

NOTE: FOR STRUT SCHEDULE SEE TABLE 4 ON PAGE 3

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 AND ASTM E330. 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 I=1.0):

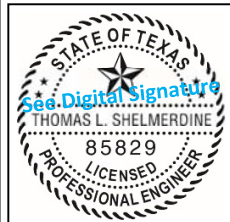
WIND SPEED (MPH)	142	129	122	117	112
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED HERITAGE MODEL/DRAWING UPDATES	3/1/22	RLR

MAX SIZE  
16' x 14'

DESIGN LOADS  
+18.3 PSF  
-20.8 PSF

TEST LOADS  
+27.5 PSF  
-31.2 PSF



This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)  
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  
MODEL #1200 AMARR HERITAGE 3000

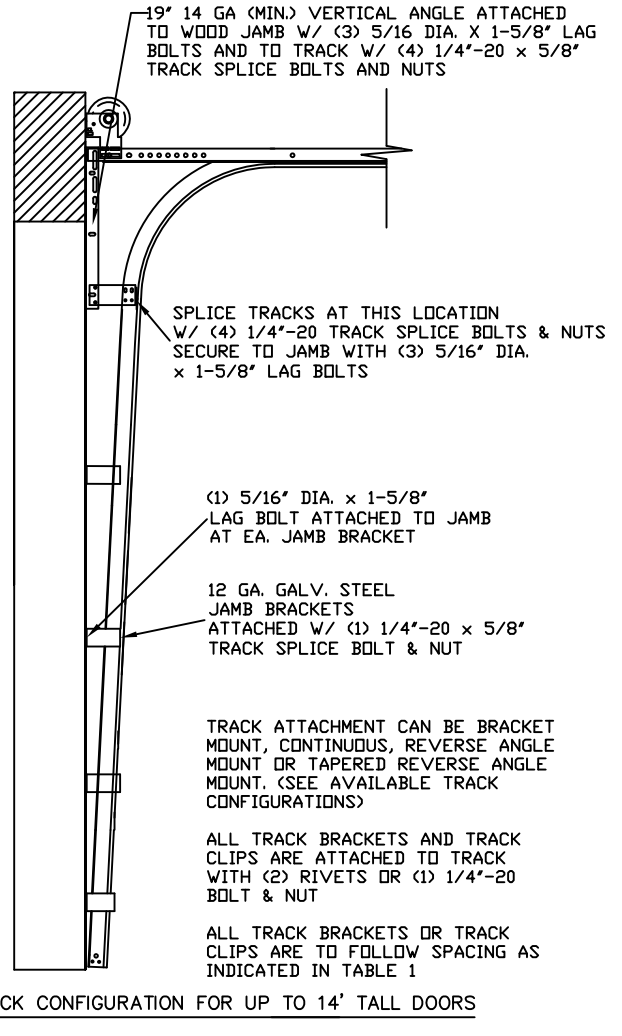
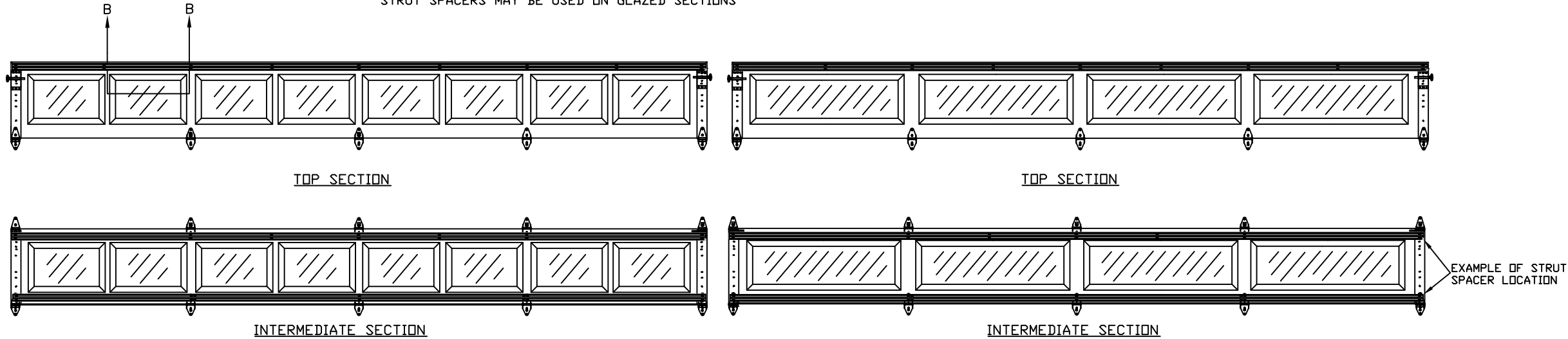
SIZE	DRAWN BY	DRD	DATE	12/19/18	DRAWING NUMBER
B	CHECKED BY	DLJ	DATE	02/06/19	IRC-3116-110-15

