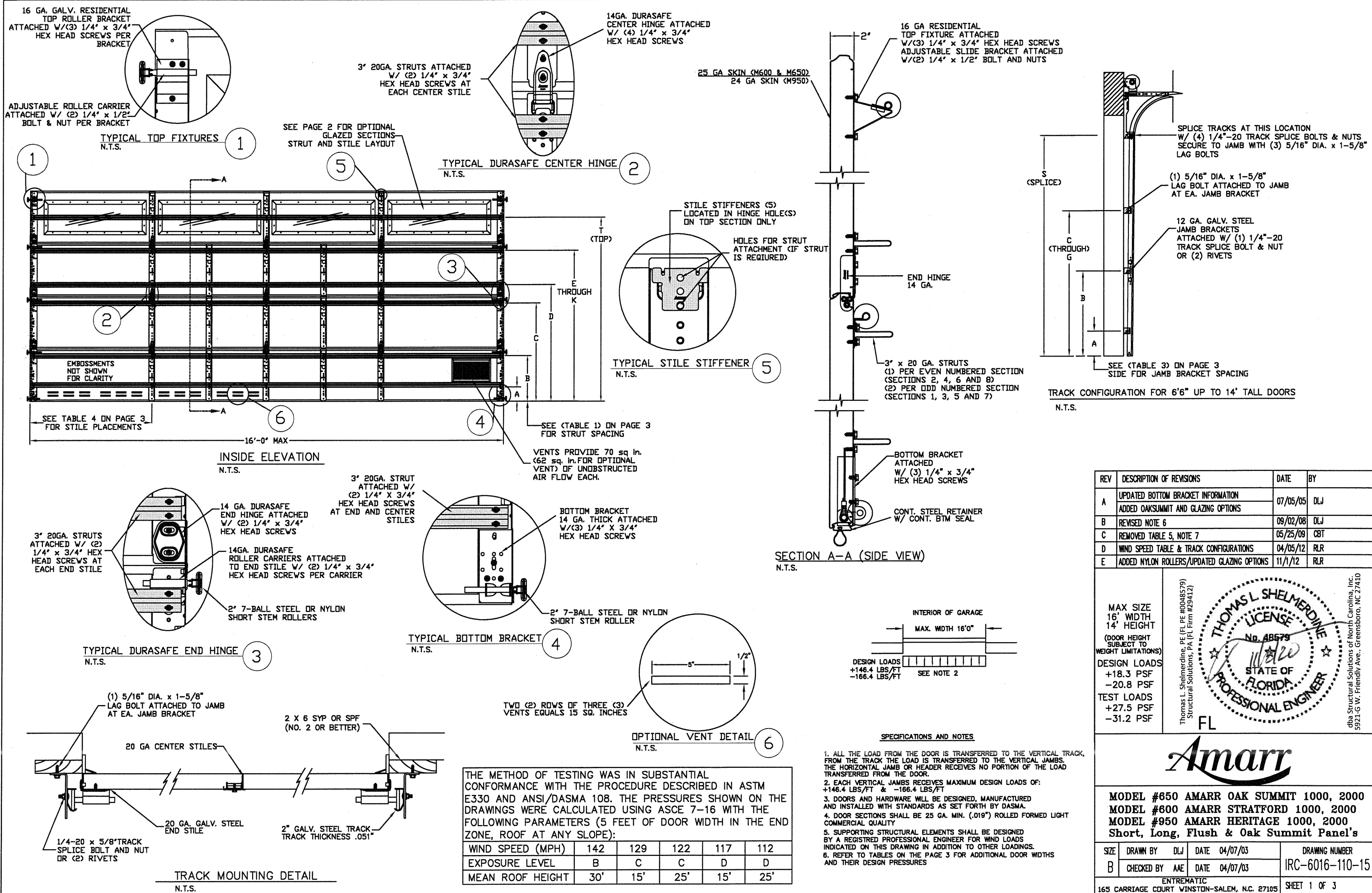
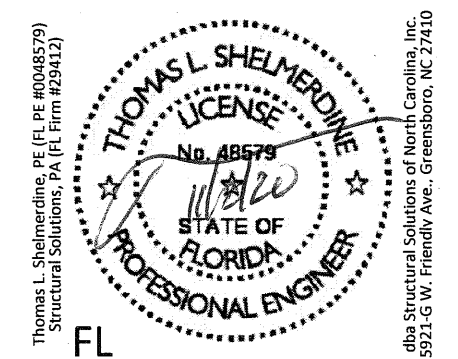




