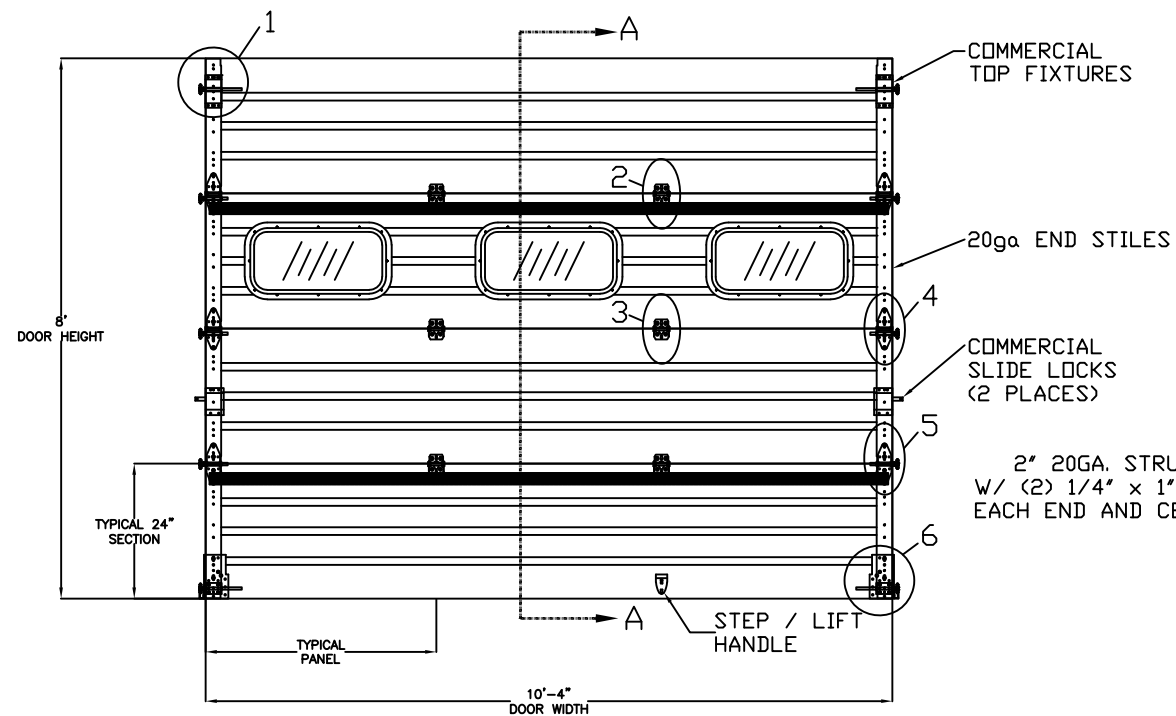
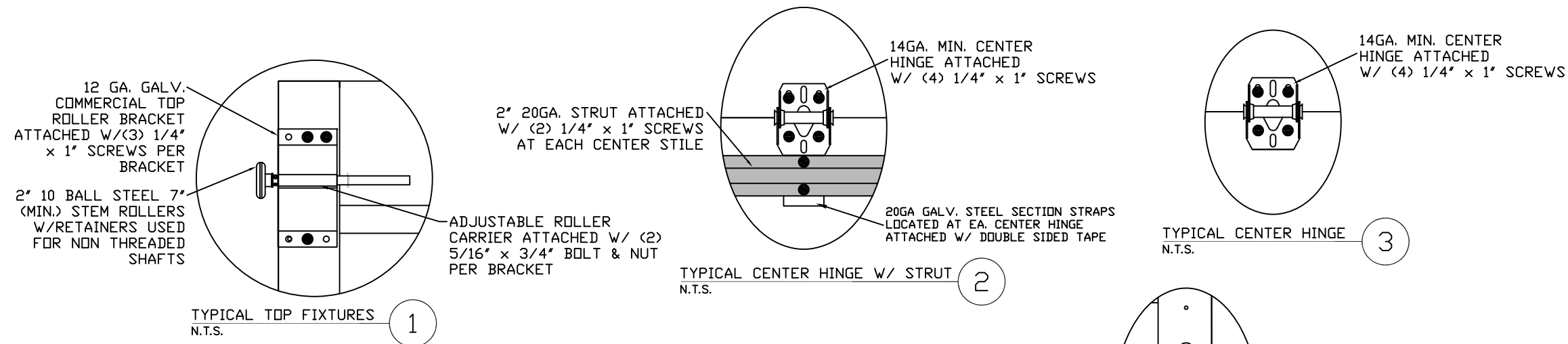
