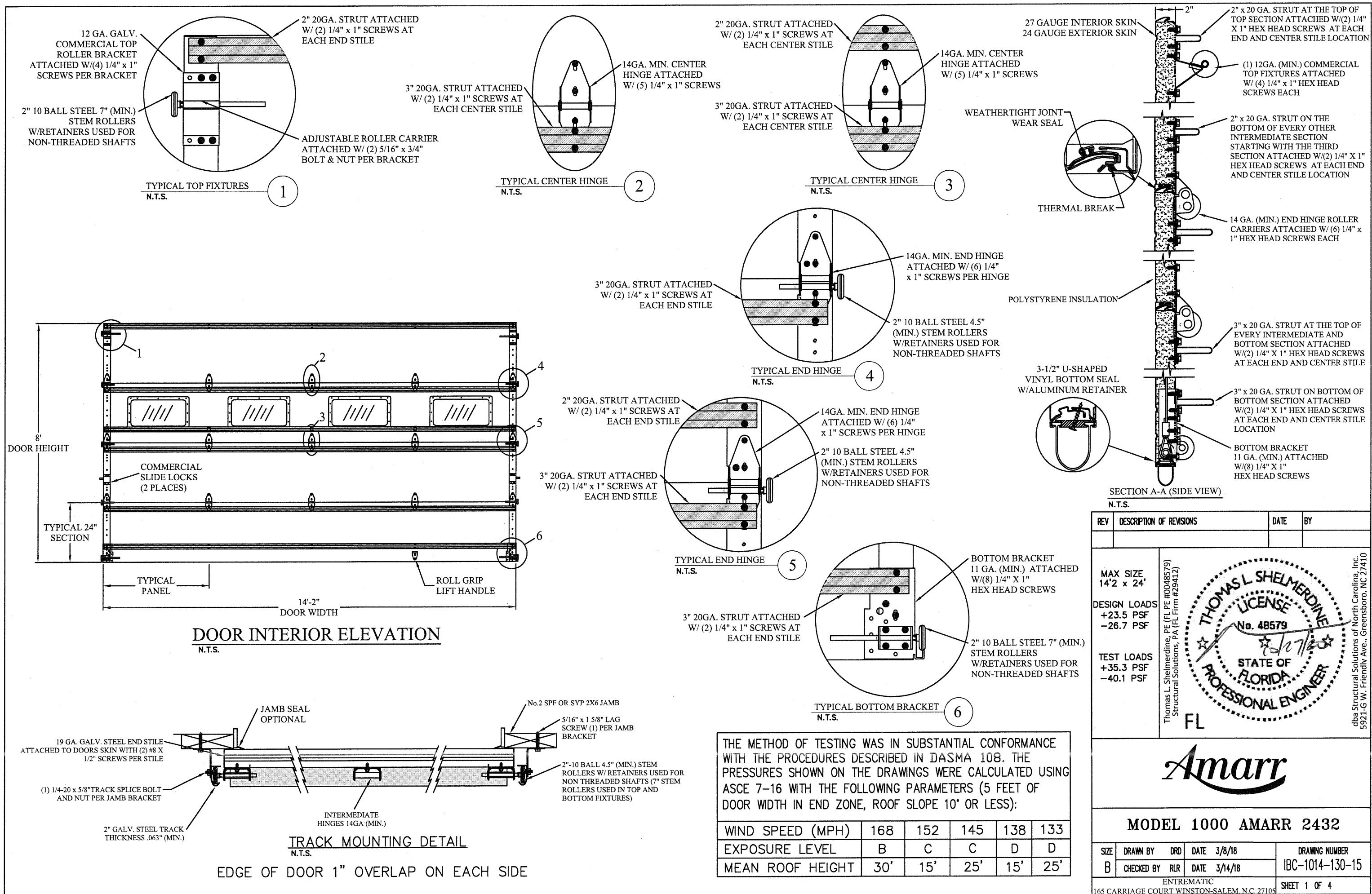




THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10' OR LESS):

WIND SPEED (MPH)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
14'2" x 24'

