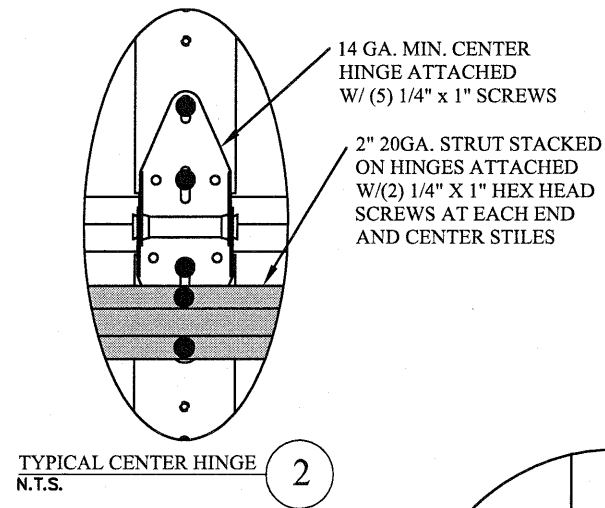
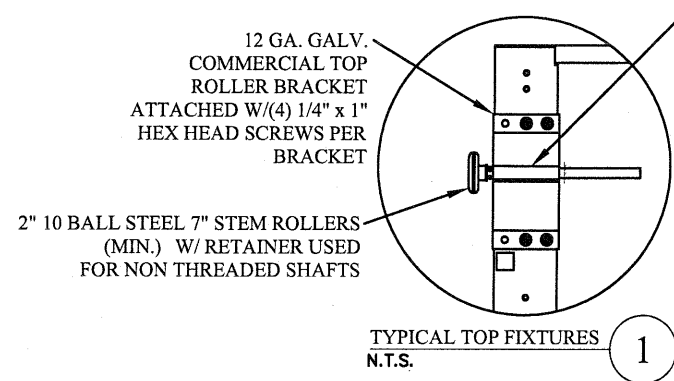
