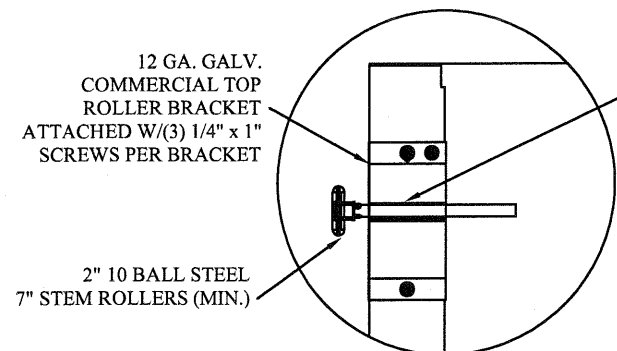
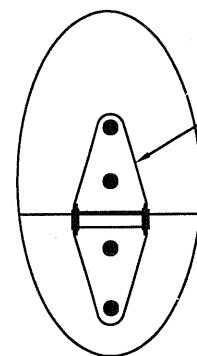
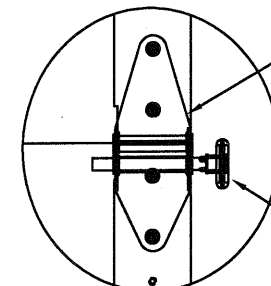




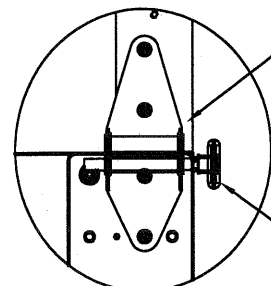
TYPICAL TOP FIXTURES
N.T.S.



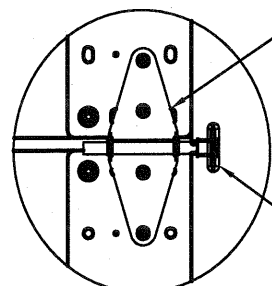
TYPICAL CENTER HINGE
N.T.S.



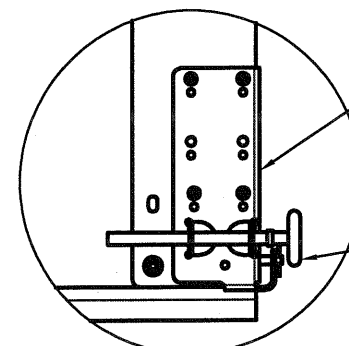
TYPICAL END HINGE
N.T.S.