DESIGN LOADS
+23.5 PSF
-26.7 PSF

TEST LOADS
+35.3 PSF
-40.1 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

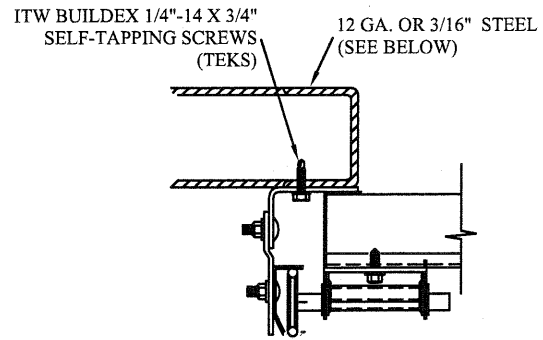
MODEL 1000 AMARR 2432

SIZE	DRAWN BY	DRD	DATE	3/8/18	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	3/14/18	IBC-1014-130-15

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

SHEET 1 OF 4

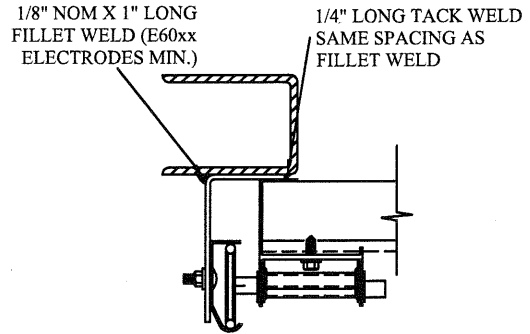
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

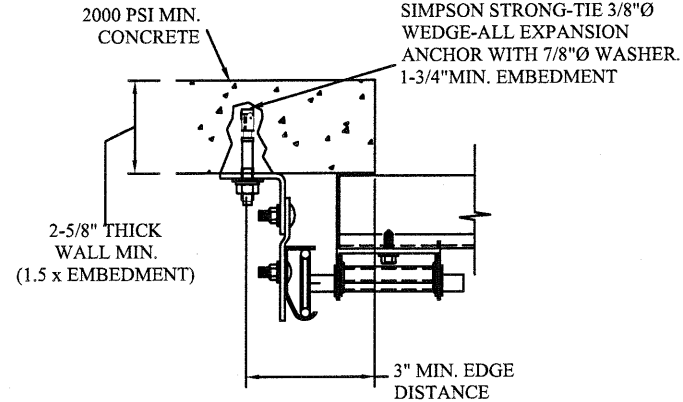
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 16" O.C.
REFER TO NOTES: 1, 2 AND 5

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



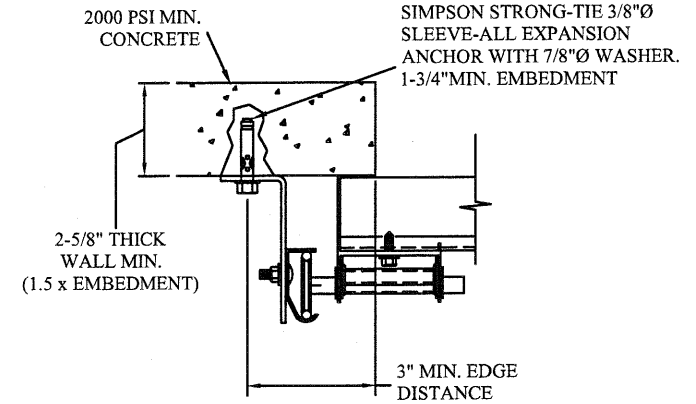
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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:
+166.5 LBS/FT & -189.1 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. DOORS UP TO 24'0" HIGH USE (2) 3" 20GA STRUTS ON BOTTOM SECTION
(1) 3" 20GA STRUT AT THE TOP OF EVERY INTERMEDIATE SECTION & (1) 2" 20GA STRUT ON BOTTOM OF EVERY OTHER INTERMEDIATE SECTION STARTING ON WITH THE THIRD SECTION, AND (1) 2" 20GA STRUT ON THE TOP 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.

