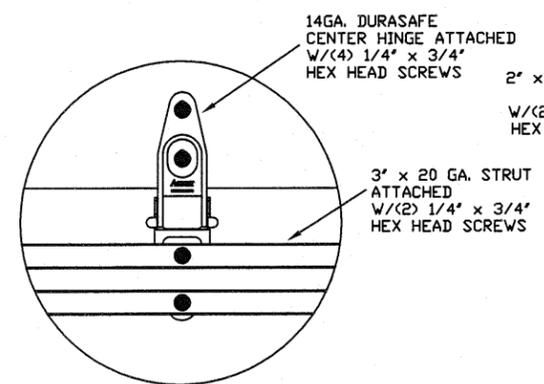
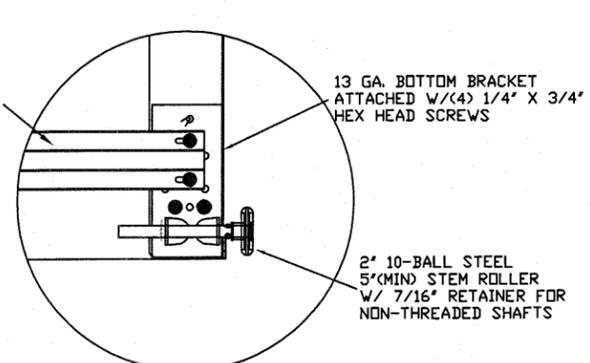


