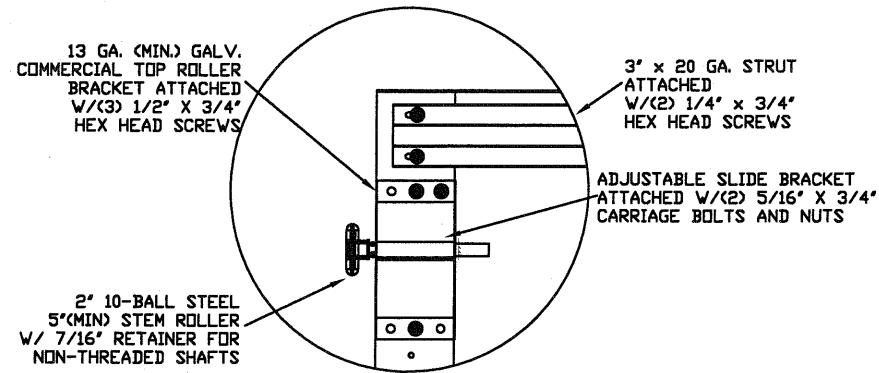
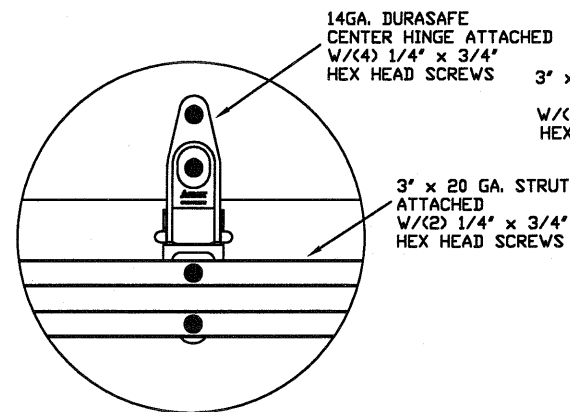
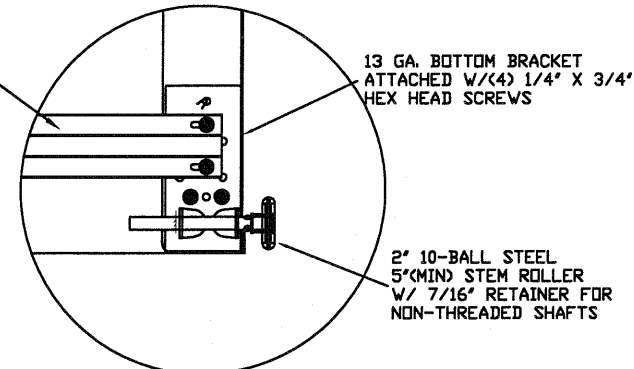




