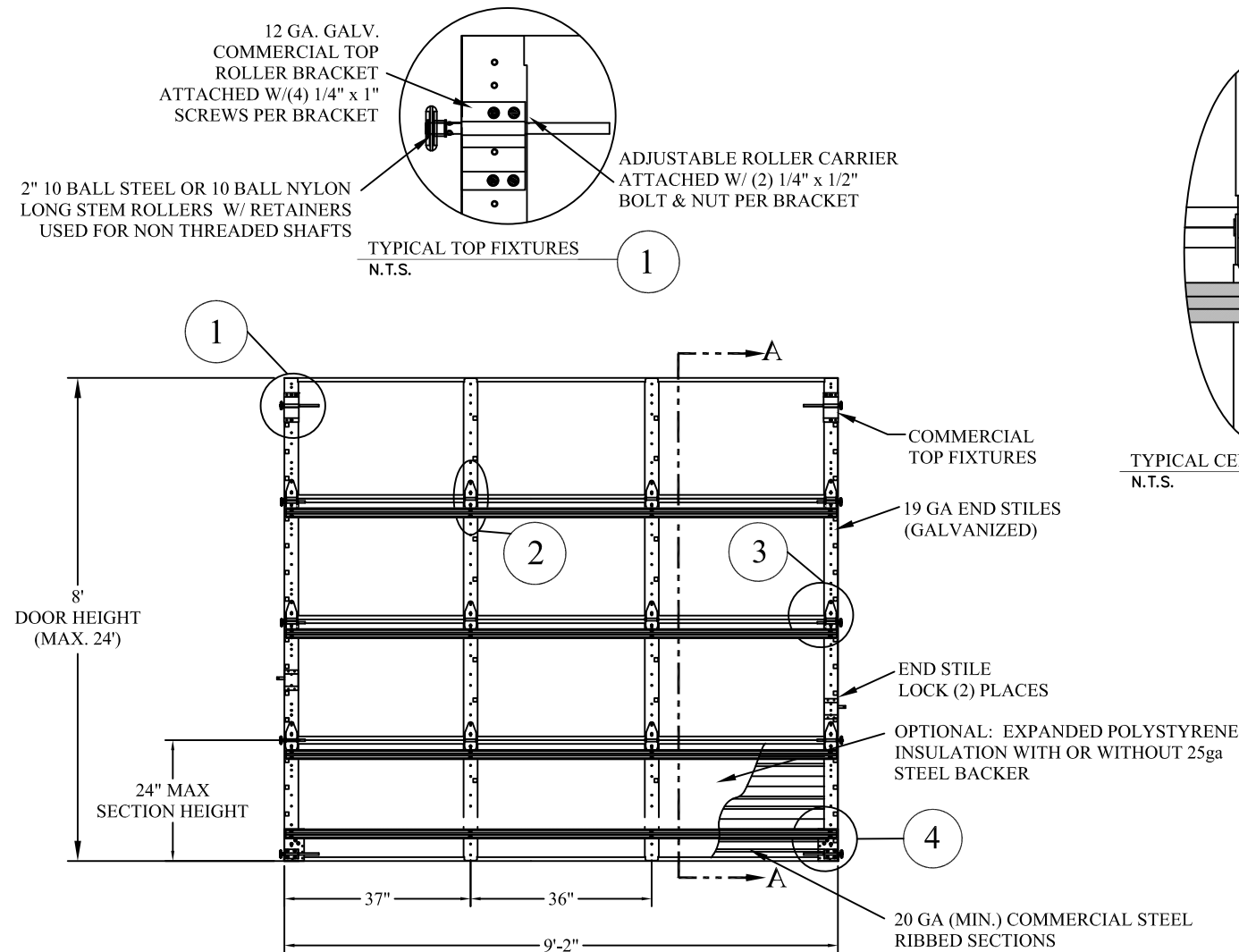
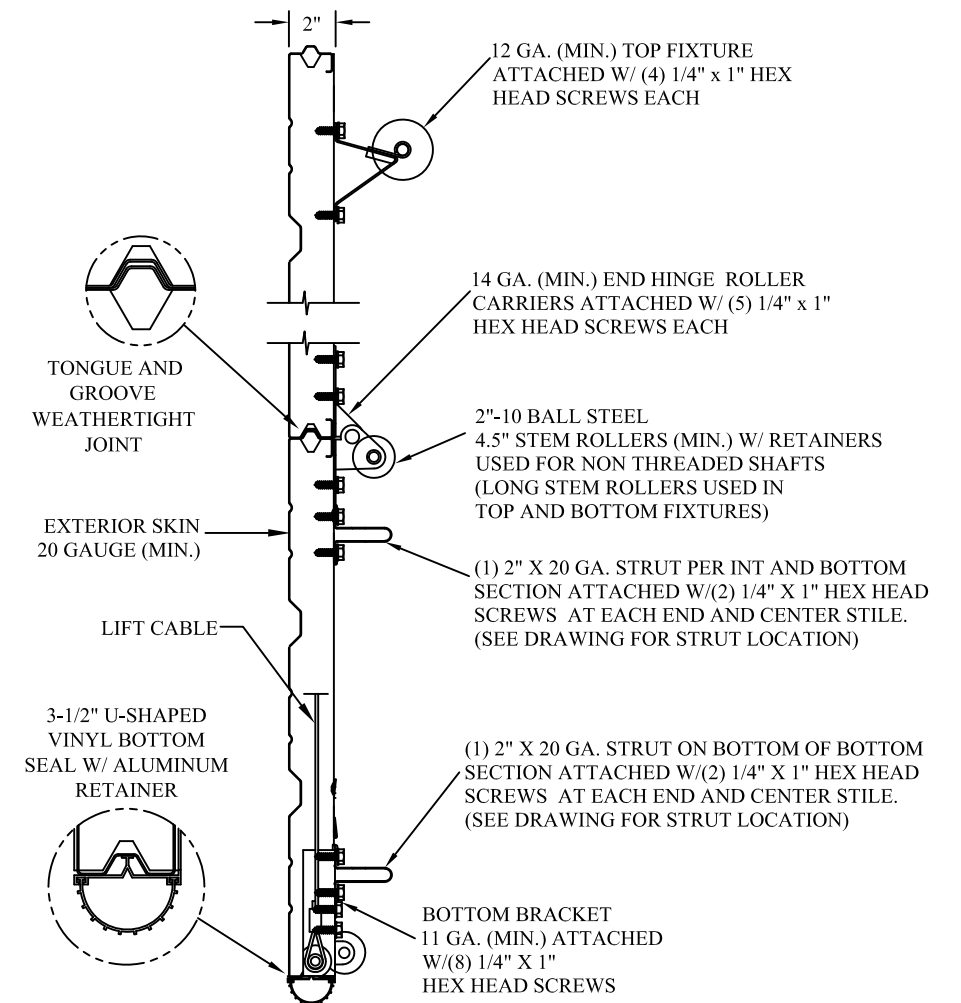
