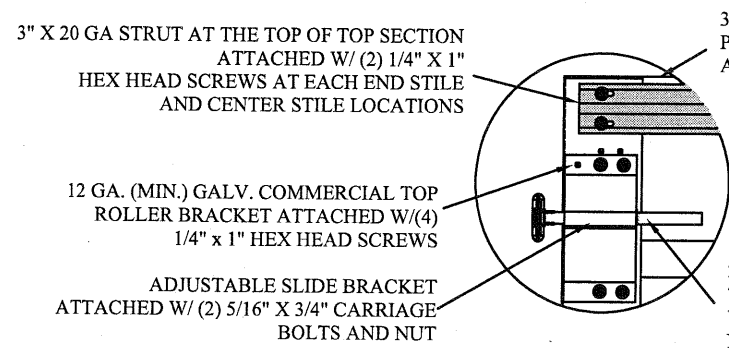
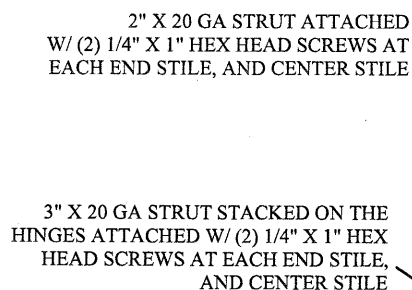
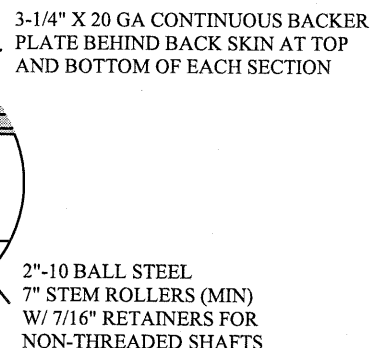




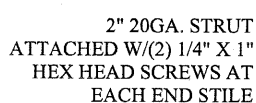
TYPICAL TOP FIXTURES
N.T.S.

1



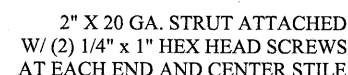
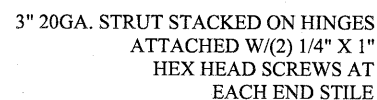
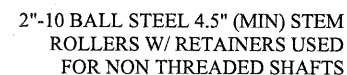
TYPICAL CENTER HINGE
N.T.S.

2



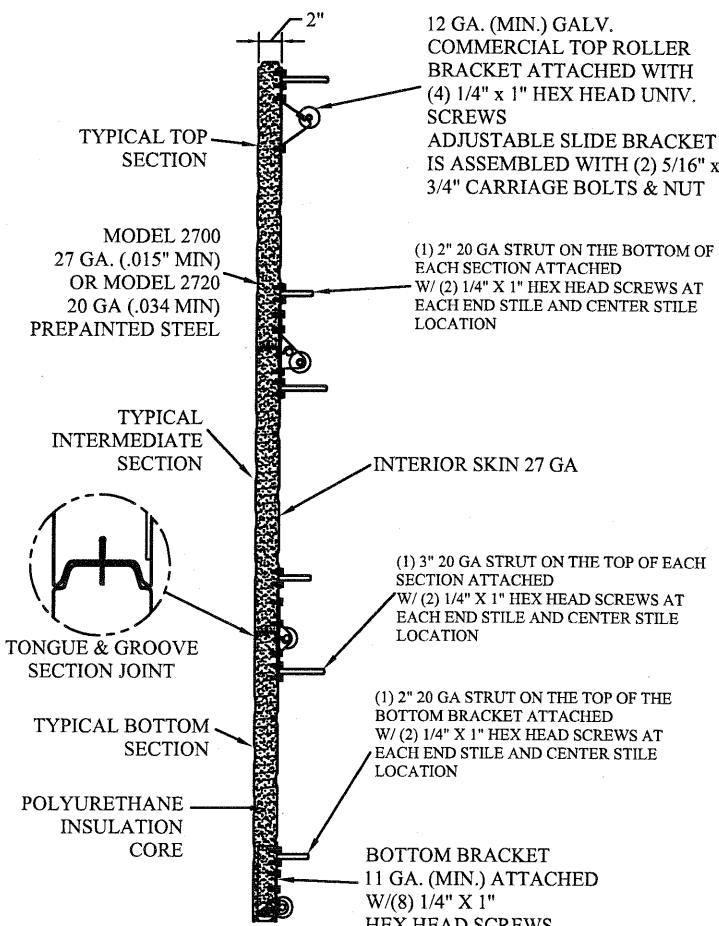
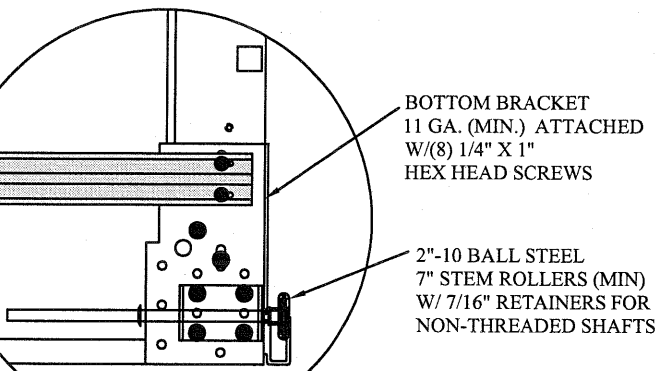
TYPICAL END HINGE
N.T.S.