REV	DESCRIPTION OF REVISIONS	DATE	BY
A	UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTIONS	07/05/05	DLJ
B	REVISED NOTE 6	09/02/08	DLJ
C	REMOVED TABLE 5, NOTE 7	05/25/09	CBT
D	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/05/12	RLR
E	ADDED NYLON ROLLERS/UPDATED GLAZING OPTIONS	11/1/12	RLR



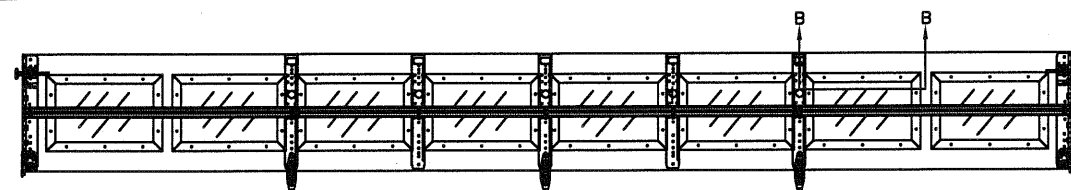
Amarr

MODEL #650 AMARR OAK SUMMIT 1000, 2000
MODEL #600 AMARR STRATFORD 1000, 2000
MODEL #950 AMARR HERITAGE 1000, 2000
Short, Long, Flush & Oak Summit Panel's

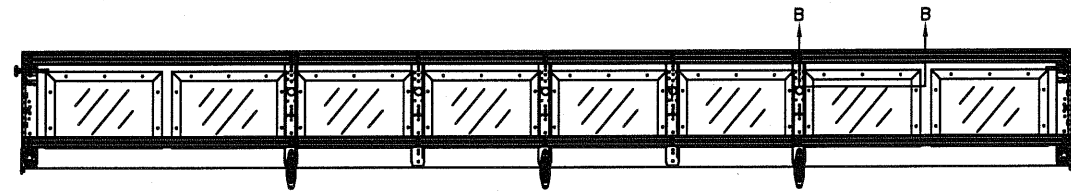
SIZE	DRAWN BY	DATE	CHECKED BY	DATE	DRAWING NUMBER
B	DLJ	04/07/03	AE	04/07/03	IRC-6016-110-15

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

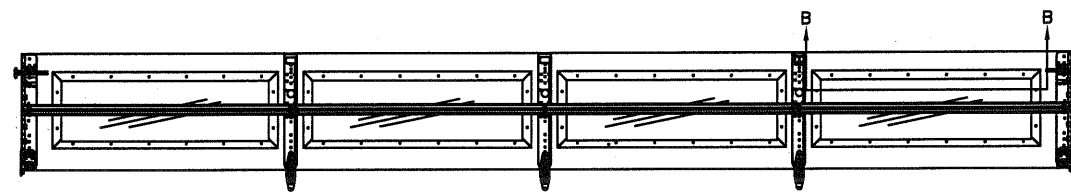
SHEET 1 OF 3



3" 20GA. STRUT LOCATED IN THE MIDDLE OF GLAZED SECTION ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT END AND CENTER STILES

