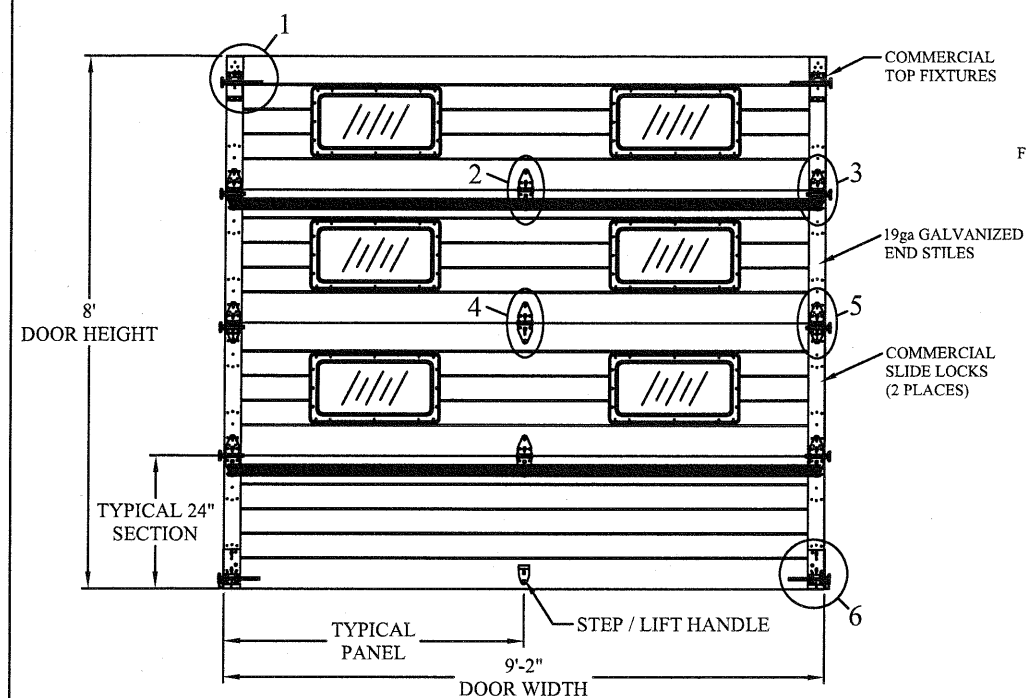
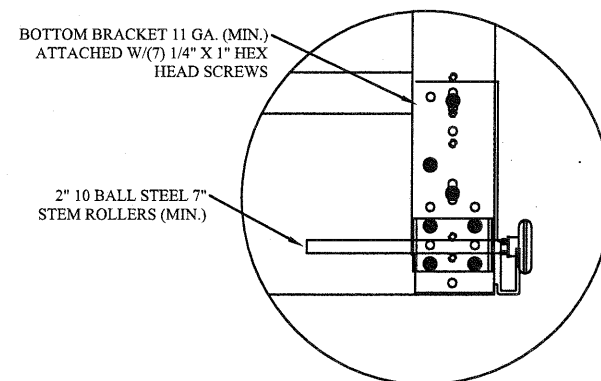
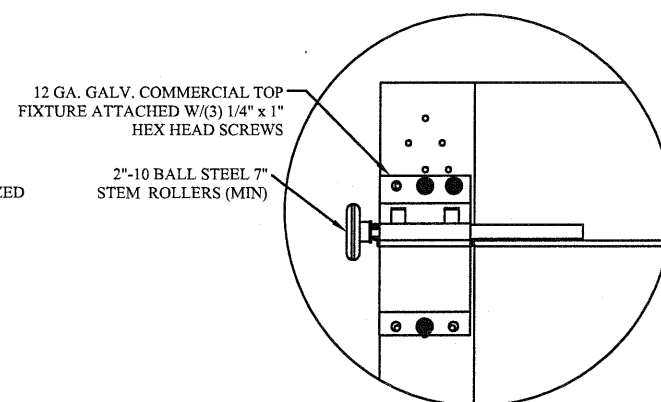