TYPICAL TOP FIXTURES
N.T.S. ①



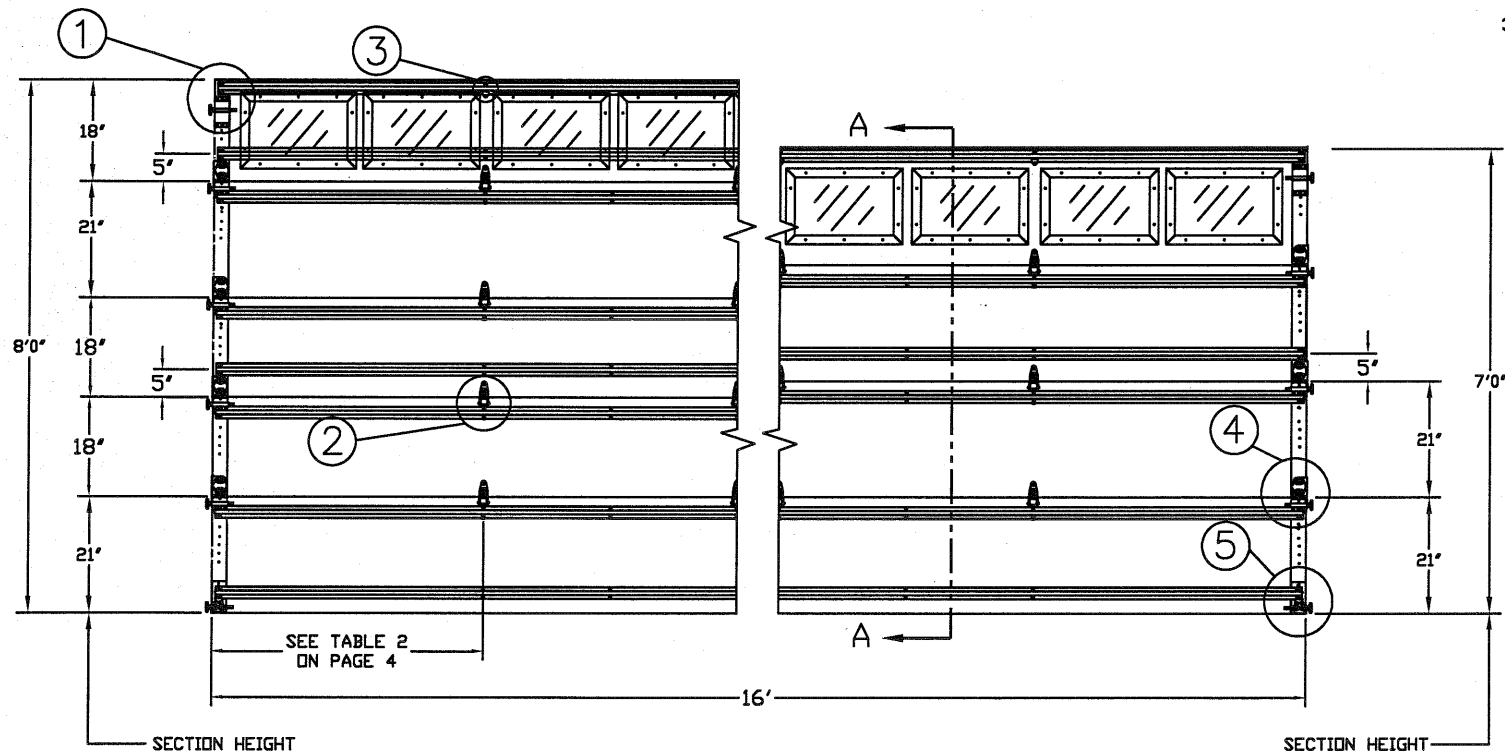
TYPICAL DURASAFE CENTER HINGE
N.T.S. ②



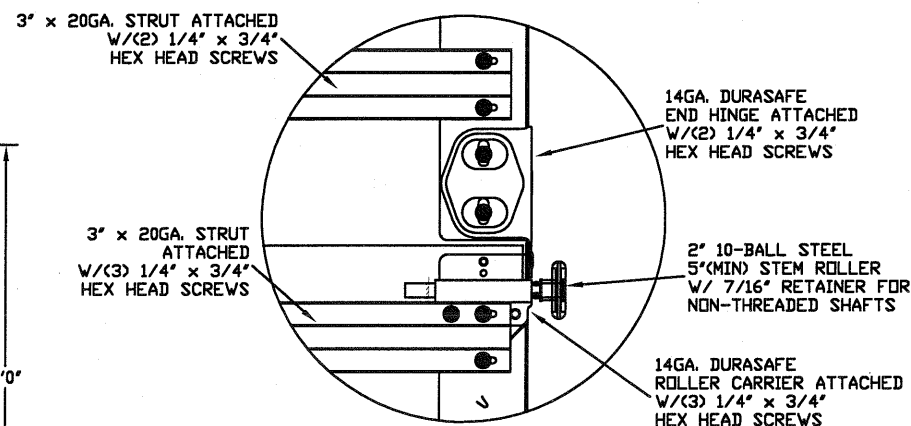
TYPICAL BOTTOM BRACKET
N.T.S. ⑤

SPECIFICATIONS AND NOTES

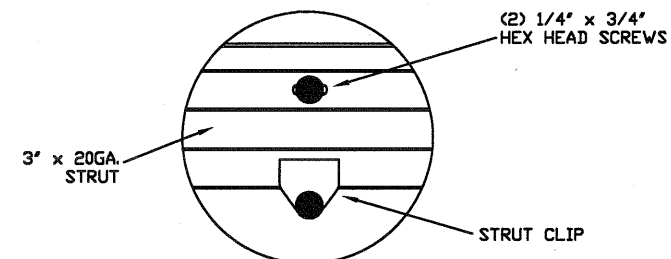
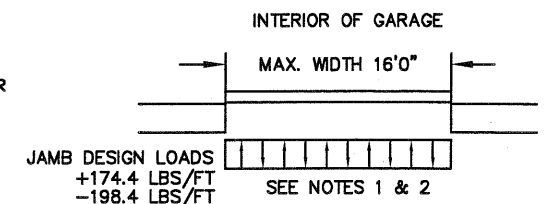
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +174.4 LBS/FT & -198.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.016) 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.