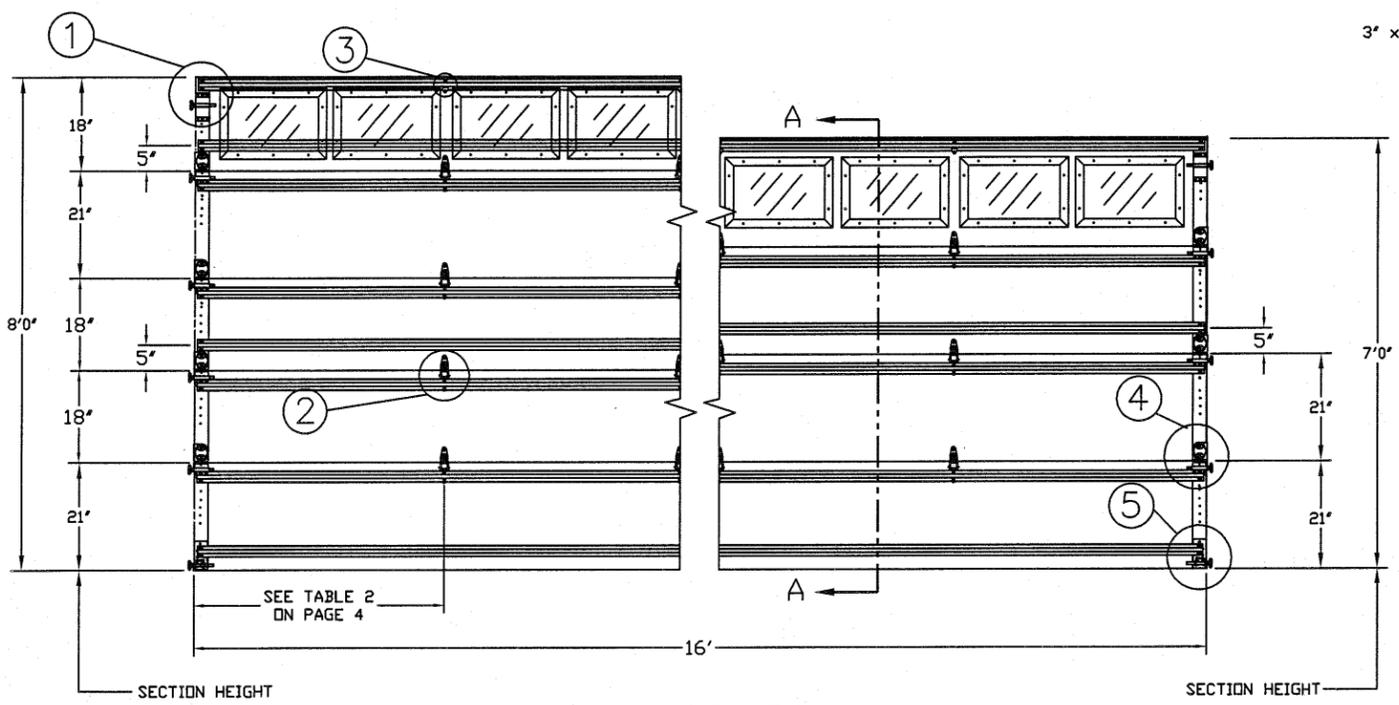
TYPICAL TOP FIXTURES  
N.T.S. ①



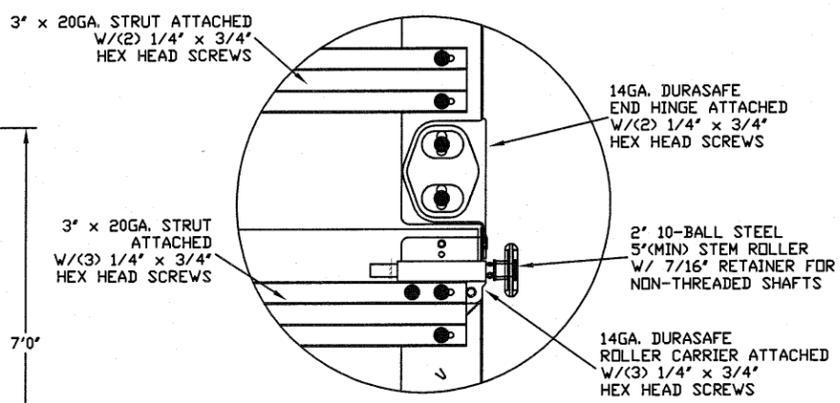
TYPICAL DURASAFE CENTER HINGE  
N.T.S. ②



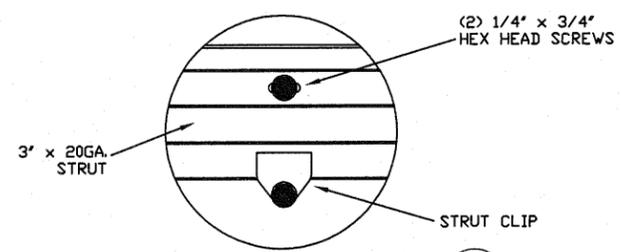
TYPICAL BOTTOM BRACKET  
N.T.S. ⑤



INSIDE ELEVATION  
N.T.S.



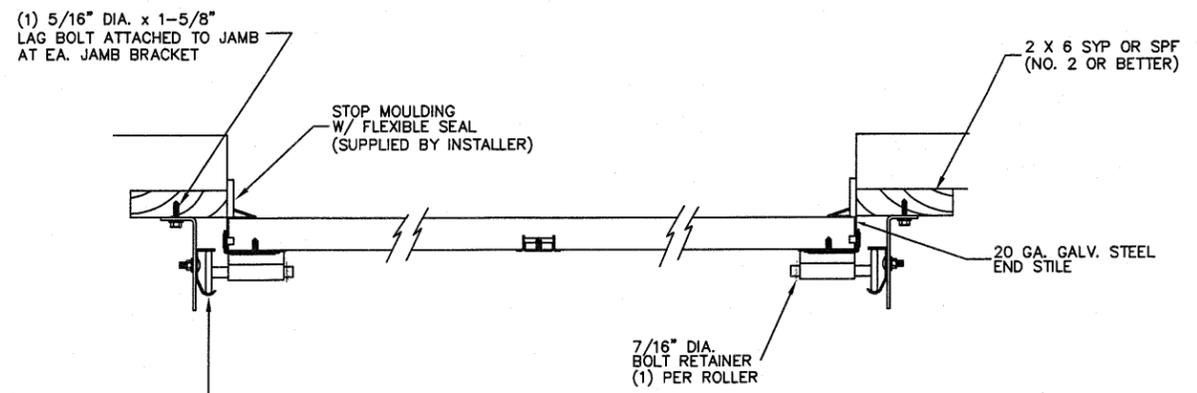
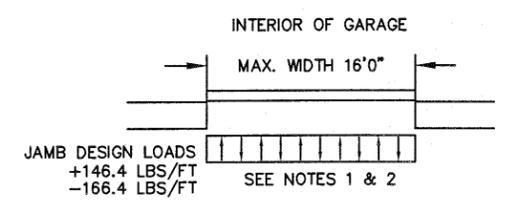
TYPICAL DURASAFE END HINGE  
N.T.S. ④



TYPICAL TOP STRUT ATTACHMENT  
N.T.S. ③

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: +146.4 LBS/FT & -166.4 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.