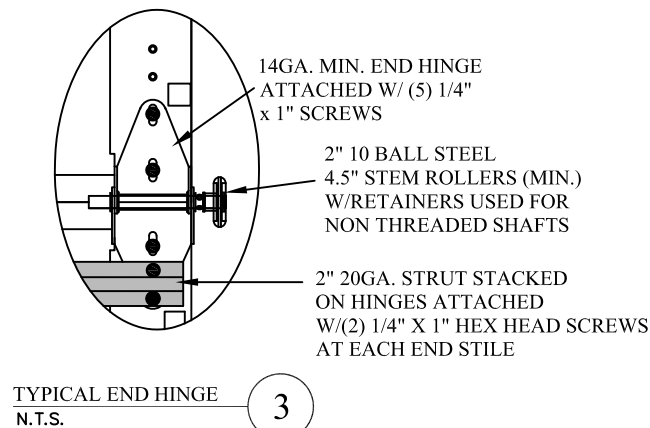
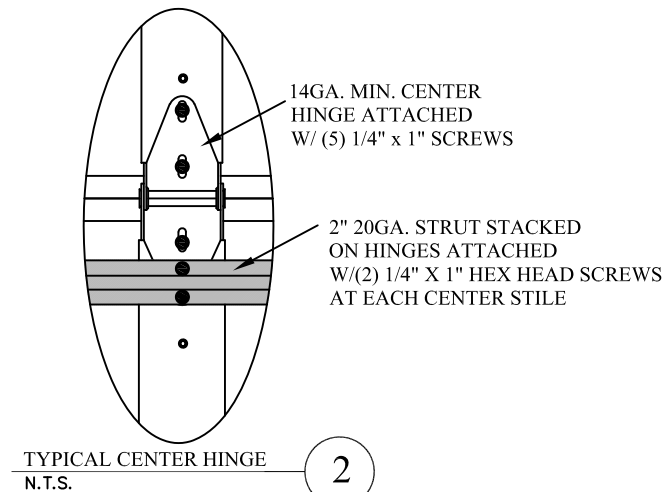