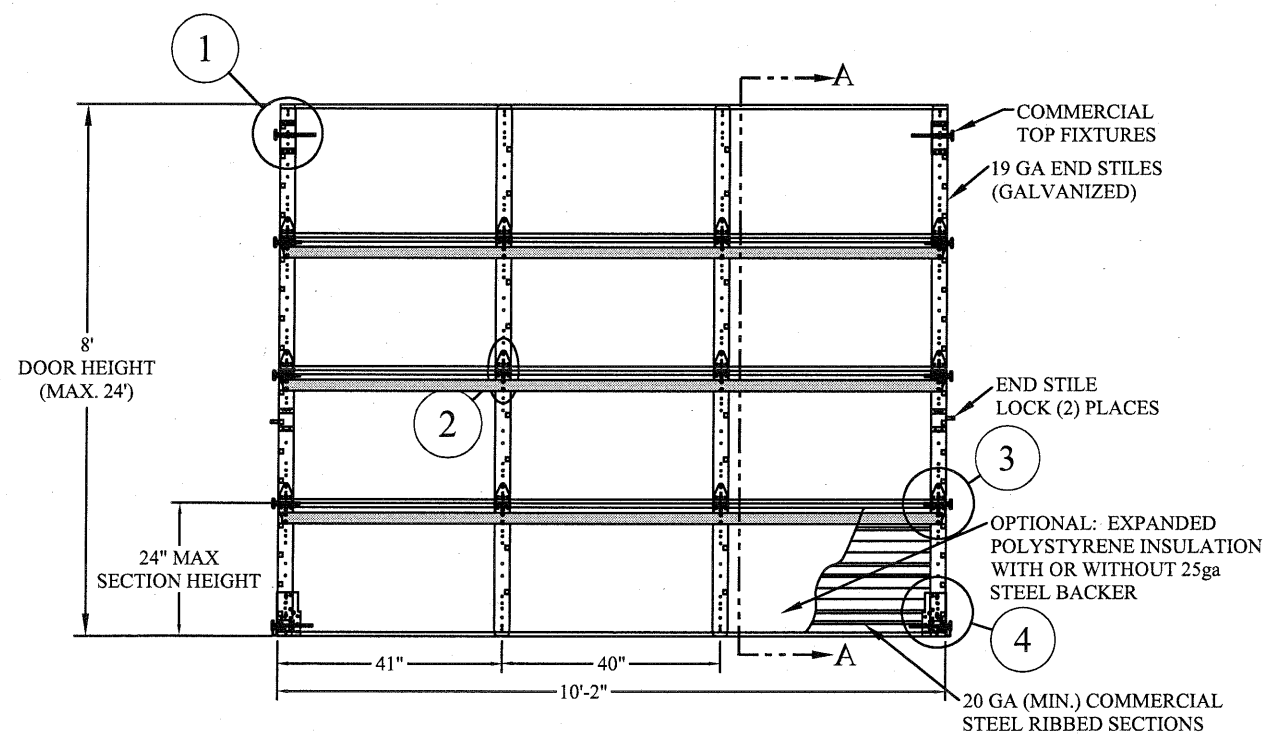
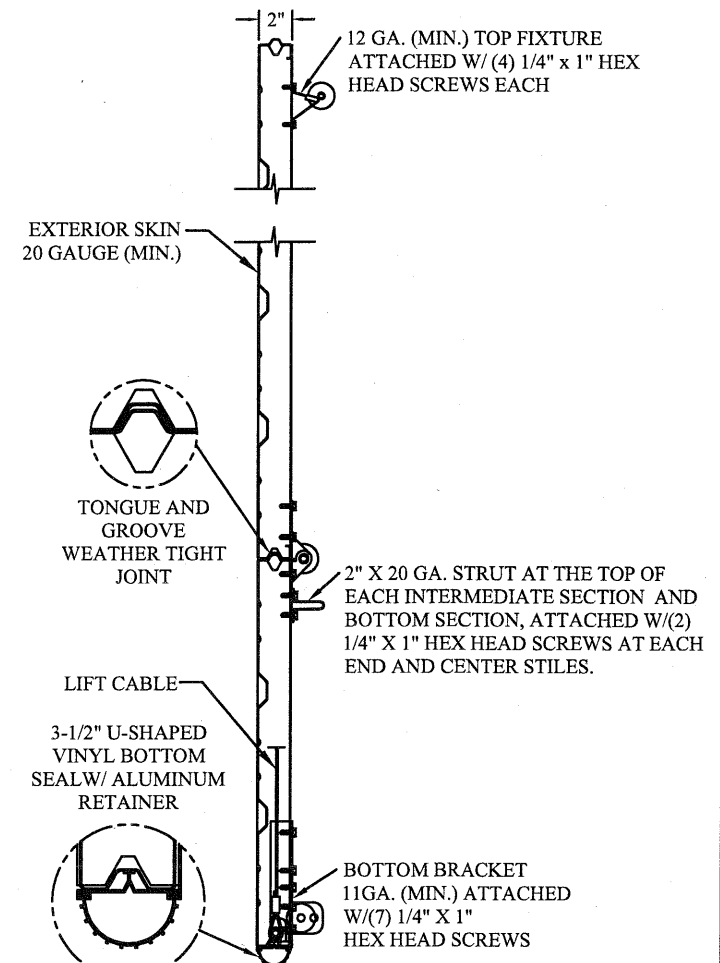
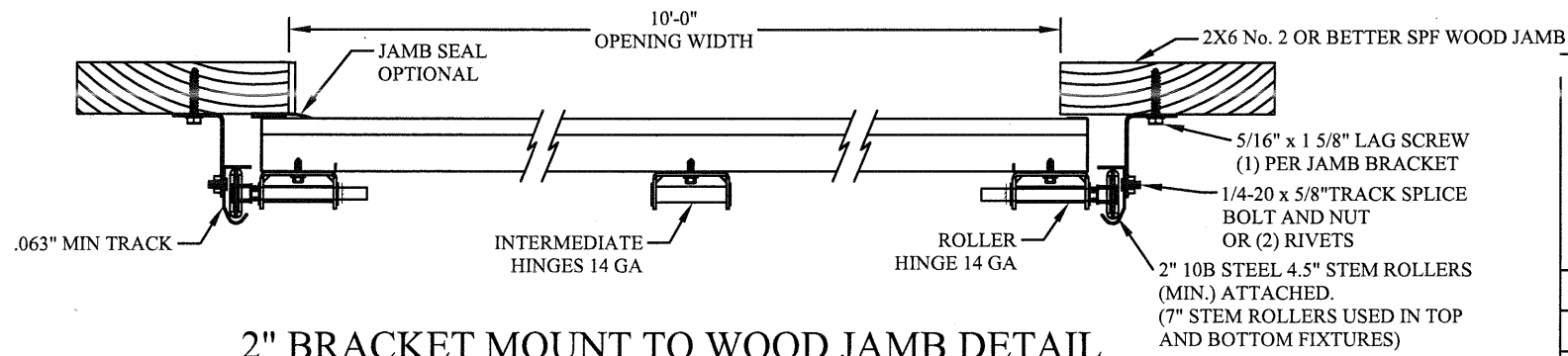