TRACK MOUNTING DETAIL  
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	110	100	95	91	87
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 +18.3 PSF -20.8 PSF

TEST LOADS +27.5 PSF -31.2 PSF

Thomas L. Shelmerdine, PE (TX #85829) Structural Solutions, PA (TX Firm #F-004063)

TX

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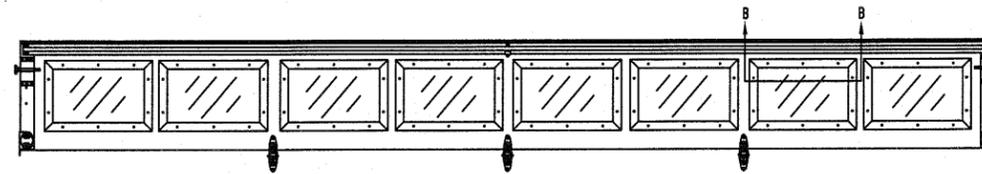
MODEL #1500 STRATFORD 3000  
MODEL #1200 HERITAGE 3000  
MODEL #1550 OAK SUMMIT 3000  
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	04/22/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1516-110-15

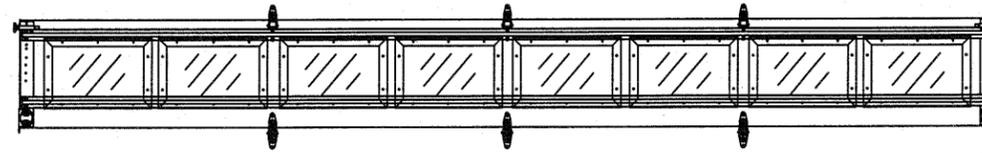
SHEET 1 OF 4

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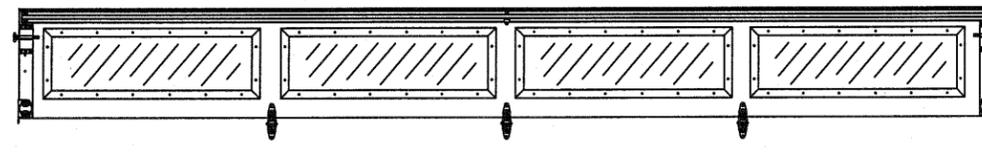
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS  
GLAZING MEETS ASTM E1300-04



