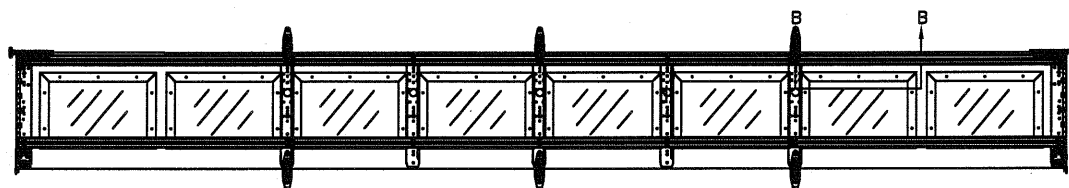
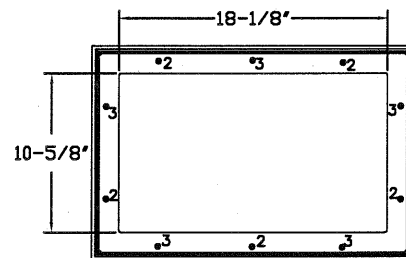


OPTIONAL SHORT PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUTS)



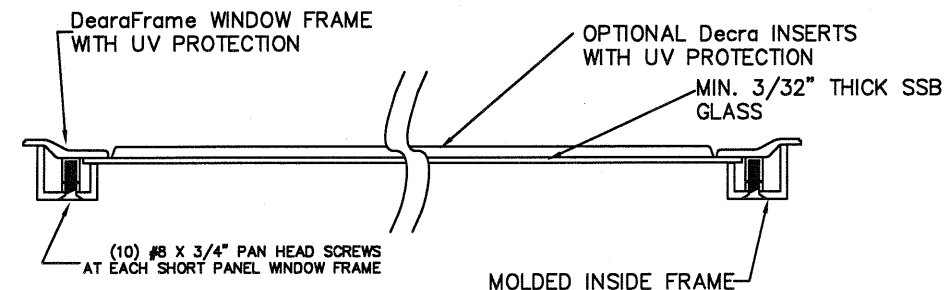
OPTIONAL SHORT PANEL INTERMEDIATE GLAZED SECTION (STRUT AND STILE LAYOUT)



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



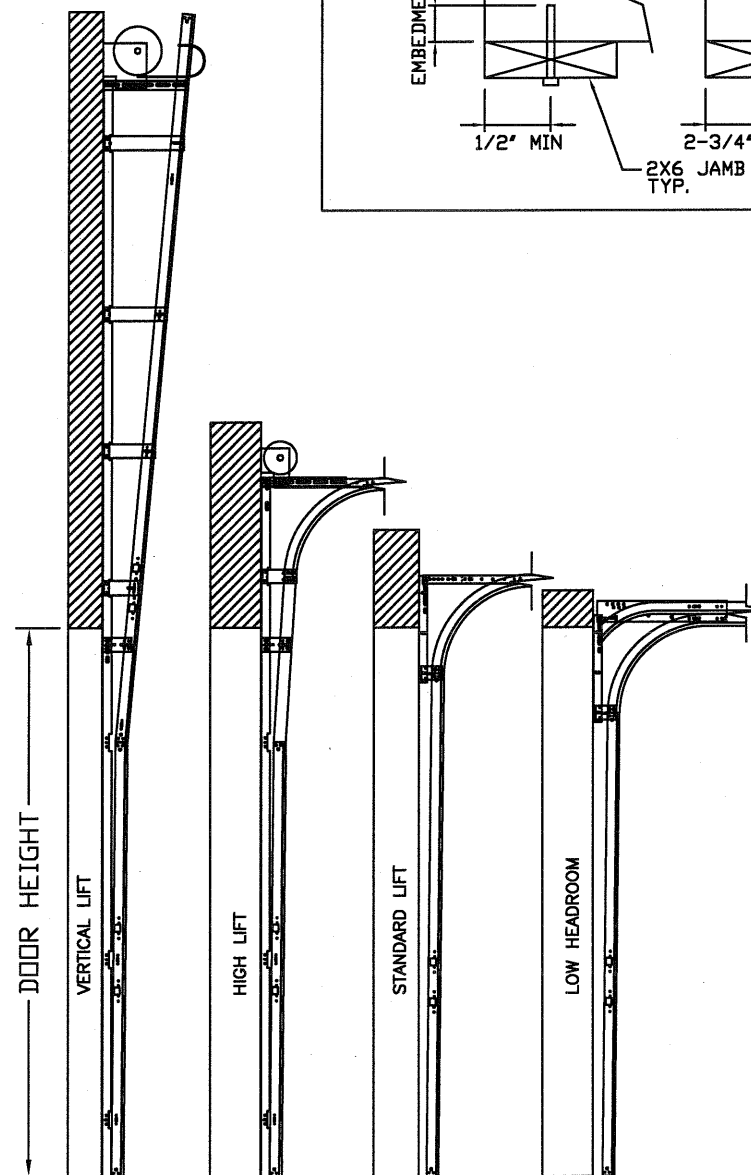
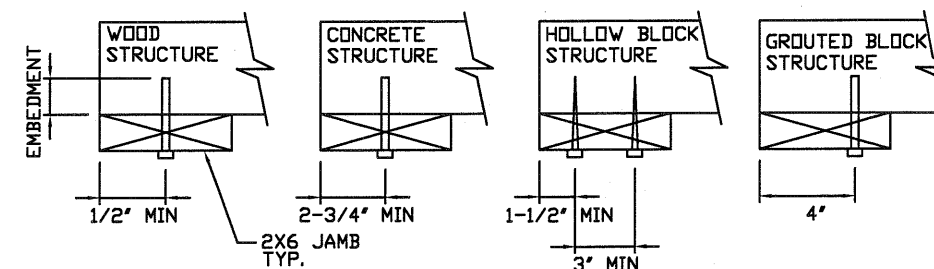
SECTION B-B