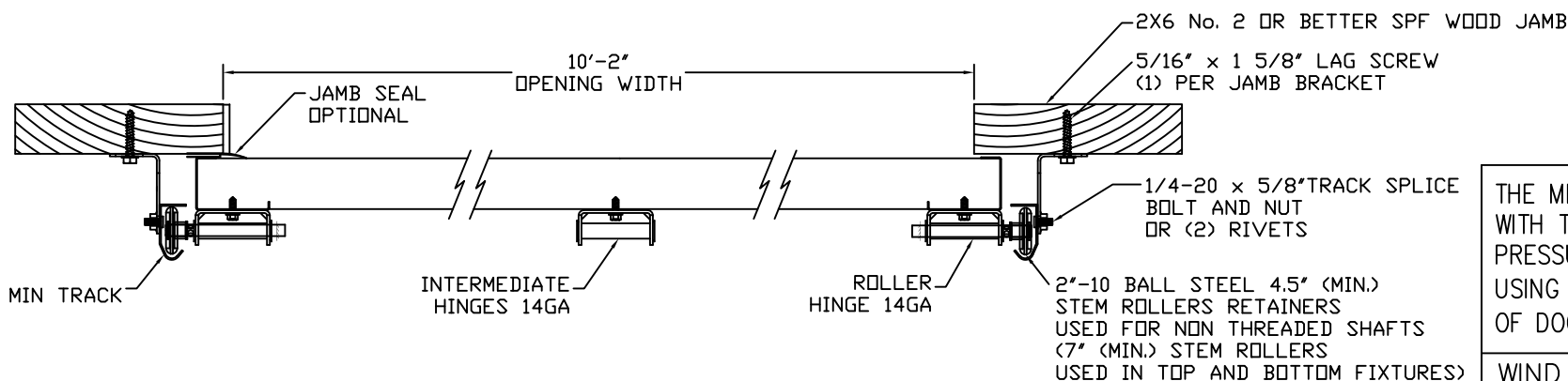
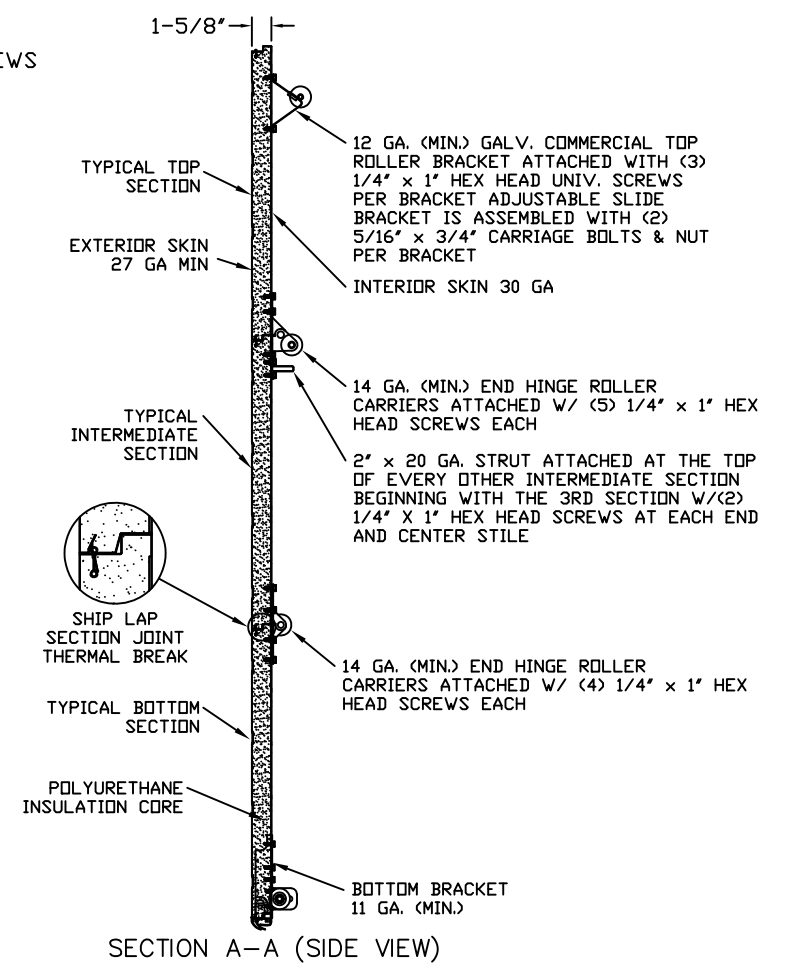




