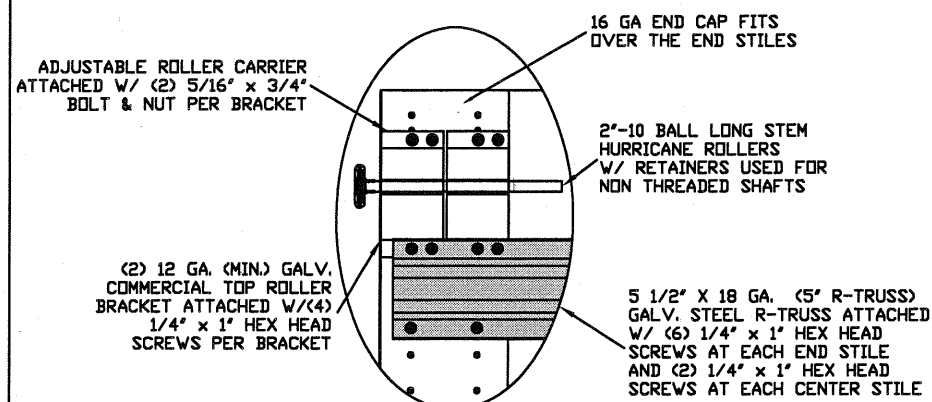
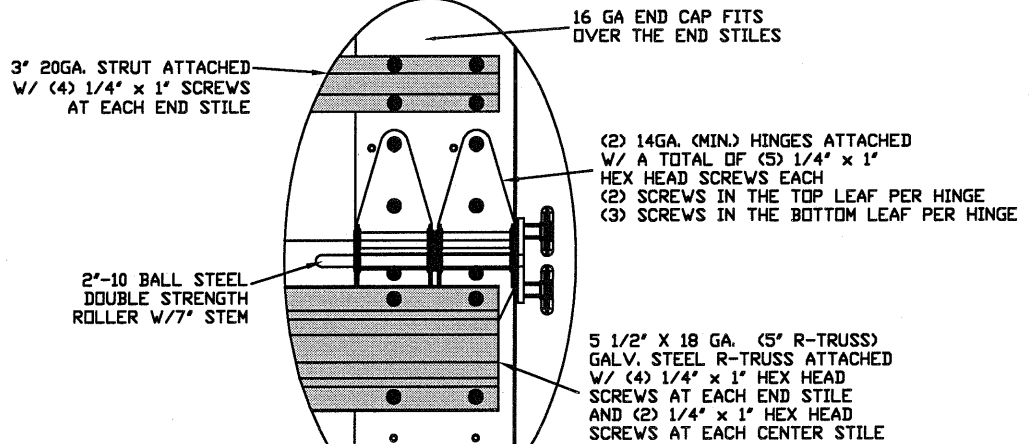
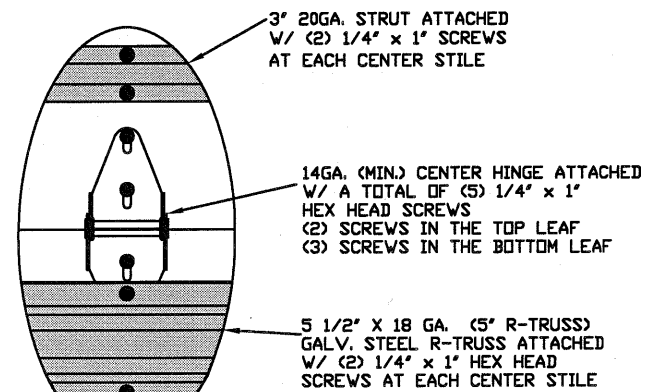




