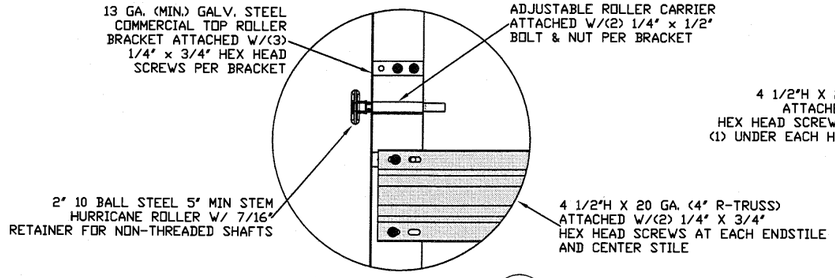
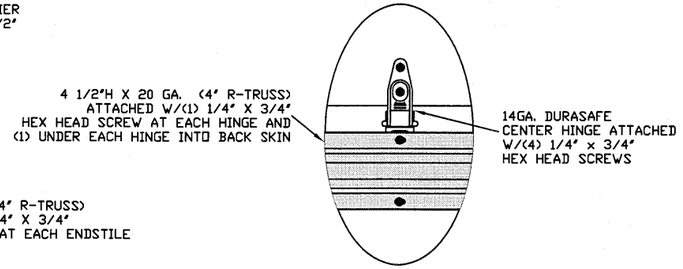


TYPICAL TOP FIXTURES 1
N.T.S.



TYPICAL DURASAFE CENTER HINGE 2
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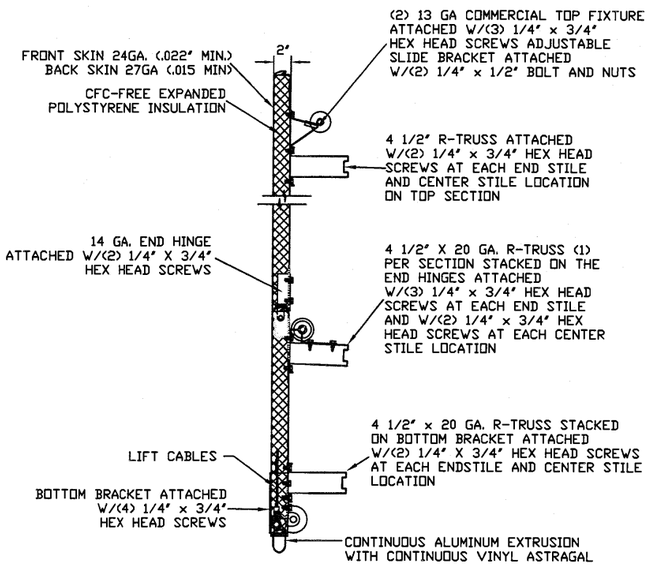
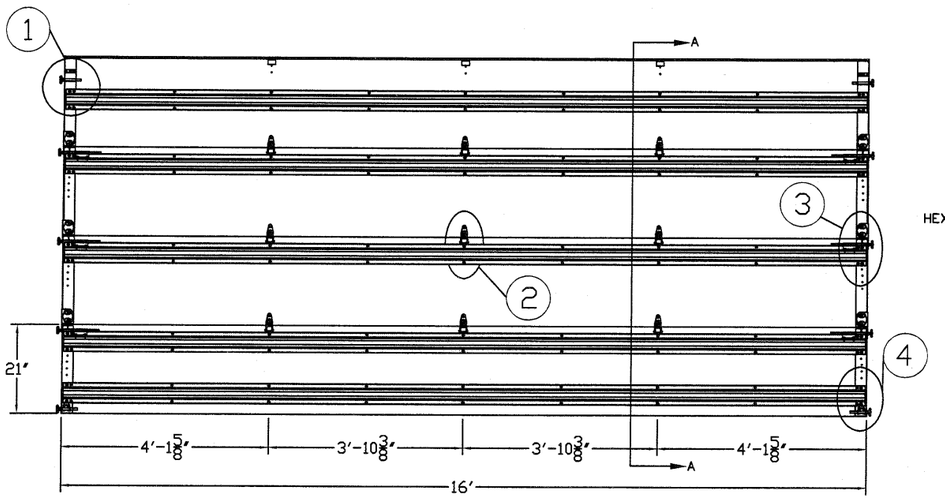
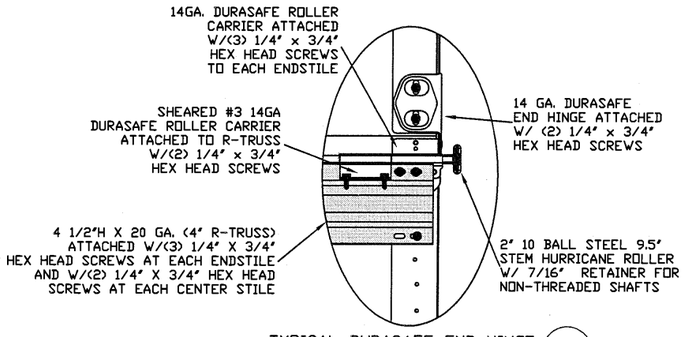