DOOR INTERIOR ELEVATION
N.T.S.



2" BRACKET MOUNT TO WOOD JAMB DETAIL
N.T.S.

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)	172	156	149	142	136
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 10'4" x 24'	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. Digitally signed by Thomas L. Shelmerdine DN: c=US, o=North Carolina, dnQualifier=A01410D000001856487A7, 8100125CE2, cn=Thomas L. Shelmerdine Date: 2023.10.05 07:31:50 -04'00' Thomas L. Shelmerdine 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
DESIGN LOADS +25.3 PSF -29.4 PSF	
TEST LOADS +38.0 PSF -44.1 PSF	

Amarr

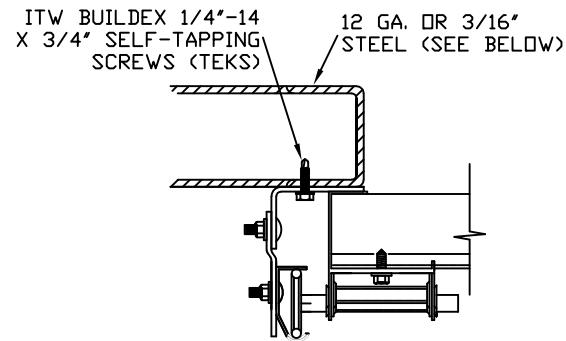
AMARR 2747

SIZE B	DRAWN BY DRC	DATE 10/12/22	DRAWING NUMBER IBC-4710-133-11
	CHECKED BY RLR	DATE 01/12/22	

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

SHEET 1 OF 4

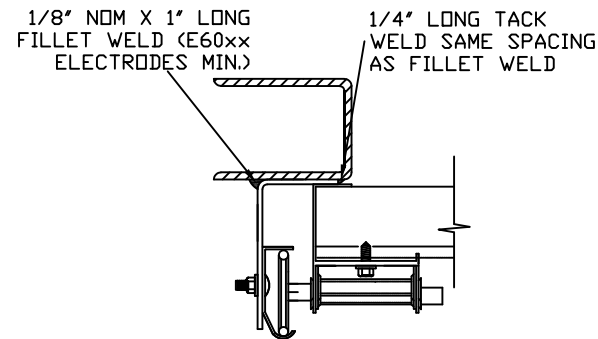
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