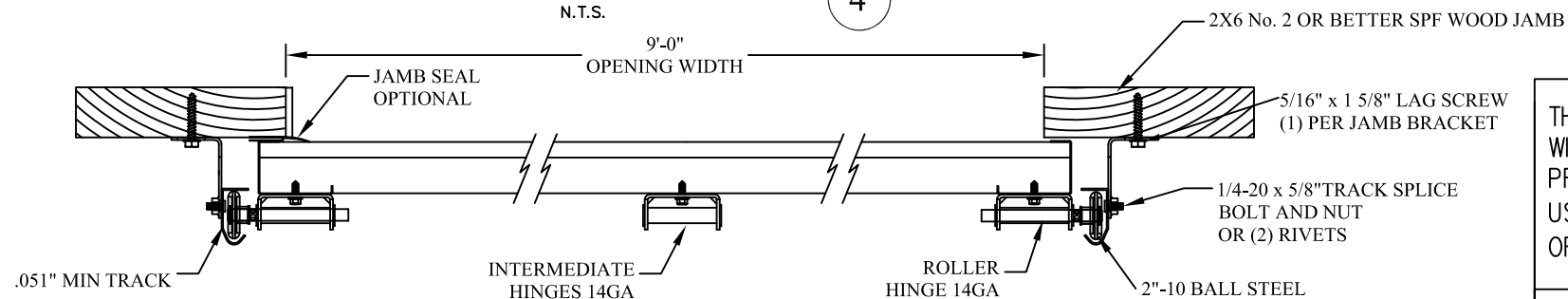
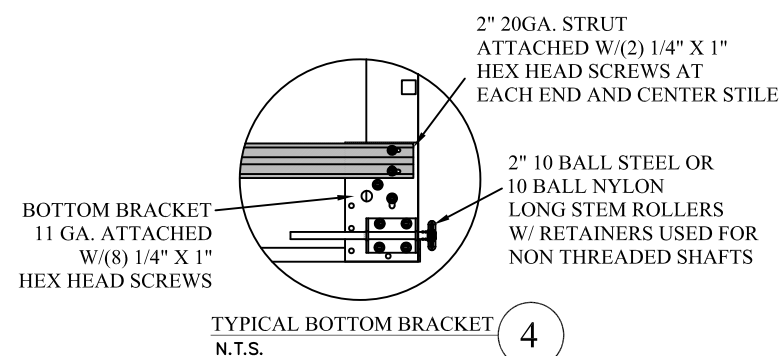