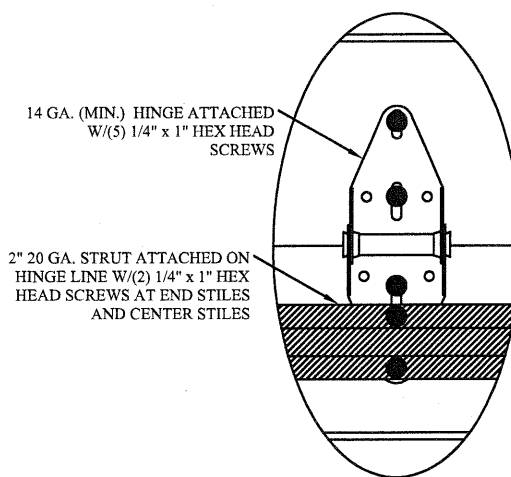
DOOR INTERIOR ELEVATION



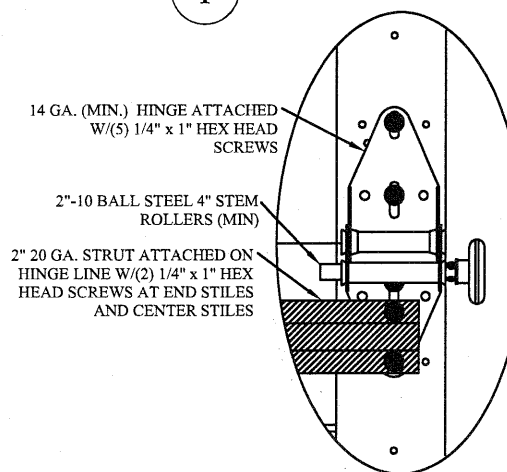
TYPICAL BOTTOM BRACKET
N.T.S.



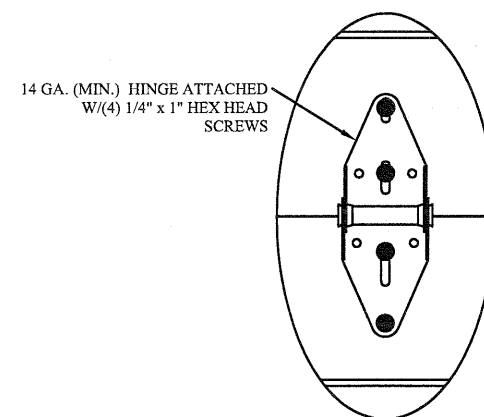
TYPICAL TOP FIXTURES
N.T.S.



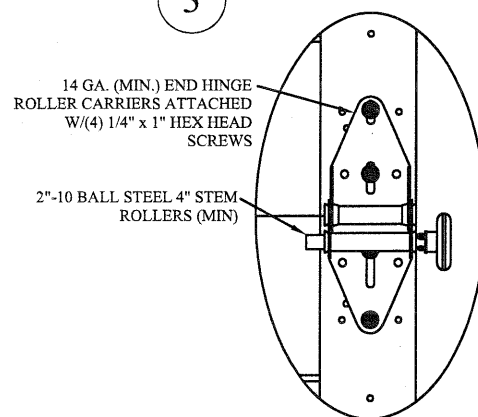
TYPICAL CENTER HINGE, ODD
N.T.S.