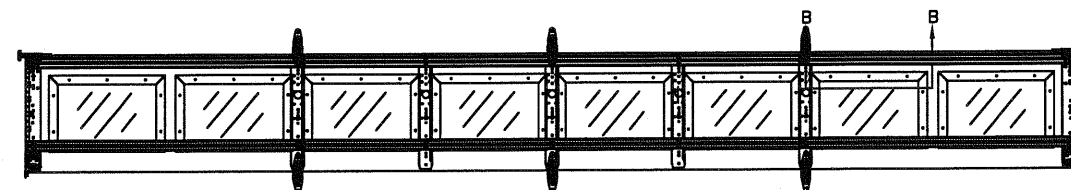
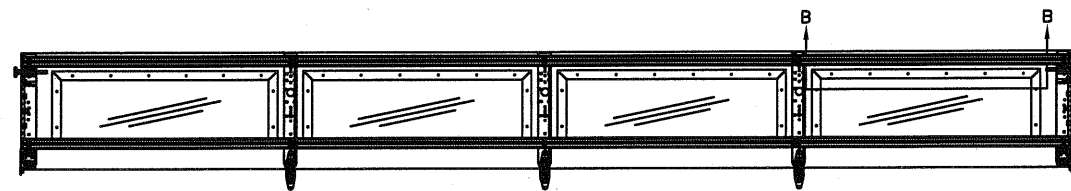


OPTIONAL SHORT PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUTS)

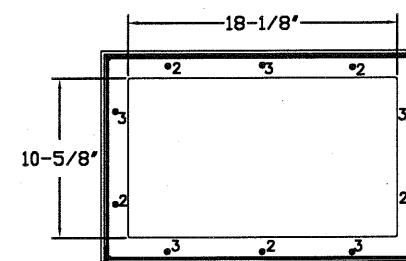


OPTIONAL LONG PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUTS)

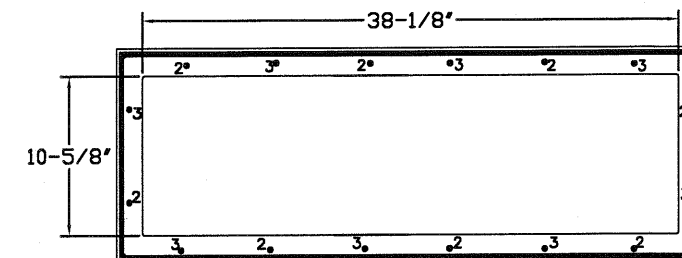
LONG PANEL GLAZING OPTION AVAILABLE ONLY ON DOORS 15'6" THROUGH 16'0" WIDE. DOORS LESS THAN 15'6" WIDE MUST USE SHORT PANEL GLAZING OR CLOSED SECTIONS



OPTIONAL SHORT PANEL INTERMEDIATE GLAZED SECTION (STRUT AND STILE LAYOUT)



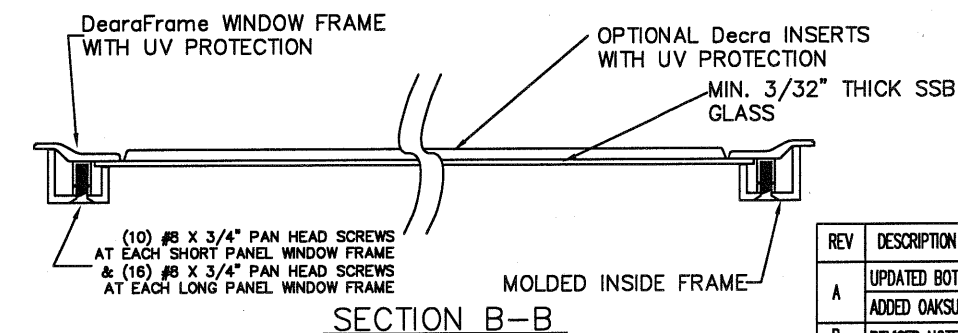
SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL
N.T.S.