DOOR INTERIOR ELEVATION
N.T.S.



STEEL SECTION PROFILE



2" BRACKET MOUNT TO WOOD JAMB DETAIL

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)	195	177	168	161	154
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 9'2" x 24'

DESIGN LOADS +32.7 PSF -38.4 PSF

TEST LOADS +49.1 PSF -57.6 PSF

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

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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

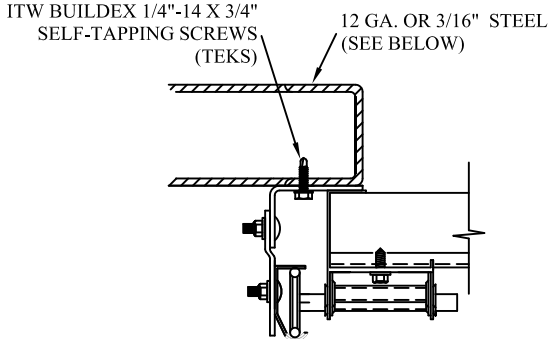
FL

Amarr

AMARR 2002, 2012, 2022

SIZE	DRAWN BY	RLR	DATE	1/19/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	1/19/17	IBC-2009-150-11
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 4

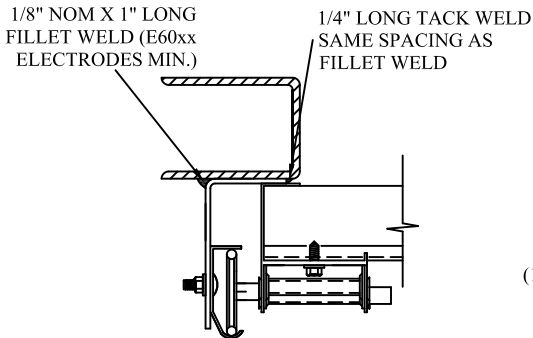
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

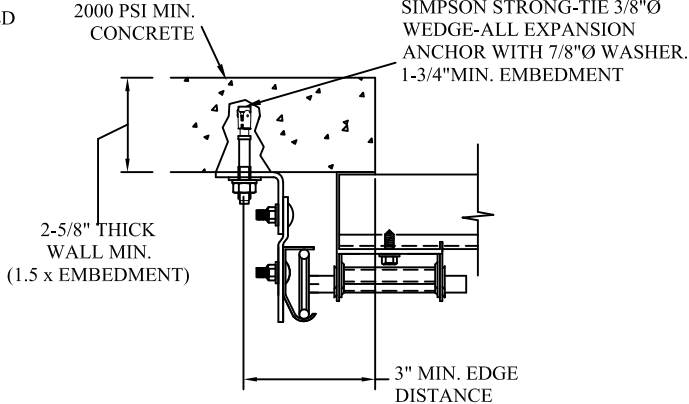
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 18" O.C.
REFER TO NOTES: 1, 2 AND 5

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



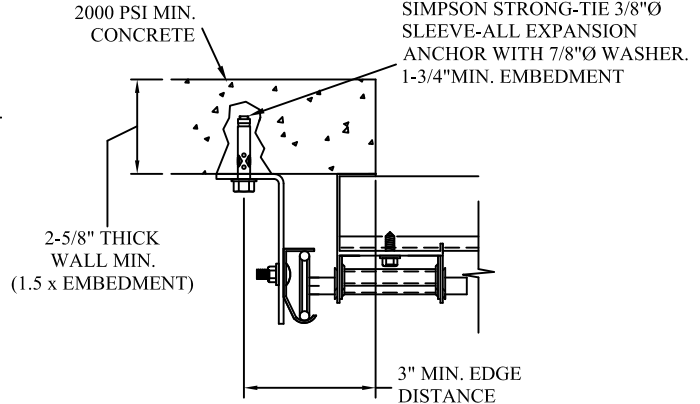
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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:
+149.9 LBS/FT AND -176.0 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. DOORS UP TO 24' HIGH USE (1) 2" 20GA STRUT PER INTERMEDIATE SECTION AND (2) 2" 20GA STRUTS ON 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.