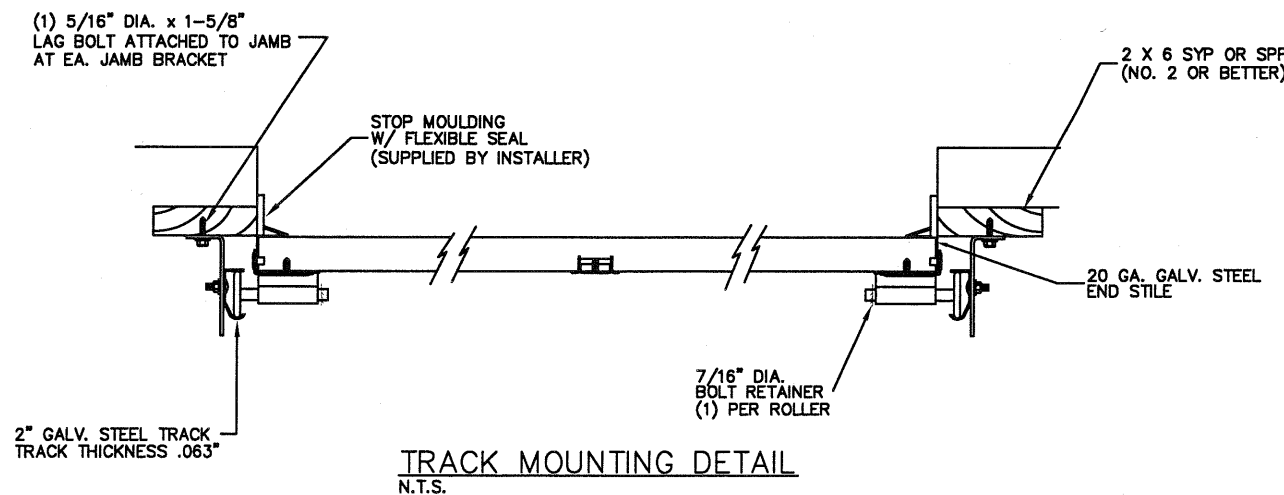
INSIDE ELEVATION
N.T.S.



TYPICAL DURASAFE END HINGE
N.T.S. ④



TYPICAL TOP STRUT ATTACHMENT
N.T.S. ③



TRACK MOUNTING DETAIL
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. 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 ANY SLOPE):

WIND SPEED (MPH)	155	141	134	128	122
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+21.8 PSF
-24.8 PSF