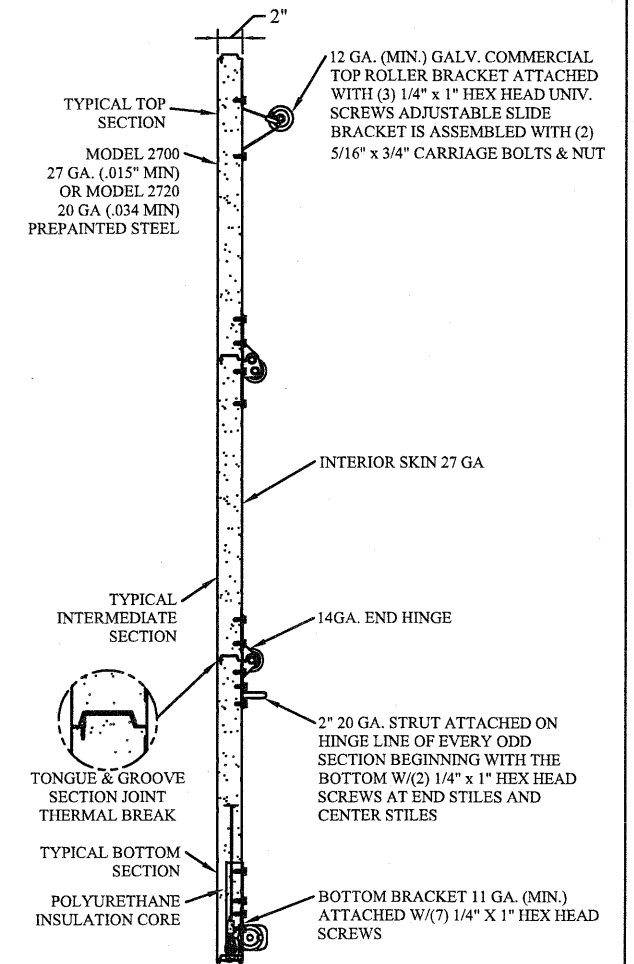
TYPICAL END HINGE, ODD
N.T.S.



TYPICAL CENTER HINGE
N.T.S.

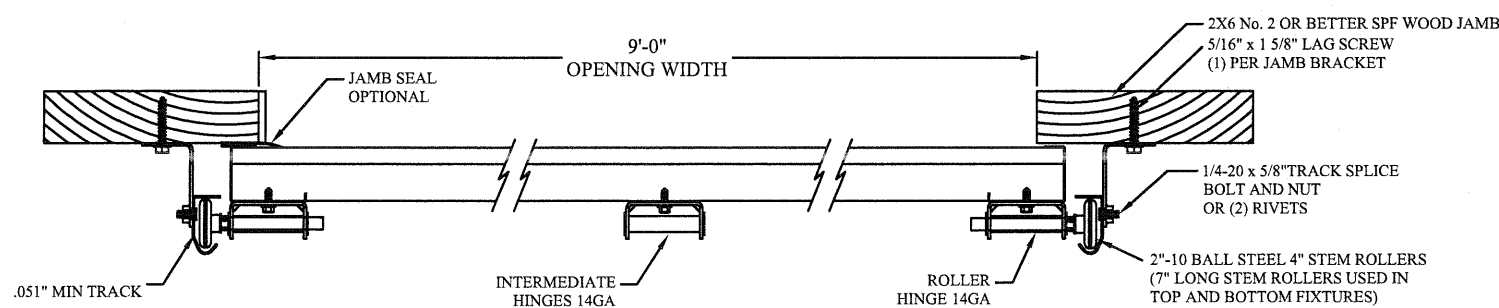


TYPICAL END HINGE
N.T.S.



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

3-1/2" U-SHAPED VINYL
BOTTOM SEAL W/
ALUMINUM RETAINER



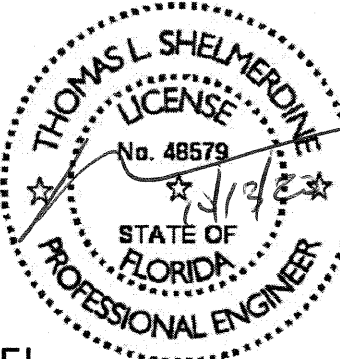
TRACK MOUNTING DETAIL

N.T.S.