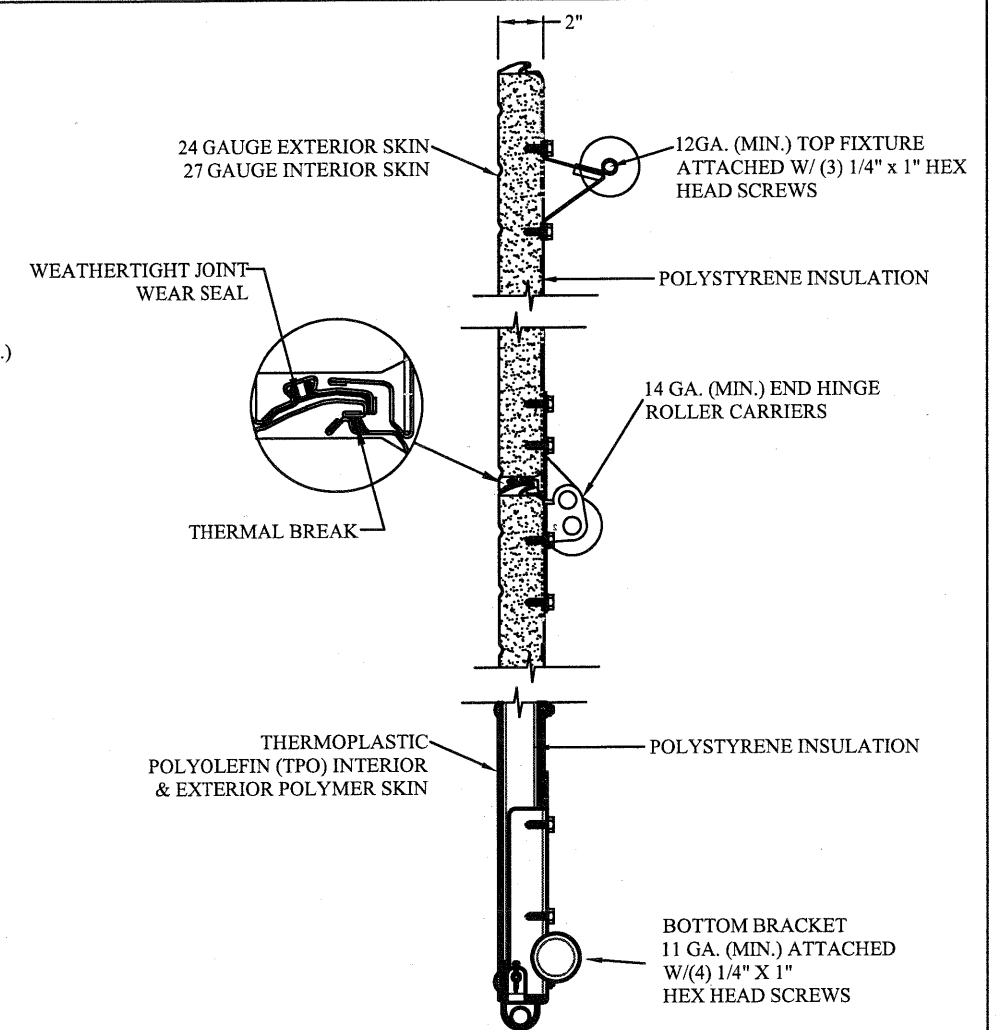
TYPICAL M1000/SUPERFLEX END HINGE
N.T.S.



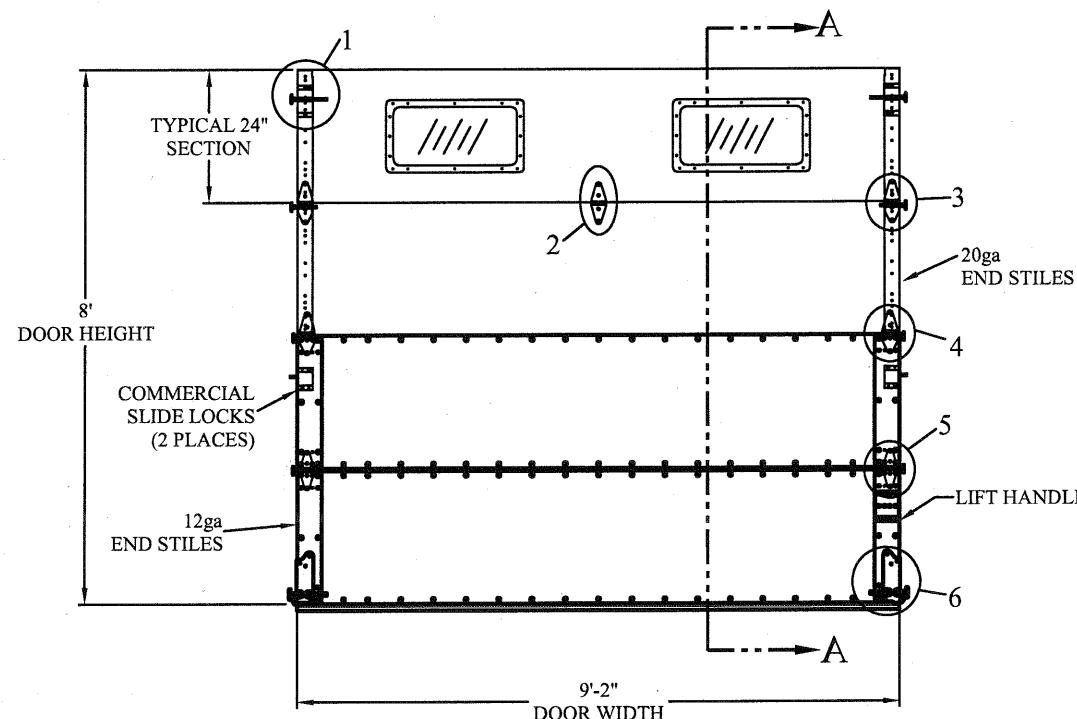
TYPICAL SUPERFLEX END HINGE
N.T.S.