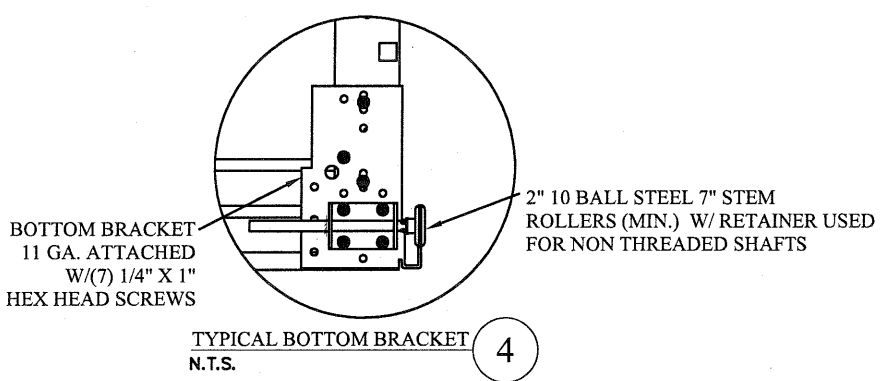
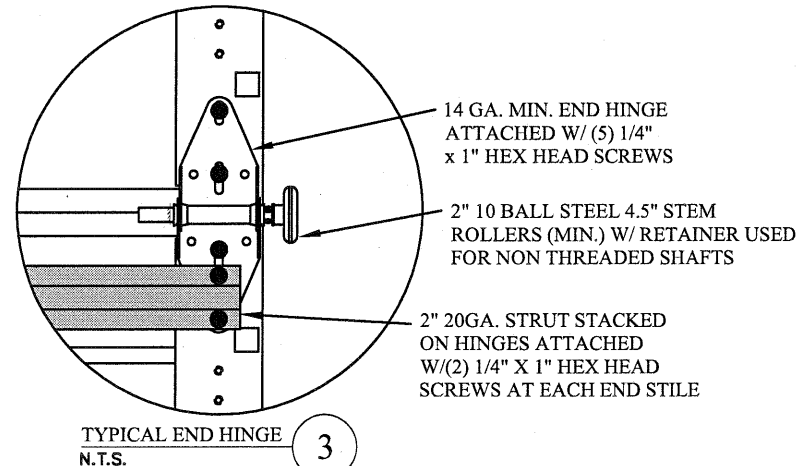