GLAZING OPTION CROSS SECTION

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



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

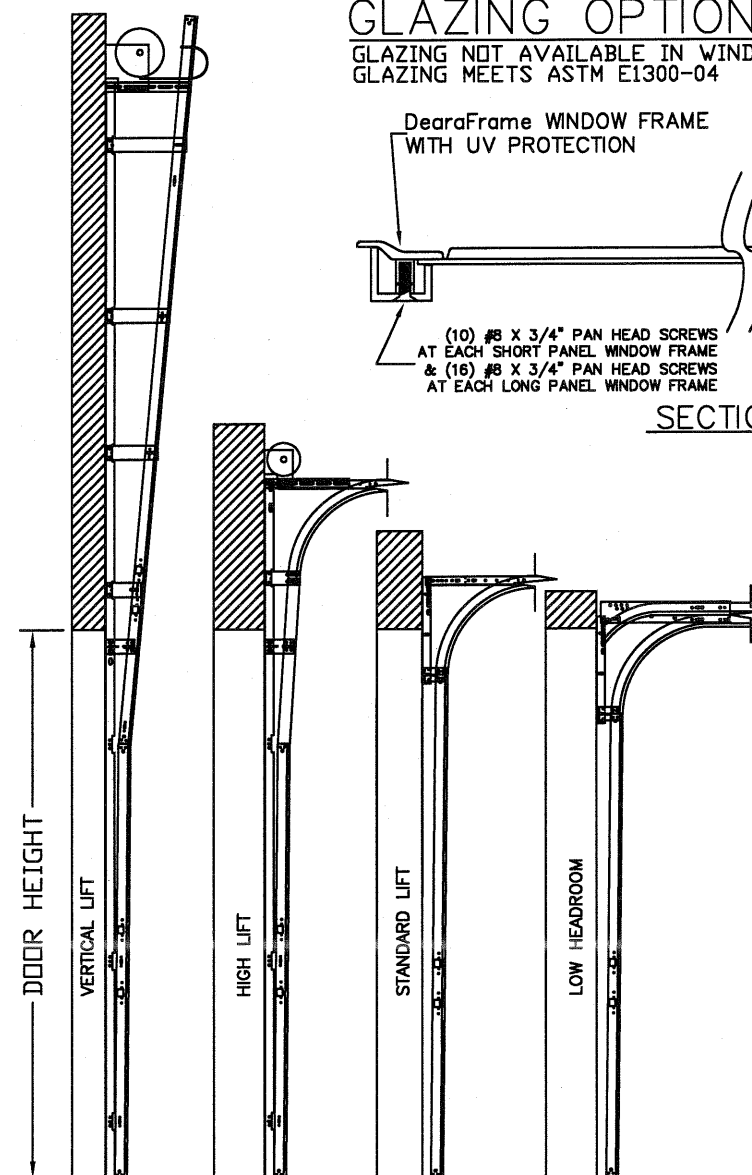
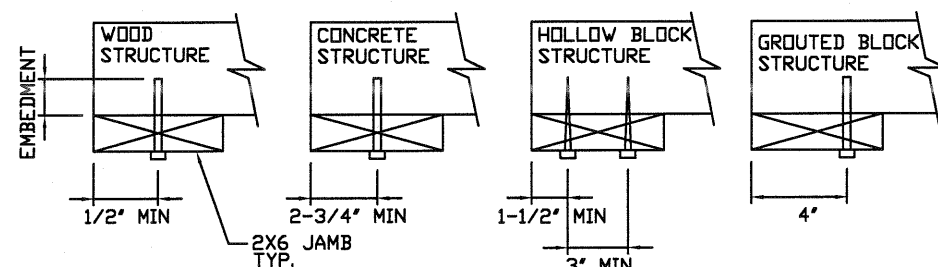
FASTENERS (3" APART) AT 24" O.C. (1 1/4" EMBEDMENT)