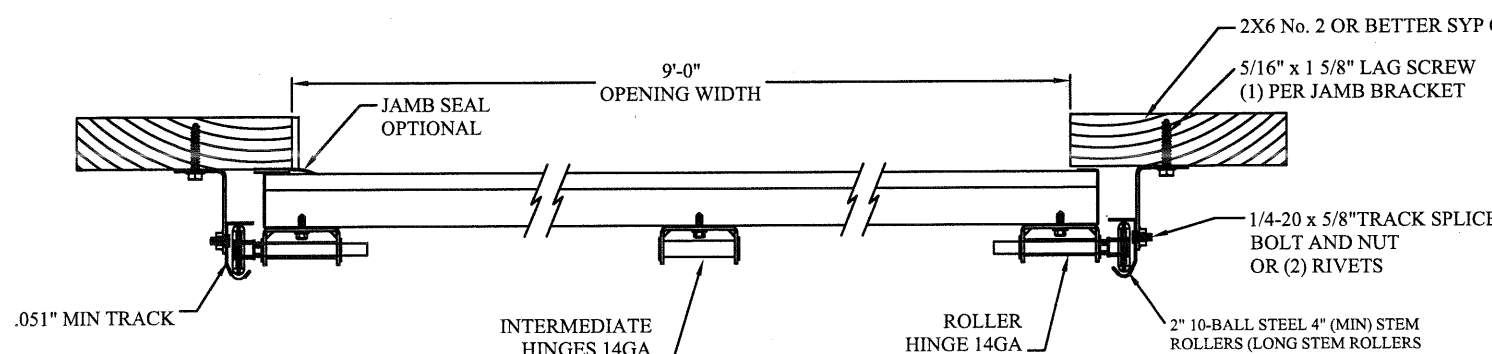
TYPICAL BOTTOM BRACKET
N.T.S.



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



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 PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996 & F588, DASMA 108 & 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS(5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT LESS THAN 10 DEGREES SLOPE):

WIND SPEED (MPH)	155	140	134	128	122
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
+20.7 PSF
-24.2 PSF

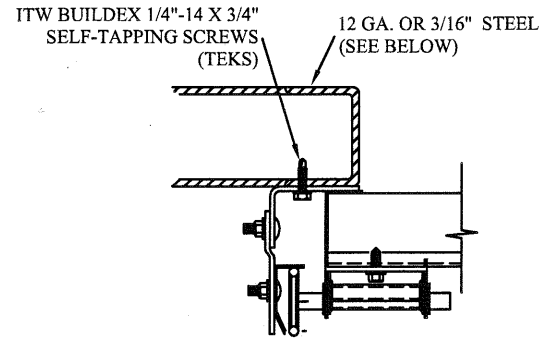
TEST LOADS
+30.1 PSF
-36.3 PSF

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

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

MODEL 1000 AMARR 2432/SUPERFLEX			
SIZE B	DRAWN BY RLR	DATE 10/1/18	DRAWING NUMBER IBC-1009-120-00-S
CHECKED BY RLR		DATE 10/1/18	SHEET 1 OF 4
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

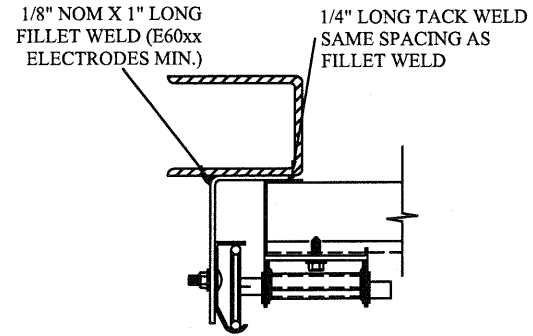
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