LARGE MISSILE IMPACT
RESISTANT



DOOR INTERIOR ELEVATION
N.T.S.



2" BRACKET MOUNT TO WOOD JAMB DETAIL

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108 & 115, ASTM E1886, E1996, & F588. 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
10'2" x 24'

DESIGN LOADS
+24.1 PSF
-28.1 PSF

TEST LOADS
+36.2 PSF
-42.2 PSF

LARGE MISSILE IMPACT RESISTANCE

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

FL

THOMAS L. SHELMERDINE
LICENSE
No. 48579
3/13/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

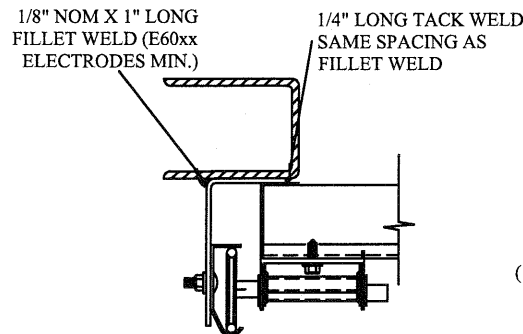
Amarr

MODEL 2000 AMARR 2002, 2012, 2022				
SIZE B	DRAWN BY RLR	DATE 3/26/19	DRAWING NUMBER IBC-2010-130-11-1	
	CHECKED BY RLR	DATE 3/26/19		
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105				
SHEET 1 OF 3				

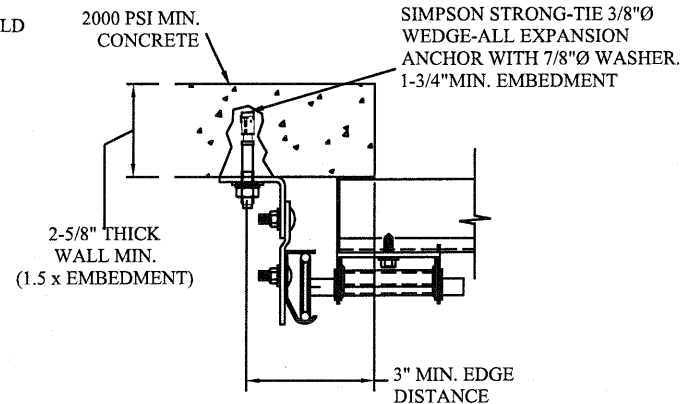
ITW BUILDDEX 1/4"-14 X 3/4"
SELF-TAPPING SCREWS
(TEKS)

12 GA. OR 3/16" STEEL
(SEE BELOW)

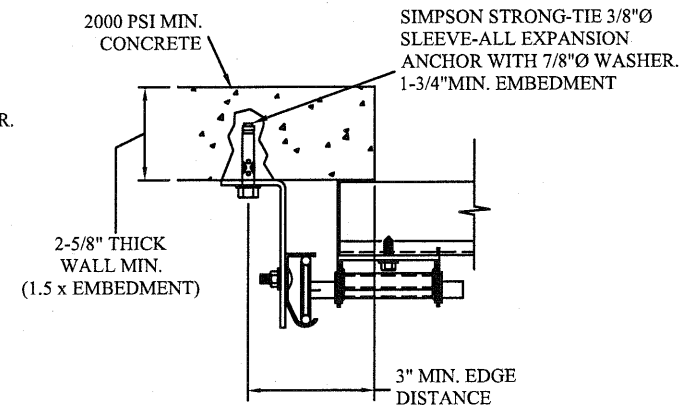
3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



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



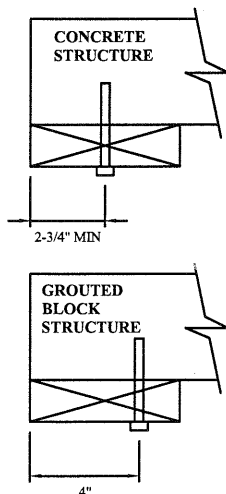
2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



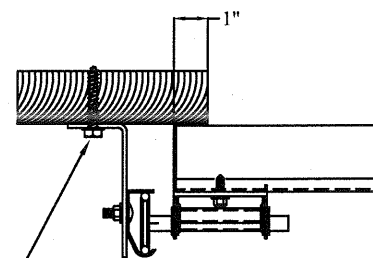
2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

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:
+122.5 LBS/FT AND -142.8 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 20 GA. (.033) MIN. EXTERIOR SKIN ROLLED FORMED, GALVANIZATION 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.

