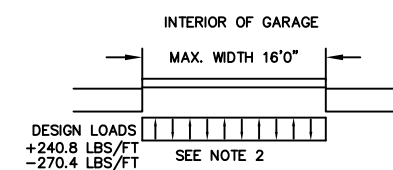


THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	140	127	120	115	110
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



- SPECIFICATIONS AND NOTES**
- 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.
 - EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +240.8 LBS/FT & -270.4 LBS/FT
 - DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
 - DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY
 - 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
A	REVISED (+) PRESSURE UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTIONS	07/05/05	DLJ
B	REVISED NOTE 6	09/02/08	DLJ
C	REMOVED TABLES 4-5, NOTE 7.	05/20/09	CBT
D	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/17/12	RLR

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)

DESIGN LOADS
+30.1 PSF
-33.8 PSF

TEST LOADS
+45.2 PSF
-50.6 PSF



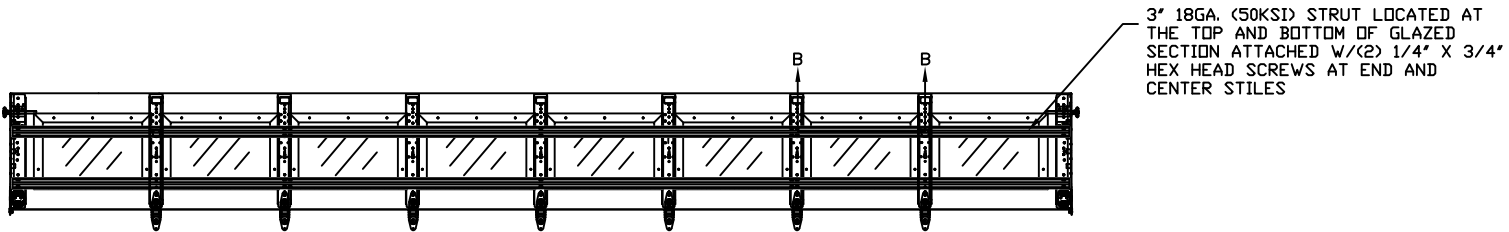
Amarr

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

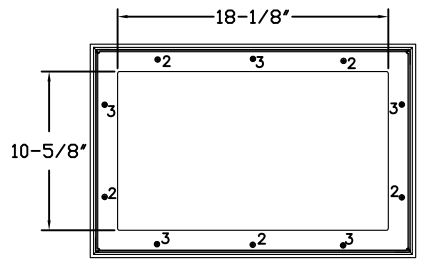
MODEL #650 OAK SUMMIT w/DuraSafe
MODEL #600 STRATFORD w/DuraSafe
MODEL #950 HERITAGE w/DuraSafe
Short, Long, Flush & Oak Summit Panel's

SIZE	DRAWN BY DLJ	DATE 05/22/03	DRAWING NUMBER
B	CHECKED BY AAE	DATE 05/22/03	IRC-6016-140-17
ENGINEER: THOMAS L. SHELMEARDINE P.E. LIC. No. 0048579			SHEET 1 OF 3

WOOD JAMB ATTACHMENT TO STRUCTURE



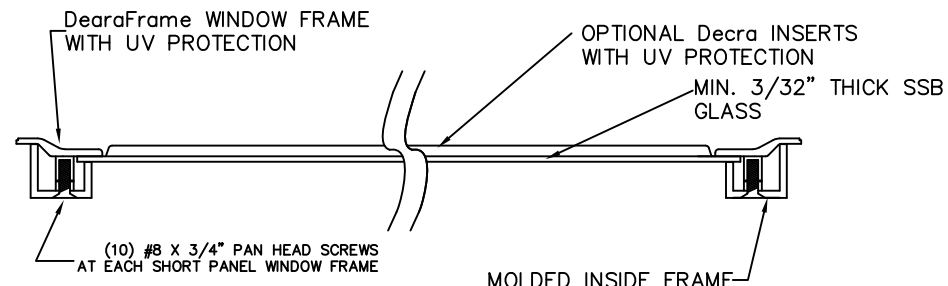
OPTIONAL SHORT PANEL GLAZED SECTION STRUT AND STILE LAYOUT



SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.

GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



SECTION B-B

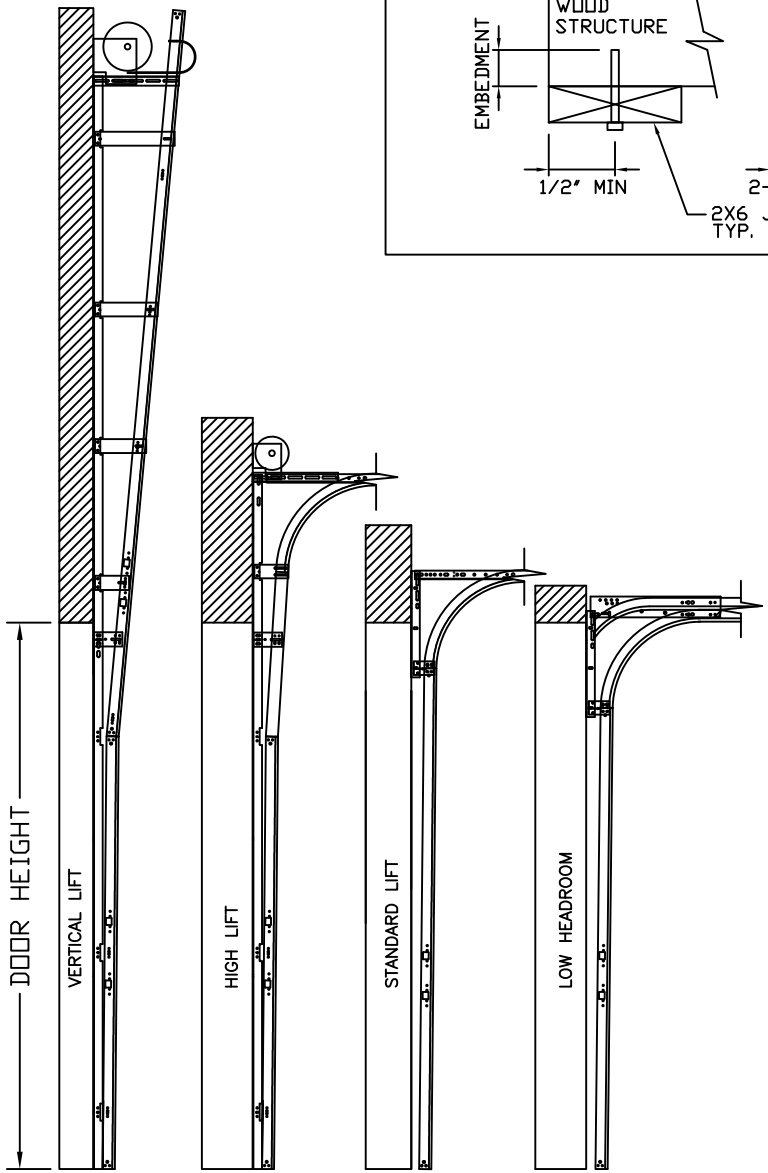
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 18" O.C. (1 1/2" EMBEDMENT)

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 16" 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)

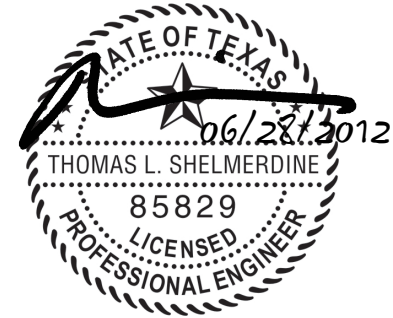
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	REVISED (+) PRESSURE UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTIONS	07/05/05	DLJ
B	REVISED NOTE 6	09/02/08	DLJ
C	REMOVED TABLES 4-5, NOTE 7.	05/20/09	CBT
D	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/17/12	RLR