TEST LOADS
+32.7 PSF
-37.2 PSF

FL

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

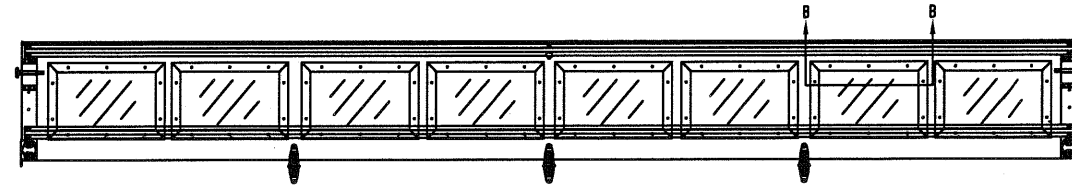
MODEL #1500 AMARR STRATFORD 3000			
MODEL #1200 AMARR HERITAGE 3000			
MODEL #1550 AMARR OAK SUMMIT 3000			
SHORT, LONG, FLUSH & OAK SUMMIT PANELS			

SIZE	DRAWN BY RLR	DATE 05/07/14	DRAWING NUMBER IRC-1516-120-15
B	CHECKED BY RLR	DATE 05/07/14	

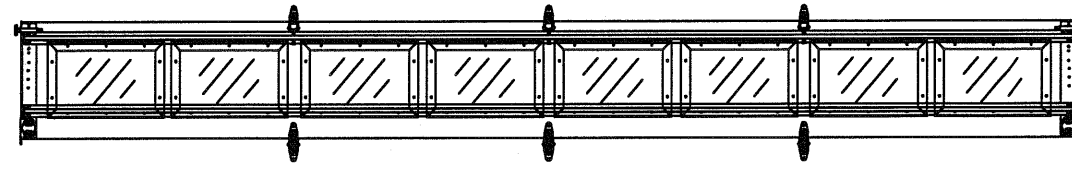
ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 1 OF 4

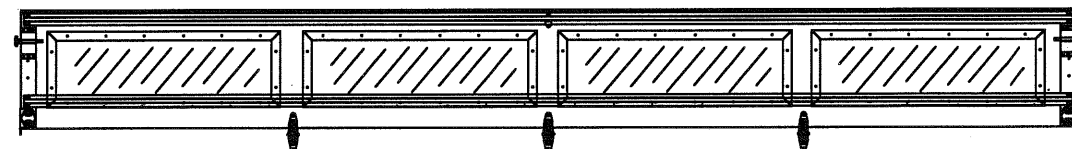
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS



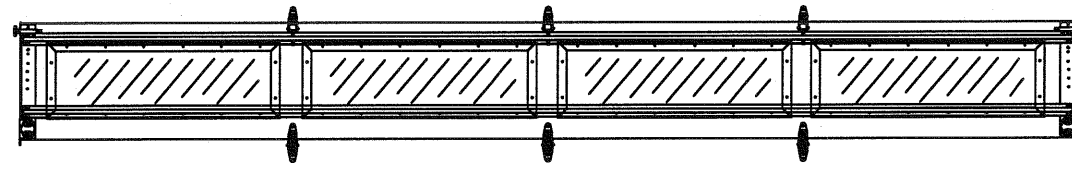
TOP SECTION



INTERMEDIATE SECTION



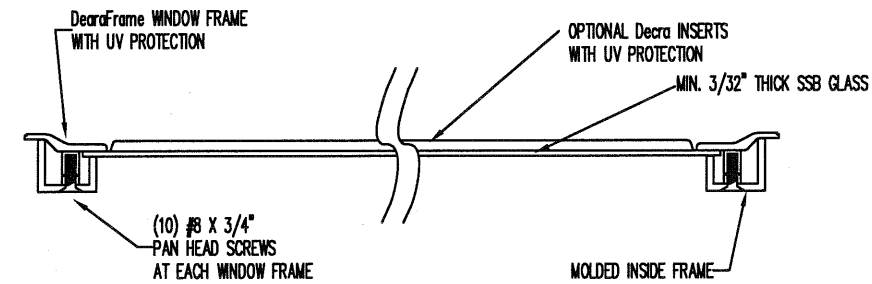
TOP SECTION



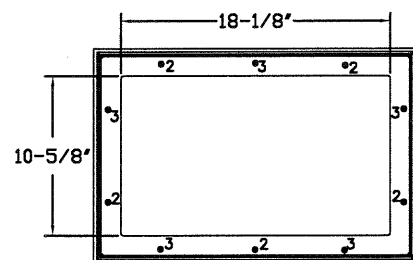
INTERMEDIATE SECTION

GLAZING OPTION CROSS SECTION

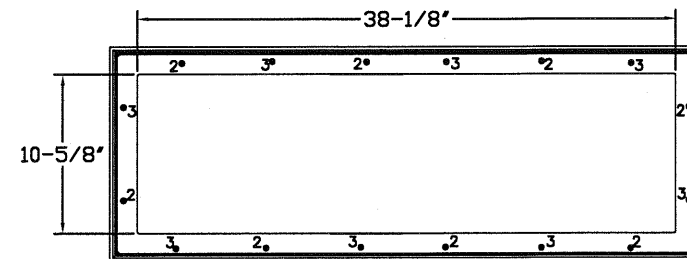
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION



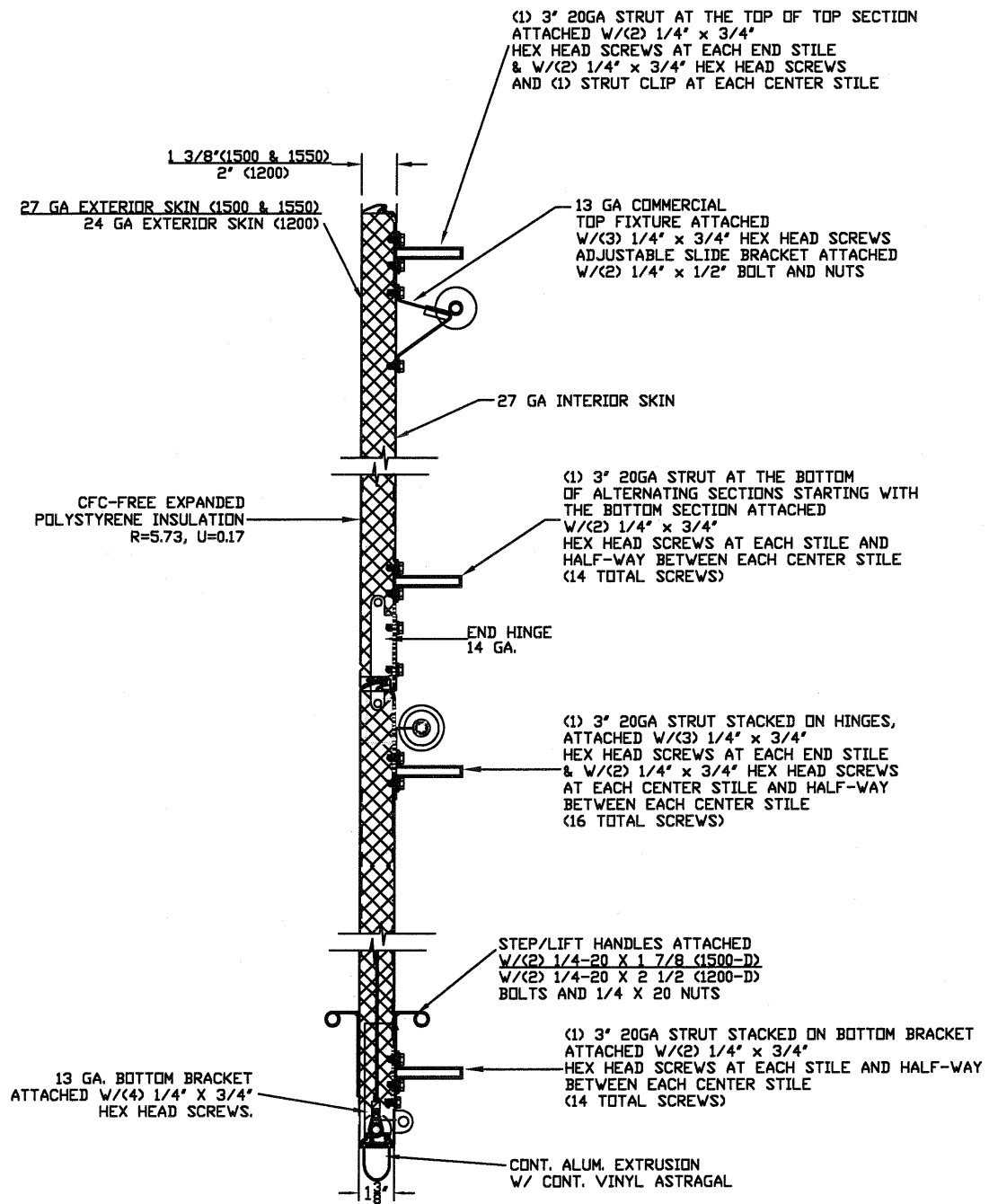
SECTION B-B



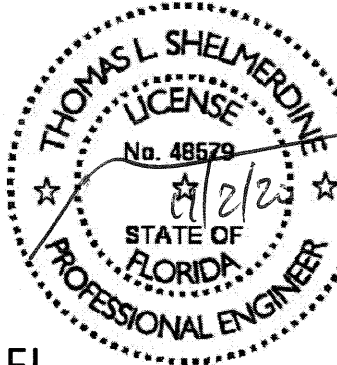
SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.

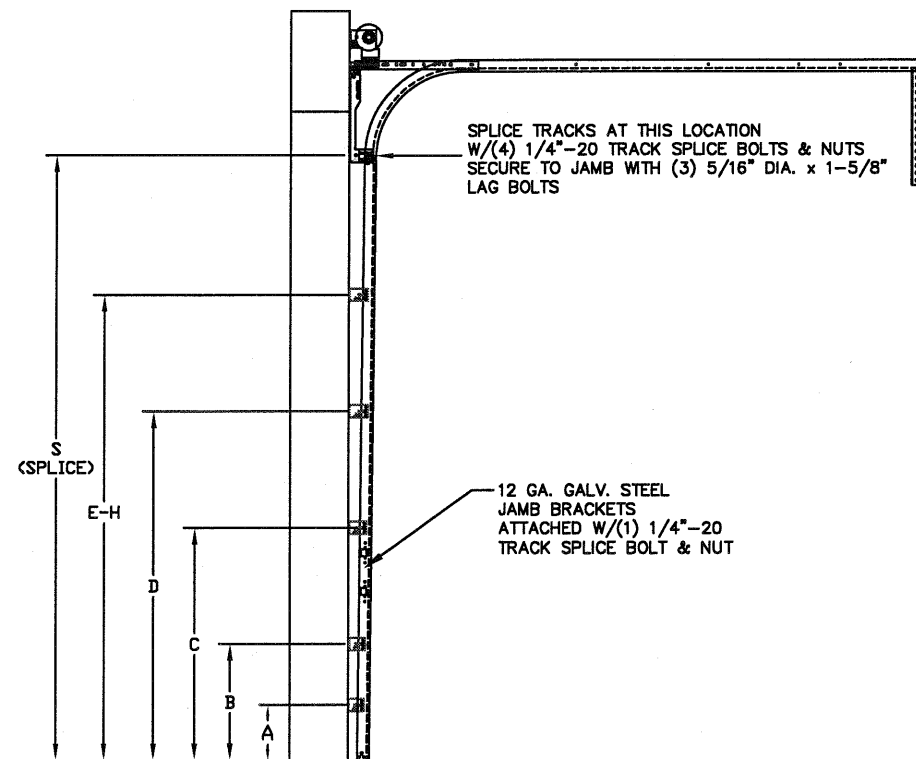


LONG PANEL GLAZING FASTENER DETAIL
N.T.S.



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

REV	DESCRIPTIONS OF REVISIONS	DATE	BY
MAX SIZE 16' x 14' DESIGN LOADS +21.8 PSF -24.8 PSF TEST LOADS +32.7 PSF -37.2 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 #1500 AMARR STRATFORD 3000 MODEL #1200 AMARR HERITAGE 3000 MODEL #1550 AMARR OAK SUMMIT 3000 SHORT, LONG, FLUSH & OAK SUMMIT PANELS			
SIZE	DRAWN BY	R/LR	DATE 05/07/14
B	CHECKED BY	R/LR	DATE 05/07/14
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IRC-1516-120-15 SHEET 2 OF 4



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS (SEE TABLE 1)
N.T.S.