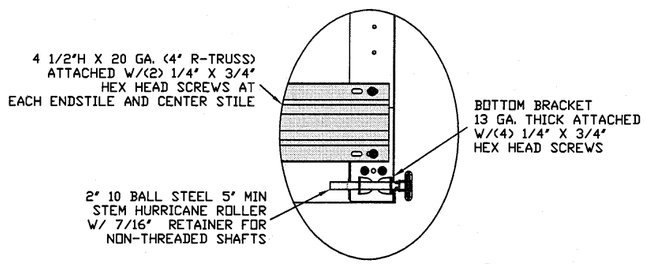
SECTION A-A (SIDE VIEW)
N.T.S.



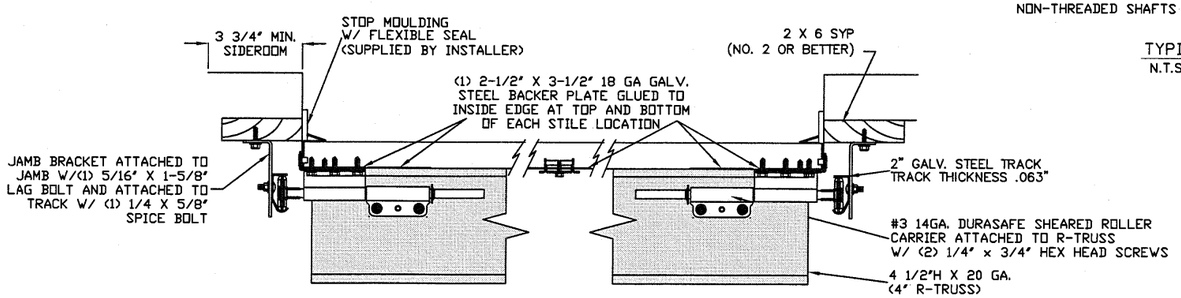
INSIDE ELEVATION
N.T.S.



TYPICAL DURASAFE END HINGE 3
N.T.S.



TYPICAL BOTTOM BRACKET 4
N.T.S.



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):

WIND SPEED (MPH)	140	127	121	115	111
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+29.7 PSF
-33.8 PSF