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 24" O.C. (1 1/2" EMBEDMENT)

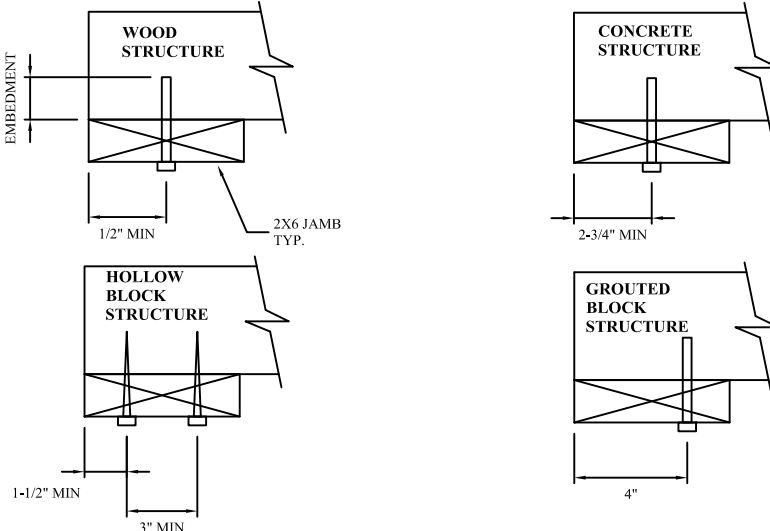
**HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS ST
(3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)**

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)**

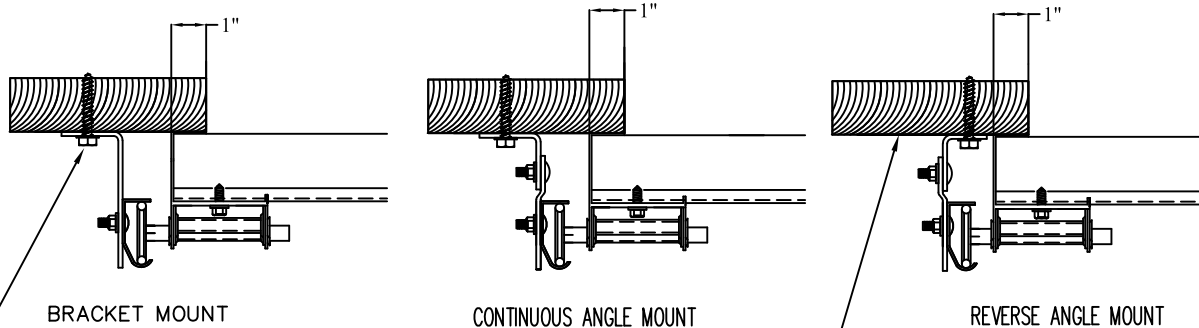
***LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.**

*PREPARATION OF WOOD JAMBS BY OTHERS



TRACK CONNECTION TO WOOD JAMB OPTIONS

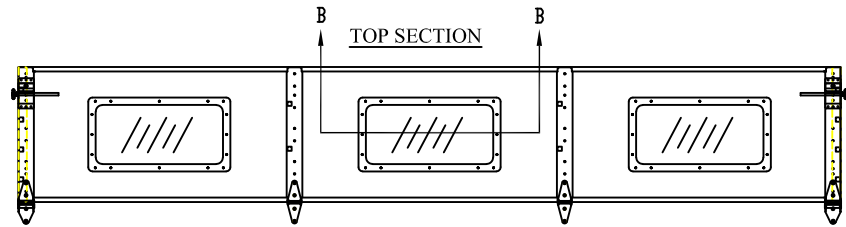
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL



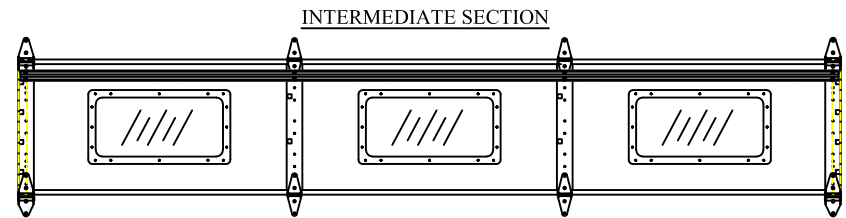
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

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

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF		 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 2002, 2012, 2022			
SIZE	DRAWN BY	RLR	DATE 1/19/17
B	CHECKED BY	RLR	DATE 1/19/17
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2009-150-11 SHEET 2 OF 4