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT SUBJECT TO WEIGHT LIMITATIONS)
DESIGN LOADS
+30.1 PSF
-33.8 PSF
TEST LOADS
+45.2 PSF
-50.6 PSF



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MODEL #650 OAK SUMMIT w/DuraSafe
MODEL #600 STRATFORD w/DuraSafe
MODEL #950 HERITAGE w/DuraSafe
Short, Long, Flush & Oak Summit Panel's

SIZE	DRAWN BY	DLJ	DATE	05/22/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	05/22/03	IRC-6016-140-17

ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 2 OF 3

TABLE 4

Section	Panel Type	Center Stile Locations (Measured from Left Edge)						
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)	7th (in)
10' 0	Short	25.22	48.41	71.59	94.78			
10' 0	Long	30.00	60.00	90.00				
10' 0	Oak Summit	30.63	60.00	89.38				
12' 0	Short	25.62	48.81	72.00	95.19	118.38		
12' 0	Long	27.25	49.63	72.00	94.38	116.75		
12' 0	Oak Summit	24.63	48.31	72.00	95.69	119.38		
12' 2	Short	26.27	49.64	73.00	96.36	119.73		
12' 2	Long	27.17	50.08	73.00	95.92	118.83		
12' 2	Oak Summit	25.13	49.06	73.00	96.94	120.88		
12' 4	Short	27.27	50.64	74.00	97.36	120.73		
12' 4	Long	28.17	51.08	74.00	96.92	119.83		
12' 4	Oak Summit	25.63	49.81	74.00	98.19	122.38		
12' 6	Short	26.34	50.67	75.00	99.33	123.66		
12' 6	Long	27.34	51.17	75.00	98.83	122.66		
12' 6	Oak Summit	26.13	50.56	75.00	99.44	123.88		
12' 8	Short	27.34	51.67	76.00	100.33	124.66		
12' 8	Long	28.20	52.10	76.00	99.90	123.80		
12' 8	Oak Summit	26.63	51.31	76.00	100.69	125.38		
12' 10	Short	27.50	52.25	77.00	101.75	126.50		
12' 10	Long	29.20	53.10	77.00	100.90	124.80		
12' 10	Oak Summit	27.13	52.06	77.00	101.94	126.88		
13' 0	Short	28.00	53.00	78.00	103.00	128.00		
13' 0	Long	30.20	54.10	78.00	101.90	125.80		
13' 0	Oak Summit	27.63	52.81	78.00	103.19	128.38		
13' 2	Short	29.00	54.00	79.00	104.00	129.00		
13' 2	Long	31.20	55.10	79.00	102.90	126.80		
13' 2	Oak Summit	28.13	53.56	79.00	104.44	129.88		
13' 4	Short	28.80	54.40	80.00	105.60	131.20		
13' 4	Long	29.80	54.90	80.00	105.10	130.20		
13' 4	Oak Summit	28.63	54.31	80.00	105.69	131.38		
13' 6	Short	29.80	55.40	81.00	106.60	132.20		
13' 6	Long	30.80	55.90	81.00	106.10	131.20		
13' 6	Oak Summit	29.13	55.06	81.00	106.94	132.88		
13' 8	Short	30.80	56.40	82.00	107.60	133.20		
13' 8	Long	31.25	56.63	82.00	107.38	132.75		
