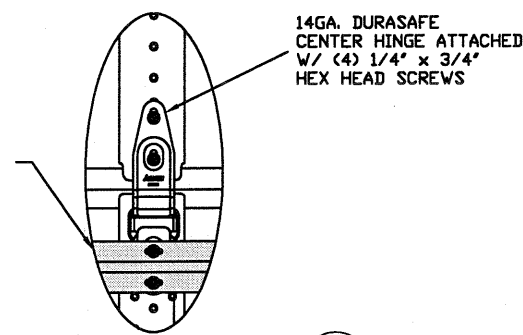


TYPICAL TOP FIXTURES
N.T.S.

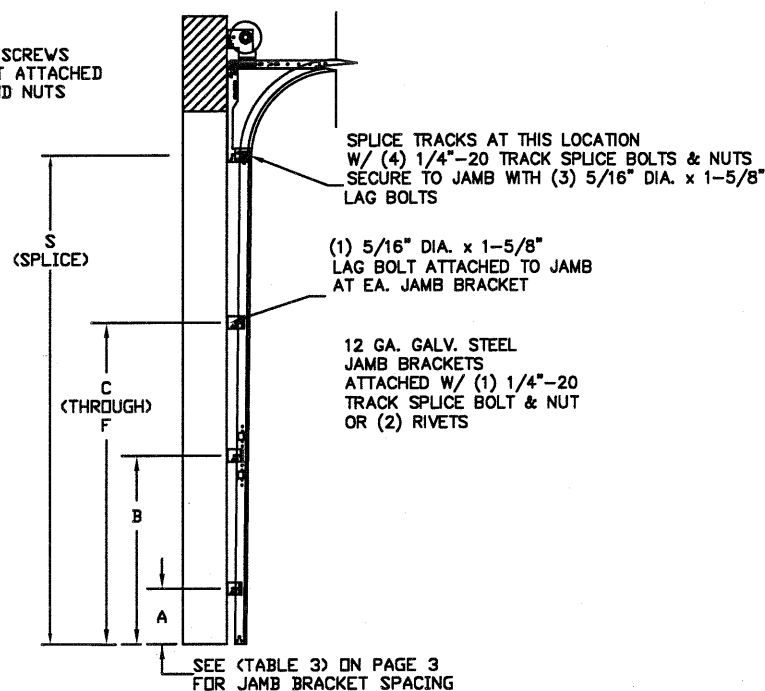
2" 20GA. STRUTS ATTACHED
W/ (2) 1/4" x 3/4"
HEX HEAD SCREWS AT
EACH CENTER STILE



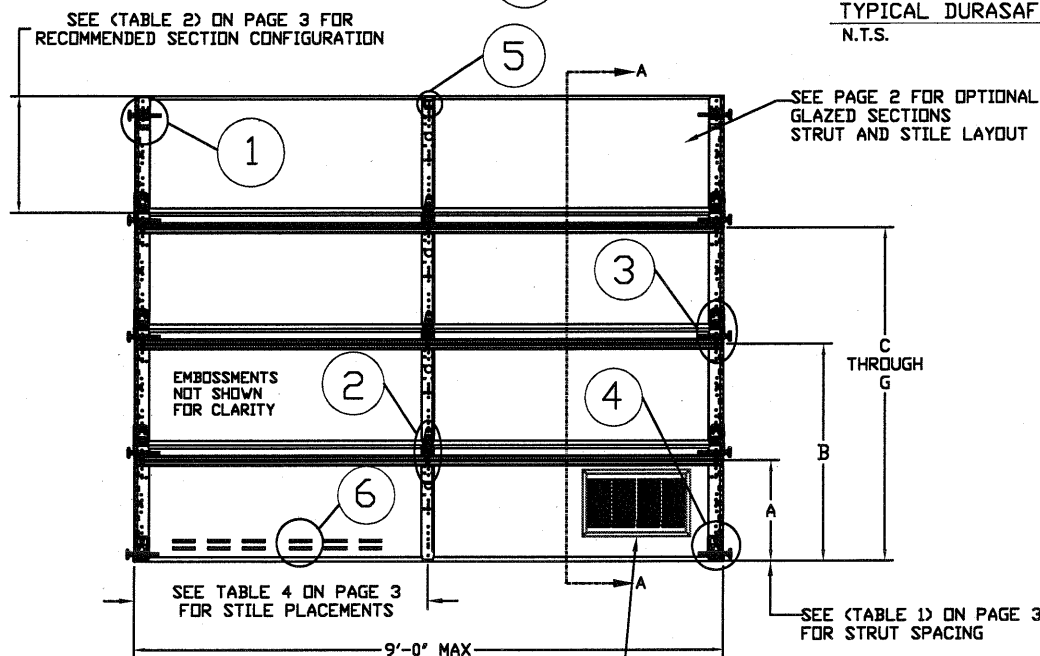
TYPICAL DURASAFE CENTER HINGE
N.T.S.

