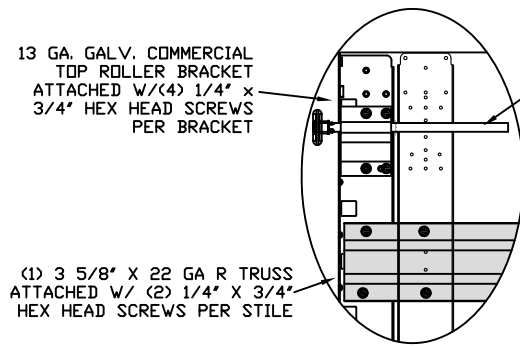
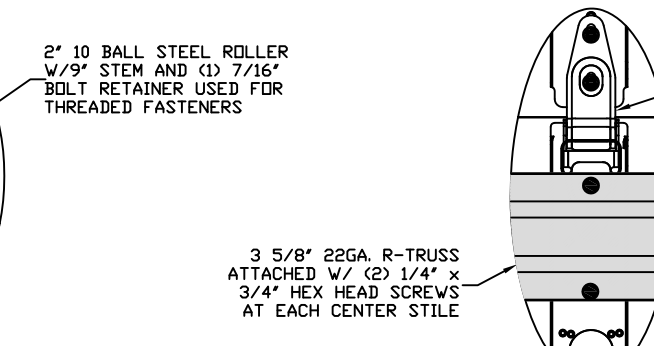


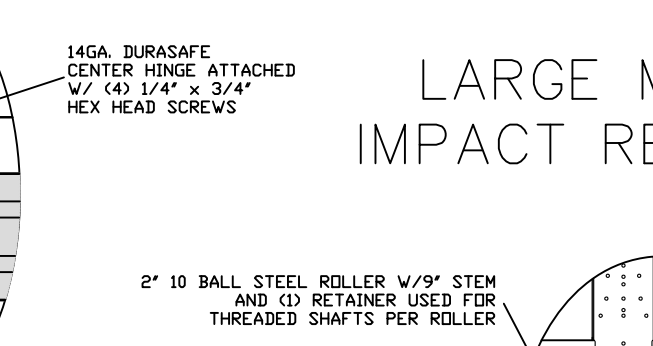
# LARGE MISSILE IMPACT RESISTANT



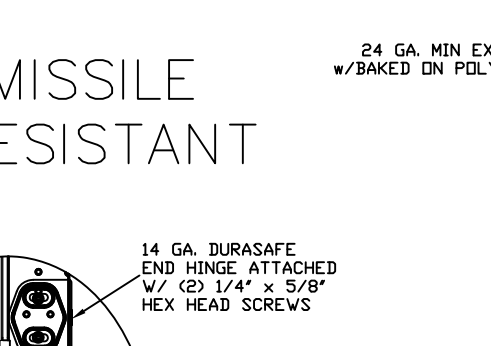
TYPICAL TOP FIXTURES  
N.T.S. 1



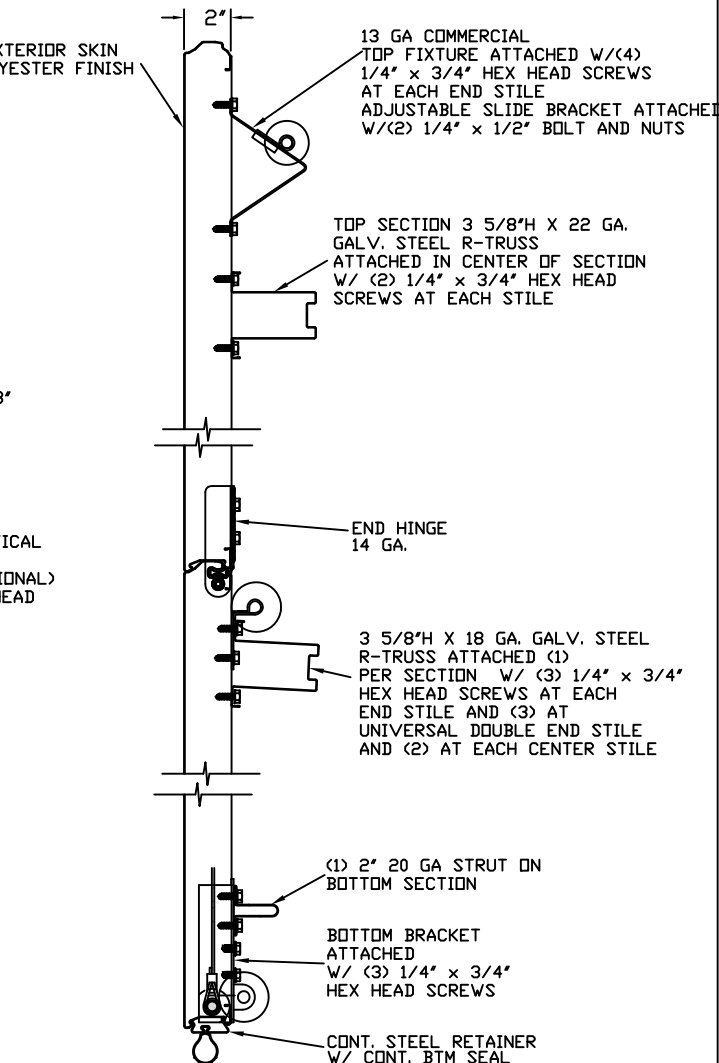
TYPICAL DURASAFE CENTER HINGE  
N.T.S. 2