13' 8	Oak Summit	29.63	55.81	82.00	108.19	134.38		
13' 10	Short	31.39	57.16	82.94	108.71	134.49		
13' 10	Long	31.34	57.17	83.00	108.83	134.66		
13' 10	Oak Summit	30.13	56.56	83.00	109.44	135.88		
14' 0	Short	31.59	57.76	83.94	110.11	136.29		
14' 0	Long	33.25	58.63	84.00	109.38	134.75		
14' 0	Oak Summit	30.63	57.31	84.00	110.69	137.38		
14' 2	Short	32.75	58.85	84.94	111.41	137.51		
14' 2	Long	33.34	59.17	85.00	110.83	136.66		
14' 2	Oak Summit	31.13	58.06	85.00	111.94	138.88		
14' 4	Short	32.39	59.16	85.94	112.71	139.49		
14' 4	Long	34.34	60.17	86.00	111.83	137.66		
14' 4	Oak Summit	31.63	58.81	86.00	113.19	140.38		
14' 6	Short	32.79	59.86	86.94	114.01	141.09		
14' 6	Long	35.34	61.17	87.00	112.83	138.66		
14' 6	Oak Summit	32.13	59.56	87.00	114.44	141.88		
14' 8	Short	33.19	60.56	87.94	115.31	142.69		
14' 8	Long	44.81	66.41	88.00	109.59	131.19		
14' 8	Oak Summit	32.63	60.31	88.00	115.69	143.38		
14' 10	Short	33.59	61.26	88.94	116.61	144.29		
14' 10	Long	45.60	67.30	89.00	110.70	132.40		
14' 10	Oak Summit	33.13	61.06	89.00	116.94	144.88		
15' 0	Short	33.94	61.94	89.94	117.94	145.94		
15' 0	Long	46.60	68.30	90.00	111.70	133.40		
15' 0	Oak Summit	33.63	61.81	90.00	118.19	146.38		
15' 2	Short	34.39	62.66	90.94	119.21	147.49		
15' 2	Long	^25.90	47.60	69.30	91.00	112.70	134.40	^156.10
15' 2	Oak Summit	34.13	62.56	91.00	119.44	147.88		
15' 4	Short	28.00	53.60	79.20	104.80	130.40	156.00	
15' 4	Long	^24.88	47.25	69.63	92.00	114.38	136.75	^159.13
15' 4	Oak Summit	34.63	63.31	92.00	120.69	149.38		
15' 6	Short	^23.44	46.62	69.81	93.00	116.19	139.38	^162.56
15' 6	Long	^24.90	47.60	70.30	93.00	115.70	138.40	^161.10
15' 6	Oak Summit	^24.63	47.42	70.21	93.00	115.79	138.58	^161.37
15' 8	Short	^24.44	47.62	70.81	94.00	117.19	140.38	^163.56
15' 8	Long	^25.90	48.60	71.30	94.00	116.70	139.40	^162.10
15' 8	Oak Summit	^25.03	48.02	71.01	94.00	116.99	139.98	^162.97
15' 10	Short	^25.44	48.62	71.81	95.00	118.19	141.38	^164.56
15' 10	Long	^26.25	49.17	72.08	95.00	117.92	140.83	^163.75
15' 10	Oak Summit	^23.43	48.62	71.81	95.00	118.19	141.38	^164.57
16' 0	Short	^26.44	49.62	72.81	96.00	119.19	142.38	^165.56
16' 0	Long	25.30	50.60	73.30	96.00	118.70	141.40	166.70
16' 0	Oak Summit	^24.63	48.42	72.21	96.00	119.79	143.58	^167.37