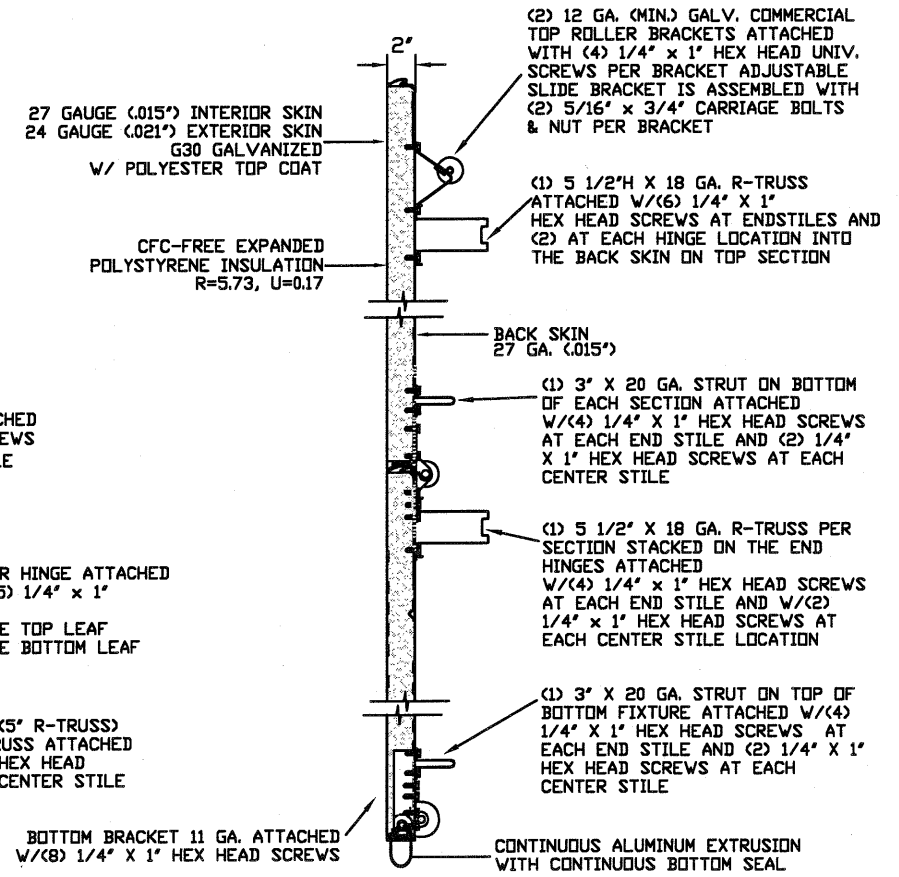
TYPICAL TOP FIXTURES 1
N.T.S.



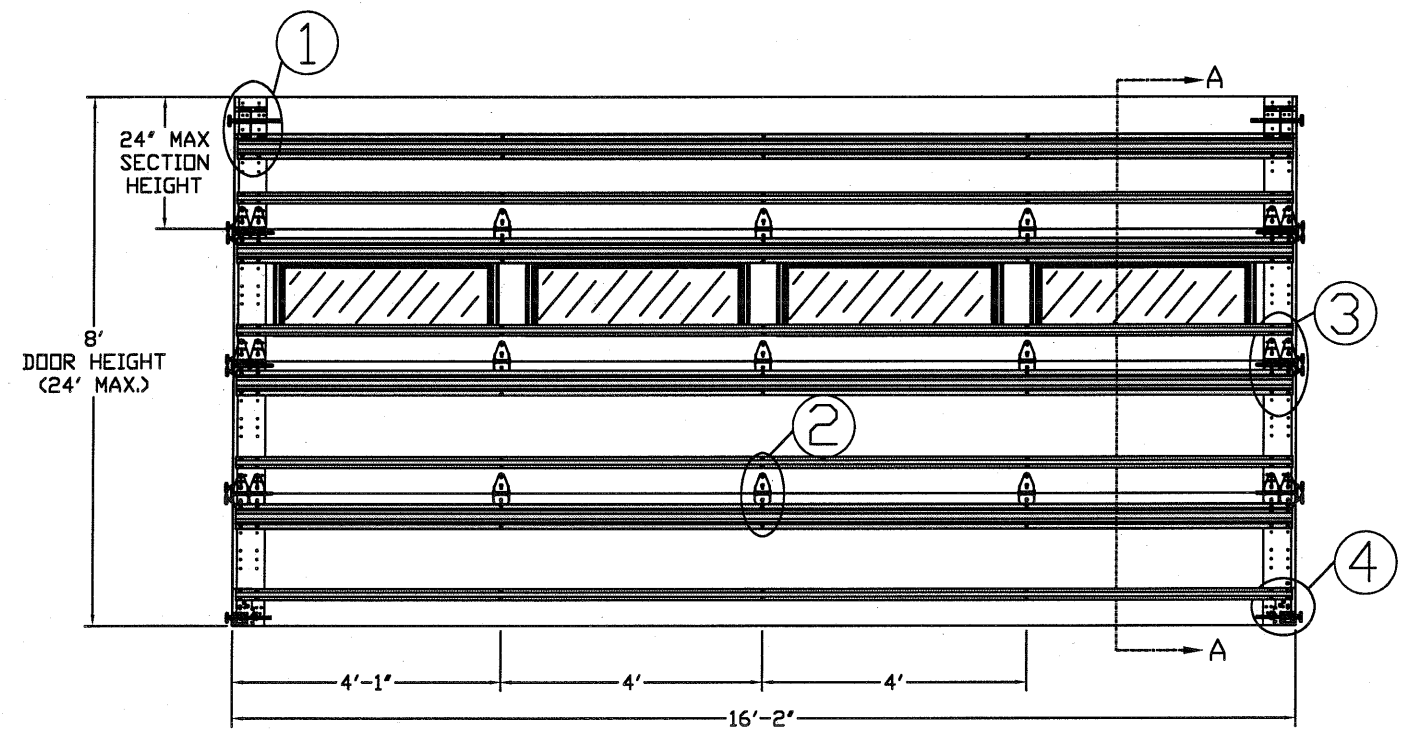
TYPICAL END HINGE 3
N.T.S.