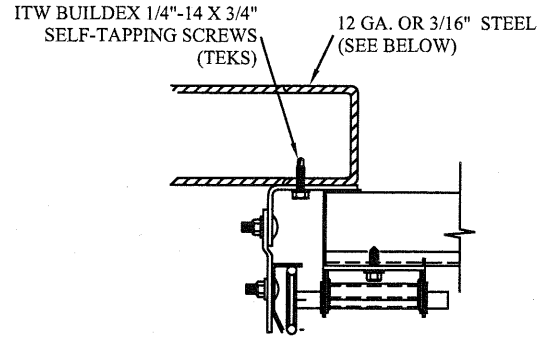
EDGE OF DOOR 1" OVERLAP ON EACH SIDE

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 9'2" x 24' DESIGN LOADS +24.3 PSF -28.5 PSF TEST LOADS +36.5 PSF -42.8 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 2700 AMARR 2742 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	DRD	DATE 12/06/18
B	CHECKED BY	DLJ	DATE 06/07/19
			DRAWING NUMBER
			IBC-2709-130-11-M
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 1 OF 4

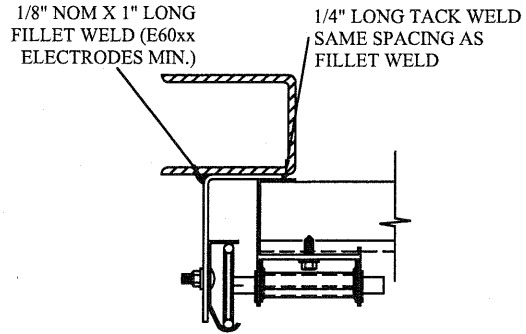
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

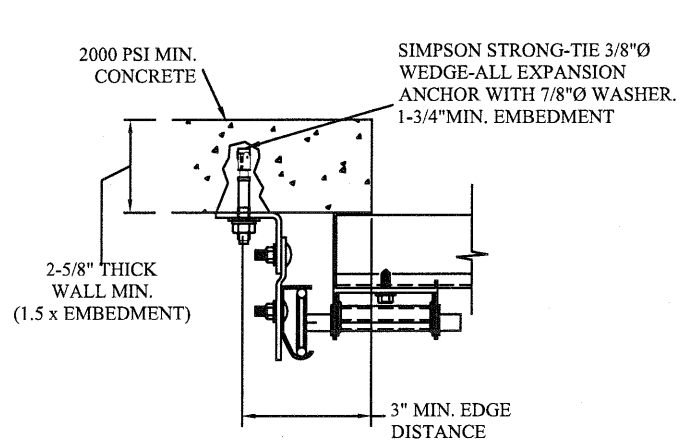
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

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



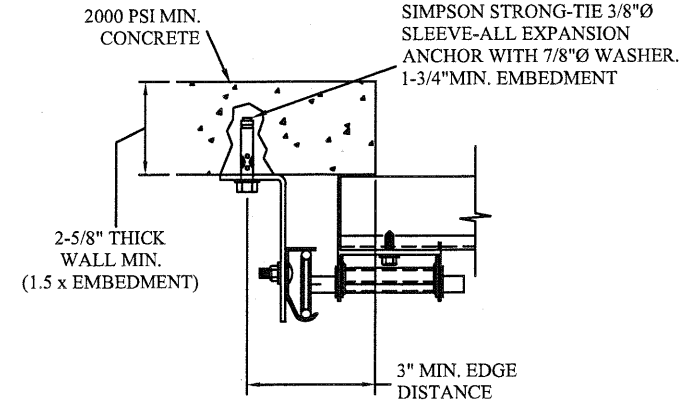
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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:
+111.4 LBS/FT & -130.6 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 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.

