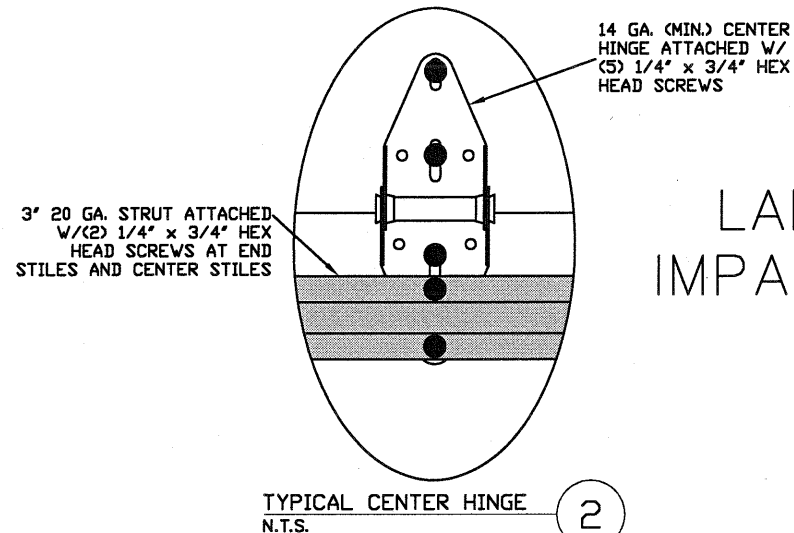




1-3/8"

3' 20 GA. GALV. STEEL STRUT ATTACHED AT TOP OF THE TOP SECTION W/ (2) 1/4' x 3/4' HEX HEAD SCREWS AT END STILES AND CENTER STILES

12 GA. GALV. COMMERCIAL TOP ROLLER BRACKET ATTACHED WITH (3) 1/4' x 3/4' HEX HEAD UNIV. SCREWS PER BRACKET ADJUSTABLE SLIDE BRACKET IS ASSEMBLED WITH (2) 1/4' x 5/8" BOLT & NUT PER BRACKET

TYPICAL TOP SECTION

STRUT SPACER USED ON GLAZED SECTION ONLY

3' 20 GA. GALV. STEEL STRUT ATTACHED ON HINGE LINE OF EVERY INTERMEDIATE SECTION W/ (2) 1/4' x 3/4' HEX HEAD SCREWS AT END AND CENTER STILES

TYPICAL INTERMEDIATE SECTION

END HINGE 14 GA.

3' 20 GA. GALV. STEEL STRUT ATTACHED ON HINGE LINE AT TOP OF THE BOTTOM SECTION W/ (2) 1/4' x 3/4' HEX HEAD SCREWS AT END STILES AND CENTER STILES

CFC-FREE EXPANDED POLYSTYRENE INSULATION DENSITY: 0.80 LBS/FT3 (MIN.)

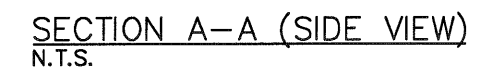
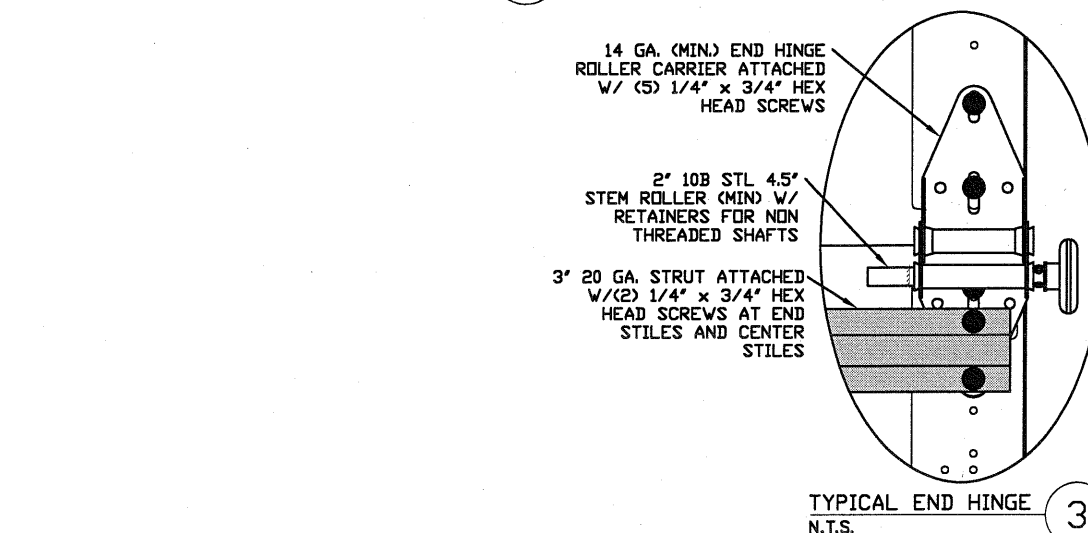
TYPICAL BOTTOM SECTION