3

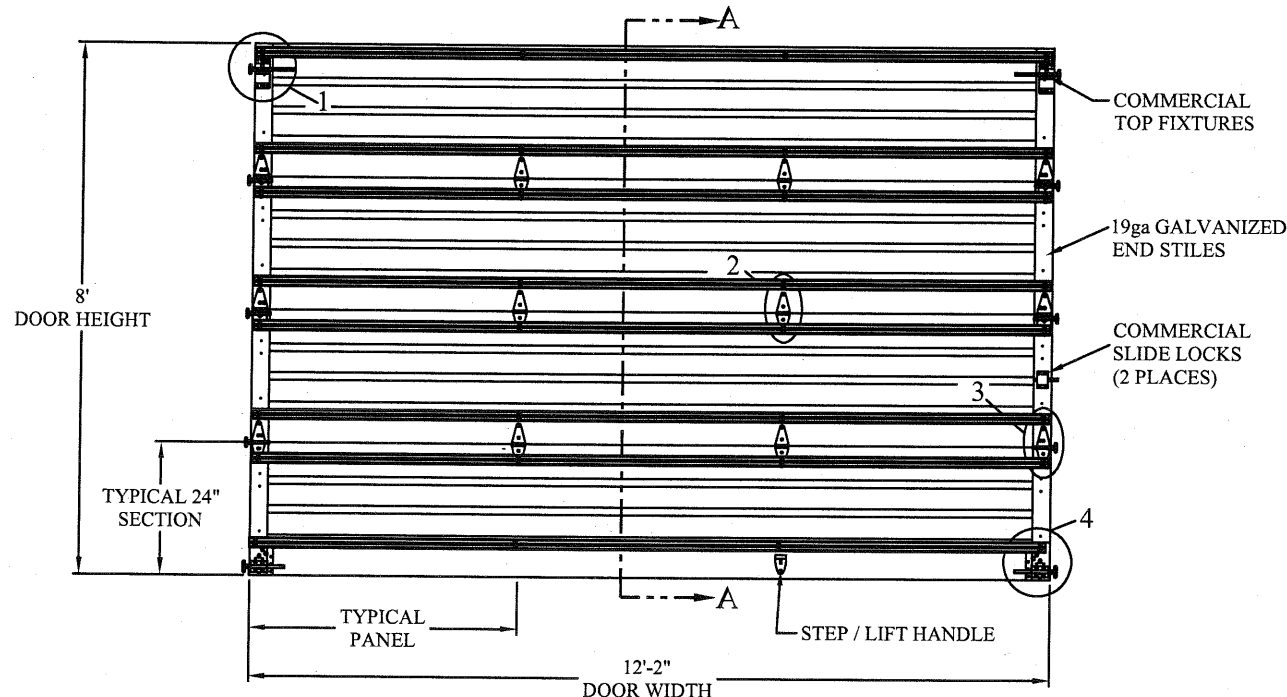


TYPICAL BOTTOM BRACKET
N.T.S.