TYPICAL CENTER HINGE 2
N.T.S.

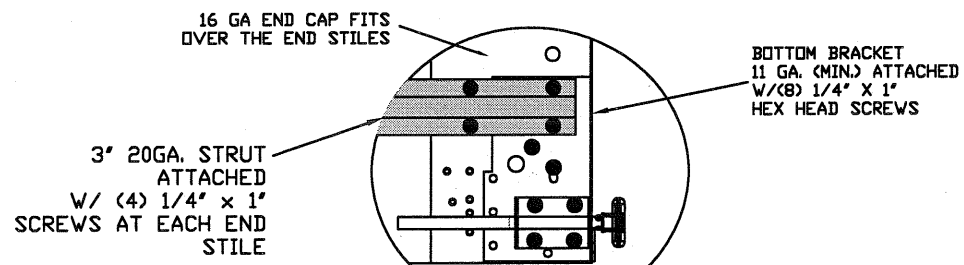


SECTION A-A (SIDE VIEW)
N.T.S.

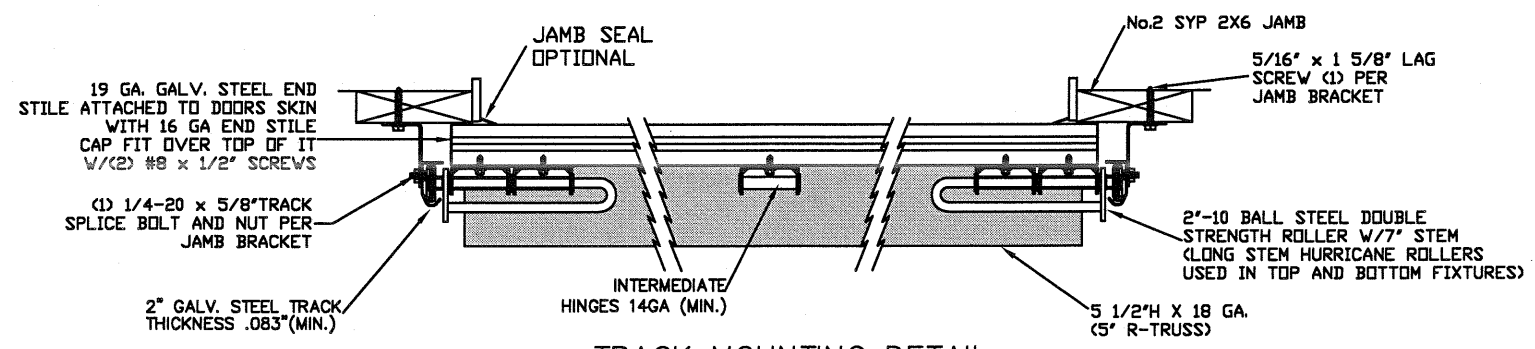


INSIDE ELEVATION
N.T.S.