BACK SKIN 27 GA.

3' 20 GA. STRUT STACKED ON BOTTOM BRACKET ATTACHED W/ (2) 1/4' x 3/4' HEX HEAD SCREWS ON END STILES AND CENTER STILES

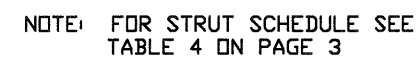
BOTTOM BRACKET ATTACHED W/ (5) 1/4' x 3/4' HEX HEAD SCREWS

FRONT SKIN 27 GA.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 9' x 14' DESIGN LOADS +38.0 PSF -45.0 PSF TEST LOADS +57.0 PSF -67.5 PSF LARGE MISSILE IMPACT RESISTANT	Thomas L. Sheldermine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	THOMAS L. SHELDERMINE LICENSE No. 48579 10/13/20 STATE OF FLORIDA PROFESSIONAL ENGINEER	dba Structural Solutions of North Carolina, Inc. 59921-G W. Friendly Ave., Greensboro, NC 27410
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THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, AND ASTM E330, E1886, E1996, & F588. 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):

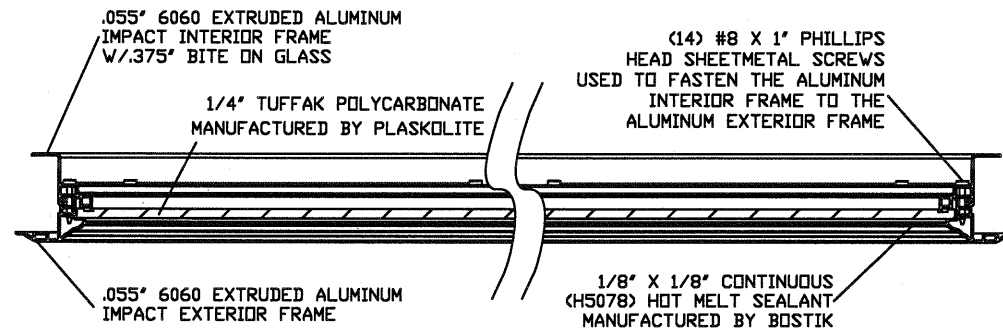
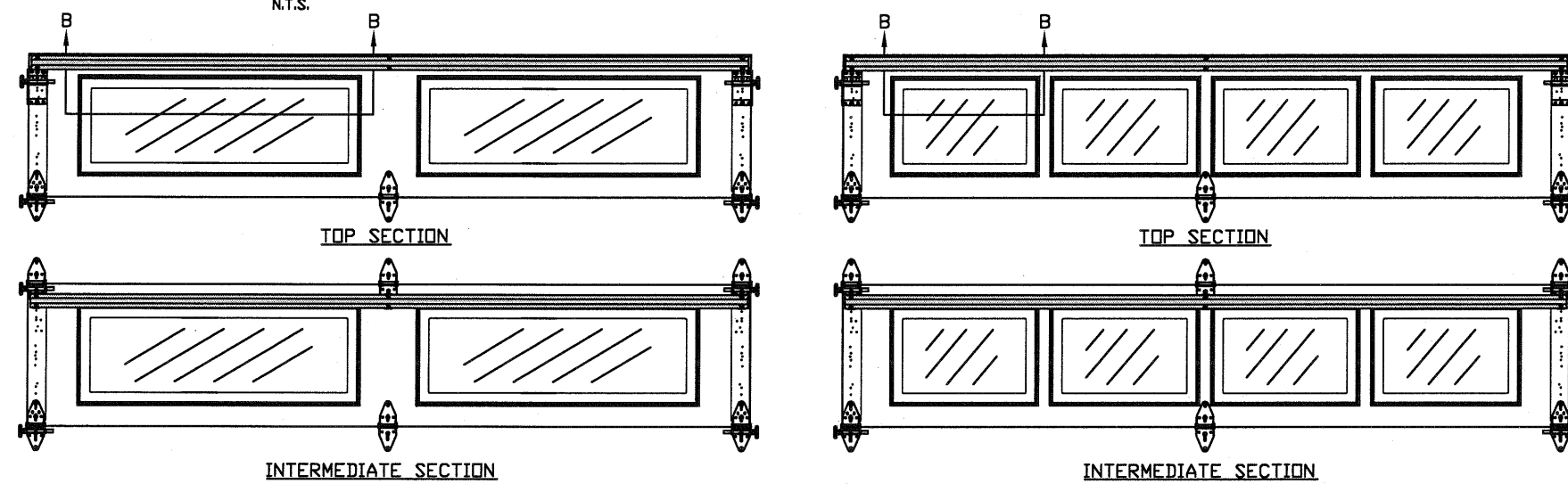
WIND SPEED (MPH)	200	182	173	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