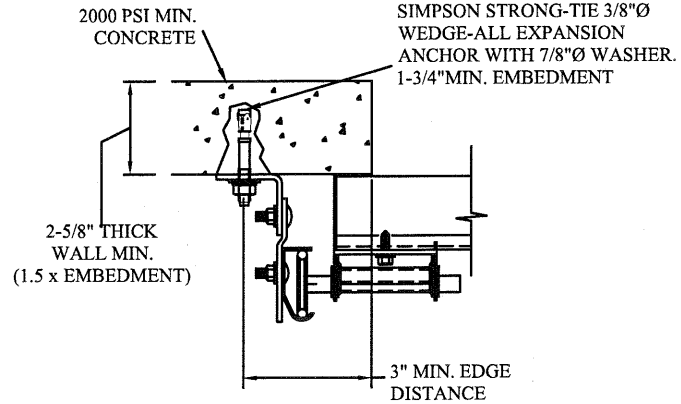
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

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



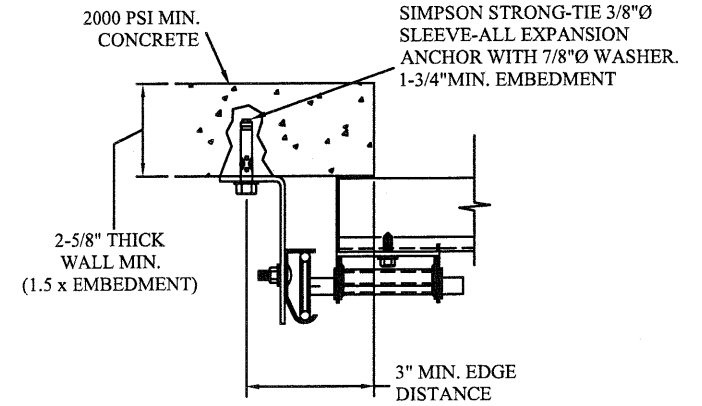
**REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE**

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

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)

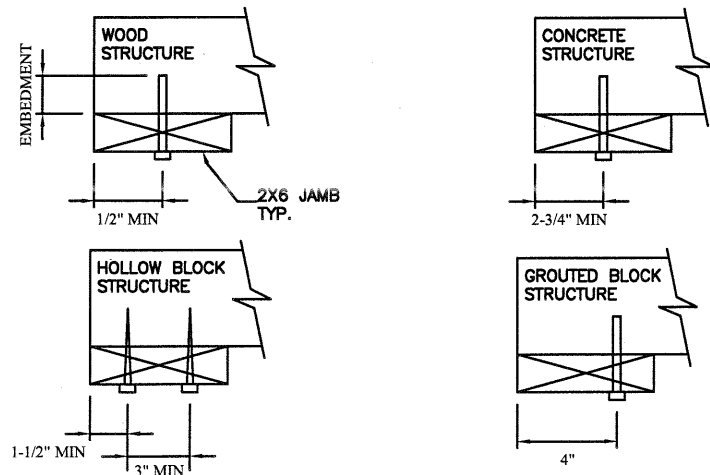
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

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)

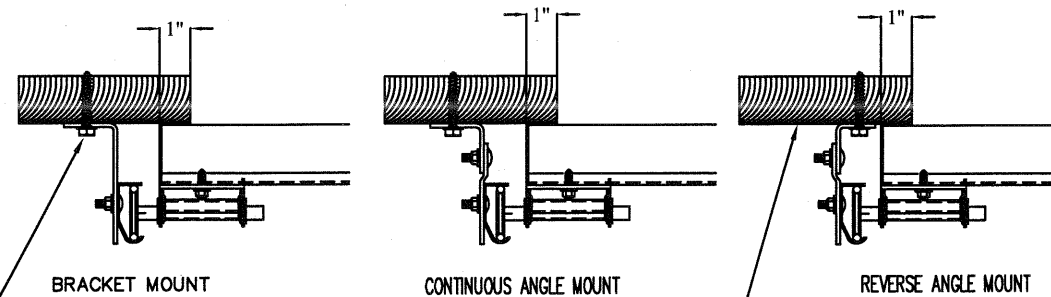
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