25 GA. SKIN (M600 & M650)
24 GA. SKIN (M950)

16 GA. RESIDENTIAL
TOP FIXTURE ATTACHED W/
(3) 1/4" x 3/4" HEX HEAD SCREWS
ADJUSTABLE SLIDE BRACKET ATTACHED
W/ (2) 1/4" x 1/2" BOLT AND NUTS

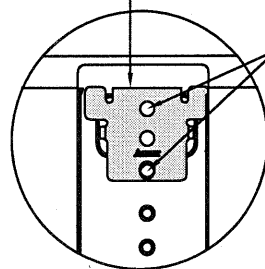


TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.



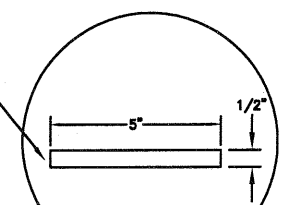
INSIDE ELEVATION
N.T.S.

STILE STIFFENER (1)
LOCATED IN HINGE HOLES(S)
ON TOP SECTION ONLY

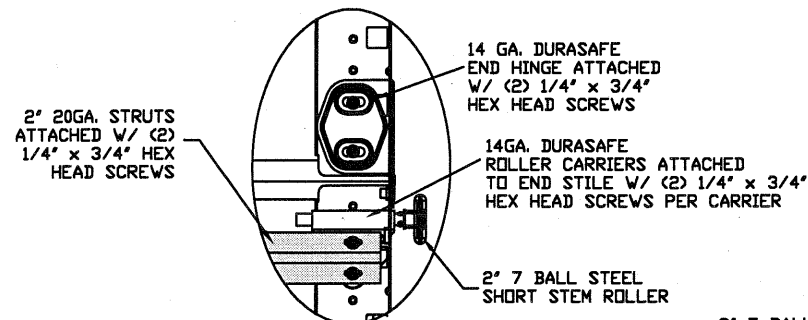


TYPICAL STILE STIFFENER
N.T.S.

TWO (2) ROWS OF THREE (3)
VENTS EQUALS 15 SQ. INCHES

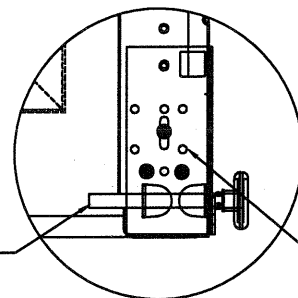


OPTIONAL VENT DETAIL
N.T.S.



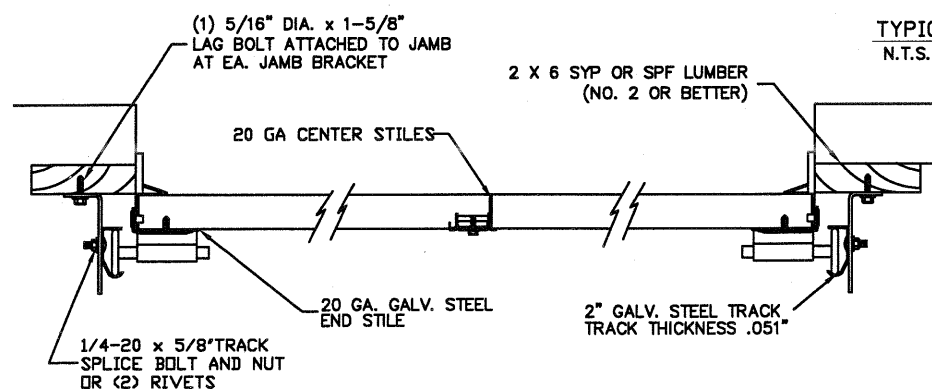
TYPICAL DURASAFE END HINGE
N.T.S.