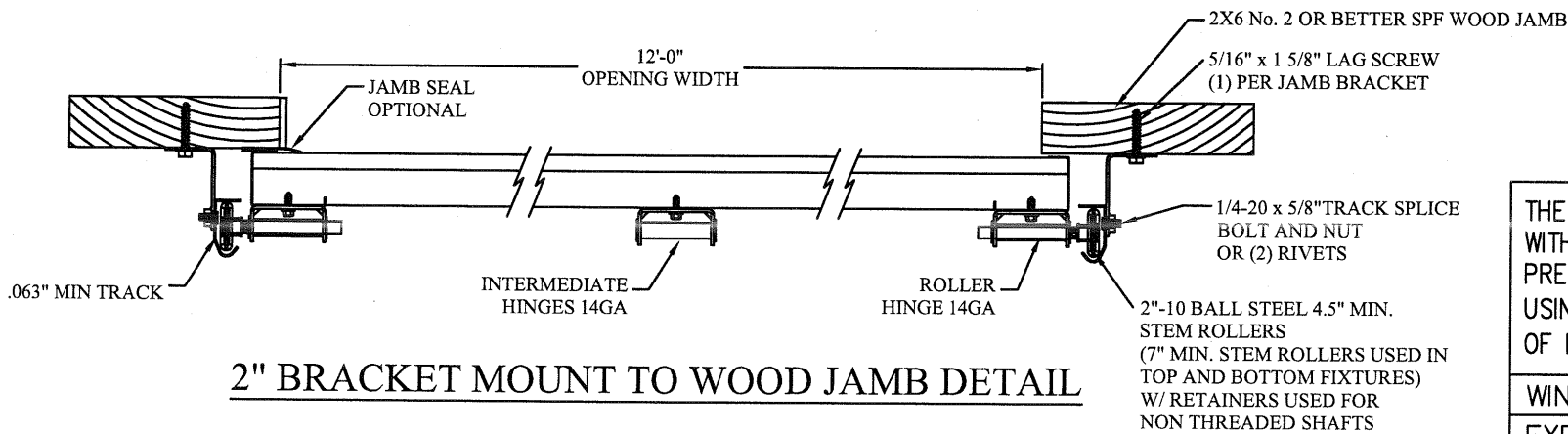
4



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



DOOR INTERIOR ELEVATION



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 7-16 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
12'2" x 24'

DESIGN LOADS
+32.0 PSF
-36.7 PSF

TEST LOADS
+48.0 PSF
-55.1 PSF

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

MODEL 2700 AMARR 2742, 2743 MODEL 2720 AMARR 2042			
SIZE B	DRAWN BY RLR	DATE 04/06/16	DRAWING NUMBER IBC-2712-150-15
CHECKED BY RLR	DATE 04/06/16	ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105	
SHEET 1 OF 4			

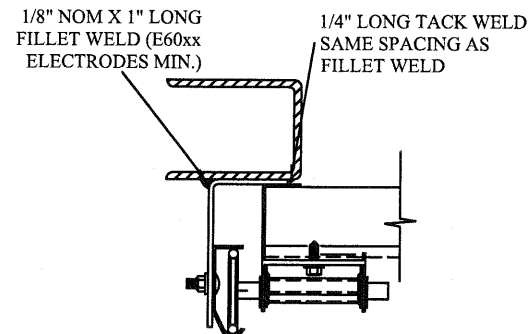
ITW BUILDEX 1/4"-14 X 3/4"
SELF-TAPPING SCREWS
(TEKS)