TRACK CONNECTION TO WOOD JAMB OPTIONS

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

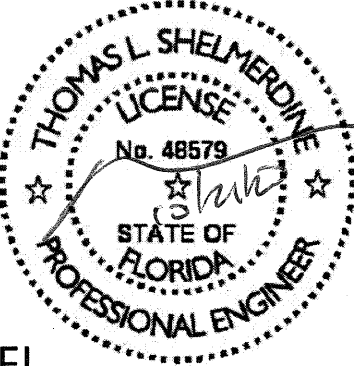


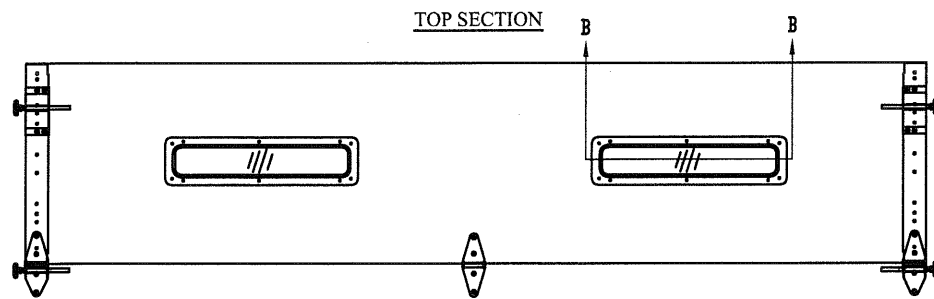
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

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

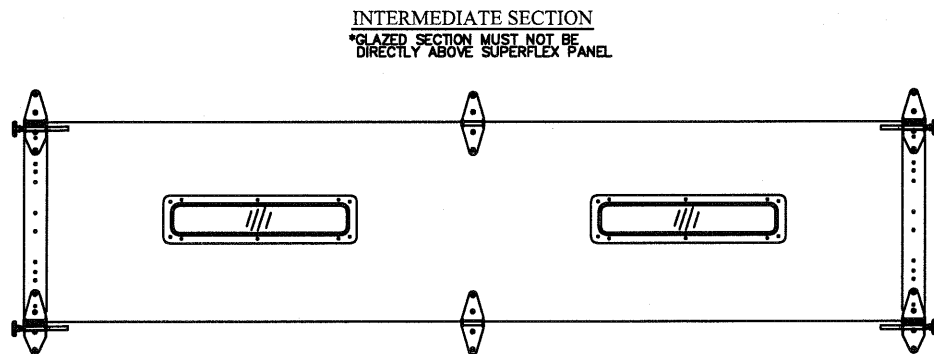
NOTES:

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. EGDE 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.

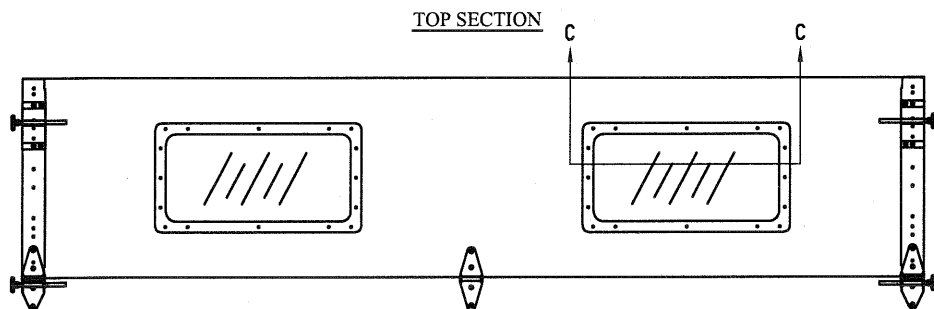
REV	DESCRIPTION OF REVISIONS		DATE	BY
MAX SIZE 9'2" x 24"				
DESIGN LOADS +20.7 PSF -24.2 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)		
TEST LOADS +30.1 PSF -36.3 PSF		dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410		
FL				
				