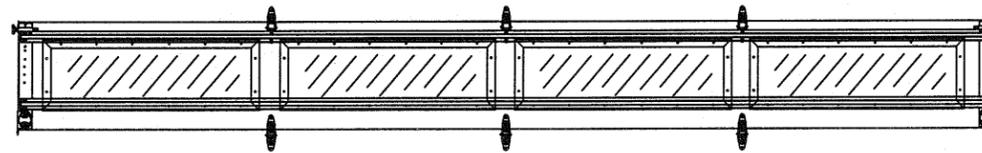
TOP SECTION



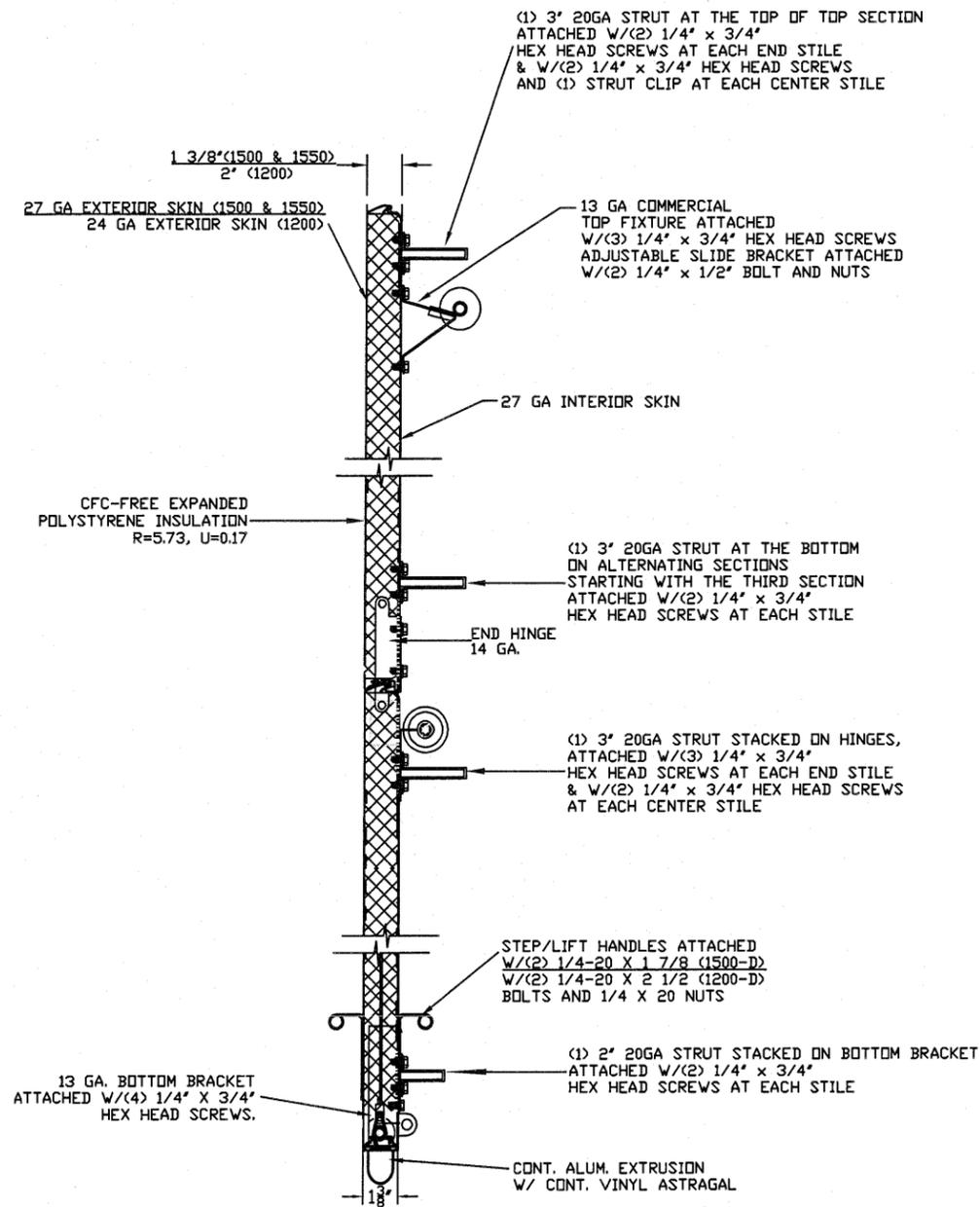
INTERMEDIATE SECTION



TOP SECTION



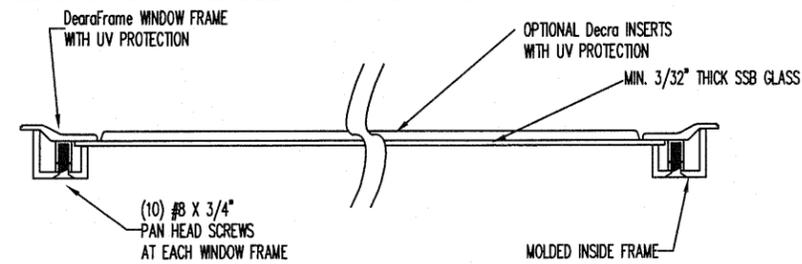
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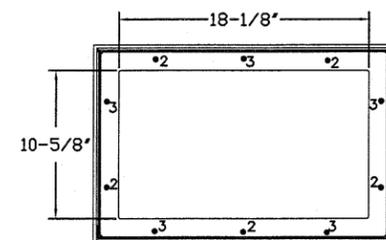
SECTION A-A (SIDE VIEW)  
N.T.S.