TEST LOADS
+44.6 PSF
-50.7 PSF

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

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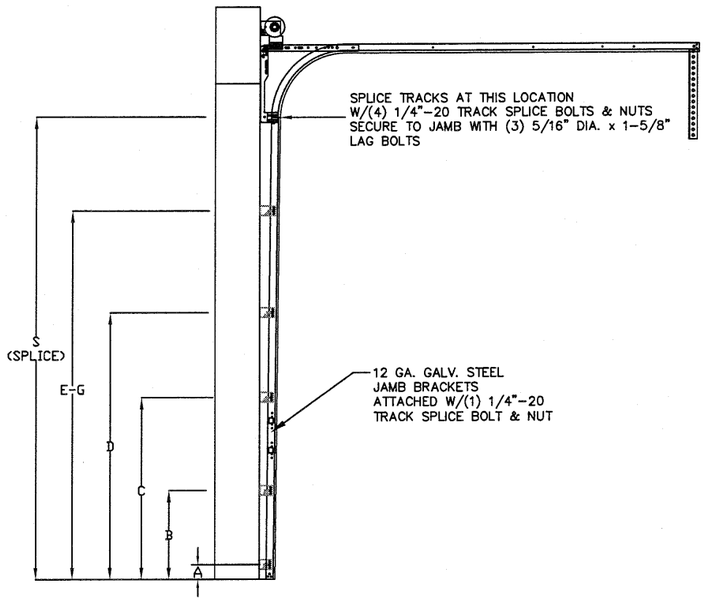
Amarr

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

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

SIZE	DRAWN BY	RLR	DATE 8/13/12	DRAWING NUMBER
B	CHECKED BY		DATE	IRC-1216-140-24
				SHEET 1 OF 3



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS (SEE TABLE 1)

N.T.S.

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12' 0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11' 0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
9'6"	21"	18"	18"	18"	18"	21"		
9' 0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8' 0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

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 20" 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 18" 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 8" 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 8" 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 20" 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

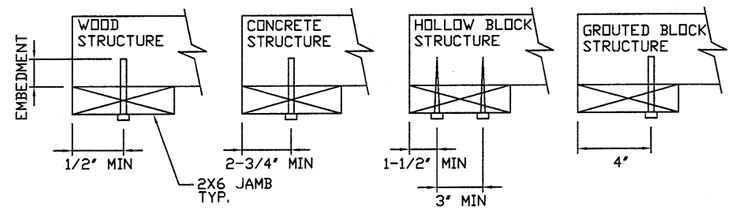
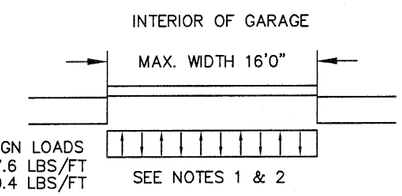


TABLE 1

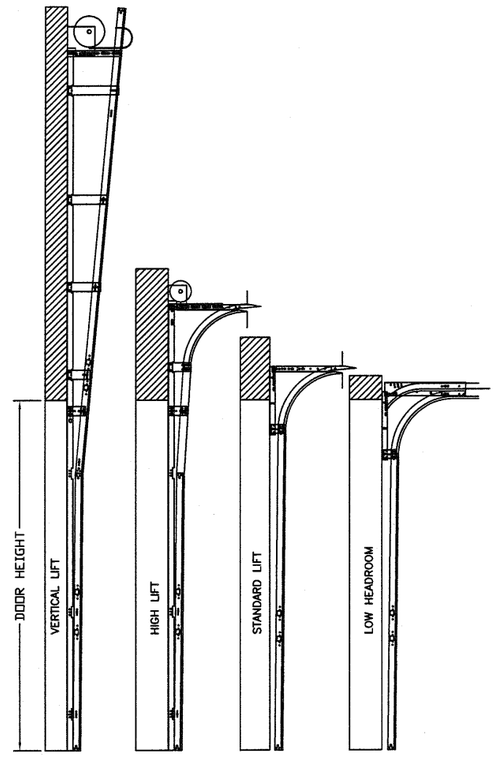
DOOR HEIGHT	TRACK ATTACHMENT							SPLICE
	A	B	C	D	E	F	G	S
6' 6"	3.5"	22"	41"	63"				70"
7'	3.5"	22"	41"	63"				76"
7' 6"	3.5"	22"	41"	63"				82"
8'	3.5"	22"	41"	63"				88"
8' 6"	3.5"	22"	41"	63"	87"			94"
9'	3.5"	22"	41"	63"	87"			100"
9' 6"	3.5"	22"	41"	63"	87"			106"
10'	3.5"	22"	41"	63"	87"			112"
10' 6"	3.5"	22"	41"	63"	87"	111"		118"
11'	3.5"	22"	41"	63"	87"	111"		124"
11' 6"	3.5"	22"	41"	63"	87"	111"		130"
12'	3.5"	22"	41"	63"	87"	111"		136"
12'6"	3.5"	22"	41"	63"	87"	111"	135"	142"
13'	3.5"	22"	41"	63"	87"	111"	135"	148"
13' 6"	3.5"	22"	41"	63"	87"	111"	135"	154"
14'	3.5"	22"	41"	63"	87"	111"	135"	160"