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 STARTING 6" FROM ENDS,

USE PAIRS OF FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

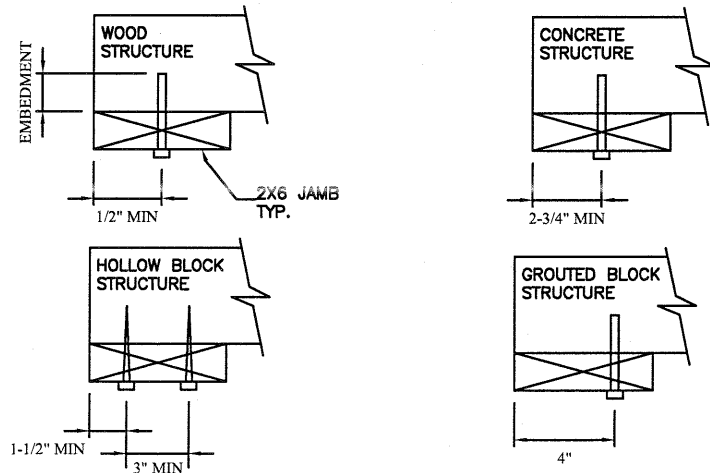
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS

THEN 24" O.C. (1 1/4" EMBEDMENT)

(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

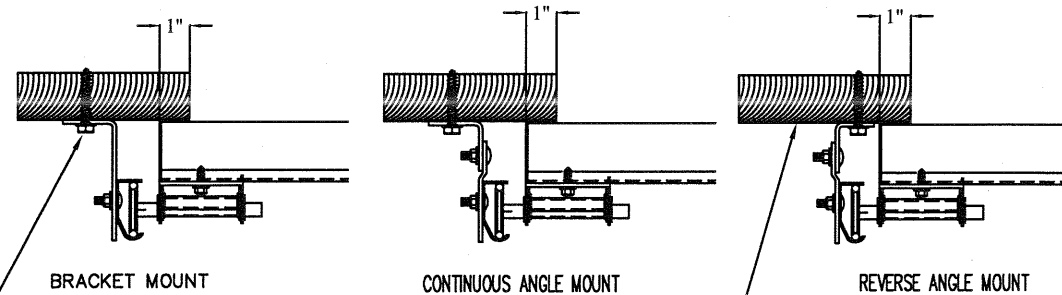
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



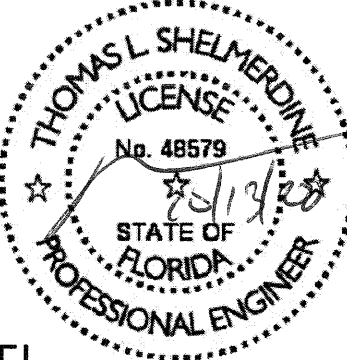
TRACK CONNECTION TO WOOD JAMB OPTIONS

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



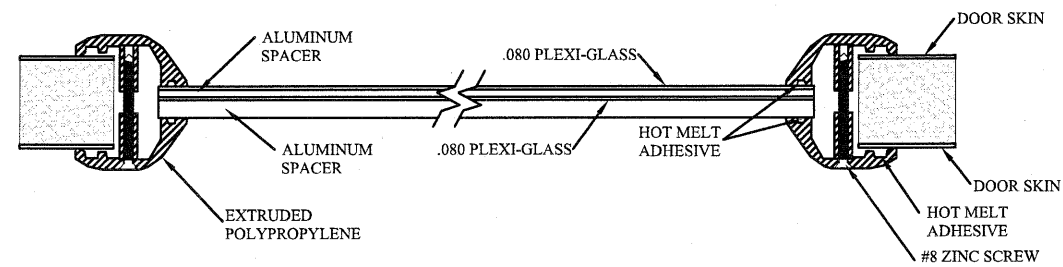
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

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

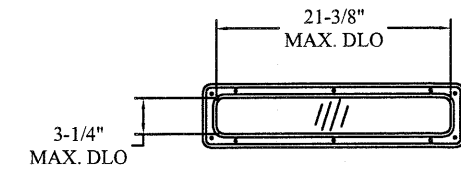
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +24.3 PSF -28.5 PSF TEST LOADS +36.5 PSF -42.8 PSF		Thomas L. Shelmerdine, PE (FL PE #00048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	DRD	DATE 12/06/18
B	CHECKED BY	DLJ	DATE 06/07/19
DRAWING NUMBER			IBC-2709-130-11-M
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 4

A diagram of a horizontal beam supported at both ends by vertical pins. Two rectangular loads are placed on the beam, each containing a diagonal hatching pattern. Two upward-pointing arrows, both labeled 'B', represent reaction forces at specific points on the beam.