The top drawing, labeled "WOOD STRUCTURE", shows a cross-section of a wood frame. A vertical line represents the jamb, with a dimension of "1/2\" MIN" indicating the minimum width of the jamb. A horizontal dimension on the left indicates the "EMBEDMENT" depth. A label "2X6 JAMB TYP." points to the jamb. The bottom drawing, labeled "HOLLOW BLOCK STRUCTURE", shows a cross-section of a hollow block wall. Two vertical lines represent the jambs, with a dimension of "1-1/2\" MIN" indicating the minimum width of the jamb. A horizontal dimension at the bottom indicates a "3\" MIN" spacing between the jambs. A horizontal dimension on the left indicates the "EMBEDMENT" depth.

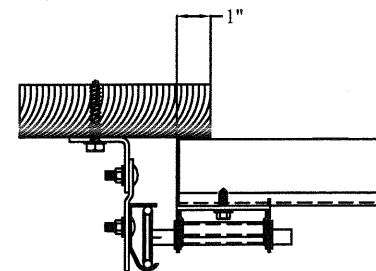


FOR LAG SCREWS & BRACKET SPACING SEE PAGE 3 FOR TRACK CONFIGURATION DETAIL

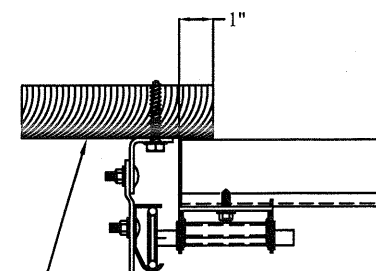


BRACKET MOUNT

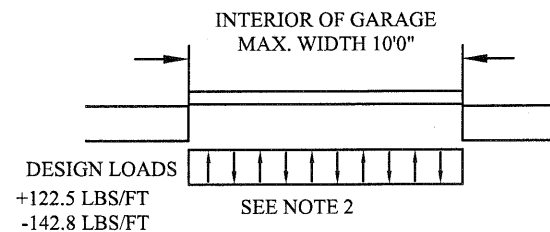
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