Amarr

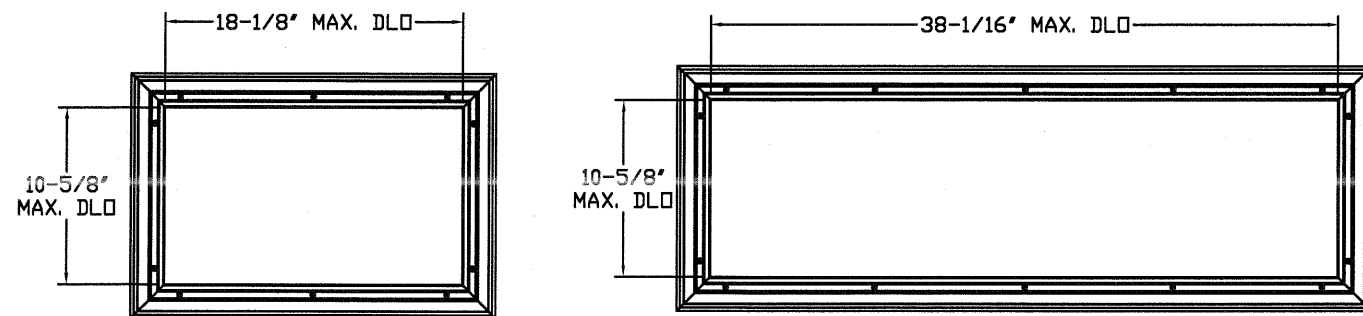
MODEL #3100	AMARR	LINCOLN 3138
MODEL #3150	AMARR	HILLCREST 3138
MODEL #1600	AMARR	LINCOLN 3000
MODEL #1650	AMARR	HILLCREST 3000

SIZE B	DRAWN BY	DRC	DATE 03/14/19	DRAWING NUMBER IRC-3109-155-15-1
	CHECKED BY	RLR	DATE 03/19/19	
ENTERMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105				SHEET 1 OF 3