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

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

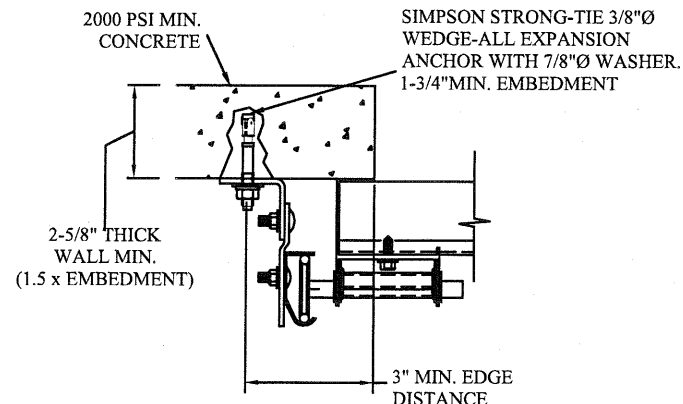
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

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



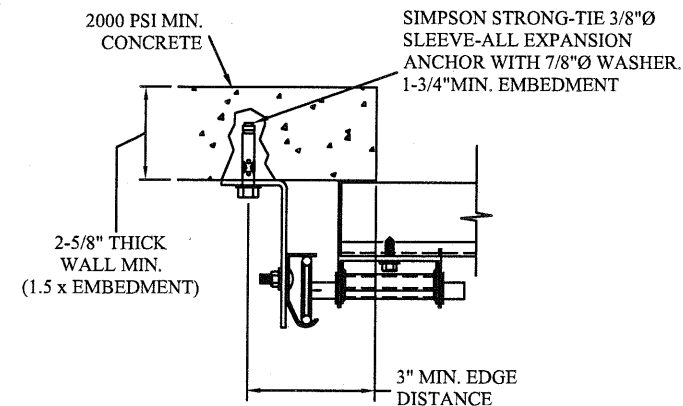
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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 20" 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 20" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

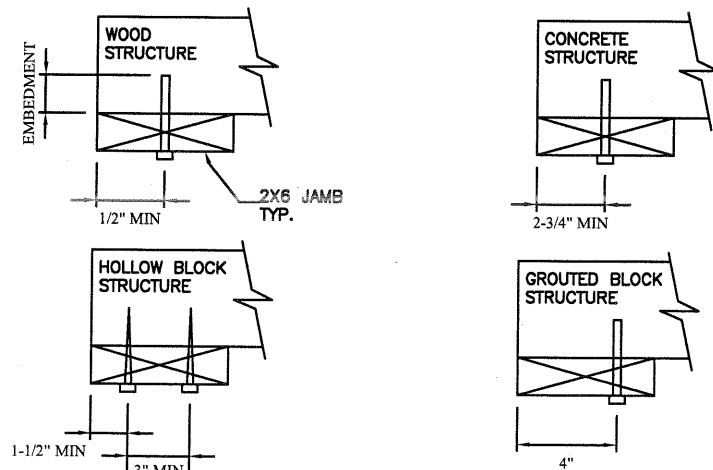
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS
THEN 24" O.C. (1 1/2" EMBEDMENT)

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 22" 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)

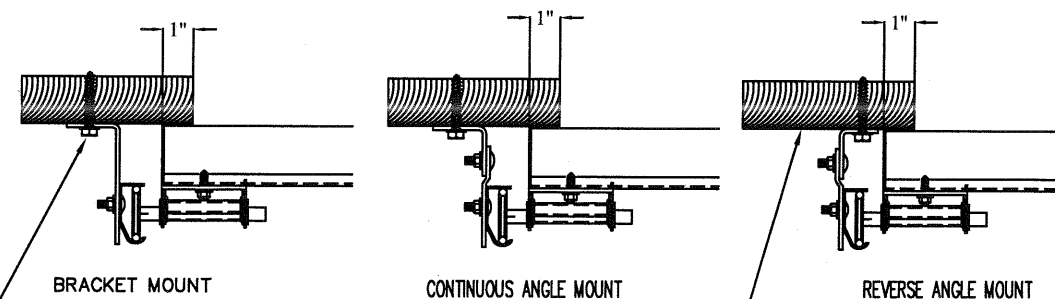
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 16" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