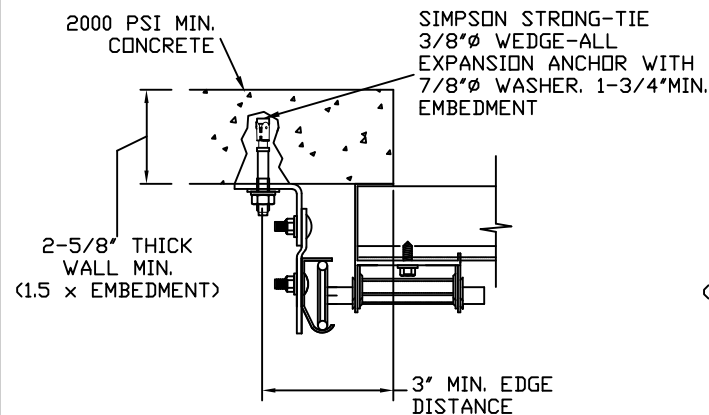
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 20" O.C.
REFER TO NOTES: 1, 2 AND 5

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



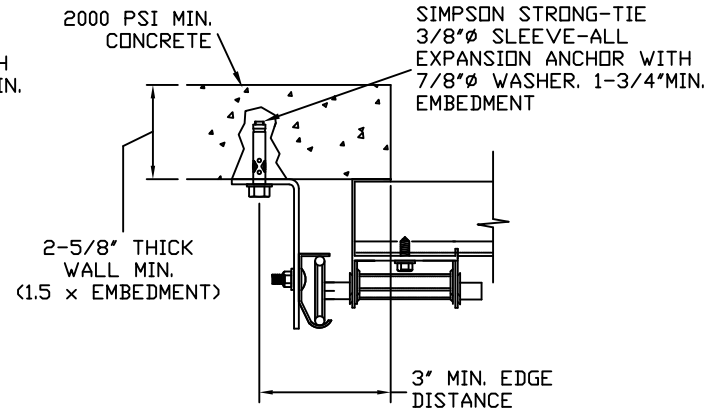
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

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

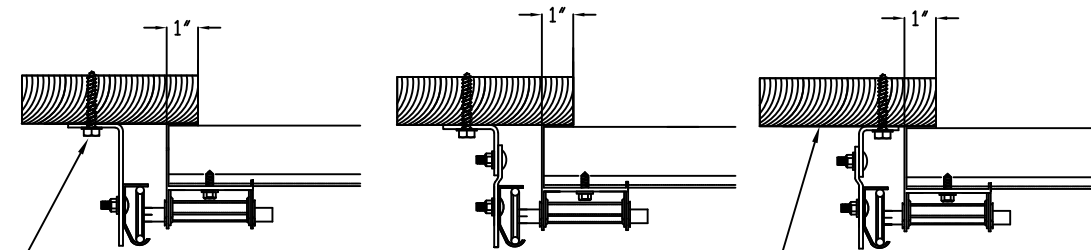


CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

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

TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE 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.)

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.

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

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

SIMPSON 1/4" X 3" TIEN SCREWS 5
USE PAIRS OF FASTENERS (3" APART)

USE PAIRS OF FASTENERS (3" APART)
AT 24" O.C. (1 1/2" EMBEDMENT)

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

HILTI 1/4" X 2-3/4" KWIK-CON II[®] SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)

USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)
3 X 6 VERTICAL LAMB ATTACHMENT TO CROUTED C-80 BLOCK (2000 PSI CROUT)

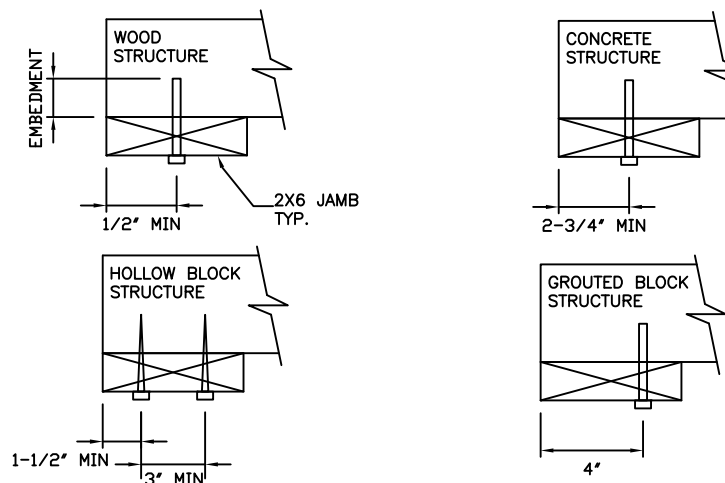
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C=90 BLOCK (MULTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS

HILT SLEEVE ANCHOR 3/8" X 2-3/4"
THEN 34" O.C. (1 1/4" EMBEDMENT)

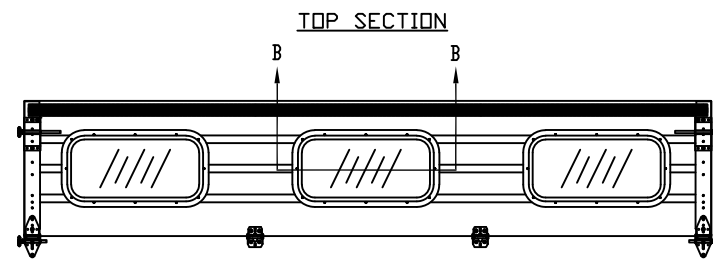
THEN 24" O.C. (1 1/4" EMBEDMENT)
(OR USE FASTENERS FOR HOLLOW C-80 BLOCK)

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

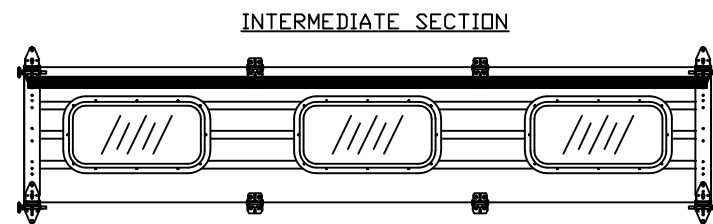
*LAGS AND BOLTS CAN BE COUNTERSUNK TO
*PREPARATION OF WOOD JAMBS BY OTHERS



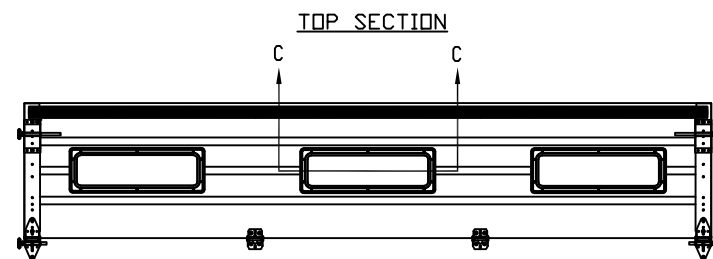
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'4 x 24' DESIGN LOADS +25.3 PSF -29.4 PSF TEST LOADS +38.0 PSF -44.1 PSF	 Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	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.	
FL			
<i>Amarr</i>			
AMARR 2747			
SIZE	DRAWN BY DRC	DATE 10/12/22	DRAWING NUMBER
B	CHECKED BY RLR	DATE 01/12/22	IBC-4710-133-11
AMARR COMPANY			SHEET 2 OF 4
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			



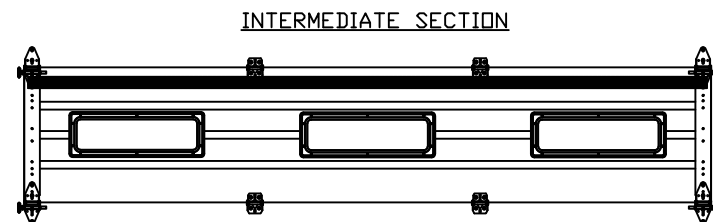
OPTIONAL GLAZED SECTION W/ 26' X 13' WINDOWS
N.T.S.