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

SHEET 1 OF 3

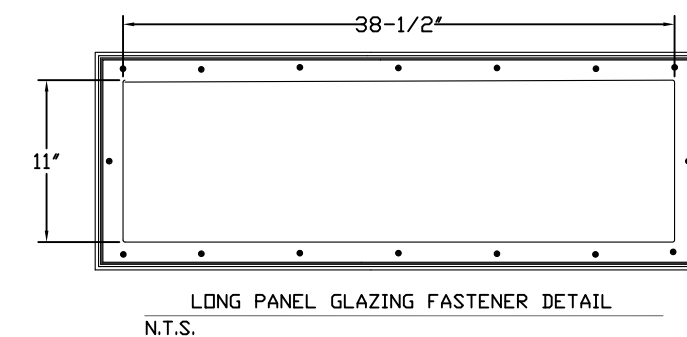
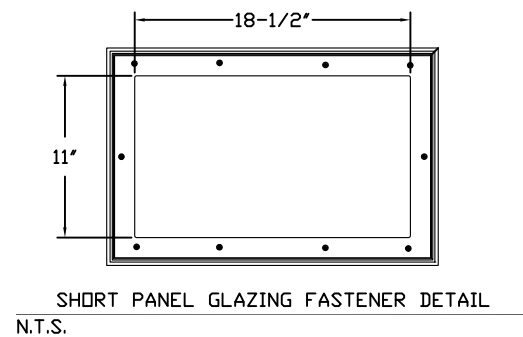
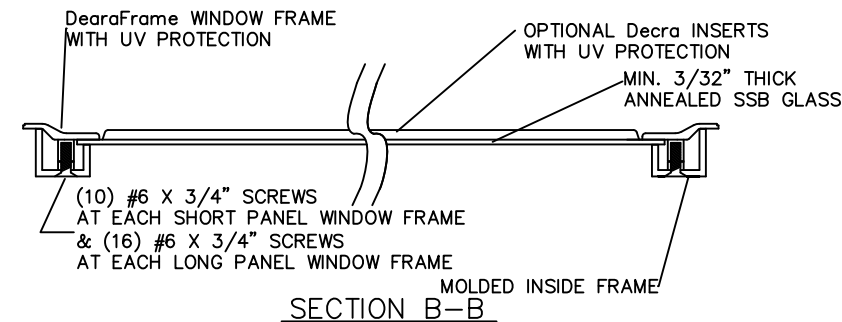
# OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

STRUT SPACERS MAY BE USED ON GLAZED SECTIONS



## 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

EMBEDMENT

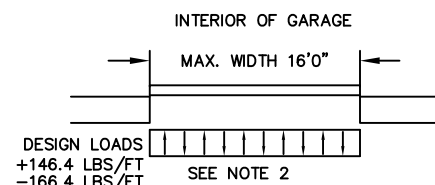
WOOD STRUCTURE 1/2" MIN

CONCRETE STRUCTURE 2-3/4" MIN

HOLLOW BLOCK STRUCTURE 1-1/2" MIN

GROUTED BLOCK STRUCTURE 4" MIN

2X6 JAMB TYP.