2" 7 BALL STEEL
SHORT STEM ROLLER



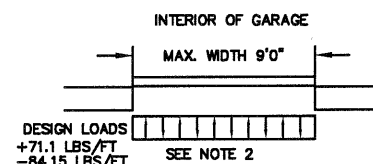
TYPICAL BOTTOM BRACKET
N.T.S.

BOTTOM BRACKET
13 GA. THICK ATTACHED
W/ (3) 1/4" x 3/4"
HEX HEAD SCREWS



TRACK MOUNTING DETAIL
N.T.S.

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



SPECIFICATIONS AND NOTES

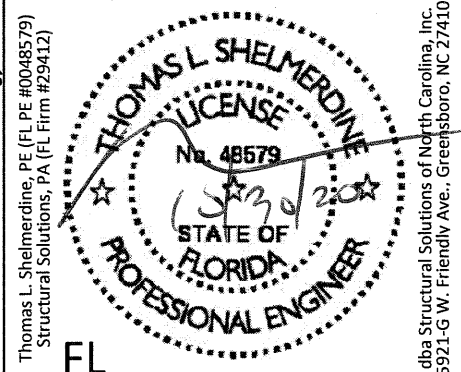
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +71.1 LBS/FT & -84.15 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. REFER TO TABLES ON PAGE 3 FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND ANSI/DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	129	117	111	106	102
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	UPDATED BOTTOM BRACKET INFORMATION ADDED OAKSUMMIT AND GLAZING OPTIONS	08/10/05	DLJ
B	UPDATED NOTE 6	09/02/08	DLJ

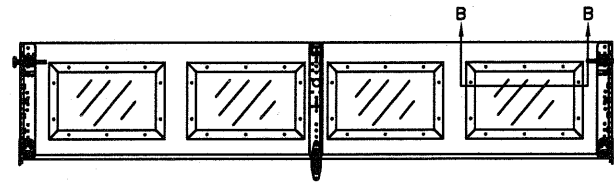
MAX SIZE
9' x 14'
DESIGN LOADS
+15.8 PSF
-18.7 PSF
TEST LOADS
+23.7 PSF
-28.0 PSF



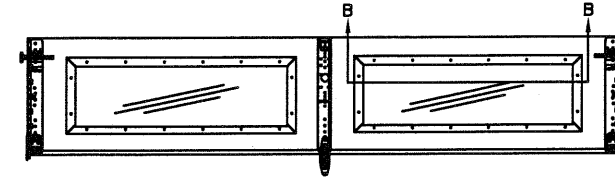
Amarr

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	05/01/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	05/01/03	IRC-6009-100-11
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3