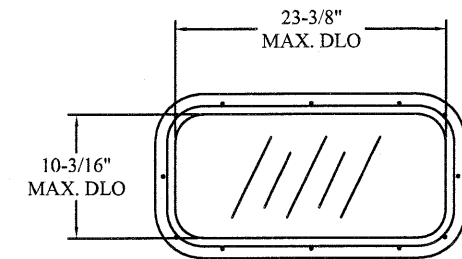
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS
N.T.S. (TOP SECTION SIMILAR)



SECTION B-B 24" X 6" WINDOW DETAIL W/ .080 PLEXI-GLASS
N.T.S.



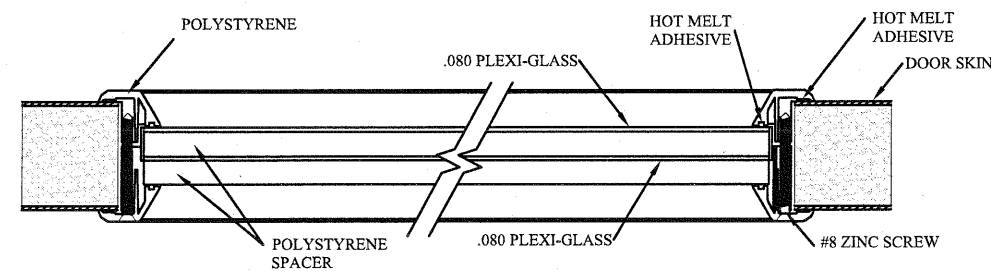
24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



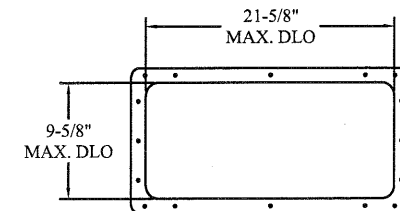
26" X 13" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.

Technical drawing of a mechanical component, likely a shaft or axle, showing a cross-section with two rectangular cutouts. The cutouts are labeled 'C' and contain diagonal hatching. The component is supported by bearings at both ends.

OPTIONAL GLAZED SECTION W/ 26" X 13" WINDOWS
N.T.S. (TOP SECTION SIMILAR)



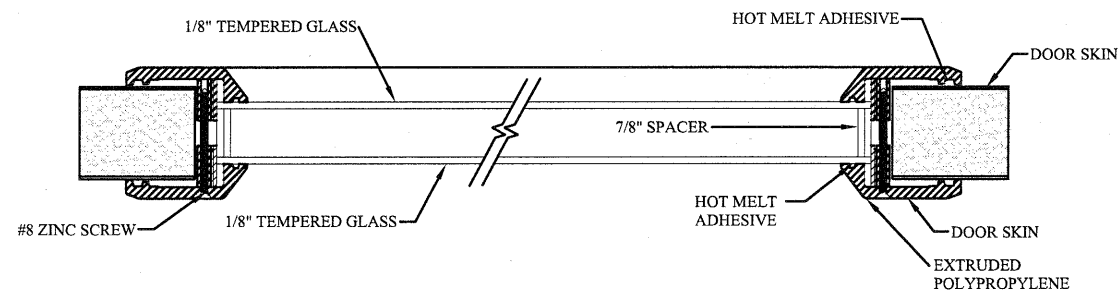
SECTION C-C 26" X 13" WINDOW DETAIL W/ INSULATED PLEXI-GLASS
N.T.S.



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

A diagram of a horizontal beam supported at both ends by vertical stands. Two rectangular blocks are placed on the beam, each containing three diagonal lines. Two upward-pointing arrows, both labeled 'D', are positioned above the beam, one between the two blocks and one to the right of the second block.

OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS
N.T.S. (TOP SECTION SIMILAR)



SECTION D-D 24" X 12" WINDOW DETAIL W/ 1-1/8" INSULATED GLASS
N.T.S. (24" X 8 WINDOW OPTION ALSO AVAILABLE)

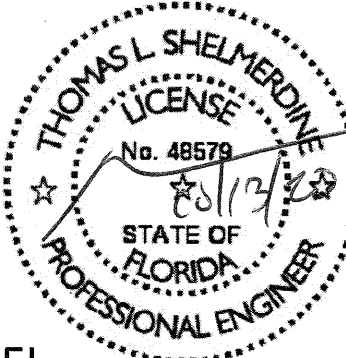
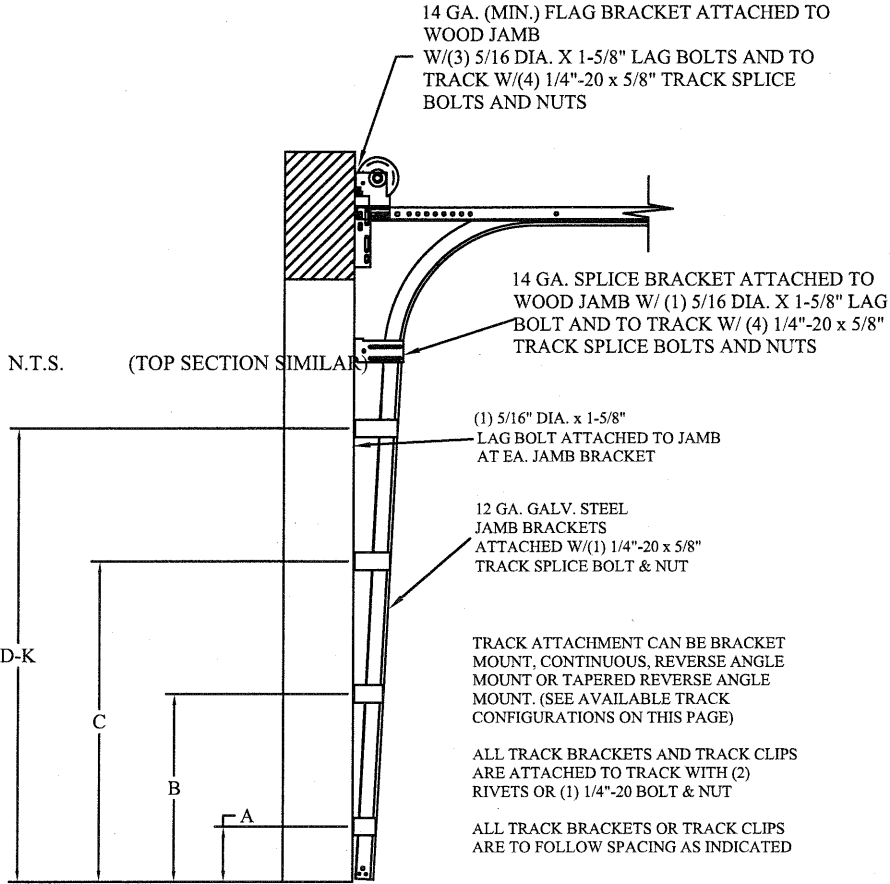
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2" x 24' DESIGN LOADS +24.3 PSF -28.5 PSF TEST LOADS +36.5 PSF -42.8 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	DRD	DATE 12/06/18
B	CHECKED BY	DLJ	DATE 06/07/19
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2709-130-11-M SHEET 3 OF 4