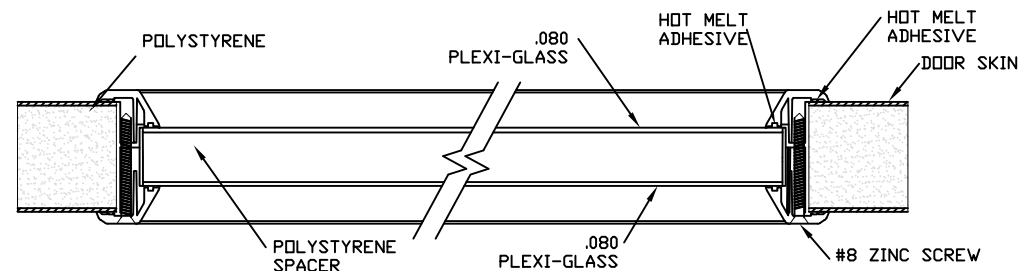
OPTIONAL GLAZED SECTION W/ 26' X 13' WINDOWS
N.T.S.



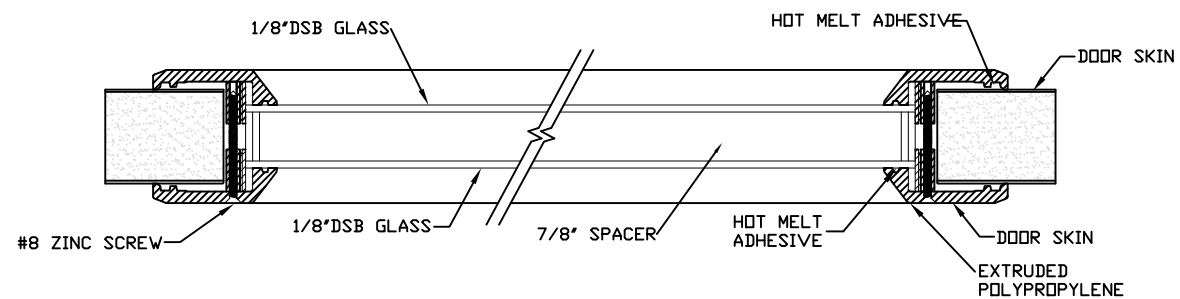
OPTIONAL GLAZED SECTION W/ 24' X 8' WINDOWS
N.T.S.



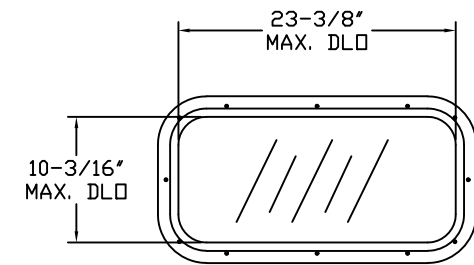
OPTIONAL GLAZED SECTION W/ 24' X 8' WINDOWS
N.T.S.



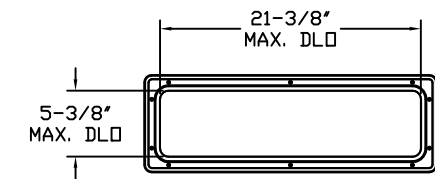
SECTION B-B 26' X 13' WINDOW DETAIL W/ INSULATED PLEXI-GLASS
N.T.S.



SECTION C-C 24' X 8' WINDOW DETAIL W/ INSULATED GLASS
N.T.S.