TYPICAL DURASAFE END HINGE  
N.T.S. 3



TYPICAL BOTTOM BRACKET  
N.T.S. 4



SECTION A-A (SIDE VIEW)

N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED TITLE BLOCK TO PAGE 2	7/3/07	BHG
B	REVISED NOTE 8	12/15/08	CBT
C	WIND SPEED TABLE & TRACK CONFIGURATIONS	5/1/12	RLR

MAX SIZE  
9' x 14'

DESIGN LOADS  
+57.0 PSF  
-67.0 PSF

LARGE MISSILE  
IMPACT  
RESISTANCE

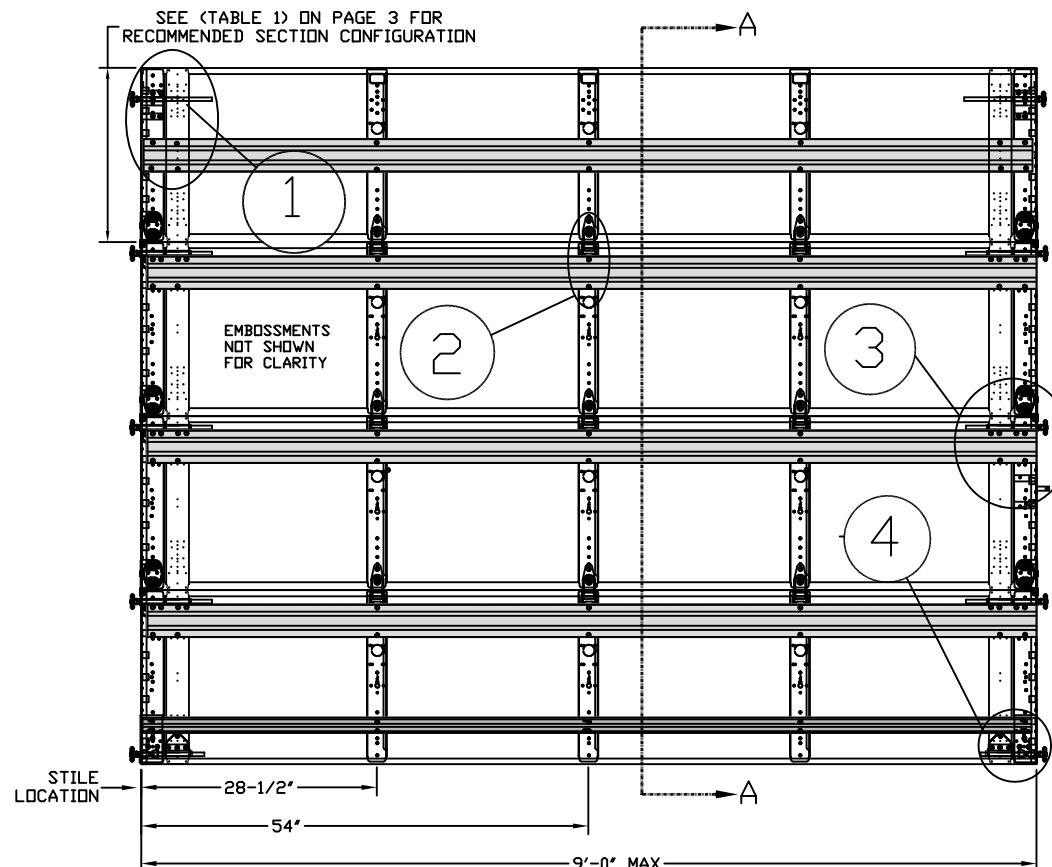
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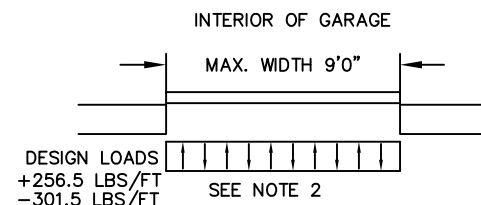
**MODEL 950 HERITAGE 1000, 2000  
MODEL 655 OAK SUMMIT (24g) 1000, 2000  
SHORT, LONG, FLUSH, & OAK SUMMIT PANELS**