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



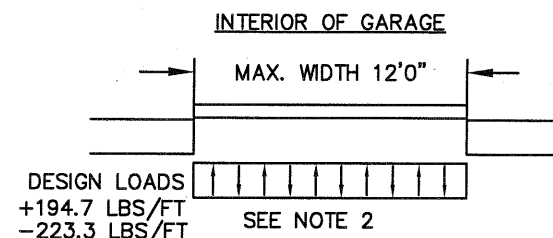
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL

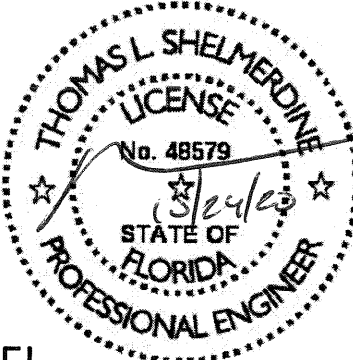


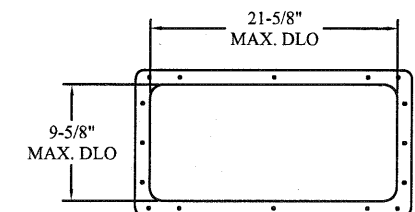
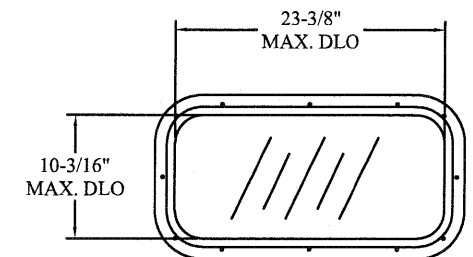
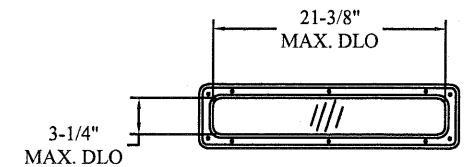