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

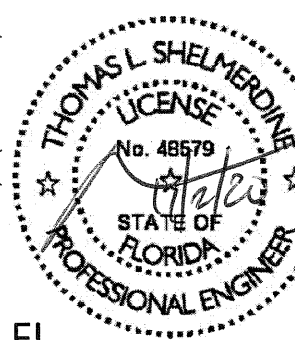


AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTIONS	07/05/05	DLJ
B	REVISED NOTE 6	09/02/08	DLJ
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MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT
SUBJECT TO
WEIGHT LIMITATIONS)
DESIGN LOADS
+18.3 PSF
-20.8 PSF
TEST LOADS
+27.5 PSF
-31.2 PSF

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

Amarr

MODEL #650 AMARR OAK SUMMIT 1000, 2000
MODEL #600 AMARR STRATFORD 1000, 2000
MODEL #950 AMARR HERITAGE 1000, 2000
Short, Long, Flush & Oak Summit Panel's

SIZE	DRAWN BY	DLJ	DATE	04/07/03	DRAWING NUMBER	IRC-6016-110-15
B	CHECKED BY	AAE	DATE	04/07/03	ENTREMATIC	165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105
						SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)											TOP
	A	B	C	D	E	F	G	H	I	J	K	
6' 6"	5 1/2"	18 1/4"	36 1/4"	43 1/2"	54 1/4"							67 1/2"
7'	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"							73 1/2"
7' 6"	5 1/2"	15 1/4"	33 1/4"	40 1/2"	51 1/4"	69 1/4"	76 1/2"					88 1/2"
8'	5 1/2"	18 1/4"	36 1/4"	43 1/2"	54 1/4"	72 1/4"	79 1/2"					94 1/2"
8' 6"	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	78 1/4"	85 1/2"					100 1/2"
9'	5 1/2"	15 1/4"	33 1/4"	40 1/2"	51 1/4"	69 1/4"	76 1/2"	87 1/4"				99"
9' 6"	5 1/2"	18 1/4"	36 1/4"	43 1/2"	54 1/4"	72 1/4"	79 1/2"	90 1/4"				103 1/2"
10'	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	78 1/4"	85 1/2"	96 1/4"				109 1/2"
10' 6"	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	81 1/4"	88 1/2"	102 1/4"				115 1/2"
11'	5 1/2"	18 1/4"	36 1/4"	43 1/2"	54 1/4"	72 1/4"	79 1/2"	90 1/4"	108 1/4"	115 1/2"		130 1/2"
11' 6"	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	78 1/4"	85 1/2"	96 1/4"	114 1/4"	121 1/2"		136 1/2"
12'	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	81 1/4"	88 1/2"	102 1/4"	120 1/4"	127 1/2"		142 1/2"
12' 6"	5 1/2"	18 1/4"	36 1/4"	43 1/2"	54 1/4"	72 1/4"	79 1/2"	90 1/4"	108 1/4"	115 1/2"	126 1/4"	139 1/2"
13'	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	78 1/4"	85 1/2"	96 1/4"	114 1/4"	121 1/2"	132 1/4"	145 1/2"
13' 6"	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	81 1/4"	88 1/2"	102 1/4"	120 1/4"	127 1/2"	138 1/4"	151 1/2"
14'	5 1/2"	18 1/4"	39 1/4"	46 1/2"	60 1/4"	81 1/4"	88 1/2"	102 1/4"	123 1/4"	130 1/2"	144 1/4"	157 1/2"

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"				

TABLE 3

DOOR HEIGHT	TRACK ATTACHMENT							SPLICE
	A	B	C	D	E	F	G	
6' 6"	10"	38"	58"					70"
7'	10"	38"	58"					76"
7' 6"	4"	28"	52"	76"				82"
8'	10"	34"	58"	82"				88"
8' 6"	4"	28"	52"	76"				94"
9'	10"	34"	58"	82"				100"
9' 6"	4"	28"	52"	76"	100"			106"
10'	10"	34"	58"	82"	106"			112"
10' 6"	4"	28"	52"	76"	100"			118"
11'	10"	34"	58"	82"	106"			124"
11' 6"	4"	28"	52"	76"	100"	124"		130"
12'	10"	34"	58"	82"	106"	130"		136"
12' 6"	4"	28"	52"	76"	100"	124"		142"
13'	10"	34"	58"	82"	106"	130"		148"
13' 6"	4"	28"	52"	76"	100"	124"	148"	154"
14'	10"	34"	58"	82"	106"	130"	154"	160"