SIZE	DRAWN BY	SKW	DATE	04/9/07	DRAWING NUMBER
B	CHECKED BY	BHG	DATE	04/9/07	IRC-9509-189-21-1

ENGINEER: THOMAS L. SHLMERDINE P.E. LIC. No. 0048579 SHEET 1 OF 3



INSIDE ELEVATION  
N.T.S.

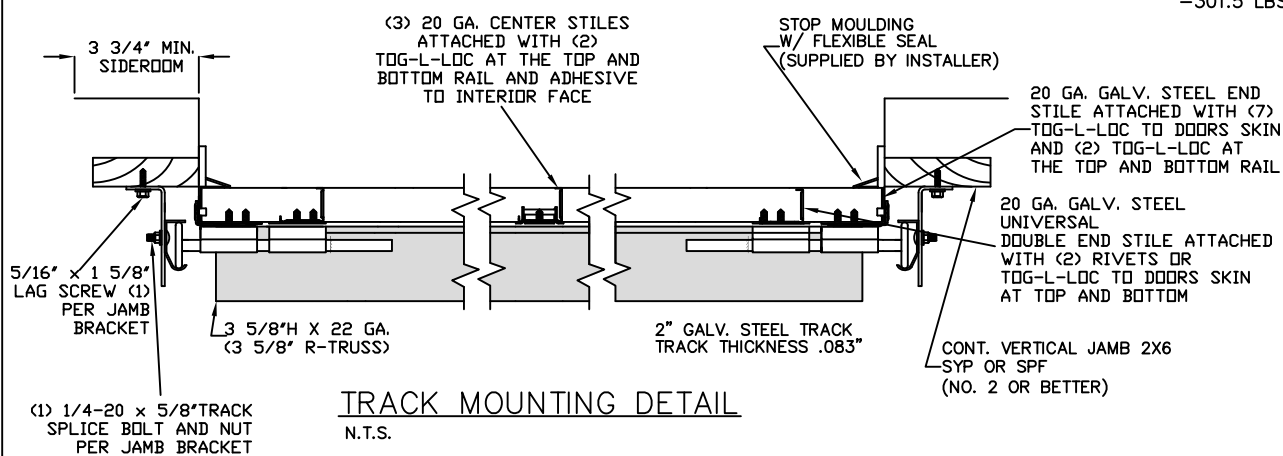


### SPECIFICATIONS AND NOTES

- 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: +256.5 LBS/FT & -301.5 LBS/FT
- DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
- DOORS UP TO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (1) 3 5/8" R-TRUSS PER SECTION AND (1) 2" 20 GA STRUT ON THE BOTTOM SECTION
- DOORS OVER (4) SECTIONS REFER TO TABLES 1 AND 2 ON PAGE 3
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

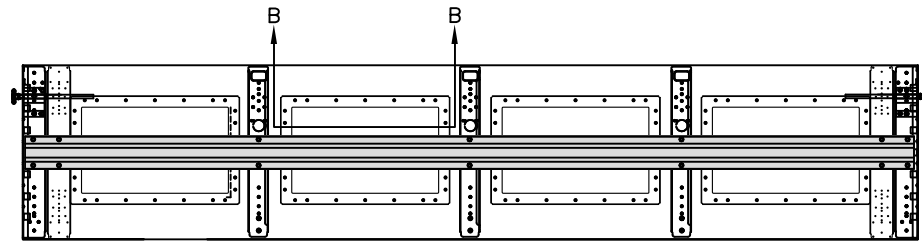
THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	189	172	163	156	150
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

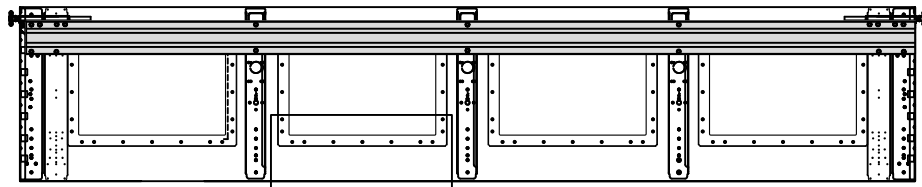


TRACK MOUNTING DETAIL  
N.T.S.