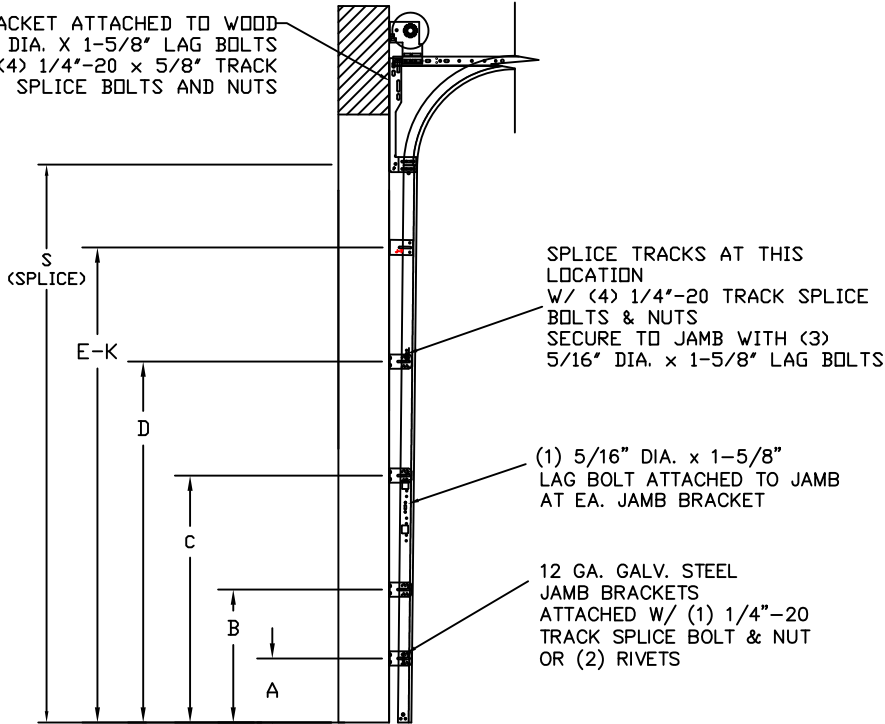
26' X 13' DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



24' X 8' DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

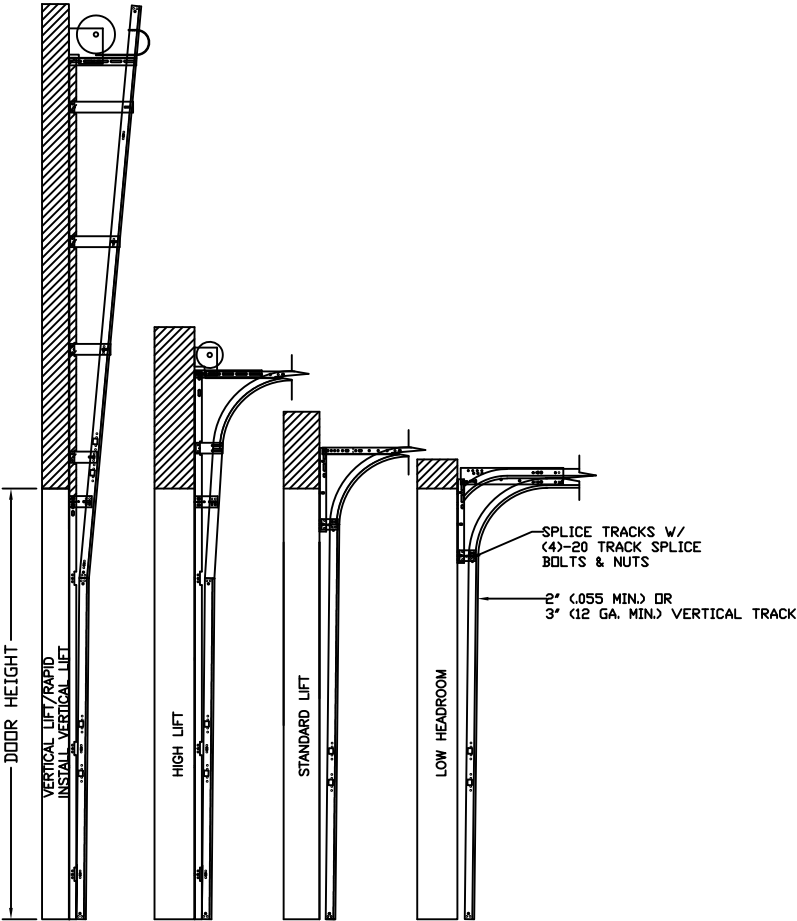
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'4 x 24' DESIGN LOADS +25.3 PSF -29.4 PSF TEST LOADS +38.0 PSF -44.1 PSF THOMAS L. SHELMERDINE LICENSE No. 48579 See Digital Signature STATE OF FLORIDA PROFESSIONAL ENGINEER Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) 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.	
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SIZE	DRAWN BY DRC	DATE 10/12/22	DRAWING NUMBER
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

14 GA. FLAG BRACKET ATTACHED TO WOOD JAMB W/ (3) 5/16 DIA. X 1-5/8" LAG BOLTS AND TO TRACK W/ (4) 1/4"-20 X 5/8" TRACK SPLICE BOLTS AND NUTS



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
N.T.S.