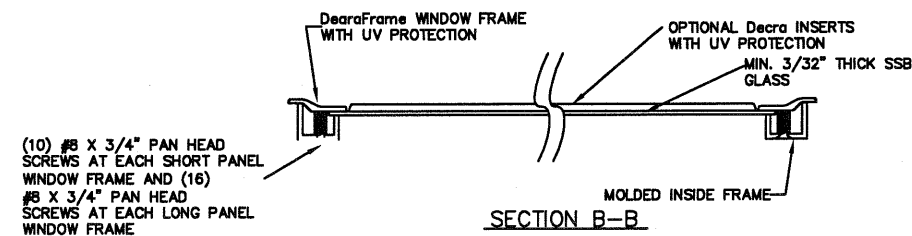
OPTIONAL SHORT PANEL GLAZED SECTION STRUT AND STILE LAYOUT



OPTIONAL LONG PANEL GLAZED SECTION STRUT AND STILE LAYOUT

GLAZING OPTION CROSS SECTION

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



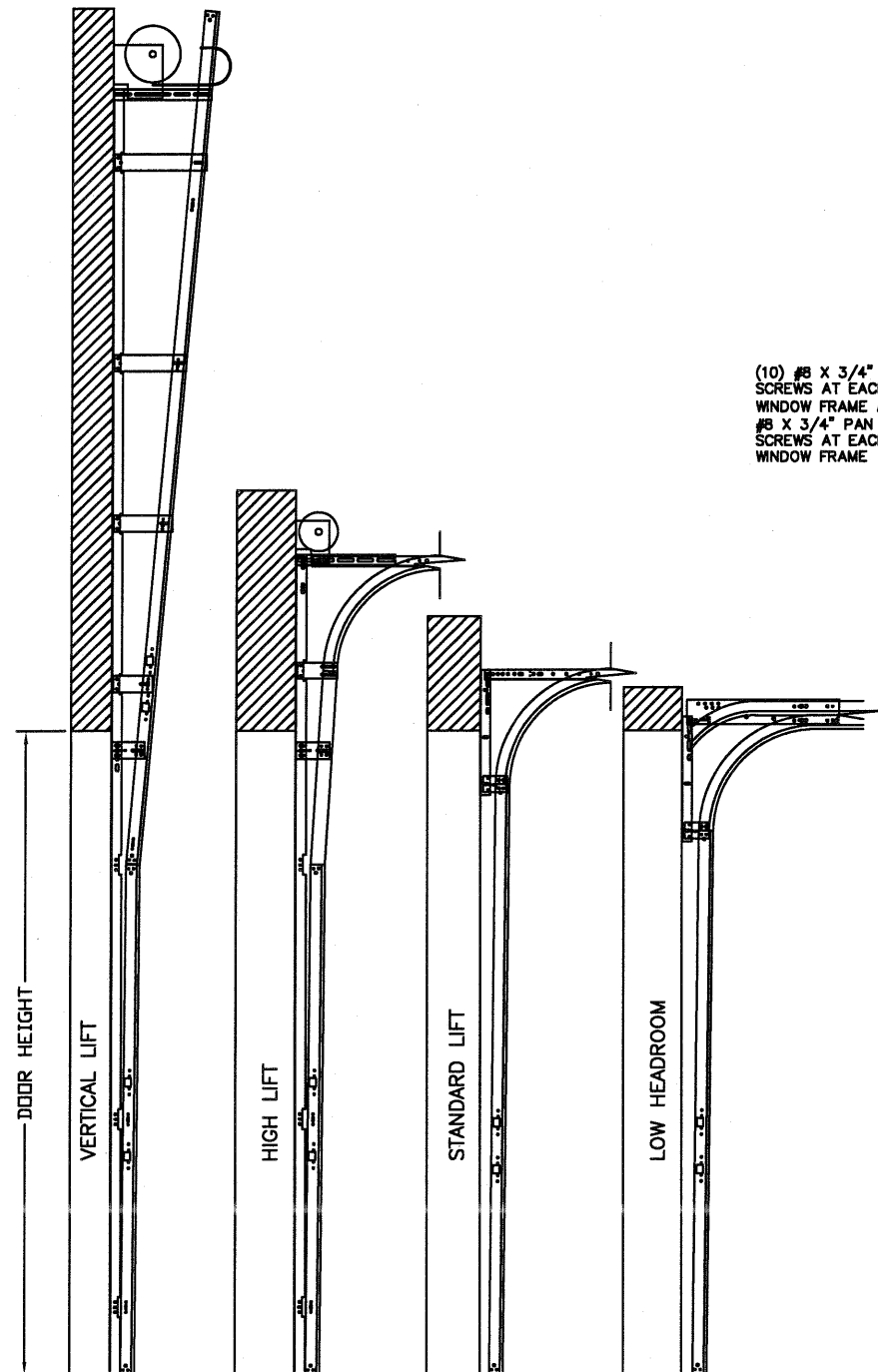
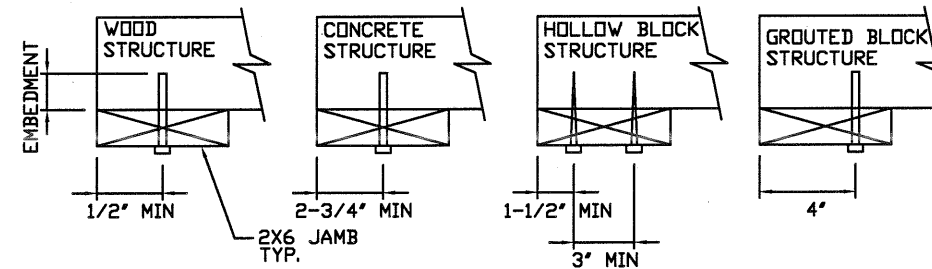
(10) #8 X 3/4" PAN HEAD
SCREWS AT EACH SHORT PANEL
WINDOW FRAME AND (16)
#8 X 3/4" PAN HEAD
SCREWS AT EACH LONG PANEL
WINDOW FRAME