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)

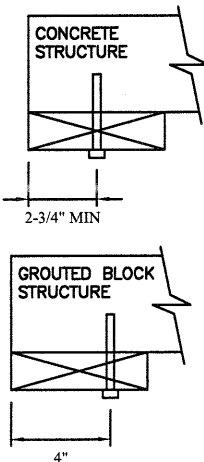
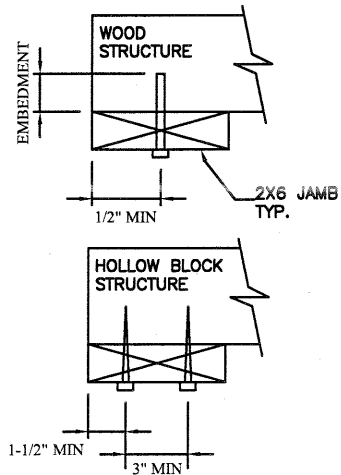
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

USE PAIRS OF FASTENERS (3 AFFAIR) AT 15" O.C. (1" MIN. 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-)

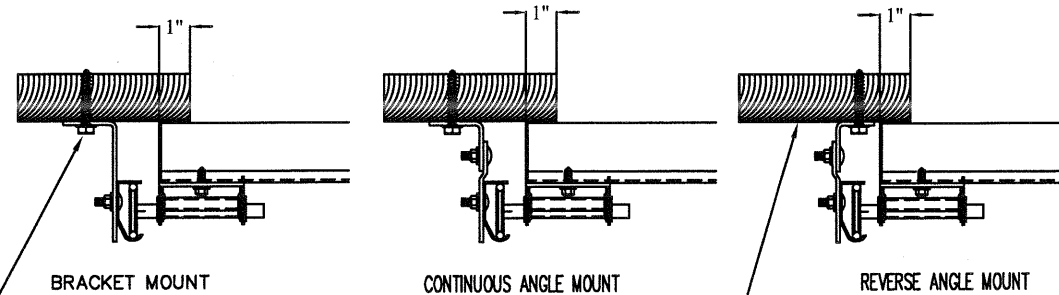
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



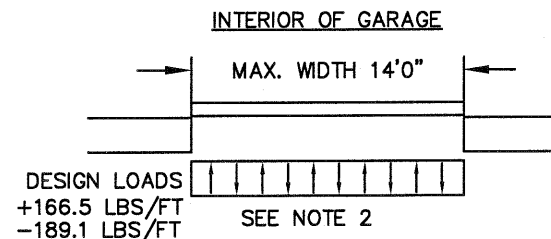
TRACK CONNECTION TO WOOD JAMB OPTIONS

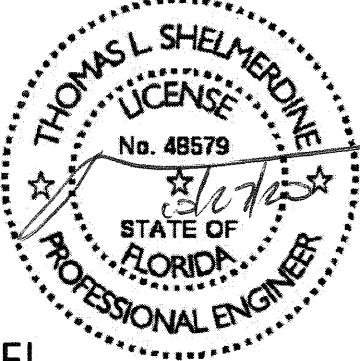
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL.



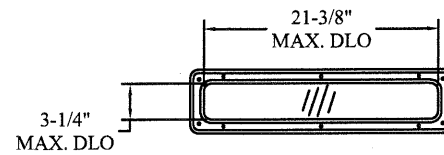
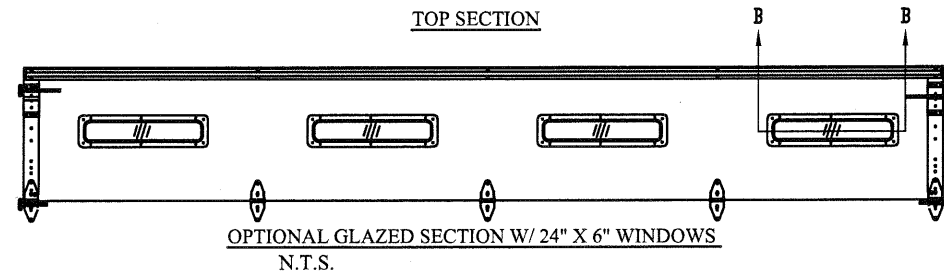
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