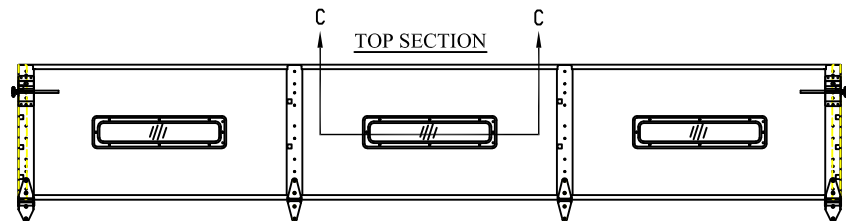


TOP SECTION

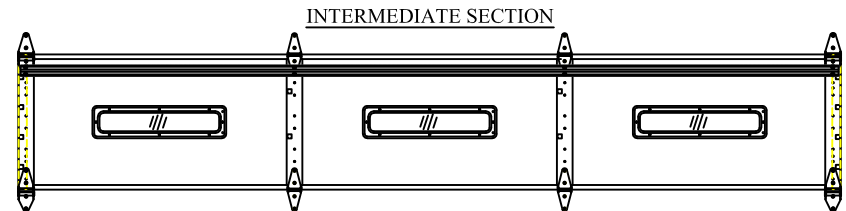


INTERMEDIATE SECTION

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

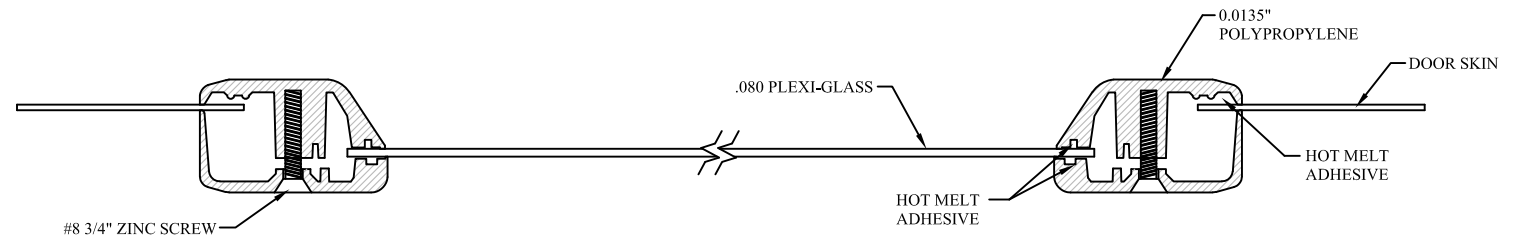


TOP SECTION

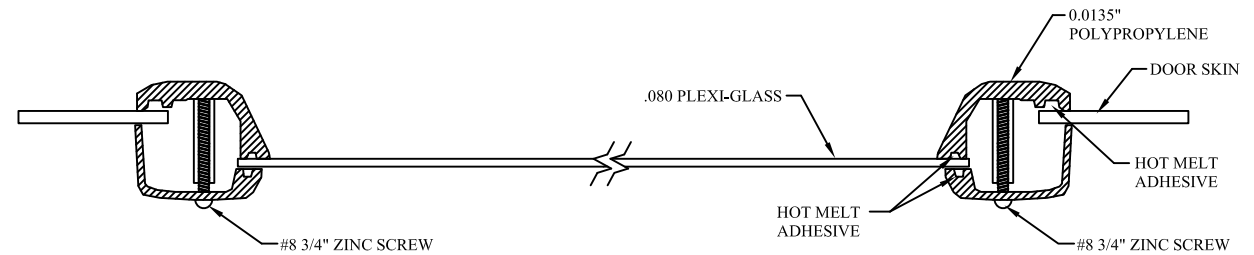


INTERMEDIATE SECTION

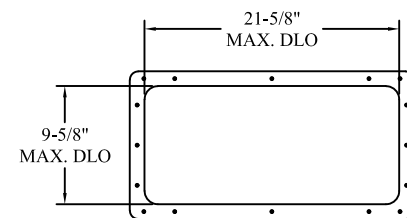
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS AND STRUT LAYOUT
N.T.S.