### 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: +146.4 LBS/FT & -166.4 LBS/FT.
- DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 27GA MIN. INTERIOR AND 27GA MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
- PANEL STAMP DOES NOT AFFECT WINDLOAD CAPABILITIES.
- DOOR IS MANUFACTURED AND TESTED IN ACCORDANCE WITH THE 2018 IRC/IBC.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED HERITAGE MODEL/DRAWING UPDATES	3/1/22	RLR

MAX SIZE  
16' x 14'

DESIGN LOADS  
+18.3 PSF  
-20.8 PSF

TEST LOADS  
+27.5 PSF  
-31.2 PSF

This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)  
5921-G W. Friendly Ave., Greensboro, NC 27410

TX



- MODEL #3100 AMARR LINCOLN 3138
- MODEL #3150 AMARR HILLCREST 3138
- MODEL #1600 AMARR LINCOLN 3000
- MODEL #1650 AMARR HILLCREST 3000
- MODEL #1200 AMARR HERITAGE 3000

SIZE	DRAWN BY	DRD	DATE	12/19/18	DRAWING NUMBER
B	CHECKED BY	DLJ	DATE	02/06/19	IRC-3116-110-15
AMARR COMPANY					SHEET 2 OF 3
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					

**TABLE 1**

DOOR HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 6"	10"	21"	42"	63"					70"
7'	10"	21"	42"	63"					76"
7' 6"	10"	21"	42"	63"					82"
8'	10"	21"	42"	63"					88"
8' 6"	10"	21"	42"	63"	84"				94"
9'	10"	21"	42"	63"	84"				100"
9' 6"	10"	21"	42"	63"	84"				106"
10'	10"	21"	42"	63"	84"	105"			112"
10' 6"	10"	21"	42"	63"	84"	105"			118"
11'	10"	21"	42"	63"	84"	105"			124"
11' 6"	10"	21"	42"	63"	84"	105"			130"
12'	10"	21"	42"	63"	84"	105"	126"		136"
12' 6"	10"	21"	42"	63"	84"	105"	126"		142"
13'	10"	21"	42"	63"	84"	105"	126"		148"
13' 6"	10"	21"	42"	63"	84"	105"	126"	147"	154"
14'	10"	21"	42"	63"	84"	105"	126"	147"	160"