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	08/10/05	DLJ
	ADDED OAKSUMMIT AND GLAZING OPTIONS		
B	UPDATED NOTE 6	09/02/08	DLJ

MAX SIZE
9' x 14'
DESIGN LOADS
+15.8 PSF
-18.7 PSF
TEST LOADS
+23.7 PSF
-28.0 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	05/01/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	05/01/03	IRC-6009-100-11
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)						
	A	B	C	D	E	F	G
6' 6"	18 1/4"	36 1/4"	54 1/4"				
7'	18 1/4"	39 1/4"	60 1/4"				
7' 6"	15 1/4"	33 1/4"	51 1/4"	69 1/4"			
8'	18 1/4"	36 1/4"	54 1/4"	72 1/4"			
8' 6"	18 1/4"	39 1/4"	60 1/4"	78 1/4"			
9'	15 1/4"	33 1/4"	51 1/4"	69 1/4"	87 1/4"		
9' 6"	18 1/4"	36 1/4"	54 1/4"	72 1/4"	90 1/4"		
10'	18 1/4"	39 1/4"	60 1/4"	78 1/4"	96 1/4"		
10' 6"	18 1/4"	39 1/4"	60 1/4"	81 1/4"	102 1/4"		
11'	18 1/4"	36 1/4"	54 1/4"	72 1/4"	90 1/4"	108 1/4"	
11' 6"	18 1/4"	39 1/4"	60 1/4"	78 1/4"	96 1/4"	114 1/4"	
12'	18 1/4"	39 1/4"	60 1/4"	81 1/4"	102 1/4"	120 1/4"	
12' 6"	18 1/4"	36 1/4"	54 1/4"	72 1/4"	90 1/4"	108 1/4"	126 1/4"
13'	18 1/4"	39 1/4"	60 1/4"	78 1/4"	96 1/4"	114 1/4"	132 1/4"
13' 6"	18 1/4"	39 1/4"	60 1/4"	81 1/4"	102 1/4"	120 1/4"	138 1/4"
14'	18 1/4"	39 1/4"	60 1/4"	81 1/4"	102 1/4"	123 1/4"	144 1/4"

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 S
	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

TABLE 4

Section Width (ft)	Panel Type	Center Stile Location (Measured from Left Edge)	Max Design Loads Allowed	
			Positive (PSF)	Negative (PSF)
8' 0	Short, Oak Summit	48.000	17.7	20.9
8' 0	Long	48.000	17.7	20.9
8' 2	Short, Oak Summit	49.000	17.3	20.5
8' 2	Long	49.000	17.3	20.5
8' 4	Short, Oak Summit	50.000	17.0	20.1
8' 4	Long	50.000	17.0	20.1
8' 6	Short, Oak Summit	51.000	16.6	19.7
8' 6	Long	51.000	16.6	19.7
8' 8	Short, Oak Summit	52.000	16.3	19.3
8' 8	Long	52.000	16.3	19.3
8' 10	Short, Oak Summit	53.000	16.0	19.0
8' 10	Long	53.000	16.0	19.0
9' 0	Short, Oak Summit	54.000	15.8	18.7
9' 0	Long	54.000	15.8	18.7

REV	DESCRIPTION OF REVISIONS	DATE	BY
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	ADDED OAKSUMMIT AND GLAZING OPTIONS		
B	UPDATED NOTE 6	09/02/08	DLJ
MAX SIZE 9' x 14' DESIGN LOADS +15.8 PSF -18.7 PSF TEST LOADS +23.7 PSF -28.0 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 05/01/03	DRAWING NUMBER
B	CHECKED BY AAE	DATE 05/01/03	IRC-6009-100-11
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
SHEET 3 OF 3			