LARGE MISSILE IMPACT RESISTANT



TYPICAL BOTTOM BRACKET 4
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

EDGE OF DOOR 1" OVERLAP ON EACH SIDE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996 & F588, DASMA 108 & 115. 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 LESS THAN OR EQUAL TO 10 DEGREES SLOPE):

WIND SPEED (MPH)	253	229	218	208	200
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+52.8 PSF
-59.7 PSF

TEST LOADS
+79.2 PSF
-89.6 PSF

LARGE MISSILE
IMPACT
RESISTANCE

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

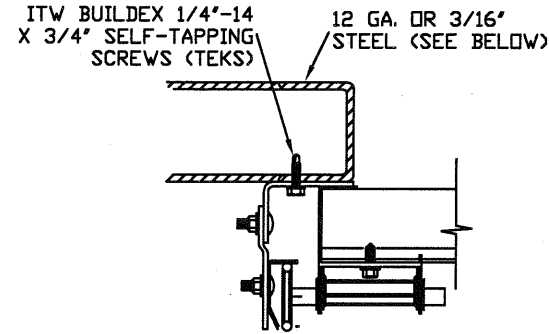
MODEL 1000 AMARR 2432

SIZE	DRAWN BY	RLR	DATE	1/25/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	1/25/17	IBC-1016-195-26-1

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 1 OF 4

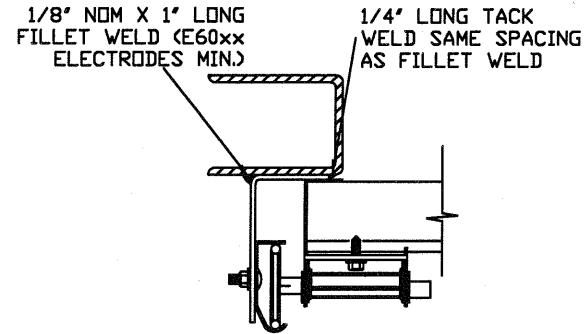
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

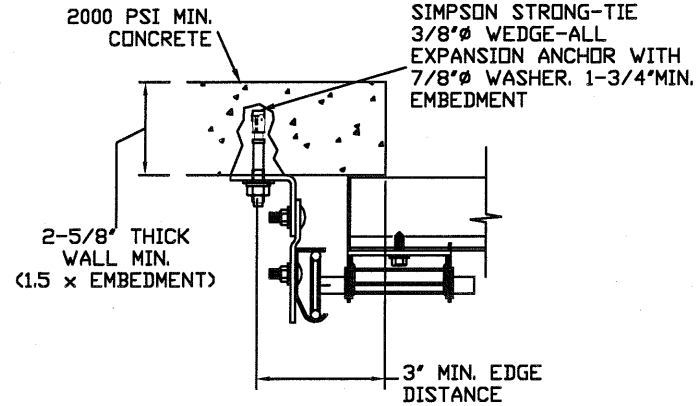
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 6" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 14" O.C.
REFER TO NOTES: 1, 2 AND 5



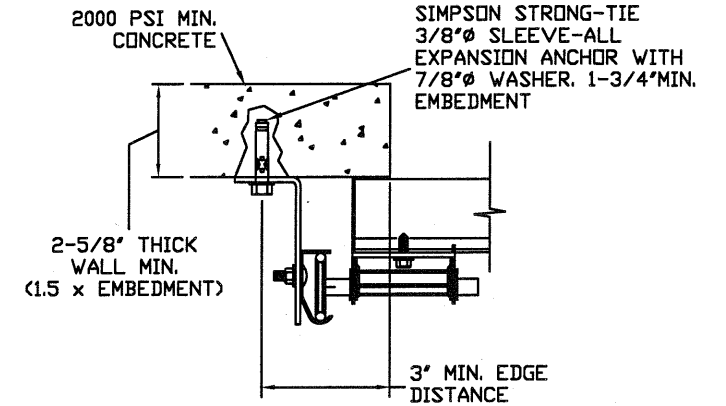
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