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

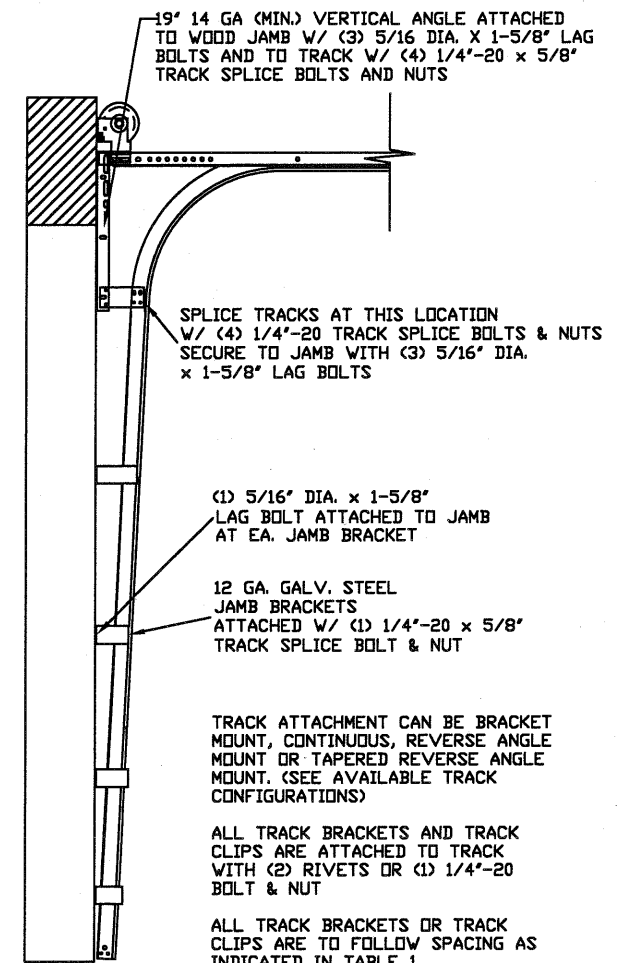


SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.

LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



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

TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT							
	A	B	C	D	E	F	G	H
6' 6"	3.5"	21"	39"	57"				
7'	3.5"	21"	42"	63"				
7' 6"	3.5"	18"	36"	54"	72"			
8'	3.5"	21"	39"	57"	75"			
8' 6"	3.5"	21"	42"	63"	81"			
9'	3.5"	18"	36"	54"	72"	90"		
9' 6"	3.5"	21"	39"	57"	75"	93"		
10'	3.5"	21"	42"	63"	81"	99"		
10' 6"	3.5"	21"	42"	63"	84"	105"		
11'	3.5"	21"	39"	57"	75"	93"	111"	
11' 6"	3.5"	21"	42"	63"	81"	99"	117"	
12'	3.5"	21"	42"	63"	84"	105"	123"	
12' 6"	3.5"	21"	39"	57"	75"	93"	111"	129"
13'	3.5"	21"	42"	63"	81"	99"	117"	135"
13' 6"	3.5"	21"	42"	63"	84"	105"	123"	141"
14'	3.5"	21"	42"	63"	84"	105"	126"	147"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+38.0 PSF
-45.0 PSF

TEST LOADS
+57.0 PSF
-67.5 PSF

LARGE
MISSILE
IMPACT
RESISTANT

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

FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

MODEL #3100 AMARR LINCOLN 3138
 MODEL #3150 AMARR HILLCREST 3138
 MODEL #1600 AMARR LINCOLN 3000
 MODEL #1650 AMARR HILLCREST 3000

SIZE B	DRAWN BY DRC	DATE 03/14/19	DRAWING NUMBER IRC-3109-155-15-1
CHECKED BY RLR	DATE 03/19/19	ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC. 27105	

SHEET 2 OF 3

TABLE 2

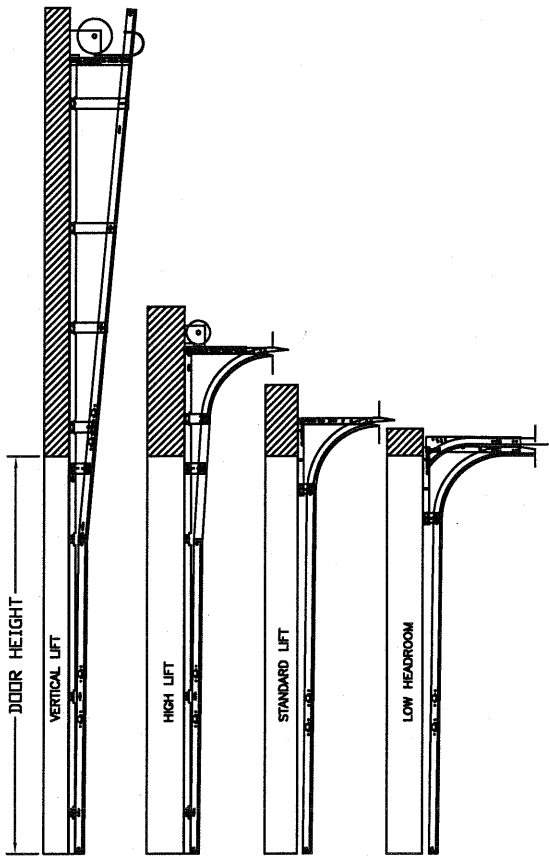
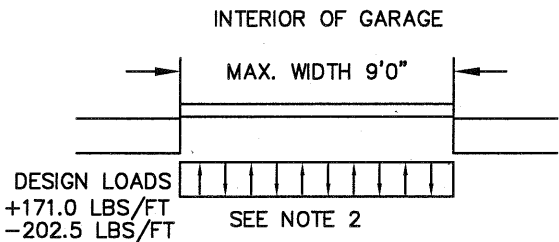
DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
6' 0"	18"	18"	18"	18"				
6' 6"	21"	18"	18"	21"				
7' 0"	21"	21"	21"	21"				
7' 6"	18"	18"	18"	18"	18"			
8' 0"	21"	18"	18"	18"	21"			
8' 6"	21"	21"	21"	18"	21"			
9' 0"	18"	18"	18"	18"	18"	18"		
9' 6"	21"	18"	18"	18"	18"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
10' 6"	21"	21"	21"	21"	21"	21"		
11' 0"	21"	18"	18"	18"	18"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
12' 0"	21"	21"	21"	21"	21"	18"	21"	
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"