# WOOD JAMB ATTACHMENT TO STRUCTURE

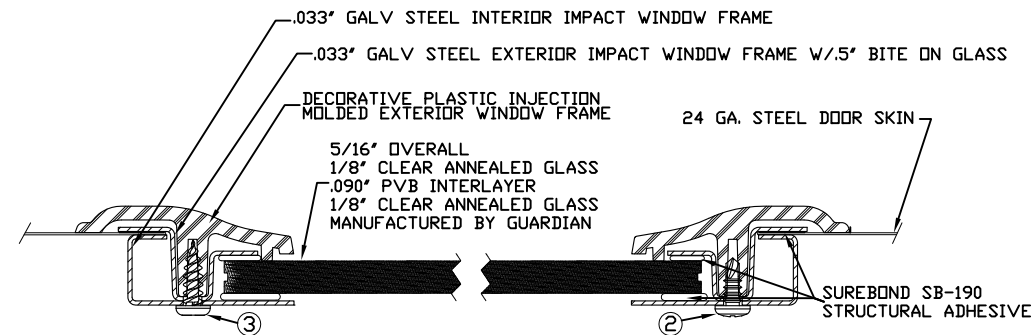


TOP SECTION  
GLAZING MEETS ASTM E1300-04



INTERMEDIATE SECTION  
GLAZING MEETS ASTM E1300-04

GLAZING OPTION DETAIL  
N.T.S.



- 3/16" X 1/2" SCREW - USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
- 11/64" X 1/2" SCREW - USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY

SECTION B-B IMPACT WINDOW DETAIL  
N.T.S.

13 GA. FLAG BRACKET ATTACHED TO WOOD JAMB W/ (3) 5/16 DIA. X 1-5/8" LAG BOLTS AND TO TRACK W/ (4) 1/4"-20 X 5/8 TRACK SPLICE BOLTS AND NUTS

SPLICE TRACKS AT THIS LOCATION W/ (4) 1/4"-20 TRACK SPLICE BOLTS & NUTS. SECURE TO JAMB WITH (3) 5/16" DIA. X 1-5/8" LAG BOLTS