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



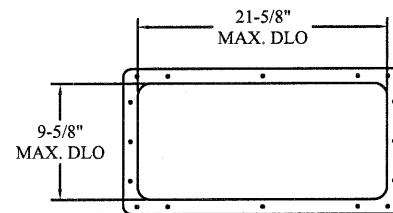
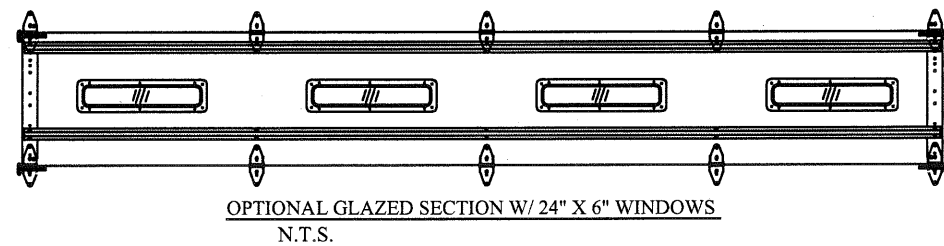
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 14'2" x 24' DESIGN LOADS +23.5 PSF -26.7 PSF TEST LOADS +35.3 PSF -40.1 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 1000 AMARR 2432			
SIZE	DRAWN BY	DRD	DATE 3/8/18
B	CHECKED BY	RLR	DATE 3/14/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-1014-130-15 SHEET 2 OF 4

TOP SECTION



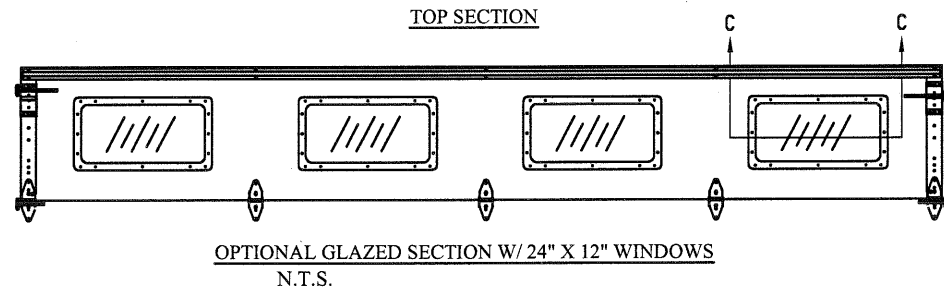
24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