MODEL 1000 AMARR 2432/SUPERFLEX				
SIZE	DRAWN BY	R/LR	DATE	DRAWING NUMBER
	B		10/1/18	
B	CHECKED BY	R/LR	DATE	IBC-1009-120-00-S
			10/1/18	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105				SHEET 2 OF 4



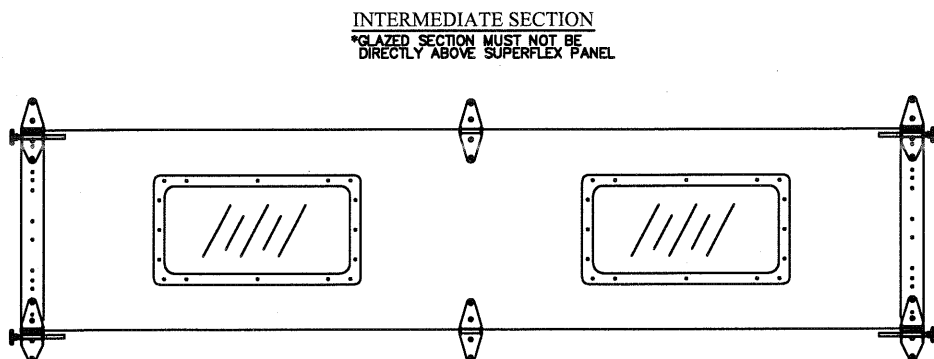
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS
N.T.S.



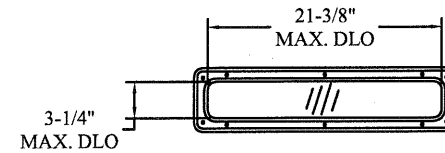
OPTIONAL GLAZED SECTION W/ 24" X 6" WINDOWS
N.T.S.



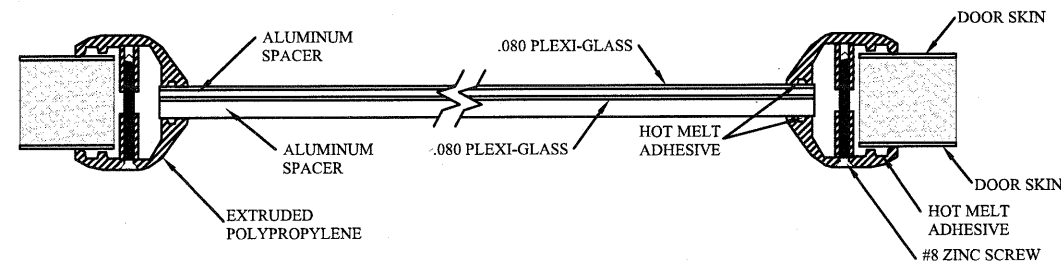
OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS
N.T.S.



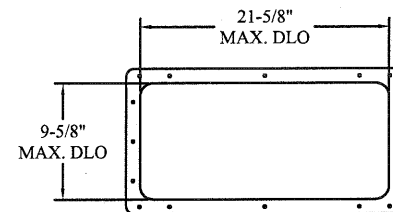
OPTIONAL GLAZED SECTION W/ 24" X 12" WINDOWS
N.T.S.