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 8" 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 8" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

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 10" 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 10" O.C. (1 1/4" EMBEDMENT)

ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS

THEN 18" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK

2 X 8 VERTICAL JAMB ATTACHMENT TO HOLLOW C=90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS

SIMPSON 1/4" X 5" TIEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)

USE PAIRS OF FASTENERS (3" APART)
AT 8" O.C. (1 1/2" EMBEDMENT)

HILL 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS

USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-80 BLOCK (2000 PSI GROUT)

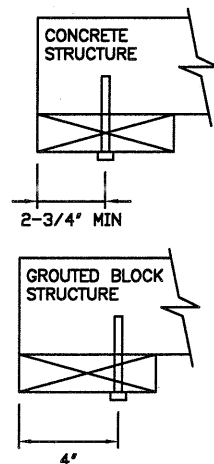
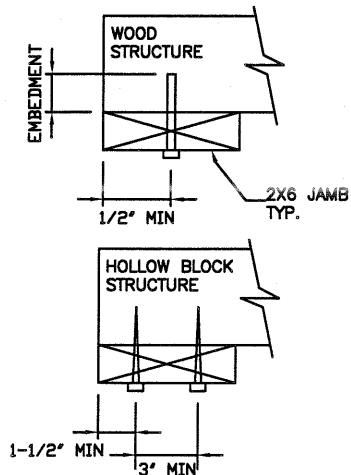
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (HULTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS

HILT SLEEVE ANCHOR 3/8" X 2-3/4"
THEN 12" O.C. (1 1/4" EMBEDMENT)

THEN 12 O.C. (1 1/4" EMBEDMENT)
(OR USE FASTENERS FOR HOLLOW C-80 BLOCK)

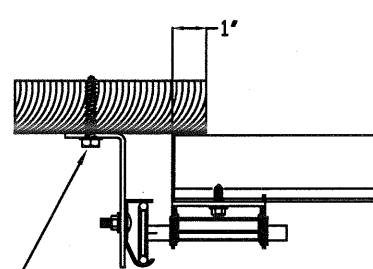
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE

*LAGS AND BOLTS CAN BE COUNTERSUNK
*PREPARATION OF WOOD JAMBS BY OTHERS



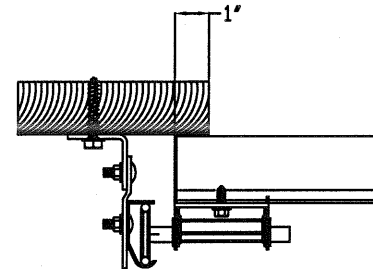
TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE TABLE 1 ON PAGE 4