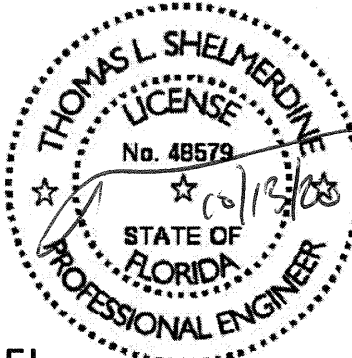


CONTINUOUS ANGLE MOUNT

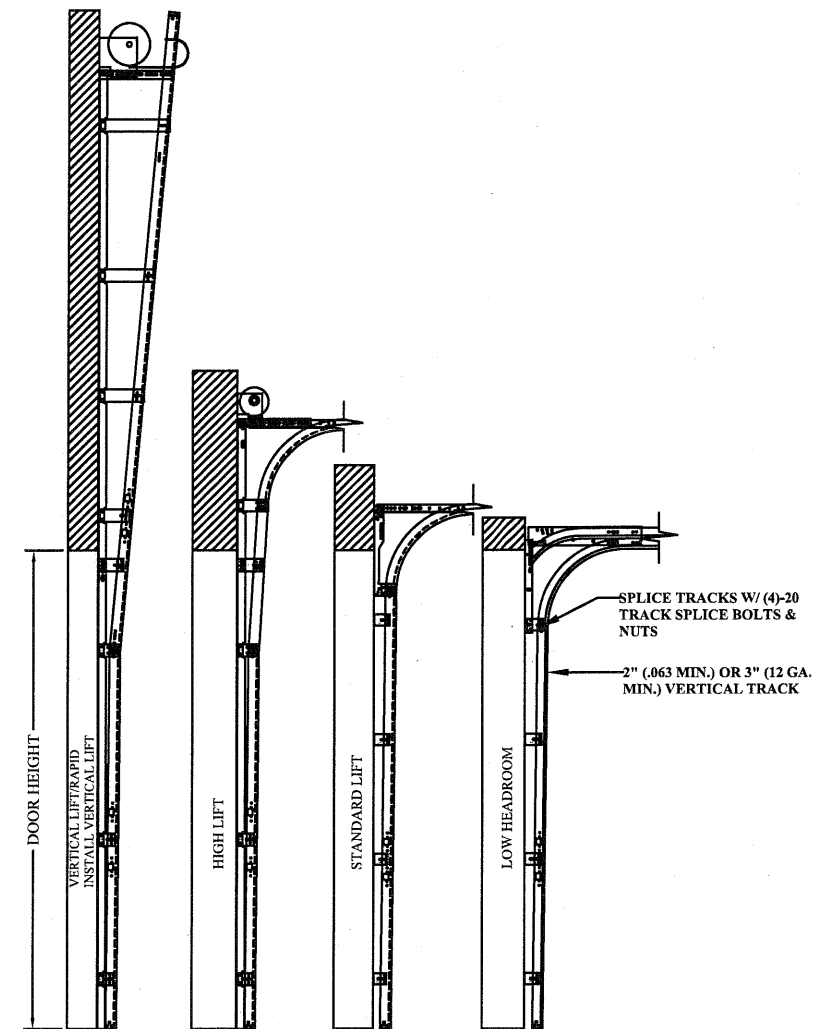
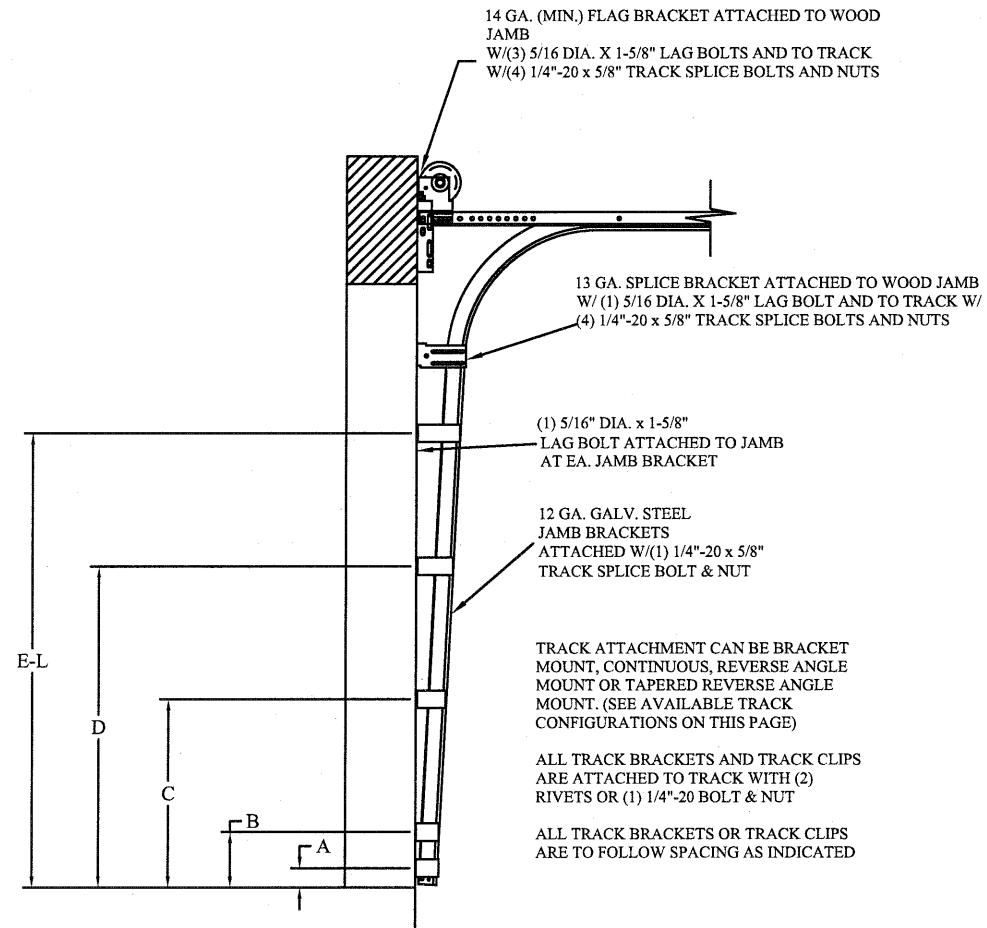