^ Stiles do not need to be hinged

TABLE 5

Section	Panel Type	Max Design Loads Allowed	
		Positive (PSF)	Negative (PSF)
10' 0	Short	45.0	50.6
10' 0	Long	36.3	40.8
10' 0	Oak Summit	36.3	40.8
12' 0	Short	39.9	44.8
12' 0	Long	39.9	44.8
12' 0	Oak Summit	39.9	44.8
12' 2	Short	39.4	44.2
12' 2	Long	39.4	44.2
12' 2	Oak Summit	39.4	44.2
12' 4	Short	38.9	43.6
12' 4	Long	38.9	43.6
12' 4	Oak Summit	38.9	43.6
12' 6	Short	38.3	43.0
12' 6	Long	38.3	43.0
12' 6	Oak Summit	38.3	43.0
12' 8	Short	37.8	42.5
12' 8	Long	37.8	42.5
12' 8	Oak Summit	37.8	42.5
12' 10	Short	37.3	41.9
12' 10	Long	37.3	41.9
12' 10	Oak Summit	37.3	41.9
13' 0	Short	36.9	41.4
13' 0	Long	36.9	41.4
13' 0	Oak Summit	36.9	41.4
13' 2	Short	36.4	40.9
13' 2	Long	36.4	40.9
13' 2	Oak Summit	36.4	40.9
13' 4	Short	35.9	40.4
13' 4	Long	35.9	40.4
13' 4	Oak Summit	35.9	40.4
13' 6	Short	35.5	39.9
13' 6	Long	35.5	39.9
13' 6	Oak Summit	35.5	39.9
13' 8	Short	35.1	39.4
13' 8	Long	35.1	39.4
13' 8	Oak Summit	35.1	39.4
13' 10	Short	34.6	38.9
13' 10	Long	34.6	38.9
13' 10	Oak Summit	34.6	38.9
14' 0	Short	34.2	38.4
14' 0	Long	34.2	38.4
14' 0	Oak Summit	34.2	38.4
14' 2	Short	33.8	38.0
14' 2	Long	33.8	38.0
14' 2	Oak Summit	33.8	38.0
14' 4	Short	33.4	37.5
14' 4	Long	33.4	37.5
14' 4	Oak Summit	33.4	37.5
14' 6	Short	33.0	37.1
14' 6	Long	33.0	37.1
14' 6	Oak Summit	33.0	37.1
14' 8	Short	32.7	36.7
14' 8	Long	32.7	36.7
14' 8	Oak Summit	32.7	36.7
14' 10	Short	32.3	36.3
14' 10	Long	32.3	36.3
14' 10	Oak Summit	32.3	36.3
15' 0	Short	31.9	35.9
15' 0	Long	31.9	35.9
15' 0	Oak Summit	31.9	35.9
15' 2	Short	31.6	35.5
15' 2	Long	31.5	35.3
15' 2	Oak Summit	31.6	35.5
15' 4	Short	31.3	35.1
15' 4	Long	31.3	35.1
15' 4	Oak Summit	31.3	35.1
15' 6	Short	30.9	34.7
15' 6	Long	30.9	34.7
15' 6	Oak Summit	30.9	34.7
15' 8	Short	30.6	34.3
15' 8	Long	30.6	34.3
15' 8	Oak Summit	30.6	34.3
15' 10	Short	30.3	34.0
15' 10	Long	30.3	34.0
15' 10	Oak Summit	30.3	34.0
16' 0	Short	30.1	33.8
16' 0	Long	30.1	33.8
16' 0	Oak Summit	30.1	33.8

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)															TOP
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
6' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"									71"
7'	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"									77"
7' 6"	5 1/2"	15 1/4"	22 1/2"	33 1/4"	40 1/2"	51 1/4"	58 1/2"	69 1/4"	76 1/2"							83"
8'	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"							89"
8' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"							95"
9'	5 1/2"	15 1/4"	22 1/2"	33 1/4"	40 1/2"	51 1/4"	58 1/2"	69 1/4"	76 1/2"	87 1/4"	94 1/2"					101"
9' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"	97 1/2"					107"
10'	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"	96 1/4"	103 1/2"					113"
10' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"	109 1/2"					119"
11'	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"	97 1/2"	108 1/4"	115 1/2"			125"
11' 6"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	78 1/4"	85 1/2"	96 1/4"	103 1/2"	114 1/4"	121 1/2"			131"
12'	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"	81 1/4"	88 1/2"	102 1/4"	109 1/2"	120 1/4"	127 1/2"			137"
12' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"	79 1/2"	90 1/4"	97 1/2"	108 1/4"	115 1/2"	126 1/4"	133 1/2"	143"
13'	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"	67 1/2"									