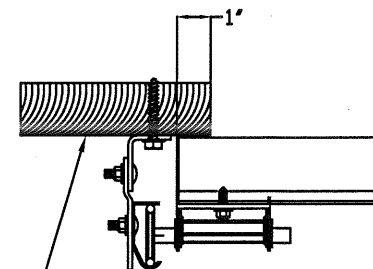


BRACKET MOUNT

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

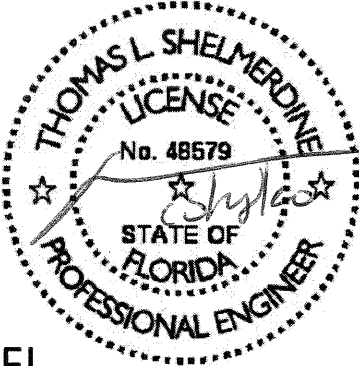


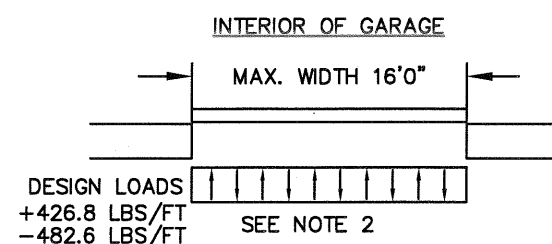
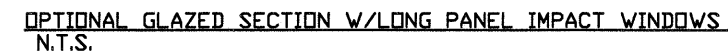
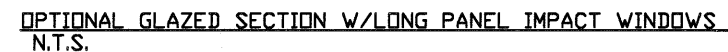
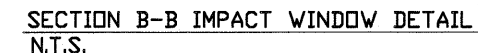
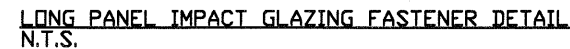
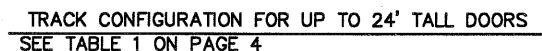
CONTINUOUS ANGLE MOUNT



REVERSE ANGLE MOUNT

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

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16'2 x 24' DESIGN LOADS +52.8 PSF -59.7 PSF TEST LOADS +79.2 PSF -89.6 PSF LARGE MISSILE IMPACT RESISTANCE		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	RLR	DATE 1/25/17
B	CHECKED BY	RLR	DATE 1/25/17
DRAWING NUMBER IBC-1016-195-26-I			
ENTREMATIC			
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
SHEET 2 OF 4			



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: +426.8 LBS/FT & -482.6 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. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, G30 GALVANIZED W/POLYESTER TOP COAT
5. DOORS UP TO 24'0" HIGH USE (1) 5.5" 18GA R-TRUSS AND (1) 3" 20GA STRUT PER 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.

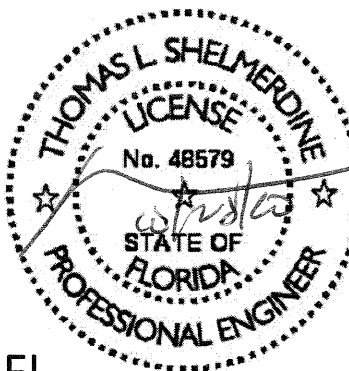
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16'2 x 24' DESIGN LOADS +52.8 PSF -59.7 PSF TEST LOADS +79.2 PSF -89.6 PSF LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 1000 AMARR 2432			
SIZE	DRAWN BY	R/LR	DATE 1/25/17
B	CHECKED BY	R/LR	DATE 1/25/17
ENTRENATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
DRAWING NUMBER IEC-1016-195-26-1			SHEET 3 OF 4

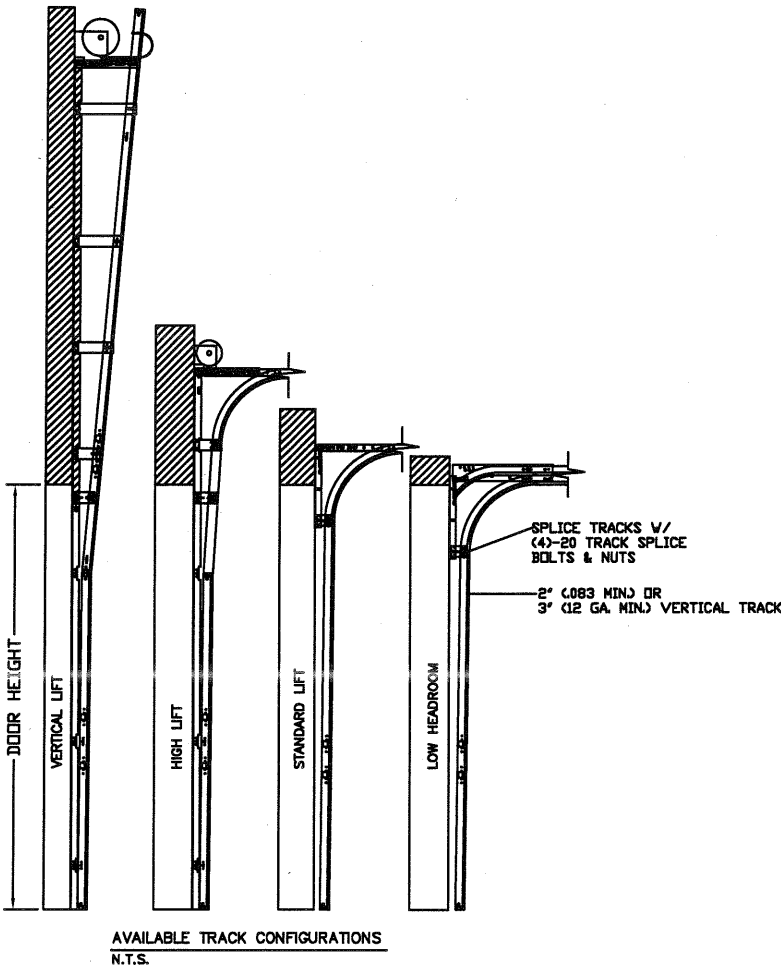
TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT																							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"																		
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"																	
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																	
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"																
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"																
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"															
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"															
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"														
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"													
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"												
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"											
15' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"										
16' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"									
17' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"								
18' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"							
19' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"						
20' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"					
21' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"				
22' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"			
23' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"		
24' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"	