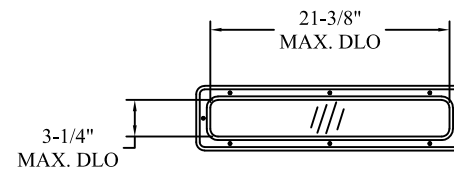
SECTION B-B 24" X 12" WINDOW DETAIL W/ .080 PLEXI-GLASS
N.T.S.



SECTION C-C 24" X 6" WINDOW DETAIL W/ .080 PLEXI-GLASS
N.T.S. (ALSO AVAILABLE WITH 1/8" DSB GLASS)



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

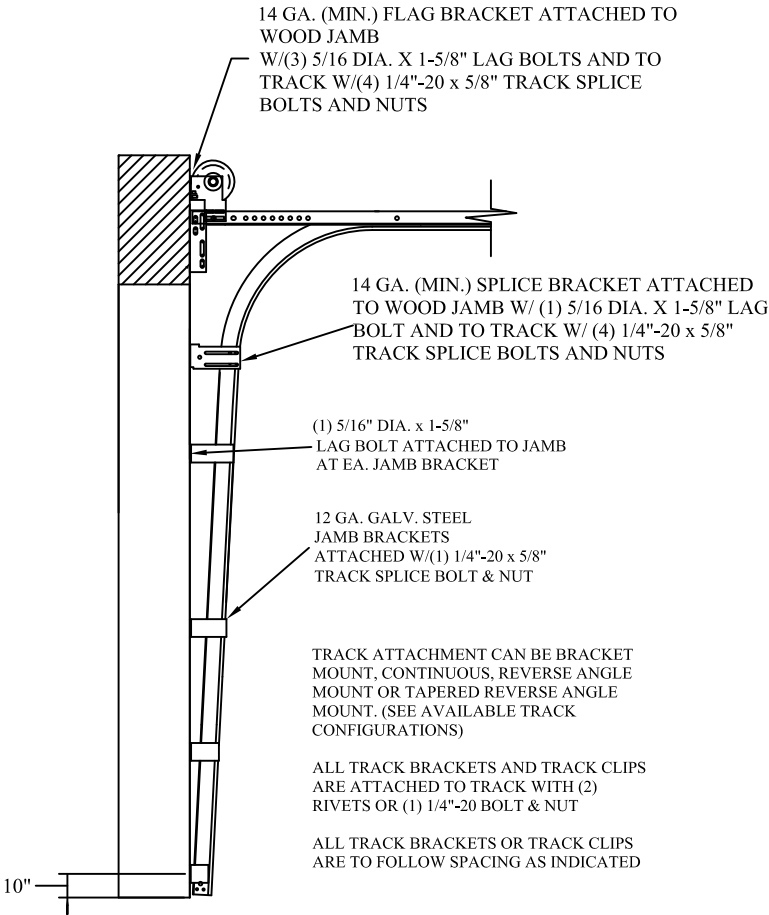


24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

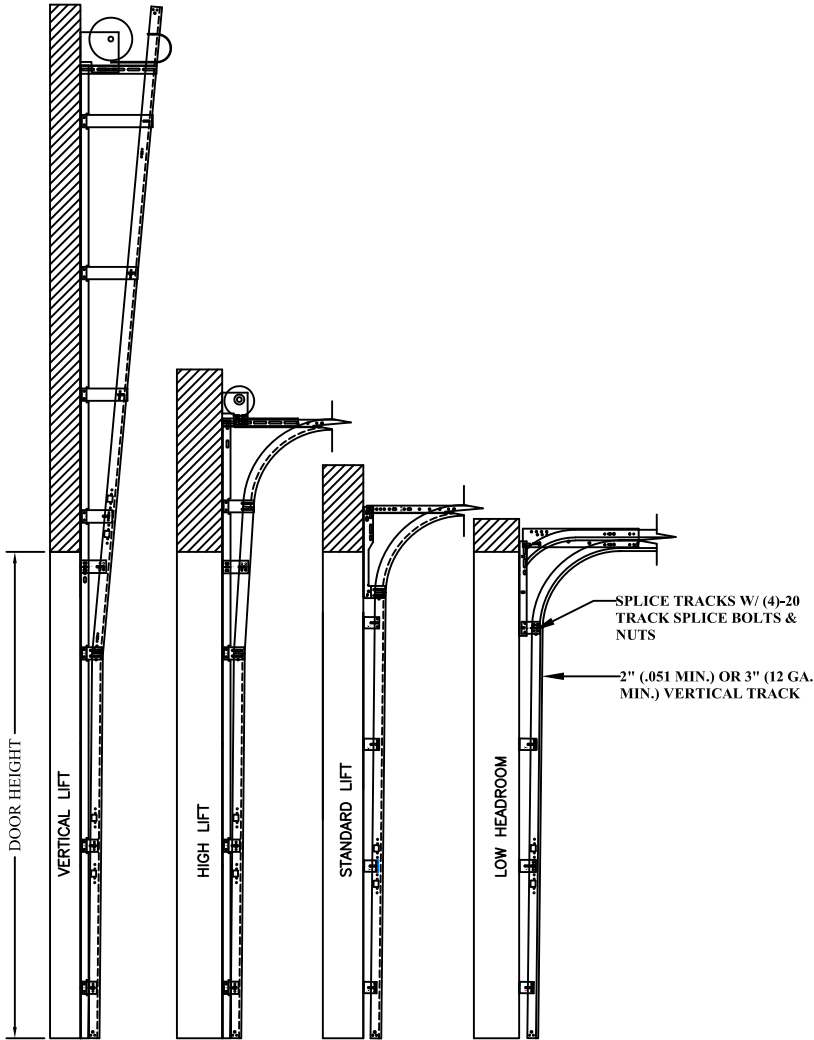
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2 x 24' DESIGN LOADS +32.7 PSF -38.4 PSF TEST LOADS +49.1 PSF -57.6 PSF THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER See Digital Signature Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410 FL		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.	
Amarr AMARR 2002, 2012, 2022			
SIZE	DRAWN BY	RLR	DATE 1/19/17
B	CHECKED BY	RLR	DATE 1/19/17
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2009-150-11 SHEET 3 OF 4

TABLE 1

Section	Center Stile Locations		Max Design Loads Allowed	
	Width (ft)	1st (in)	2nd (in)	
			Positive (PSF)	Negative (PSF)
6'0	36"		33.1	38.9
6'2	37"		32.2	37.8