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

TABLE 4

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				
		1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)
10' 0	Short	48.41	71.59			
10' 0	Long	30.00	60.00	90.00		
10' 0	Oak Summit	30.63	60.00	89.38		
12' 0	Short	48.81	72.00	95.19		
12' 0	Long	49.63	72.00	94.38		
12' 0	Oak Summit	48.31	72.00	95.69		
12' 2	Short	49.64	73.00	96.36		
12' 2	Long	50.08	73.00	95.92		
12' 2	Oak Summit	49.06	73.00	96.94		
12' 4	Short	50.64	74.00	97.36		
12' 4	Long	51.08	74.00	96.92		
12' 4	Oak Summit	49.81	74.00	98.19		
12' 6	Short	50.67	75.00	99.33		
12' 6	Long	51.17	75.00	98.83		
12' 6	Oak Summit	50.56	75.00	99.44		
12' 8	Short	51.67	76.00	100.33		
12' 8	Long	52.10	76.00	99.90		
12' 8	Oak Summit	51.31	76.00	100.69		
12' 10	Short	52.25	77.00	101.75		
12' 10	Long	53.10	77.00	100.90		
12' 10	Oak Summit	52.06	77.00	101.94		
13' 0	Short	53.00	78.00	103.00		
13' 0	Long	54.10	78.00	101.90		
13' 0	Oak Summit	52.81	78.00	103.19		
13' 2	Short	54.00	79.00	104.00		
13' 2	Long	55.10	79.00	102.90		
13' 2	Oak Summit	53.56	79.00	104.44		
13' 4	Short	54.40	80.00	105.60		
13' 4	Long	54.90	80.00	105.10		
13' 4	Oak Summit	54.31	80.00	105.69		
13' 6	Short	55.40	81.00	106.60		
13' 6	Long	55.90	81.00	106.10		
13' 6	Oak Summit	55.06	81.00	106.94		
13' 8	Short	56.40	82.00	107.60		
13' 8	Long	56.63	82.00	107.38		
13' 8	Oak Summit	55.81	82.00	108.19		
13' 10	Short	57.16	83.00	108.71		
13' 10	Long	57.17	83.00	108.83		
13' 10	Oak Summit	56.56	83.00	109.44		
14' 0	Short	57.76	84.00	110.11		
14' 0	Long	58.63	84.00	109.38		
14' 0	Oak Summit	57.31	84.00	110.69		
14' 2	Short	58.85	85.00	111.41		
14' 2	Long	59.17	85.00	110.83		
14' 2	Oak Summit	58.06	85.00	111.94		
14' 4	Short	59.16	86.00	112.71		
14' 4	Long	60.17	86.00	111.83		
14' 4	Oak Summit	58.81	86.00	113.19		
14' 6	Short	59.86	87.00	114.01		
14' 6	Long	61.17	87.00	112.83		
14' 6	Oak Summit	59.56	87.00	114.44		
14' 8	Short	60.56	88.00	115.31		
14' 8	Long	64.81	86.41	88.00	^109.59	131.19
14' 8	Oak Summit	60.31	88.00	115.69		
14' 10	Short	61.26	89.00	116.61		
14' 10	Long	65.60	87.30	89.00	^110.70	132.40
14' 10	Oak Summit	61.06	89.00	116.94		
15' 0	Short	61.94	^75.97	90.00	^103.97	117.94
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	62.66	^76.83	91.00	^105.11	119.21
15' 2	Long	47.60	^69.30	91.00	^112.70	134.40
15' 2	Oak Summit	34.13	^62.56	91.00	^119.44	147.88
15' 4	Short	53.60	79.20	104.80	130.40	
15' 4	Long	47.25	^69.63	92.00	^114.38	136.75
15' 4	Oak Summit	34.63	^63.31	92.00	^120.69	149.38
15' 6	Short	46.62	^69.81	93.00	^116.19	139.38
15' 6	Long	47.60	^70.30	93.00	^115.70	138.40
15' 6	Oak Summit	47.42	^70.21	93.00	^115.79	138.58
15' 8	Short	47.62	^70.81	94.00	^117.19	140.38
15' 8	Long	48.60	^71.30	94.00	^116.70	139.40
15' 8	Oak Summit	48.02	^71.01	94.00	^116.99	139.98
15' 10	Short	48.62	^71.81	95.00	^118.19	141.38
15' 10	Long	49.17	^72.08	95.00	^117.92	140.83
15' 10	Oak Summit	48.62	^71.81	95.00	^118.19	141.38
16' 0	Short	49.62	^72.81	96.00	^119.19	142.38
16' 0	Long	50.60	^73.30	96.00	^118.70	141.40
16' 0	Oak Summit	48.42	^72.21	96.00	^119.79	143.58