GLAZING OPTION CROSS SECTION

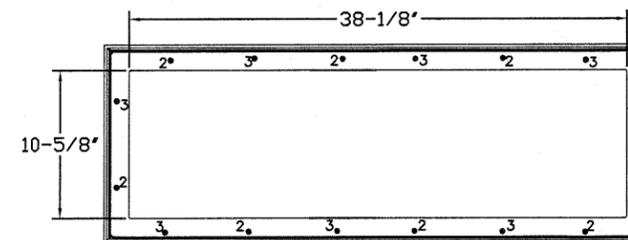
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION



SECTION B-B



SHORT PANEL GLAZING FASTENER DETAIL  
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL  
N.T.S.

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE  
16' x 14'

DESIGN LOADS  
+18.3 PSF  
-20.8 PSF

TEST LOADS  
+27.5 PSF  
-31.2 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #004063)

TX

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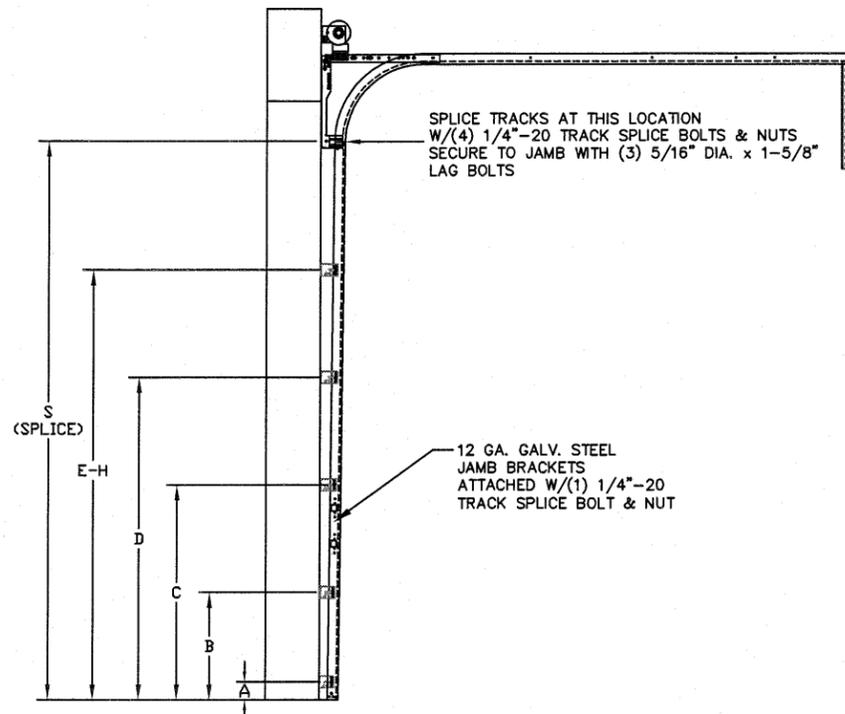
**Amarr**

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

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

SIZE	DRAWN BY	RLR	DATE	04/22/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1516-110-15