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



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: +237.6 LBS/FT & -270.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (1) 4.5" R-TRUSS PER SECTION AND (2) 4.5" 20GA R-TRUSSES ON BTM. SECTION
6. DOORS OVER (4) SECTIONS REFER TO TABLE 2
7. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



AVAILABLE TRACK CONFIGURATIONS

N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+29.7 PSF
-33.8 PSF

TEST LOADS
+44.6 PSF
-50.7 PSF

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

STATE OF TEXAS
THOMAS L. SHELMERDINE
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TX

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

SIZE	DRAWN BY	RLR	DATE	8/13/12	DRAWING NUMBER
B	CHECKED BY		DATE		IRC-1216-140-24
					SHEET 2 OF 3

TABLE 3

Section Width (ft)	Panel Type	Center Stile Locations 1st (in)	2st (in)	3rd (in)	Max Design Loads Allowed Positive (PSF)	Negitive (PSF)
10' 0	Short	48.41	71.59		39.6	45.1
10' 0	Long	30.00	60.00	90.00	47.3	53.8
10' 0	Oak Summit	30.63	60.00	89.38	47.3	53.8
12' 0	Short	48.81	72.00	95.19	39.4	44.8
12' 0	Long	49.63	72.00	94.38	39.4	44.8
12' 0	Oak Summit	48.31	72.00	95.69	39.4	44.8
12' 2	Short	49.64	73.00	96.36	38.9	44.2
12' 2	Long	50.08	73.00	95.92	38.9	44.2
12' 2	Oak Summit	49.06	73.00	96.94	38.9	44.2
12' 4	Short	50.64	74.00	97.36	38.3	43.6
12' 4	Long	51.08	74.00	96.92	38.3	43.6
12' 4	Oak Summit	49.81	74.00	98.19	38.3	43.6
12' 6	Short	50.67	75.00	99.33	37.8	43.0
12' 6	Long	51.17	75.00	98.83	37.8	43.0
12' 6	Oak Summit	50.56	75.00	99.44	37.8	43.0
12' 8	Short	51.67	76.00	100.33	37.3	42.5
12' 8	Long	52.10	76.00	99.90	37.3	42.5
12' 8	Oak Summit	51.31	76.00	100.69	37.3	42.5
12' 10	Short	52.25	77.00	101.75	36.8	41.9
12' 10	Long	53.10	77.00	100.90	36.8	41.9
12' 10	Oak Summit	52.06	77.00	101.94	36.8	41.9
13' 0	Short	53.00	78.00	103.00	36.4	41.4
13' 0	Long	54.10	78.00	101.90	36.4	41.4
13' 0	Oak Summit	52.81	78.00	103.19	36.4	41.4
13' 2	Short	54.00	79.00	104.00	35.9	40.9
13' 2	Long	55.10	79.00	102.90	35.9	40.9
13' 2	Oak Summit	53.56	79.00	104.44	35.9	40.9
13' 4	Short	54.40	80.00	105.60	35.5	40.4
13' 4	Long	54.90	80.00	105.10	35.5	40.4
13' 4	Oak Summit	54.31	80.00	105.69	35.5	40.4
13' 6	Short	55.40	81.00	106.60	35.0	39.9
13' 6	Long	55.90	81.00	106.10	35.0	39.9
13' 6	Oak Summit	55.06	81.00	106.94	35.0	39.9
13' 8	Short	56.40	82.00	107.60	34.6	39.4
13' 8	Long	56.63	82.00	107.38	34.6	39.4
13' 8	Oak Summit	55.81	82.00	108.19	34.6	39.4
13' 10	Short	57.16	83.00	108.71	34.2	38.9
13' 10	Long	57.17	83.00	108.83	34.2	38.9
13' 10	Oak Summit	56.56	83.00	109.44	34.2	38.9