TABLE 1

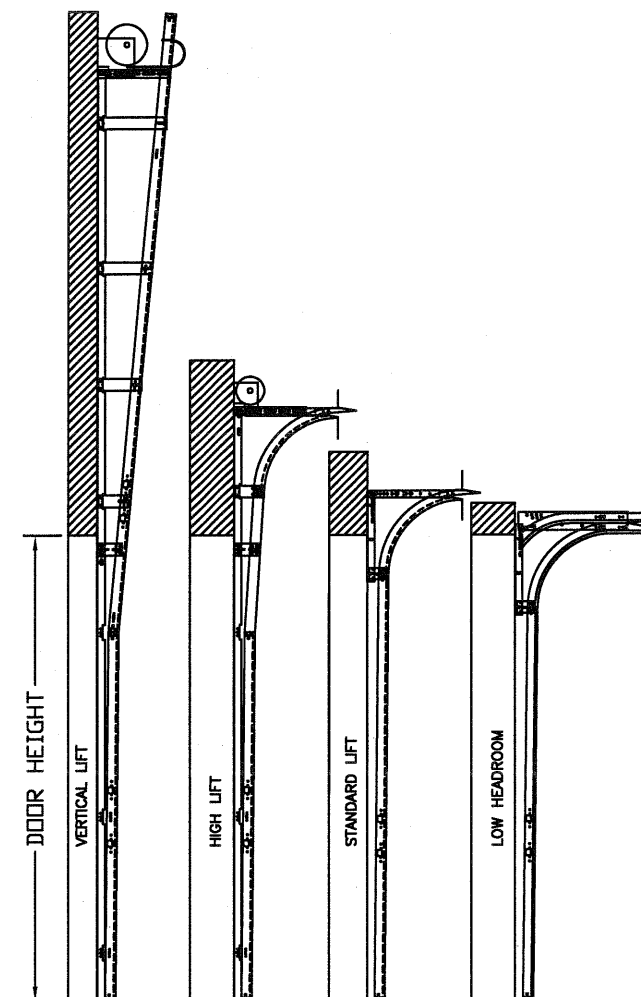
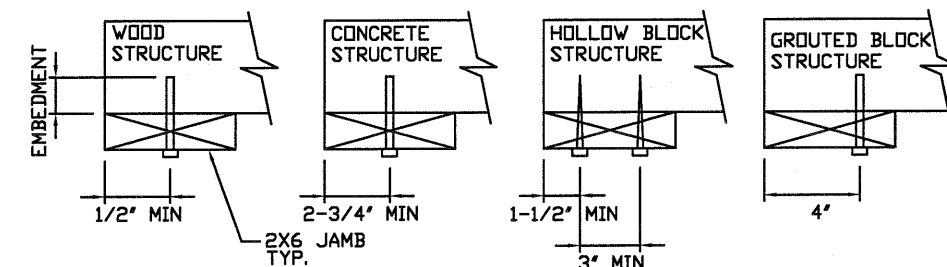
DOOR HEIGHT	TRACK ATTACHMENT								SPlice
	A	B	C	D	E	F	G	H	
6' 6"	10"	21"	42"	63"					70"
7'	10"	21"	42"	63"					76"
7' 6"	10"	21"	42"	63"					82"
8'	10"	21"	42"	63"					88"
8' 6"	10"	21"	42"	63"	84"				94"
9'	10"	21"	42"	63"	84"				100"
9' 6"	10"	21"	42"	63"	84"				106"
10'	10"	21"	42"	63"	84"	105"			112"
10' 6"	10"	21"	42"	63"	84"	105"			118"
11'	10"	21"	42"	63"	84"	105"			124"
11' 6"	10"	21"	42"	63"	84"	105"			130"
12'	10"	21"	42"	63"	84"	105"	126"		136"
12' 6"	10"	21"	42"	63"	84"	105"	126"		142"
13'	10"	21"	42"	63"	84"	105"	126"		148"
13' 6"	10"	21"	42"	63"	84"	105"	126"	147"	154"
14'	10"	21"	42"	63"	84"	105"	126"	147"	160"