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

**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"

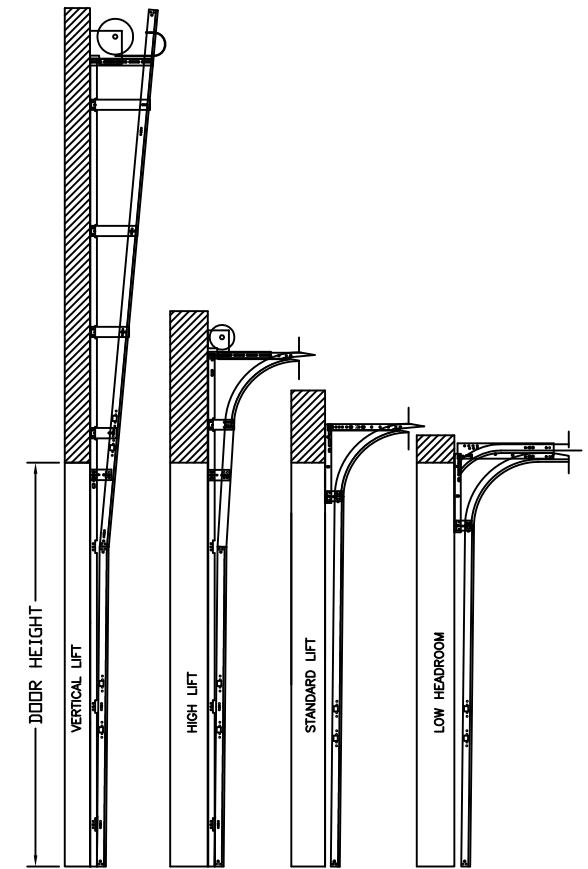
**TABLE 4**

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

**TABLE 3**

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
14' 0"	Short	57.76	84.00	110.11		20.8	23.7
14' 0"	Long	58.63	84.00	109.38		20.8	23.7
14' 2"	Short	58.85	85.00	111.41		20.6	23.4
14' 2"	Long	59.17	85.00	110.83		20.6	23.4
14' 4"	Short	59.16	86.00	112.71		20.3	23.1
14' 4"	Long	60.17	86.00	111.83		20.3	23.1
14' 6"	Short	59.86	87.00	114.01		20.1	22.8
14' 6"	Long	61.17	87.00	112.83		20.1	22.8
14' 8"	Short	60.56	88.00	115.31		19.9	22.6
14' 8"	Long	44.81	88.00	131.19		19.9	22.6
14' 10"	Short	61.26	89.00	116.61		19.6	22.3
14' 10"	Long	45.60	89.00	132.40		19.6	22.3
15' 0"	Short	61.94	90.00	117.94		19.4	22.1
15' 0"	Long	46.60	90.00	133.40		19.4	22.1
15' 2"	Short	62.66	91.00	119.21		19.2	21.8
15' 2"	Long	47.60	91.00	134.40		19.2	21.8
15' 4"	Short	53.60	79.20	104.80	130.40	19.0	21.6
15' 4"	Long	47.25	92.00	136.75		19.0	21.6
15' 6"	Short	46.62	93.00	139.38		18.8	21.4
15' 6"	Long	47.60	93.00	138.40		18.8	21.4
15' 6"	Bead Board	47.42	93.00	138.58		18.8	21.4
15' 8"	Short	47.62	94.00	140.38		18.6	21.1
15' 8"	Long	48.60	94.00	139.40		18.6	21.1
15' 8"	Bead Board	48.02	94.00	139.98		18.6	21.1
15' 10"	Short	48.62	95.00	141.38		18.4	20.9
15' 10"	Long	49.17	95.00	140.83		18.4	20.9
15' 10"	Bead Board	48.62	95.00	141.38		18.4	20.9
16' 0"	Short	49.62	96.00	142.38		18.3	20.8
16' 0"	Long	50.60	96.00	141.40		18.3	20.8
16' 0"	Bead Board	48.42	96.00	143.58		18.3	20.8

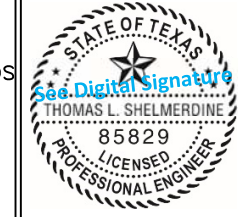
CONTACT ENGINEERING REGARDING SIZES NOT LISTED



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED HERITAGE MODEL/DRAWING UPDATES	3/1/22	RLR

MAX SIZE  
16' x 14'  
DESIGN LOADS  
+18.3 PSF  
-20.8 PSF  
TEST LOADS  
+27.5 PSF  
-31.2 PSF



This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

Thomas L. Shelmerdine, PE (TX PE #85829)  
Structural Solutions, PA (TX Firm #F-004063)  
5921-G W. Friendly Ave., Greensboro, NC 27410

TX



MODEL #3100 AMARR LINCOLN 3138  
MODEL #3150 AMARR HILLCREST 3138  
MODEL #1600 AMARR LINCOLN 3000  
MODEL #1650 AMARR HILLCREST 3000  
MODEL #1200 AMARR HERITAGE 3000

SIZE	DRAWN BY	DRD	DATE	12/19/18	DRAWING NUMBER
B	CHECKED BY	DLJ	DATE	02/06/18	IRC-3116-110-15
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 3 OF 3