TABLE 4

SECTION	STRUT SIZE
8TH	3"
7TH	3"
6TH	3"
5TH	3"
4TH	3"
3RD	3"
2ND	3"
BOTTOM	3"

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: +171.0 LBS/FT & -202.5 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 27GA MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
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. PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.



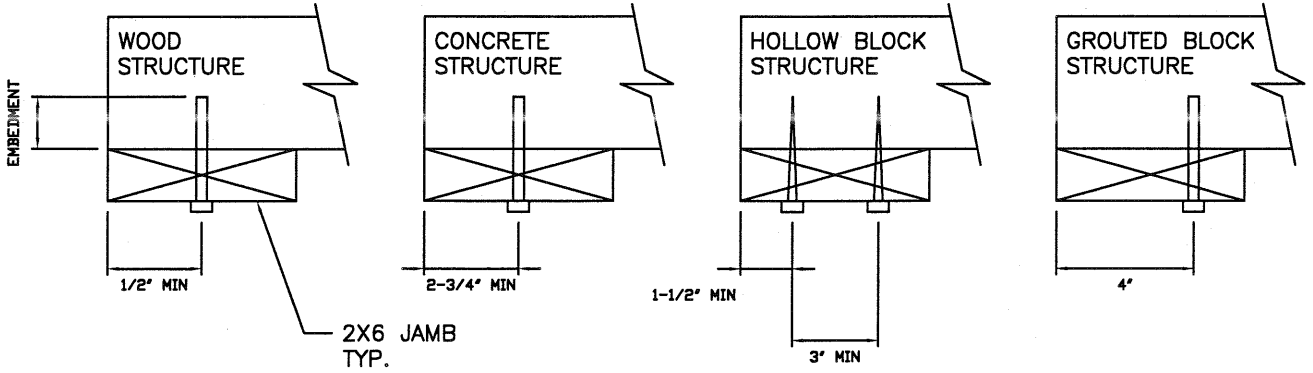
AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 3

Section	Panel Type	Center Stile Location (Measured from Left Edge)		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6' 0"	Short	24.406	47.594	57.0	67.5
7' 0"	Short	29.200	54.800	48.8	57.8
7' 2"	Short	30.200	55.800	47.7	56.5
7' 4"	Short	31.200	56.800	46.6	55.2
7' 6"	Short	32.200	57.800	45.6	54.0
7' 6"	Long	45.000		45.6	54.0
7' 8"	Short	32.200	60.000	44.6	52.8
7' 8"	Long	46.000		44.6	52.8
7' 10"	Short	33.000	61.000	43.6	51.7
7' 10"	Long	47.000		43.6	51.7
8' 0"	Short	48.000		42.7	50.6
8' 0"	Long	48.000		42.7	50.6
8' 2"	Short	49.000		41.8	49.5
8' 2"	Long	49.000		41.8	49.5
8' 4"	Short	50.000		41.0	48.6
8' 4"	Long	50.000		41.0	48.6
8' 6"	Short	51.000		40.2	47.6
8' 6"	Long	51.000		40.2	47.6
8' 8"	Short	52.000		39.4	46.7
8' 8"	Long	52.000		39.4	46.7
8' 10"	Short	53.000		38.7	45.8
8' 10"	Long	53.000		38.7	45.8
9' 0"	Short	54.000		38.0	45.0
9' 0"	Long	54.000		38.0	45.0

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 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



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+38.0 PSF
-45.0 PSF

TEST LOADS
+57.0 PSF
-67.5 PSF

LARGE
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LICENSE

No. 48579

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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SIZE	DRAWN BY	DRC	DATE	03/14/19	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	03/19/19	

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 3 OF 3