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge) 1st (in)	2st (in)	3rd (in)	4th (in)	Max Design Loads Allowed Positive (PSF)	Negitive (PSF)
14' 0	Short	57.76	84.00	110.11		33.8	38.4
14' 0	Long	58.63	84.00	109.38		33.8	38.4
14' 0	Oak Summit	57.31	84.00	110.69		33.8	38.4
14' 2	Short	58.85	85.00	111.41		33.4	38.0
14' 2	Long	59.17	85.00	110.83		33.4	38.0
14' 2	Oak Summit	58.06	85.00	111.94		33.4	38.0
14' 4	Short	59.16	86.00	112.71		33.0	37.5
14' 4	Long	60.17	86.00	111.83		33.0	37.5
14' 4	Oak Summit	58.81	86.00	113.19		33.0	37.5
14' 6	Short	59.86	87.00	114.01		32.6	37.1
14' 6	Long	61.17	87.00	112.83		32.6	37.1
14' 6	Oak Summit	59.56	87.00	114.44		32.6	37.1
14' 8	Short	60.56	88.00	115.31		32.2	36.7
14' 8	Long	44.81	88.00	131.19		32.2	36.7
14' 8	Oak Summit	60.31	88.00	115.69		32.2	36.7
14' 10	Short	61.26	89.00	116.61		31.9	36.3
14' 10	Long	45.60	89.00	132.40		31.9	36.3
14' 10	Oak Summit	61.06	89.00	116.94		31.9	36.3
15' 0	Short	61.94	90.00	117.94		31.5	35.9
15' 0	Long	46.60	90.00	133.40		31.5	35.9
15' 0	Oak Summit	33.63	90.00	146.38		25.2	28.6
15' 2	Short	62.66	91.00	119.21		31.2	35.5
15' 2	Long	47.60	91.00	134.40		31.2	35.5
15' 2	Oak Summit	34.13	91.00	147.88		24.9	28.4
15' 4	Short	53.60	79.20	104.80	130.40	30.8	35.1
15' 4	Long	47.25	92.00	136.75		30.8	35.1
15' 4	Oak Summit	34.63	92.00	149.38		24.7	28.1
15' 6	Short	46.62	93.00	139.38		30.5	34.7
15' 6	Long	47.60	93.00	138.40		30.5	34.7
15' 6	Oak Summit	47.42	93.00	138.58		30.5	34.7
15' 8	Short	47.62	94.00	140.38		30.2	34.3
15' 8	Long	48.60	94.00	139.40		30.2	34.3
15' 8	Oak Summit	48.02	94.00	139.98		30.2	34.3
15' 10	Short	48.62	95.00	141.38		29.9	34.0
15' 10	Long	49.17	95.00	140.83		29.9	34.0
15' 10	Oak Summit	48.62	95.00	141.38		29.9	34.0
16' 0	Short	49.62	96.00	142.38		29.7	33.8
16' 0	Long	50.60	96.00	141.40		29.7	33.8
16' 0	Oak Summit	48.42	96.00	143.58		29.7	33.8

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+29.7 PSF
−33.8 PSF

TEST LOADS
+44.6 PSF
−50.7 PSF

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SIZE	DRAWN BY	RLR	DATE 8/13/12	DRAWING NUMBER
B	CHECKED BY		DATE	IRC-1216-140-24
				SHEET 3 OF 3