TABLE 1

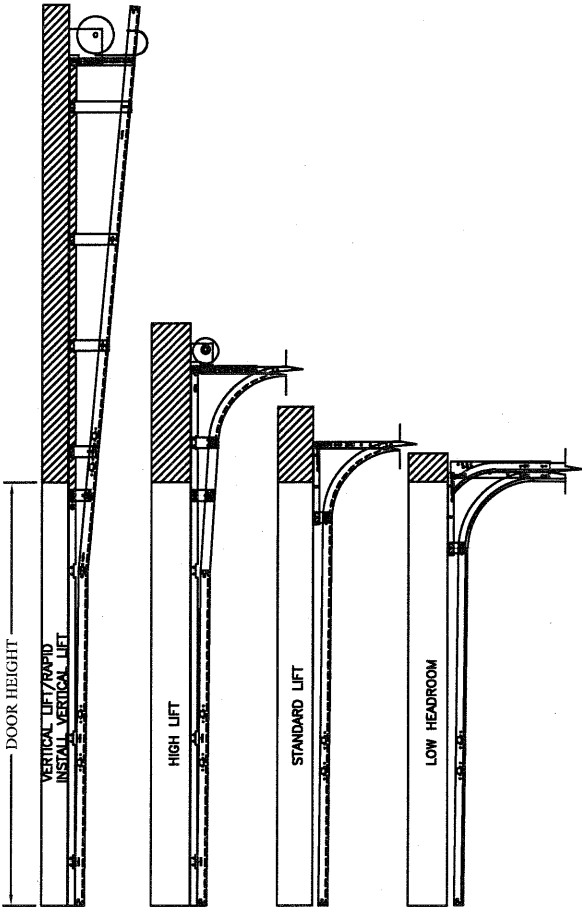
Section Width (ft)		Center Stile Locations	Max Design Loads Allowed	
			Positive (PSF)	Negative (PSF)
6'	0"		36.000	36.9
7'	0"		42.000	31.6
7'	2"		43.000	30.9
7'	4"		44.000	30.2
7'	6"		45.000	29.5
7'	8"		46.000	28.9
7'	10"		47.000	28.2
8'	0"		48.000	27.7
8'	2"		49.000	27.1
8'	4"		50.000	26.5
8'	6"		51.000	26.0
8'	8"		52.000	25.5
8'	10"		53.000	25.0
9'	0"		54.000	24.6
9'	2"		55.000	24.3



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

TABLE 3

SECTION	STRUT SIZE
12TH	
11TH	2"
10TH	
9TH	2"
8TH	
7TH	2"
6TH	
5TH	2"
4TH	
3RD	2"
2ND	
BOTTOM	2"



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	
7'	0"	10.0"	34"	58"									76"
7'	6"	10.0"	34"	58"									82"
8'	0"	10.0"	34"	58"									88"
8'	6"	10.0"	34"	58"	82"								94"
9'	0"	10.0"	34"	58"	82"								100"
9'	6"	10.0"	34"	58"	82"								106"
10'	0"	10.0"	34"	58"	82"								112"
11'	0"	10.0"	34"	58"	82"	106"							124"
12'	0"	10.0"	34"	58"	82"	106"							136"
13'	0"	10.0"	34"	58"	82"	106"	130"						148"
14'	0"	10.0"	34"	58"	82"	106"	130"						160"
15'	0"	10.0"	34"	58"	82"	106"	130"	154"					172"
16'	0"	10.0"	34"	58"	82"	106"	130"	154"					184"
17'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"				196"
18'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"				208"
19'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24'	0"	10.0"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

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

REV

DESCRIPTION OF REVISIONS

DATE

BY

MAX SIZE
9'2 x 24'

DESIGN LOADS
+24.3 PSF
-28.5 PSF

TEST LOADS
+36.5 PSF
-42.8 PSF

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

THOMAS L. SHELMERDINE

LICENSE

No. 48579

8/12/2020

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL

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

Amarr

MODEL 2700 AMARR 2742
MODEL 2720 AMARR 2042

SIZE
B

DRAWN BY
DRD

DATE
12/06/18

CHECKED BY
DLJ

DATE
06/07/19

DRAWING NUMBER
IBC-2709-130-11-M

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

SHEET 4 OF 4