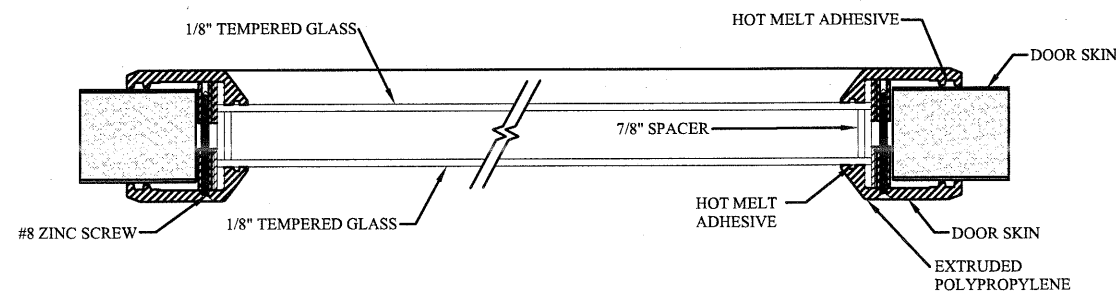
24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL
N.T.S.



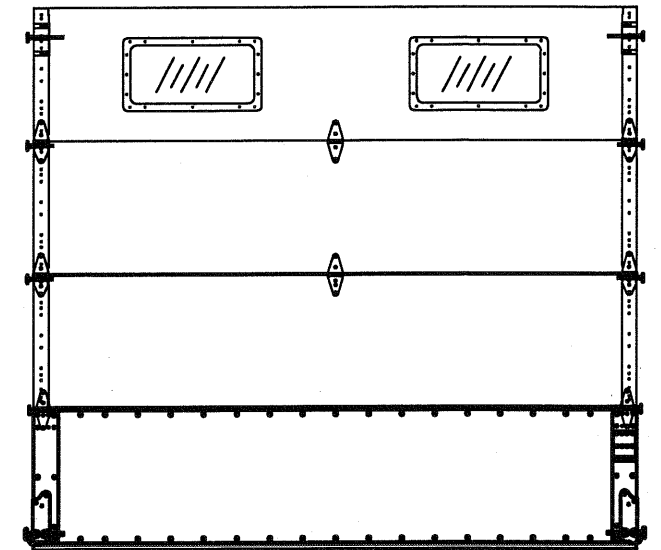
SECTION B-B 24" X 6" WINDOW DETAIL W/ .080 PLEXI-GLASS
N.T.S.



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

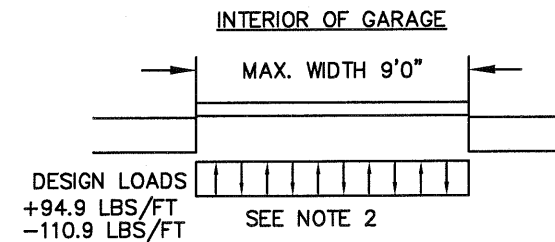
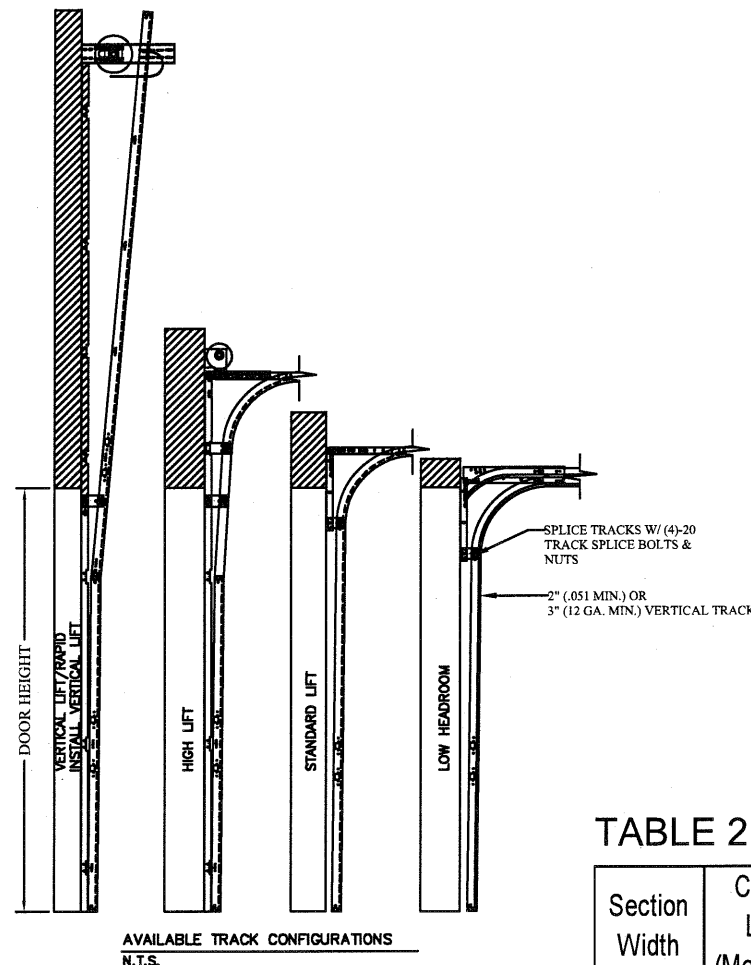