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

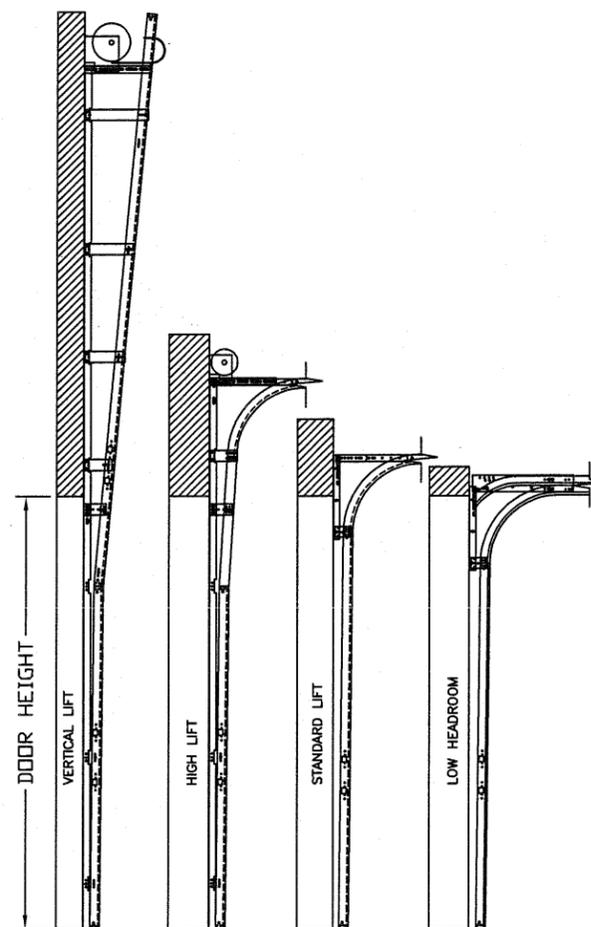
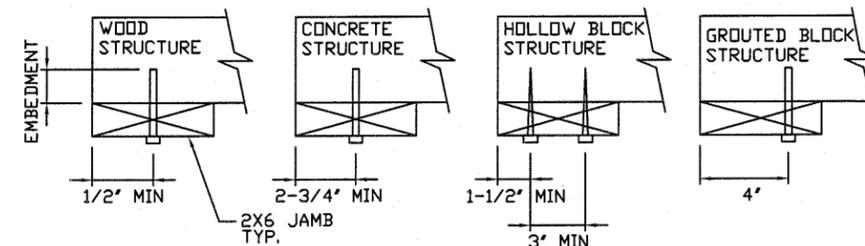
**2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE**  
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

**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 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



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE  
16' x 14'

DESIGN LOADS  
+18.3 PSF  
-20.8 PSF

TEST LOADS  
+27.5 PSF  
-31.2 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #004063)

STATE OF TEXAS  
THOMAS L. SHELMERDINE  
85829  
LICENSED PROFESSIONAL ENGINEER  
TX

5921-G W. Friendly Ave., Greensboro, NC 27410

**Amarr**  
ENTRE/MATIC  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105  
MODEL #1500 STRATFORD 3000  
MODEL #1200 HERITAGE 3000  
MODEL #1550 OAK SUMMIT 3000  
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	04/22/14	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1516-110-15

SHEET 3 OF 4

TABLE 2

Section Width (ft)	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			24.4	27.8
10' 0	Long	30.00	60.00	90.00		29.1	33.1
10' 0	Oak Summit	30.63	60.00	89.38		29.1	33.1
12' 0	Short	48.81	72.00	95.19		24.3	27.6
12' 0	Long	49.63	72.00	94.38		24.3	27.6
12' 0	Oak Summit	48.31	72.00	95.69		24.3	27.6
12' 2	Short	49.64	73.00	96.36		23.9	27.2
12' 2	Long	50.08	73.00	95.92		23.9	27.2
12' 2	Oak Summit	49.06	73.00	96.94		23.9	27.2
12' 4	Short	50.64	74.00	97.36		23.6	26.8
12' 4	Long	51.08	74.00	96.92		23.6	26.8
12' 4	Oak Summit	49.81	74.00	98.19		23.6	26.8
12' 6	Short	50.67	75.00	99.33		23.3	26.5
12' 6	Long	51.17	75.00	98.83		23.3	26.5
12' 6	Oak Summit	50.56	75.00	99.44		23.3	26.5
12' 8	Short	51.67	76.00	100.33		23.0	26.1
12' 8	Long	52.10	76.00	99.90		23.0	26.1
12' 8	Oak Summit	51.31	76.00	100.69		23.0	26.1
12' 10	Short	52.25	77.00	101.75		22.7	25.8
12' 10	Long	53.10	77.00	100.90		22.7	25.8
12' 10	Oak Summit	52.06	77.00	101.94		22.7	25.8
13' 0	Short	53.00	78.00	103.00		22.4	25.5
13' 0	Long	54.10	78.00	101.90		22.4	25.5
13' 0	Oak Summit	52.81	78.00	103.19		22.4	25.5
13' 2	Short	54.00	79.00	104.00		22.1	25.1
13' 2	Long	55.10	79.00	102.90		22.1	25.1
13' 2	Oak Summit	53.56	79.00	104.44		22.1	25.1
13' 4	Short	54.40	80.00	105.60		21.9	24.8
13' 4	Long	54.90	80.00	105.10		21.9	24.8
13' 4	Oak Summit	54.31	80.00	105.69		21.9	24.8
13' 6	Short	55.40	81.00	106.60		21.6	24.5
13' 6	Long	55.90	81.00	106.10		21.6	24.5
13' 6	Oak Summit	55.06	81.00	106.94		21.6	24.5
13' 8	Short	56.40	82.00	107.60		21.3	24.2
13' 8	Long	56.63	82.00	107.38		21.3	24.2
13' 8	Oak Summit	55.81	82.00	108.19		21.3	24.2
13' 10	Short	57.16	83.00	108.71		21.1	23.9
13' 10	Long	57.17	83.00	108.83		21.1	23.9
13' 10	Oak Summit	56.56	83.00	109.44		21.1	23.9