INTERMEDIATE SECTION

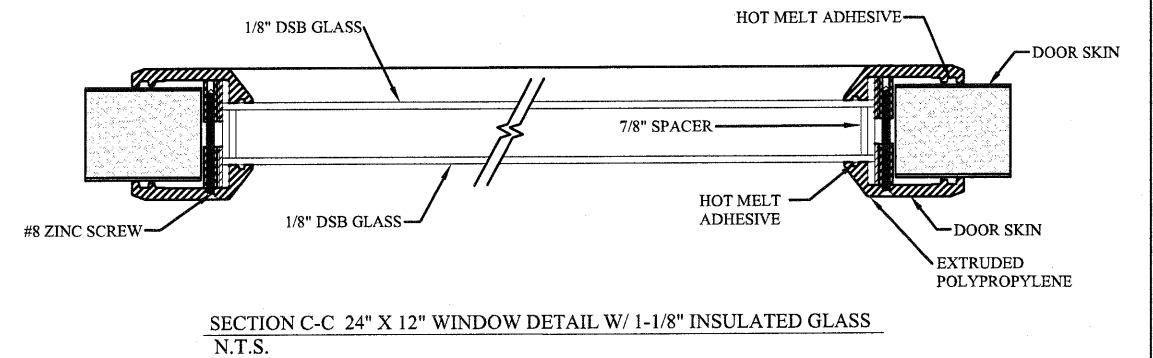
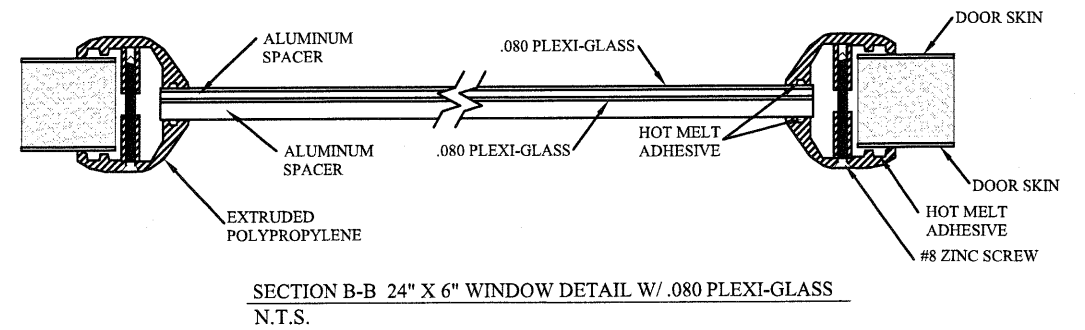
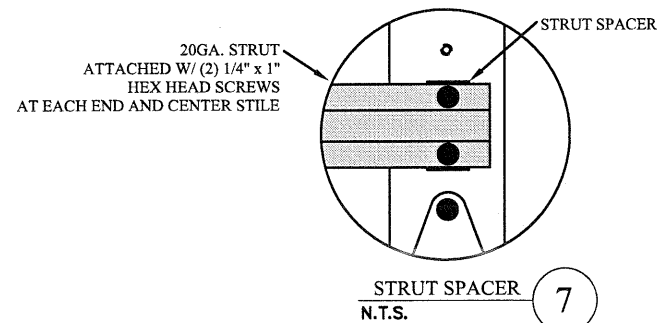
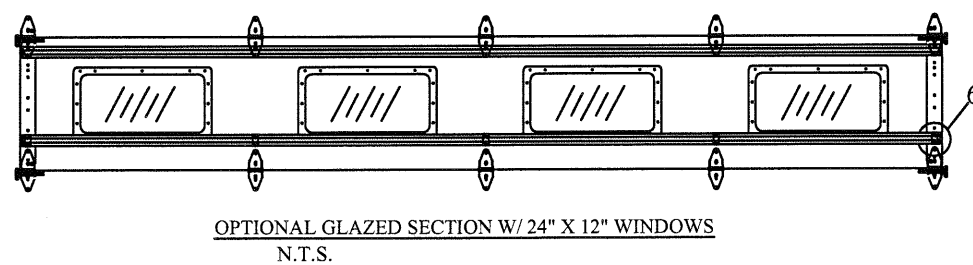


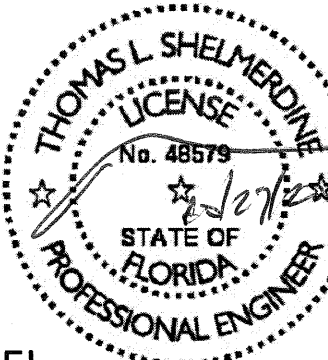
24" X 12" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