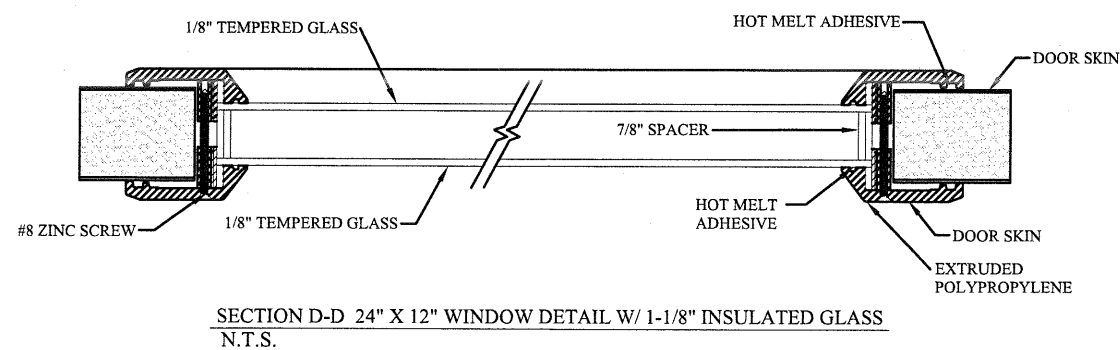
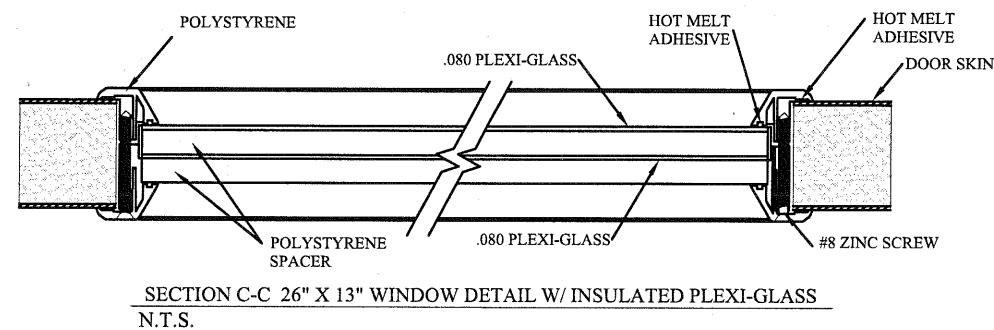
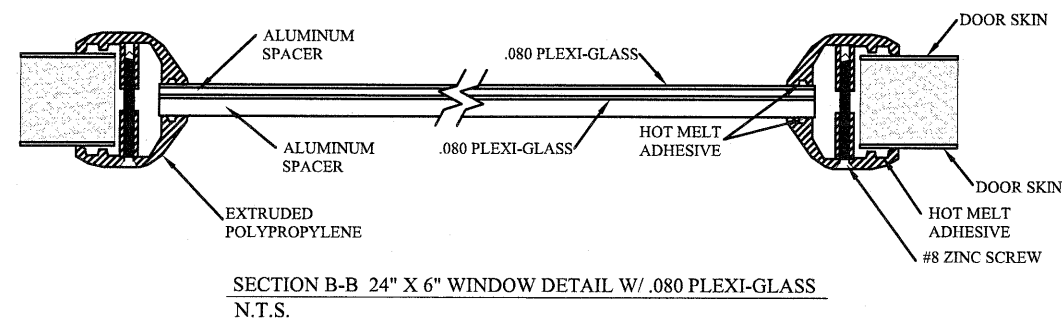
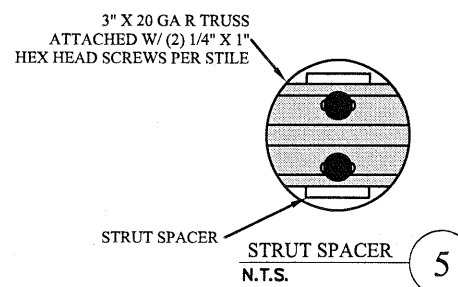
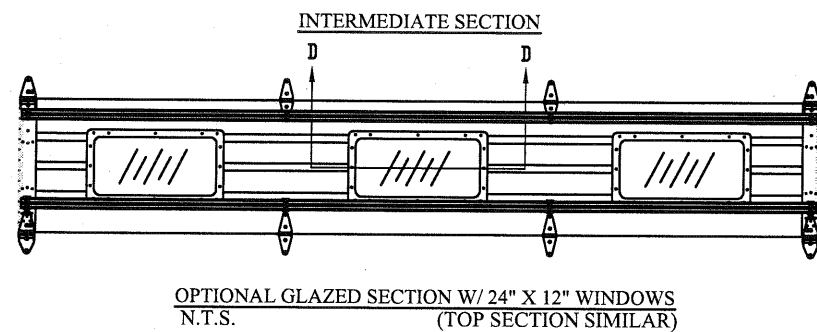
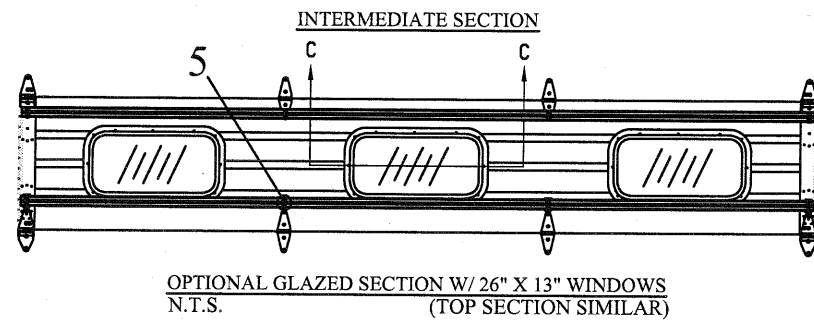
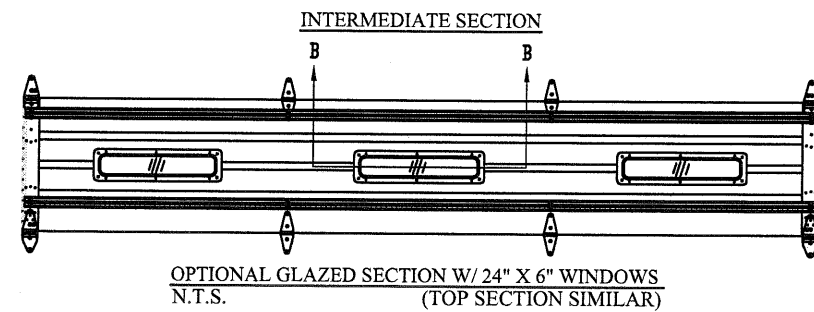
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