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 20" 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	DESCRIPTION OF REVISIONS	DATE	BY
A	UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTION	07/05/05	DLJ
B	REVISED NOTE 6	09/02/08	DLJ
C	REMOVED TABLE 5, NOTE 7.	05/20/09	CBT
D	WIND SPEED TABLE & TRACK CONFIGURATIONS	04/17/12	RLR
E	CHANGED TRACK AND STRUT LAYOUT	11/07/12	RLR

MAX SIZE
16' WIDTH
14' HEIGHT
(DOOR HEIGHT
SUBJECT TO
WEIGHT LIMITATIONS)
DESIGN LOADS
+25.6 PSF
-29.1 PSF

TEST LOADS
+38.4 PSF
-43.6 PSF

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

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FL

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	05/15/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	05/15/03	IRC-6016-130-15
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					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	96.36	119.55		
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	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	28.00	53.60	79.20	104.80	130.40	156.00	
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	25.30	50.60	73.30	96.00	118.70	141.40	166.70
16' 0	Oak Summit	48.42	72.21	96.00	119.79	143.58		

TABLE 5

Section	Panel Type	Max Design Loads Allowed	
		Positive (PSF)	Negative (PSF)
10' 0	Short	38.3	43.6
10' 0	Long	30.9	35.1
10' 0	Oak Summit	30.9	35.1
12' 0	Short	34.0	38.6
12' 0	Long	34.0	38.6
12' 0	Oak Summit	34.0	38.6
12' 2	Short	33.5	38.1
12' 2	Long	33.5	38.1
12' 2	Oak Summit	33.5	38.1
12' 4	Short	33.0	37.6
12' 4	Long	33.0	37.6
12' 4	Oak Summit	33.0	37.6
12' 6	Short	32.6	37.1
12' 6	Long	32.6	37.1
12' 6	Oak Summit	32.6	37.1
12' 8	Short	32.2	36.6
12' 8	Long	32.2	36.6
12' 8	Oak Summit	32.2	36.6
12' 10	Short	31.8	36.1
12' 10	Long	31.8	36.1
12' 10	Oak Summit	31.8	36.1
13' 0	Short	31.4	35.6
13' 0	Long	31.4	35.6
13' 0	Oak Summit	31.4	35.6
13' 2	Short	31.0	35.2
13' 2	Long	31.0	35.2
13' 2	Oak Summit	31.0	35.2
13' 4	Short	30.6	34.7
13' 4	Long	30.6	34.7
13' 4	Oak Summit	30.6	34.7
13' 6	Short	30.2	34.3
13' 6	Long	30.2	34.3
13' 6	Oak Summit	30.2	34.3
13' 8	Short	29.8	33.9
13' 8	Long	29.8	33.9
13' 8	Oak Summit	29.8	33.9
13' 10	Short	29.5	33.5
13' 10	Long	29.5	33.5
13' 10	Oak Summit	29.5	33.5
14' 0	Short	29.1	33.1
14' 0	Long	29.1	33.1
14' 0	Oak Summit	29.1	33.1
14' 2	Short	28.8	32.7
14' 2	Long	28.8	32.7
14' 2	Oak Summit	28.8	32.7
14' 4	Short	28.4	32.3
14' 4	Long	28.4	32.3
14' 4	Oak Summit	28.4	32.3
14' 6	Short	28.1	31.9
14' 6	Long	28.1	31.9
14' 6	Oak Summit	28.1	31.9
14' 8	Short	27.8	31.6
14' 8	Long	27.8	31.6
14' 8	Oak Summit	27.8	31.6
14' 10	Short	27.5	31.2
14' 10	Long	27.5	31.2
14' 10	Oak Summit	27.5	31.2
15' 0	Short	27.2	30.9
15' 0	Long	27.2	30.9
15' 0	Oak Summit	27.2	30.9
15' 2	Short	26.9	30.5
15' 2	Long	26.8	30.4
15' 2	Oak Summit	26.9	30.5
15' 4	Short	26.6	30.2
15' 4	Long	26.6	30.2
15' 4	Oak Summit	26.6	30.2
15' 6	Short	26.3	29.9
15' 6	Long	26.3	29.9
15' 6	Oak Summit	26.3	29.9
15' 8	Short	26.0	29.6
15' 8	Long	26.0	29.6
15' 8	Oak Summit	26.0	29.6
15' 10	Short	25.7	29.3
15' 10	Long	25.7	29.2
15' 10	Oak Summit	25.7	29.3
16' 0	Short	25.6	29.1
16' 0	Long	25.6	29.1
16' 0	Oak Summit	25.6	29.1

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	T	
6' 6"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"									67 1/2"	
7' 0"	5 1/2"	18 1/4"	25 1/2"	39 1/4"	46 1/2"	60 1/4"									73 1/2"	
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"							81"	
8' 0"	5 1/2"	18 1/4"	25 1/2"	36 1/4"	43 1/2"	54 1/4"	61 1/2"	72 1/4"							85 1/2"	
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"							91 1/2"	
9' 0"	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"					99'	
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"					103 1/2"	
10' 0"	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"					109 1/2"	
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"					115 1/2"	
11' 0"	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"			121 1/2"	
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"			127 1/2"	
12' 0"	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"			133 1/2"	
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"	139 1/2"	
13' 0"	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"	132 1/4"	145 1/2"	
13' 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"	120 1/4"	127 1/2"	138 1/4"	151 1/2"	
14' 0"	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"	123 1/4"	130 1/2"	144 1/4"	157 1/2"	