TOP SECTION

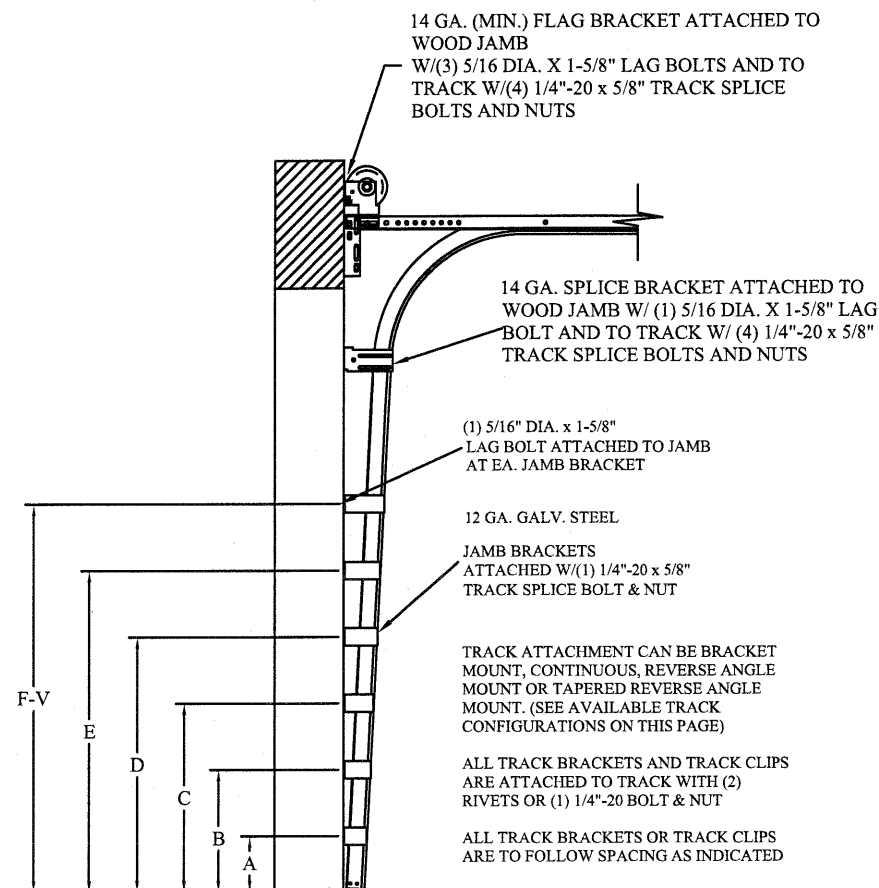


INTERMEDIATE SECTION

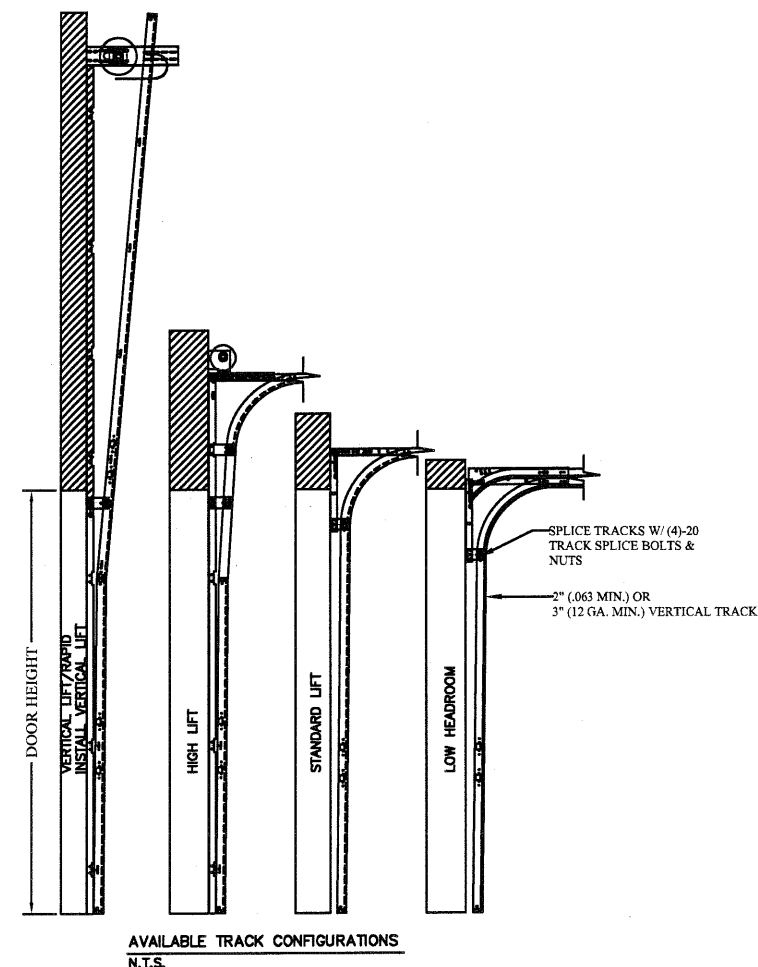


REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 14'2 x 24' DESIGN LOADS +23.5 PSF -26.7 PSF TEST LOADS +35.3 PSF -40.1 PSF			
Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)		dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
			
MODEL 1000 AMARR 2432			
SIZE	DRAWN BY	DRO	DATE 3/8/18
B	CHECKED BY	RLR	DATE 3/14/18
ENTREMATIC 165 GARRAGE COURT WINSTON-SALEM, N.C. 27105			
SHEET 3 OF 4			