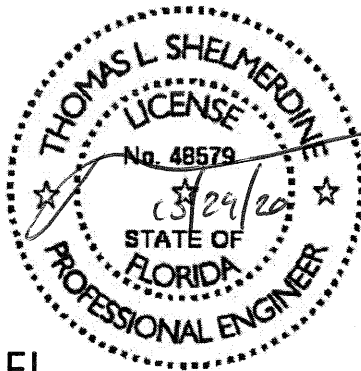
2x6 WOOD JAMB SYP OR SPF
(NO.2) OR BETTER (TYP.)

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:
+194.7 LBS/FT & -223.3 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.

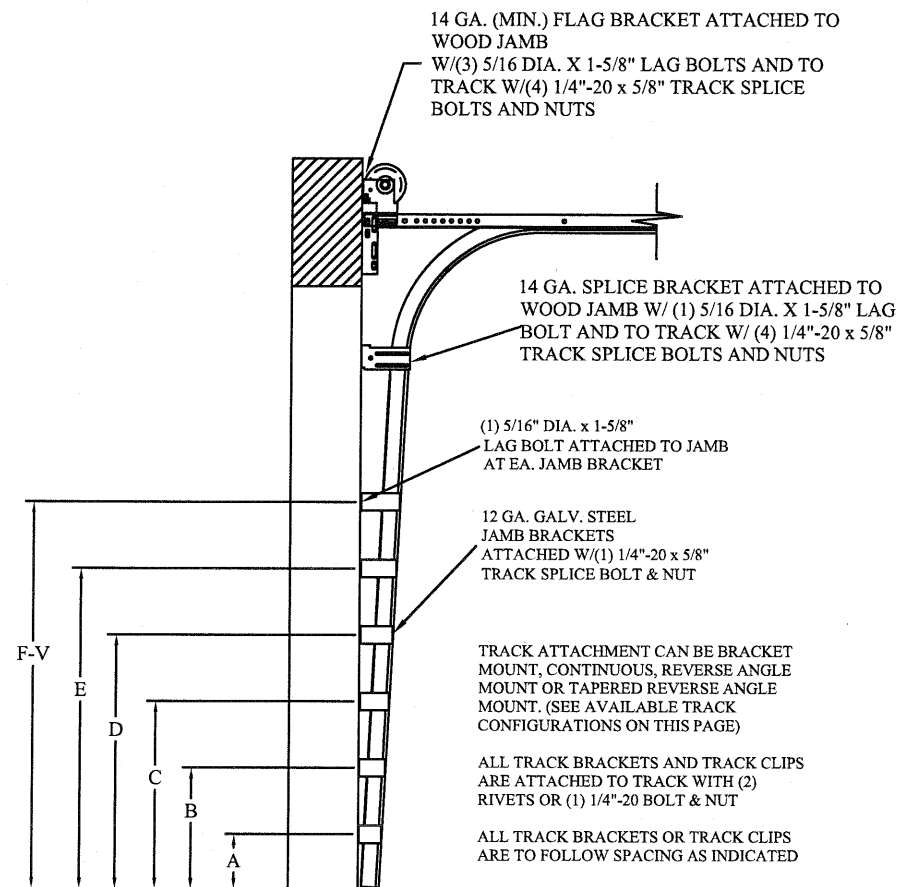


REV	DESCRIPTION OF REVISIONS		DATE	BY
MAX SIZE 12'2" x 24' DESIGN LOADS +32.0 PSF -36.7 PSF TEST LOADS +48.0 PSF -55.1 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (PA Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921 G.W. Friedland Ave. Greensboro, NC 27410		
				