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

WOOD JAMB ATTACHMENT TO STRUCTURE

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 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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+21.8 PSF
-24.8 PSF

TEST LOADS
+32.7 PSF
-37.2 PSF

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

FL

Thomas L. Shelmerdine, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

MODEL #1500 AMARR STRATFORD 3000
 MODEL #1200 AMARR HERITAGE 3000
 MODEL #1550 AMARR OAK SUMMIT 3000
 SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE B	DRAWN BY RLR	DATE 05/07/14	DRAWING NUMBER IRC-1516-120-15
CHECKED BY RLR	DATE 05/07/14	SHEET 3 OF 4	

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

TABLE 2

Section	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
10' 0	Short	48.41	71.59			29.1	33.1
10' 0	Long	60.00				17.4	19.7
10' 0	Oak Summit	60.00				17.4	19.7
12' 0	Short	48.81	95.19			21.9	24.9
12' 0	Long	49.63	94.38			22.1	25.1
12' 0	Oak Summit	48.31	95.69			21.8	24.8
12' 2	Short	49.64	96.36			21.6	24.6
12' 2	Long	50.08	95.92			21.7	24.7
12' 2	Oak Summit	49.06	96.94			21.5	24.4
12' 4	Short	50.64	97.36			21.4	24.3
12' 4	Long	51.08	96.92			21.5	24.4
12' 4	Oak Summit	49.81	98.19			21.2	24.1
12' 6	Short	50.67	99.33			21.0	23.8
12' 6	Long	51.17	98.83			21.1	24.0
12' 6	Oak Summit	50.56	99.44			20.9	23.8
12' 8	Short	51.67	100.33			20.8	23.6
12' 8	Long	52.10	99.90			20.8	23.7
12' 8	Oak Summit	51.31	100.69			20.7	23.5
12' 10	Short	52.25	101.75			20.5	23.3
12' 10	Long	53.10	100.90			20.6	23.5
12' 10	Oak Summit	52.06	101.94			20.4	23.2
13' 0	Short	53.00	103.00			20.2	23.0
13' 0	Long	54.10	101.90			20.4	23.2
13' 0	Oak Summit	52.81	103.19			20.2	23.0
13' 2	Short	54.00	104.00			20.0	22.8
13' 2	Long	55.10	102.90			20.2	23.0
13' 2	Oak Summit	53.56	104.44			19.9	22.7
13' 4	Short	54.40	105.60			19.7	22.4
13' 4	Long	54.90	105.10			19.8	22.5
13' 4	Oak Summit	54.31	105.69			19.7	22.4
13' 6	Short	55.40	106.60			19.5	22.2
13' 6	Long	55.90	106.10			19.6	22.3
13' 6	Oak Summit	55.06	106.94			19.5	22.2
13' 8	Short	56.40	107.60			19.4	22.0
13' 8	Long	56.63	107.38			19.4	22.1
13' 8	Oak Summit	55.81	108.19			19.2	21.9
13' 10	Short	57.16	83.00	108.71		25.1	28.5
13' 10	Long	57.17	108.83			19.1	21.8
13' 10	Oak Summit	56.56	109.44			19.0	21.6

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+21.8 PSF
-24.8 PSF

TEST LOADS
+32.7 PSF
-37.2 PSF

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

THOMAS L. SHELMERDINE
LICENSE
No. 48579
4/2/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

Amarr

MODEL #1500 AMARR STRATFORD 3000
MODEL #1200 AMARR HERITAGE 3000
MODEL #1550 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	05/07/14	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	05/07/14	IRC-1516-120-15
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 4 OF 4