Section Width (ft)		Center Stile Locations (Measured from Left			Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	-	27.7	31.5
6'	2"	37"	-	-	26.9	30.6
6'	4"	38"	-	-	26.2	29.8
6'	6"	39"	-	-	25.6	29.0
6'	8"	40"	-	-	24.9	28.3
6'	10"	41"	-	-	24.3	27.6
7'	0"	42"	-	-	23.7	27.0
7'	2"	43"	-	-	23.2	26.3
7'	4"	44"	-	-	22.6	25.7
7'	6"	45"	-	-	22.1	25.2
7'	8"	46"	-	-	21.7	24.6
7'	10"	47"	-	-	21.2	24.1
8'	0"	48"	-	-	20.8	23.6
8'	2"	49"	-	-	20.3	23.1
8'	4"	50"	-	-	19.9	22.6
8'	6"	51"	-	-	19.5	22.2
8'	8"	52"	-	-	19.2	21.8
8'	10"	53"	-	-	18.8	21.4
9'	0"	54"	-	-	18.4	21.0
9'	2"	55"	-	-	18.1	20.6
9'	4"	36"	76"	-	26.1	29.7
9'	6"	37"	77"	-	25.8	29.3
9'	8"	38"	78"	-	25.4	28.9
9'	10"	39"	79"	-	25.1	28.5
10'	0"	40"	80"	-	24.8	28.2
10'	2"	41"	81"	-	24.5	27.8
10'	4"	42"	82"	-	24.2	27.5
10'	6"	43"	83"	-	23.9	27.2
10'	8"	44"	84"	-	23.6	26.8
10'	10"	45"	85"	-	23.3	26.5
11'	0"	46"	86"	-	23.1	26.2
11'	2"	47"	87"	-	22.8	25.9
11'	4"	48"	88"	-	22.5	25.6
11'	6"	49"	89"	-	22.3	25.3
11'	8"	50"	90"	-	22.0	25.0
11'	10"	51"	91"	-	21.8	24.8
12'	0"	48"	96"	-	20.7	23.5
12'	2"	49"	97"	-	20.4	23.2
12'	4"	50"	98"	-	20.2	23.0
12'	6"	51"	99"	-	20.0	22.8
12'	8"	52"	100"	-	19.8	22.5
12'	10"	53"	101"	-	19.6	22.3
13'	0"	36"	78"	120"	23.6	26.8
13'	2"	37"	79"	121"	23.6	26.8
13'	4"	38"	80"	122"	23.6	26.8
13'	6"	39"	81"	123"	23.6	26.8
13'	8"	40"	82"	124"	23.6	26.8
13'	10"	41"	83"	125"	23.6	26.8
14'	0"	42"	84"	126"	23.6	26.8
14'	2"	43"	85"	127"	23.5	26.7



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



DOOR HEIGHT	TRACK ATTACHMENT																					TYPICAL SPLICE	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U		V
7' 0"	10"	22"	34"	46"	58"																		76"
7' 6"	10"	22"	34"	46"	58"	70"																	82"
8' 0"	10"	22"	34"	46"	58"	70"																	88"
8' 6"	10"	22"	34"	46"	58"	70"	82"																94"
9' 0"	10"	22"	34"	46"	58"	70"	82"																100"
9' 6"	10"	22"	34"	46"	58"	70"	82"	94"															106"
10' 0"	10"	22"	34"	46"	58"	70"	82"	94"															112"
11' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"														124"
12' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"													136"
13' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"												148"
14' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"											160"
15' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"										172"
16' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"									184"
17' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"								196"
18' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"							208"
19' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"						220"
20' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"					232"
21' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"				244"
22' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"			256"
23' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"		268"
24' 0"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"	280"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 14'2" x 24' DESIGN LOADS +23.5 PSF -26.7 PSF TEST LOADS +35.3 PSF -40.1 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)	
	FL	

MODEL 1000 AMARR 2432

SIZE B	DRAWN BY DRD	DATE 3/8/18	DRAWING NUMBER IBC-1014-130-15
	CHECKED BY RLR	DATE 3/14/18	

ENTREMATIC

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

SHEET 4 OF 4