MODEL 2700 AMARR 2742, 2743 MODEL 2720 AMARR 2042				
SIZE B	DRAWN BY	RLR	DATE	04/06/16
	CHECKED BY	RLR	DATE	04/06/16
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105				DRAWING NUMBER IBC-2712-150-15 SHEET 2 OF 4



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'2 x 24' DESIGN LOADS +32.0 PSF -36.7 PSF TEST LOADS +48.0 PSF -55.1 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, 2743 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	RLR	DATE 04/06/16
B	CHECKED BY	RLR	DATE 04/06/16
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
DRAWING NUMBER			IBC-2712-150-15
SHEET 3 OF 4			

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	43.1	49.4
6'	2"	37"	-	41.9	48.1
6'	4"	38"	-	40.8	46.8
6'	6"	39"	-	39.7	45.6
6'	8"	40"	-	38.8	44.4
6'	10"	41"	-	37.8	43.4
7'	0"	42"	-	36.9	42.3
7'	2"	43"	-	36.0	41.3
7'	4"	44"	-	35.2	40.4
7'	6"	45"	-	34.4	39.5
7'	8"	46"	-	33.7	38.6
7'	10"	47"	-	33.0	37.8
8'	0"	48"	-	32.3	37.0
8'	2"	49"	-	31.6	36.3
8'	4"	50"	-	31.0	35.5
8'	6"	51"	-	30.4	34.9
8'	8"	52"	-	29.8	34.2
8'	10"	53"	-	29.2	33.5
9'	0"	54"	-	28.7	32.9
9'	2"	37"	73"	42.4	48.7
9'	4"	36"	76"	40.6	46.6
9'	6"	37"	77"	40.1	46.0
9'	8"	38"	78"	39.5	45.4
9'	10"	39"	79"	39.0	44.8
10'	0"	40"	80"	38.6	44.2
10'	2"	41"	81"	38.1	43.7
10'	4"	42"	82"	37.4	42.9
10'	6"	43"	83"	36.8	42.3
10'	8"	44"	84"	36.3	41.6
10'	10"	45"	85"	35.7	41.0
11'	0"	46"	86"	35.2	40.3
11'	2"	47"	87"	34.6	39.7
11'	4"	48"	88"	34.1	39.2
11'	6"	49"	89"	33.6	38.6
11'	8"	50"	90"	33.2	38.0
11'	10"	51"	91"	32.7	37.5
12'	0"	48"	96"	32.1	36.8
12'	2"	49"	97"	32.0	36.7



DOOR HEIGHT

VERTICAL LIFT

HIGH LIFT

STANDARD LIFT

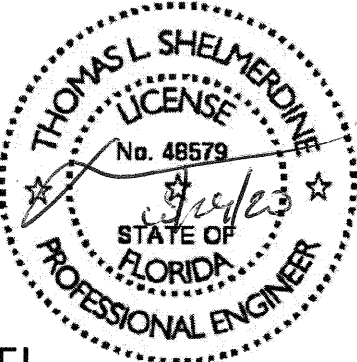
LOW HEADROOM

SPLICE TRACKS W/ (4)-20 TRACK SPLICE BOLTS & NUTS

2" (.063 MIN.) OR 3" (12 GA. MIN.) VERTICAL TRACK

AVAILABLE TRACK CONFIGURATIONS
N.T.S.

DOOR																					SPLICE		
HEIGHT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	S
7'	10"	22"	34"	46"	58"	70"																	76"
8'	10"	22"	34"	46"	58"	70"																	88"
9'	10"	22"	34"	46"	58"	70"	82"																100"
10'	10"	22"	34"	46"	58"	70"	82"	94"															112"
11'	10"	22"	34"	46"	58"	70"	82"	94"	106"														124"
12'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"													136"
13'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"												148"
14'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"											160"
15'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"										172"
16'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"									184"
17'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"								196"
18'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"							208"
19'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"						220"
20'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"					232"
21'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"				244"
22'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"			256"
23'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"		268"
24'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"	280"

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'2 x 24' DESIGN LOADS +32.0 PSF -36.7 PSF TEST LOADS +48.0 PSF -55.1 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	
			
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ENTREMATRIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2712-150-15 SHEET 4 OF 4