Section Width (ft)	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)
14' 0	Short	57.76	84.00	110.11		20.8	23.7
14' 0	Long	58.63	84.00	109.38		20.8	23.7
14' 0	Oak Summit	57.31	84.00	110.69		20.8	23.7
14' 2	Short	58.85	85.00	111.41		20.6	23.4
14' 2	Long	59.17	85.00	110.83		20.6	23.4
14' 2	Oak Summit	58.06	85.00	111.94		20.6	23.4
14' 4	Short	59.16	86.00	112.71		20.3	23.1
14' 4	Long	60.17	86.00	111.83		20.3	23.1
14' 4	Oak Summit	58.81	86.00	113.19		20.3	23.1
14' 6	Short	59.86	87.00	114.01		20.1	22.8
14' 6	Long	61.17	87.00	112.83		20.1	22.8
14' 6	Oak Summit	59.56	87.00	114.44		20.1	22.8
14' 8	Short	60.56	88.00	115.31		19.9	22.6
14' 8	Long	44.81	88.00	131.19		19.9	22.6
14' 8	Oak Summit	60.31	88.00	115.69		19.9	22.6
14' 10	Short	61.26	89.00	116.61		19.6	22.3
14' 10	Long	45.60	89.00	132.40		19.6	22.3
14' 10	Oak Summit	61.06	89.00	116.94		19.6	22.3
15' 0	Short	61.94	90.00	117.94		19.4	22.1
15' 0	Long	46.60	90.00	133.40		19.4	22.1
15' 0	Oak Summit	33.63	90.00	146.38		15.5	17.6
15' 2	Short	62.66	91.00	119.21		19.2	21.8
15' 2	Long	47.60	91.00	134.40		19.2	21.8
15' 2	Oak Summit	34.13	91.00	147.88		15.4	17.5
15' 4	Short	53.60	79.20	104.80	130.40	19.0	21.6
15' 4	Long	47.25	92.00	136.75		19.0	21.6
15' 4	Oak Summit	34.63	92.00	149.38		15.2	17.3
15' 6	Short	46.62	93.00	139.38		18.8	21.4
15' 6	Long	47.60	93.00	138.40		18.8	21.4
15' 6	Oak Summit	47.42	93.00	138.58		18.8	21.4
15' 8	Short	47.62	94.00	140.38		18.6	21.1
15' 8	Long	48.60	94.00	139.40		18.6	21.1
15' 8	Oak Summit	48.02	94.00	139.98		18.6	21.1
15' 10	Short	48.62	95.00	141.38		18.4	20.9
15' 10	Long	49.17	95.00	140.83		18.4	20.9
15' 10	Oak Summit	48.62	95.00	141.38		18.4	20.9
16' 0	Short	49.62	96.00	142.38		18.3	20.8
16' 0	Long	50.60	96.00	141.40		18.3	20.8
16' 0	Oak Summit	48.42	96.00	143.58		18.3	20.8

REV	DESCRIPTIONS OF REVISIONS	DATE	BY

MAX SIZE  
16' x 14'

DESIGN LOADS  
+18.3 PSF  
-20.8 PSF

TEST LOADS  
+27.5 PSF  
-31.2 PSF



TX

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**ENTREMATIC**  
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**MODEL #1500 STRATFORD 3000**  
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**SHORT, LONG, FLUSH & OAK SUMMIT PANELS**

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B	CHECKED BY		DATE		IRC-1516-110-15

SHEET 4 OF 4