SEE TABLE 2 FOR TRACK ATTACHMENT SPACING



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT												TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	L	
7'	0"	10"	34"	58"										76"
7'	6"	10"	34"	58"										82"
8'	0"	10"	34"	58"	82"									88"
8'	6"	10"	34"	58"	82"									94"
9'	0"	10"	34"	58"	82"									100"
9'	6"	10"	34"	58"	82"									106"
10'	0"	10"	34"	58"	82"	106"								112"
11'	0"	10"	34"	58"	82"	106"								124"
12'	0"	10"	34"	58"	82"	106"	130"							136"
13'	0"	10"	34"	58"	82"	106"	130"							148"
14'	0"	10"	34"	58"	82"	106"	130"	154"						160"
15'	0"	10"	34"	58"	82"	106"	130"	154"						172"
16'	0"	10"	34"	58"	82"	106"	130"	154"	178"					184"
17'	0"	10"	34"	58"	82"	106"	130"	154"	178"					196"
18'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"				208"
19'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"				220"
20'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"			232"
21'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"			244"
22'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"		256"
23'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"		268"
24'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	274"	280"

ALL TRACK ATTACHMENT SPACING +/-2' ALLOWED WITH SPF OR SYP NO. 2 OR BETTER ONLY

TABLE 1

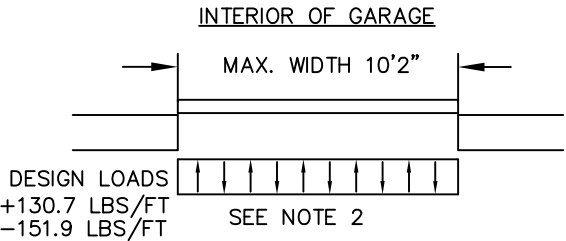
Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	28.8	33.4
6'	2"	37"	-	28.0	32.5
6'	4"	38"	-	27.2	31.7
6'	6"	39"	-	26.5	30.9
6'	8"	40"	-	25.9	30.1
6'	10"	41"	-	25.3	29.4
7'	0"	42"	-	24.6	28.7
7'	2"	43"	-	24.1	28.0
7'	4"	44"	-	23.5	27.3
7'	6"	45"	-	23.0	26.7
7'	8"	46"	-	22.5	26.2
7'	10"	47"	-	22.0	25.6
8'	0"	48"	-	21.6	25.1
8'	2"	49"	-	21.1	24.6
8'	4"	50"	-	20.7	24.1
8'	6"	51"	-	20.3	23.6
8'	8"	52"	-	19.9	23.1
8'	10"	53"	-	19.5	22.7
9'	0"	54"	-	19.2	22.3
9'	2"	37"	73"	28.4	33.0
9'	4"	36"	76"	27.1	31.5
9'	6"	37"	77"	26.8	31.1
9'	8"	38"	78"	26.4	30.7
9'	10"	39"	79"	26.1	30.3
10'	0"	40"	80"	25.8	29.9
10'	2"	41"	81"	25.4	29.6
10'	4"	41"	81"	25.3	29.4

TABLE 3

SECTION	
TOP	
7TH	2"
6TH	
5TH	2"
4TH	
3RD	2"
2ND	
BOTTOM	2"

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: +130.7 LBS/FT & -151.9 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) 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.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
10'4 x 24'

DESIGN LOADS
+25.3 PSF
-29.4 PSF

TEST LOADS
+38.0 PSF
-44.1 PSF

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

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Thomas L. Shelderdine, 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

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B	CHECKED BY	RLR	DATE	01/12/22	IBC-4710-133-11
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