REVERSE ANGLE MOUNT



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2" x 24' DESIGN LOADS +24.1 PSF -28.1 PSF TEST LOADS +36.2 PSF -42.2 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 2000 AMARR 2002, 2012, 2022			
SIZE	DRAWN BY	R/LR	DATE 3/26/19
B	CHECKED BY	R/LR	DATE 3/26/19
ENTREMATIC			
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
SHEET 2 OF 3			

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	27.1	31.6
6'	2"	37"	-	26.3	30.7
6'	4"	38"	-	25.6	29.9
6'	6"	39"	-	25.0	29.1
6'	8"	40"	-	24.4	28.4
6'	10"	41"	-	23.8	27.7
7'	0"	42"	-	23.2	27.0
7'	2"	43"	-	22.6	26.4
7'	4"	44"	-	22.1	25.8
7'	6"	45"	-	21.6	25.2
7'	8"	46"	-	21.2	24.7
7'	10"	47"	-	20.7	24.2
8'	0"	48"	-	20.3	23.7
8'	2"	49"	-	19.9	23.2
8'	4"	50"	-	19.5	22.7
8'	6"	51"	-	19.1	22.3
8'	8"	52"	-	18.7	21.8
8'	10"	53"	-	18.4	21.4
9'	0"	54"	-	18.0	21.0
9'	2"	55"	-	17.7	20.6
9'	4"	36"	76"	25.5	29.7
9'	6"	37"	77"	25.2	29.4
9'	8"	38"	78"	24.9	29.0
9'	10"	39"	79"	24.5	28.6
10'	0"	40"	80"	24.2	28.3
10'	2"	41"	81"	24.1	28.1

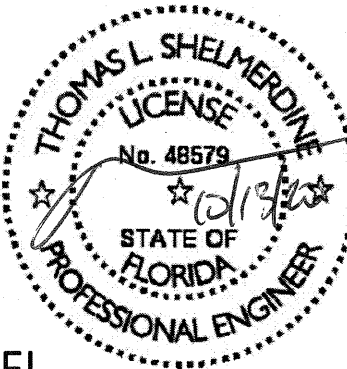


TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2

AVAILABLE TRACK CONFIGURATIONS
N.T.S.

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"

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 10'2" x 24' DESIGN LOADS +24.1 PSF -28.1 PSF TEST LOADS +36.2 PSF -42.2 PSF LARGE MISSILE IMPACT RESISTANCE	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	 Thomas L. Shelmerdine LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER	dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
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Amarr

MODEL 2000 AMARR 2002, 2012, 2022			
SIZE	DRAWN BY	RLR	DATE 3/26/19
B	CHECKED BY	RLR	DATE 3/26/19
ENTREMATICS			DRAWING NUMBER
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			IBC-2010-130-11-1
			SHEET 3 OF 3