(1) 5/16" DIA. X 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET

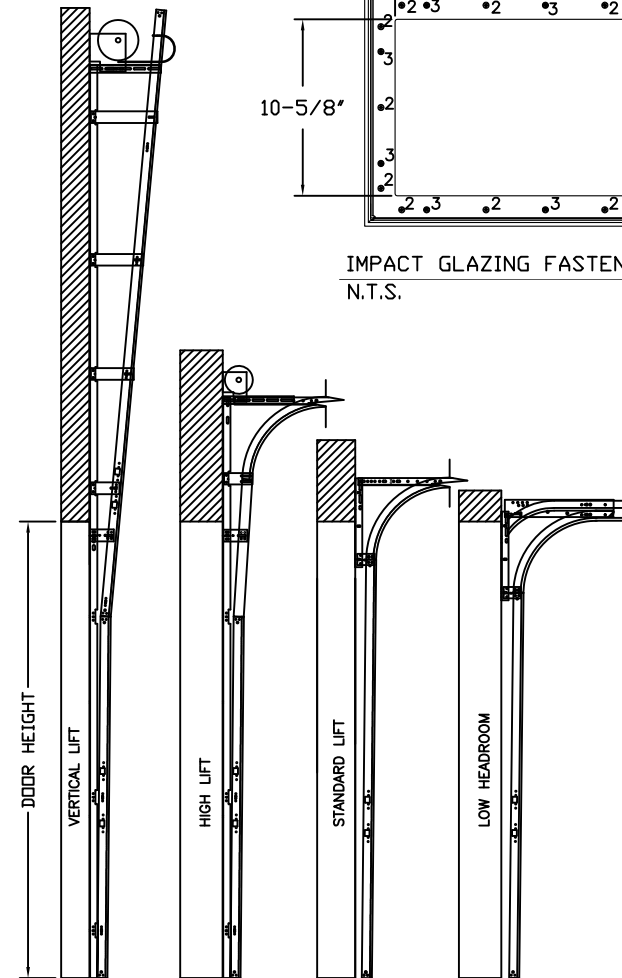
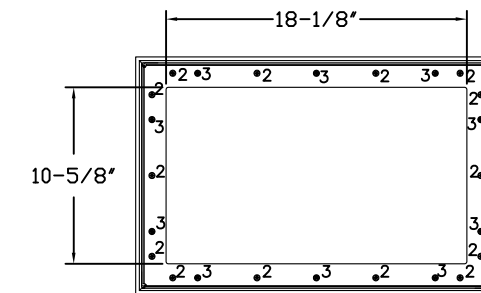
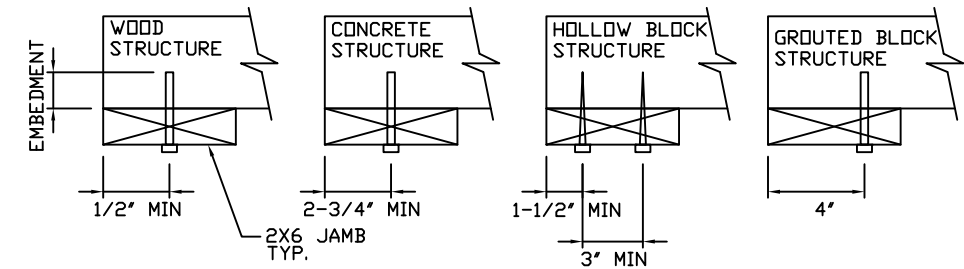
12 GA. GALV. STEEL JAMB BRACKETS ATTACHED W/ (1) 1/4"-20 X 5/8" TRACK SPLICE BOLT & NUT

SEE (TABLE 2) FOR JAMB BRACKET SPACING

TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

- 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)

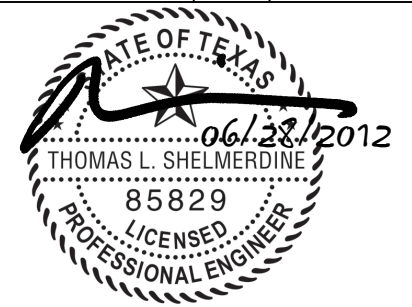
- \*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
- \*PREPARATION OF WOOD JAMBS BY OTHERS



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

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MAX SIZE  
9' x 14'  
DESIGN LOADS  
+57.0 PSF  
-67.0 PSF  
LARGE MISSILE  
IMPACT  
RESISTANCE



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MODEL 950 HERITAGE 1000, 2000  
MODEL 655 OAK SUMMIT (24g) 1000, 2000  
SHORT, LONG, FLUSH, & OAK SUMMIT PANELS

SIZE	DRAWN BY	SKW	DATE	04/9/07	DRAWING NUMBER
B	CHECKED BY	BHG	DATE	04/9/07	IRC-9509-189-21-1
ENGINEER: THOMAS L. SHELME RDINE P.E. LIC. No. 0048579					SHEET 2 OF 3

TABLE 1

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 2

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		S
6' 6"	3"	14"	27"	38"	46"	56"	64"									70"
7'	3"	14"	27"	38"	46"	56"	68"									76"
7' 6"	3"	14"	27"	38"	46"	56"	68"	78"								82"
8'	3"	14"	27"	38"	46"	56"	68"	78"								88"
8' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"							94"
9'	3"	14"	27"	38"	46"	56"	68"	78"	88"							100"
9' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	98"						106"
10'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"						112"
10' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"					118"
11'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"					124"
11' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	120"				130"
12'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"				136"
12' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	132"			142"
13'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"			148"
13' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	134"	144"		154"
14'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"		160"

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

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MAX SIZE 9' x 14'	
DESIGN LOADS +57.0 PSF -67.0 PSF	
LARGE MISSILE IMPACT RESISTANCE	

**Amarr**

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

**MODEL 950 HERITAGE 1000, 2000  
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SIZE	DRAWN BY	SKW	DATE	04/9/07	DRAWING NUMBER
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ENGINEER: THOMAS L. SHLMERDINE P.E. LIC. No. 0048579 SHEET 3 OF 3