^ Stiles do not need to be hinged

TABLE 5

Section Width (ft)	Panel Type	Max Design Loads Allowed	
		Positive (PSF)	Negative (PSF)
10' 0	Short	24.4	27.8
10' 0	Long	29.1	33.1
10' 0	Oak Summit	29.1	33.1
12' 0	Short	24.3	27.6
12' 0	Long	24.3	27.6
12' 0	Oak Summit	24.3	27.6
12' 2	Short	23.9	27.2
12' 2	Long	23.9	27.2
12' 2	Oak Summit	23.9	27.2
12' 4	Short	23.6	26.8
12' 4	Long	23.6	26.8
12' 4	Oak Summit	23.6	26.8
12' 6	Short	23.3	26.5
12' 6	Long	23.3	26.5
12' 6	Oak Summit	23.3	26.5
12' 8	Short	23.0	26.1
12' 8	Long	23.0	26.1
12' 8	Oak Summit	23.0	26.1
12' 10	Short	22.7	25.8
12' 10	Long	22.7	25.8
12' 10	Oak Summit	22.7	25.8
13' 0	Short	22.4	25.5
13' 0	Long	22.4	25.5
13' 0	Oak Summit	22.4	25.5
13' 2	Short	22.1	25.1
13' 2	Long	22.1	25.1
13' 2	Oak Summit	22.1	25.1
13' 4	Short	21.9	24.8
13' 4	Long	21.9	24.8
13' 4	Oak Summit	21.9	24.8
13' 6	Short	21.6	24.5
13' 6	Long	21.6	24.5
13' 6	Oak Summit	21.6	24.5
13' 8	Short	21.3	24.2
13' 8	Long	21.3	24.2
13' 8	Oak Summit	21.3	24.2
13' 10	Short	21.1	23.9
13' 10	Long	21.1	23.9
13' 10	Oak Summit	21.1	23.9
14' 0	Short	20.8	23.7
14' 0	Long	20.8	23.7
14' 0	Oak Summit	20.8	23.7
14' 2	Short	20.6	23.4
14' 2	Long	20.6	23.4
14' 2	Oak Summit	20.6	23.4
14' 4	Short	20.3	23.1
14' 4	Long	20.3	23.1
14' 4	Oak Summit	20.3	23.1
14' 6	Short	20.1	22.8
14' 6	Long	20.1	22.8
14' 6	Oak Summit	20.1	22.8
14' 8	Short	19.9	22.6
14' 8	Long	19.9	22.6
14' 8	Oak Summit	19.9	22.6