6'4	23"	53"	45.0	52.8
6'6	24"	54"	44.2	51.9
6'8	25"	55"	43.4	50.9
6'10	26"	56"	42.6	50.0
7'0	27"	57"	41.8	49.1
7'2	28"	58"	41.1	48.3
7'4	27"	61"	39.1	45.9
7'6	28"	62"	38.5	45.2
7'8	29"	63"	37.8	44.4
7'10	30"	64"	37.2	43.8
8'0	31"	65"	36.7	43.1
8'2	32"	66"	36.1	42.4
8'4	32"	68"	35.1	41.2
8'6	33"	69"	34.5	40.6
8'8	34"	70"	34.1	40.0
8'10	35"	71"	33.6	39.4
9'0	36"	72"	33.1	38.9
9'2	37"	73"	32.7	38.4



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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 3

SECTION	
TOP	
11TH	2"
10TH	2"
9TH	2"
8TH	2"
7TH	2"
6TH	2"
5TH	2"
4TH	2"
3RD	2"
2ND	2"
BTM	2"

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	W
7'	0"	10"	22"	34"	46"	58"																		76"
7'	6"	10"	22"	34"	46"	58"																		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.

REVDESCRIPTION OF REVISIONSDATEBY

MAX SIZE
9'2 x 24'

DESIGN LOADS
+32.7 PSF
-38.4 PSF

TEST LOADS
+49.1 PSF
-57.6 PSF

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RLR

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SHEET 4 OF 4