SECTION C-C 24" X 12" WINDOW DETAIL W/ 1-1/8" INSULATED GLASS
N.T.S.



OPTIONAL SINGLE SUPERFLEX SECTION
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2 x 24' DESIGN LOADS +20.7 PSF -24.2 PSF TEST LOADS +30.1 PSF -36.3 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
Amarr			
MODEL 1000 AMARR 2432/SUPERFLEX			
SIZE	DRAWN BY	RLR	DATE 10/1/18
B	CHECKED BY	RLR	DATE 10/1/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27103		DRAWING NUMBER IBC-1009-120-00-S	
		SHEET 3 OF 4	



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:
+94.9 LBS/FT & -110.9 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR MODEL 1000 SECTIONS SHALL BE 24 GA. (.021) MIN. EXTERIOR, 27 GA. (.015) MIN. INTERIOR 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.

Section Width (ft)		Center Stile Locations (Measured from Left Edge)	Max Design Loads Allowed	
			Positive (PSF)	Negative (PSF)
6'	0"	36"	31.6	36.9
6'	2"	37"	30.7	35.9
6'	4"	38"	29.9	35.0
6'	6"	39"	29.1	34.1
6'	8"	40"	28.4	33.2
6'	10"	41"	27.7	32.4
7'	0"	42"	27.1	31.6
7'	2"	43"	26.4	30.9
7'	4"	44"	25.8	30.2
7'	6"	45"	25.3	29.5
7'	8"	46"	24.7	28.9
7'	10"	47"	24.2	28.3
8'	0"	48"	23.7	27.7
8'	2"	49"	23.2	27.1
8'	4"	50"	22.7	26.6
8'	6"	51"	22.3	26.0
8'	8"	52"	21.8	25.5
8'	10"	53"	21.4	25.1
9'	0"	54"	21.0	24.6
9'	2"	55"	20.7	24.2

DOOR HEIGHT												TYPICAL SPLICE	
		A	B	C	D	E	F	G	H	I	J		K
7'	0"	10"	34"	58"									76"
7'	6"	10"	34"	58"									82"
8'	0"	10"	34"	58"									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"								112"
11'	0"	10"	34"	58"	82"	106"							124"
12'	0"	10"	34"	58"	82"	106"							136"
13'	0"	10"	34"	58"	82"	106"	130"						148"
14'	0"	10"	34"	58"	82"	106"	130"						160"
15'	0"	10"	34"	58"	82"	106"	130"	154"					172"
16'	0"	10"	34"	58"	82"	106"	130"	154"					184"
17'	0"	10"	34"	58"	82"	106"	130"	154"	178"				196"
18'	0"	10"	34"	58"	82"	106"	130"	154"	178"				208"
19'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			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"		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"	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 +20.7 PSF -24.2 PSF TEST LOADS +30.1 PSF -36.3 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL		dba Structural Solutions of North Carolina, Inc.
--	---	--	---

MODEL 1000 AMARR 2432/SUPERFLEX				
SIZE	DRAWN BY	RLR	DATE	10/1/18
B	CHECKED BY	RLR	DATE	10/1/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105				DRAWING NUMBER IBC-1009-120-00- SHEET 4 OF 4