ALL TRACK ATTACHMENTS +/- 1" ALLOWED USING SYP NO.2 OR BETTER ONLY

TABLE 2

Section Width (ft)	Center Stile Locations (From Left Edge)			Max Design Loads Allowed	
	1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
9' 4"	36"	76"	-	67.0	75.8
9' 6"	37"	77"	-	66.1	74.8
9' 8"	38"	78"	-	65.3	73.8
9' 10"	39"	79"	-	64.5	72.9
10' 0"	40"	80"	-	63.6	72.0
10' 2"	41"	81"	-	62.9	71.1
10' 4"	42"	82"	-	62.1	70.2
10' 6"	43"	83"	-	61.3	69.4
10' 8"	44"	84"	-	60.6	68.5
10' 10"	45"	85"	-	59.9	67.7
11' 0"	46"	86"	-	59.2	66.9
11' 2"	47"	87"	-	58.5	66.2
11' 4"	48"	88"	-	57.9	65.4
11' 6"	49"	89"	-	57.2	64.7
11' 8"	50"	90"	-	56.6	64.0
11' 10"	51"	91"	-	55.9	63.3
12' 0"	48"	96"	-	53.0	60.0
12' 2"	49"	97"	-	52.5	59.4
12' 4"	50"	98"		51.9	58.7
12' 6"	51"	99"		51.4	58.2
12' 8"	52"	100"		50.9	57.6
12' 10"	53"	101"		50.4	57.0
13' 0"	36"	78"	120"	60.6	68.5
13' 2"	37"	79"	121"	60.6	68.5
13' 4"	38"	80"	122"	60.6	68.5
13' 6"	39"	81"	123"	60.6	68.5
13' 8"	40"	82"	124"	60.6	68.5
13' 10"	41"	83"	125"	60.6	68.5
14' 0"	42"	84"	126"	60.6	68.5
14' 2"	43"	85"	127"	59.9	67.7
14' 4"	44"	86"	128"	59.2	66.9
14' 6"	45"	87"	129"	58.5	66.2
14' 8"	46"	88"	130"	57.9	65.4
14' 10"	47"	89"	131"	57.2	64.7
14' 0"	48"	90"	132"	56.6	64.0
15' 2"	49"	91"	133"	55.9	63.3
15' 4"	50"	92"	134"	55.3	62.6
15' 6"	51"	93"	135"	54.7	61.9
15' 8"	52"	94"	136"	54.2	61.2
15' 10"	53"	95"	137"	53.6	60.6
16' 0"	48"	96"	144"	53.0	60.0
16' 2"	49"	97"	145"	52.8	59.7



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16'2 x 24'		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 Thomas L. Shelmerdine, Inc. dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
DESIGN LOADS +52.8 PSF -59.7 PSF			
TEST LOADS +79.2 PSF -89.6 PSF			
LARGE MISSILE IMPACT RESISTANCE			
Amarr			
MODEL 1000 AMARR 2432			
SIZE	DRAWN BY RLR	DATE 1/25/17	DRAWING NUMBER
B	CHECKED BY RLR	DATE 1/25/17	IBC-1016-195-26-1
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 4 OF 4