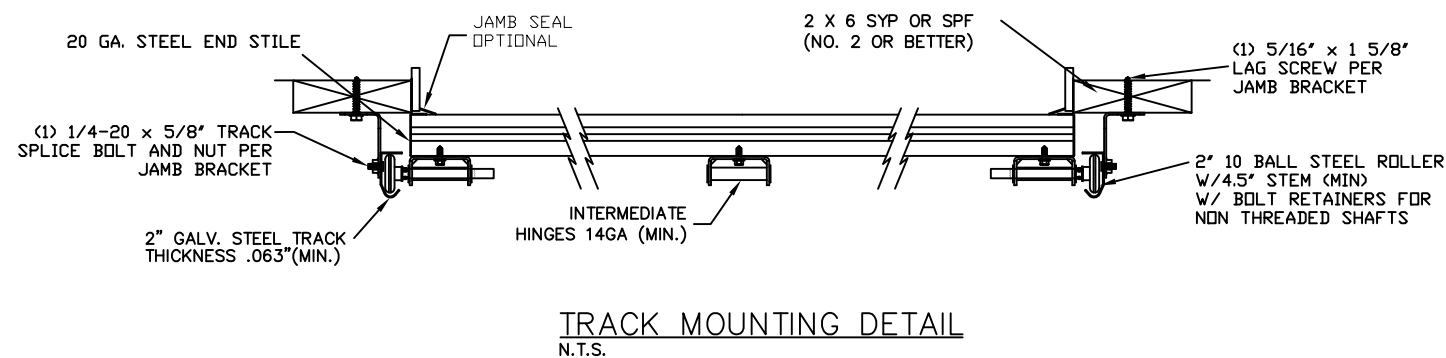
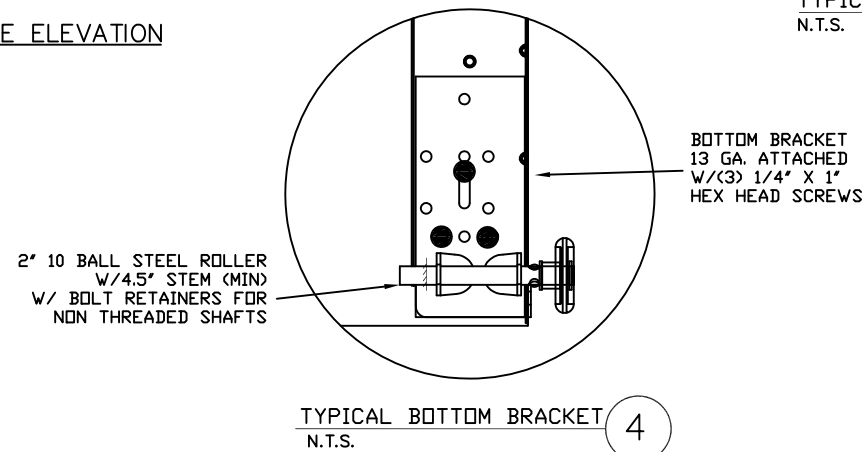
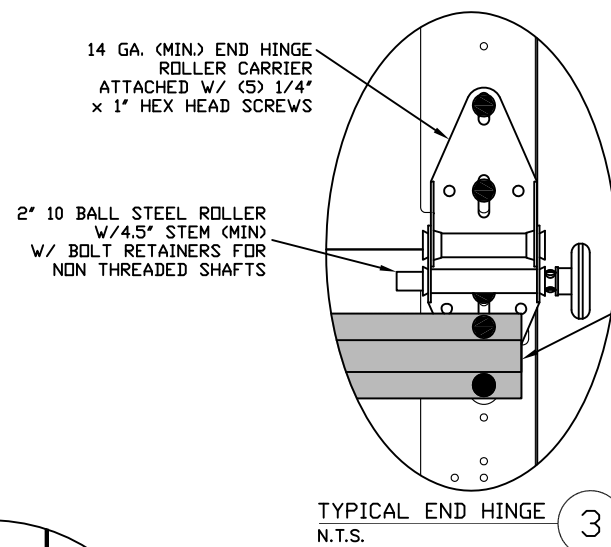
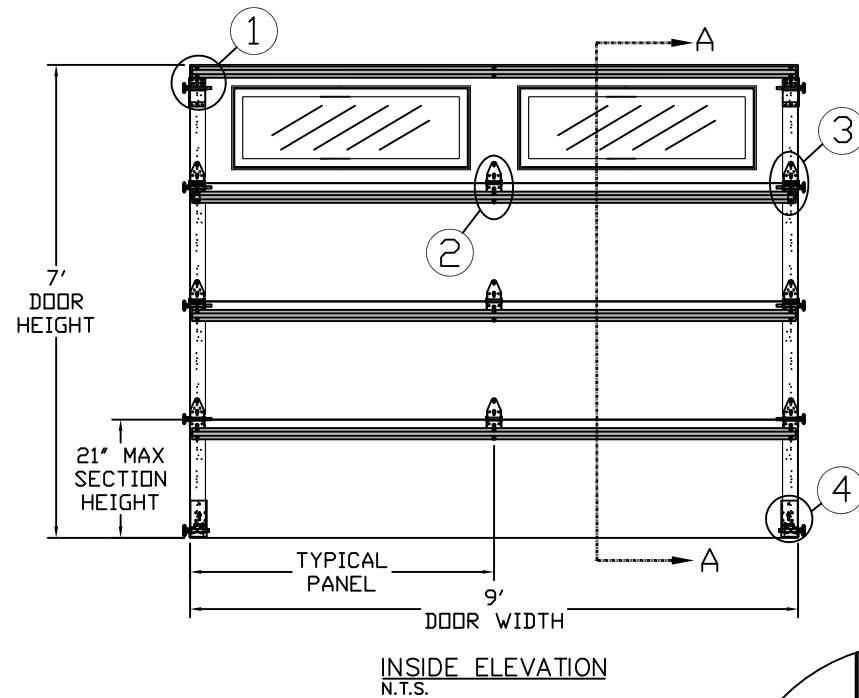
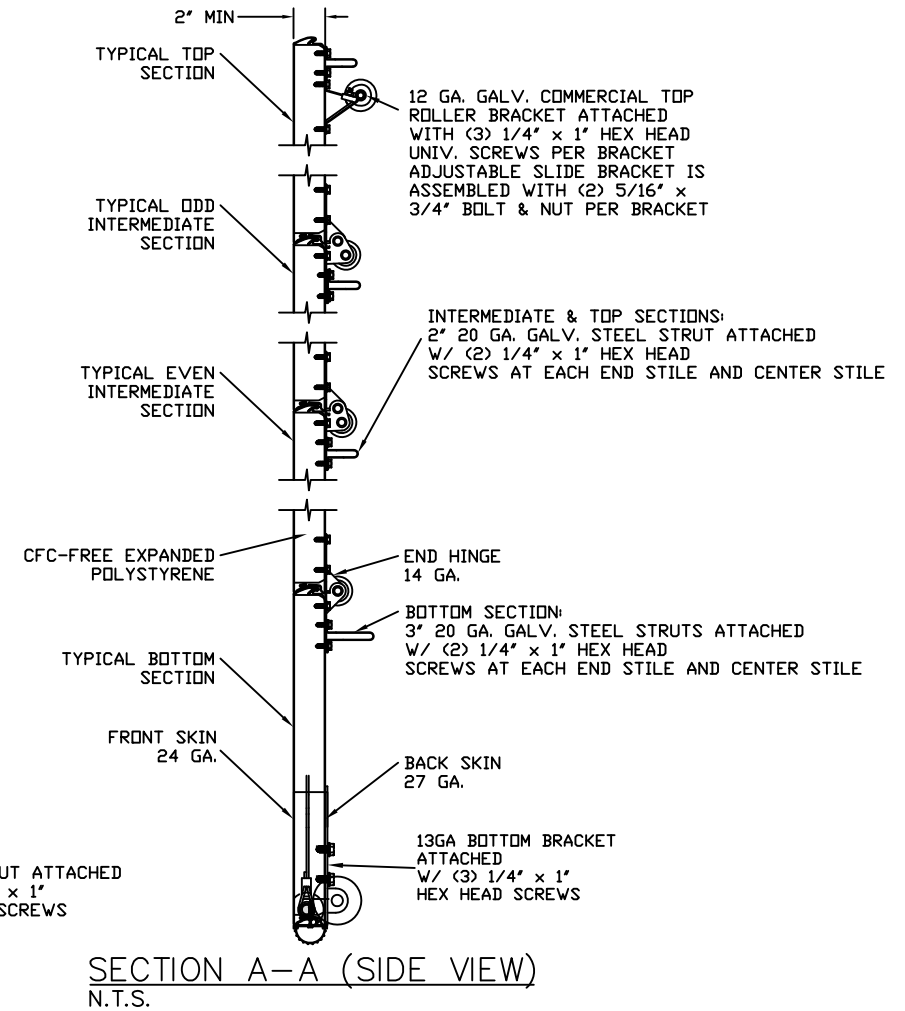
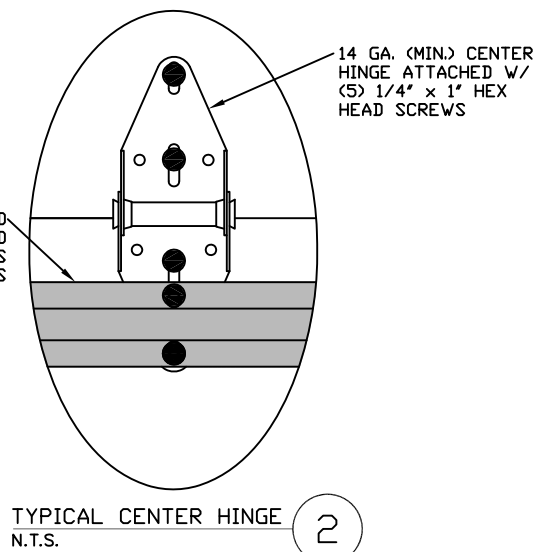
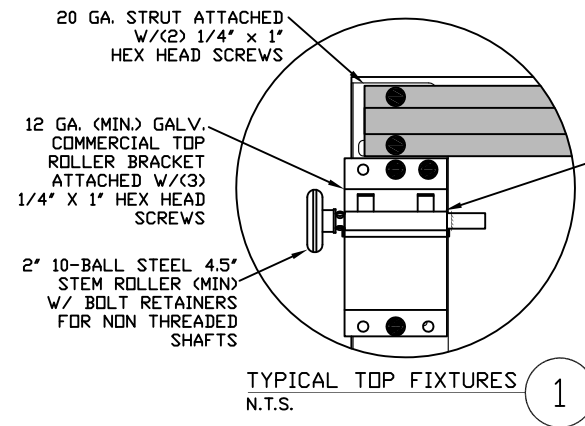




LARGE MISSILE IMPACT RESISTANT

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, ASTM E330 & F588, TAS 201, 202 & 203. 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)	202	183	174	166	160
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
-----	--------------------------	------	----

MAX SIZE
9' x 14'

DESIGN LOADS
+38.7 PSF
-48.3 PSF

TEST LOADS
+58.1 PSF
-72.5 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
Structural Solutions, PA (FL Firm #29412)
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

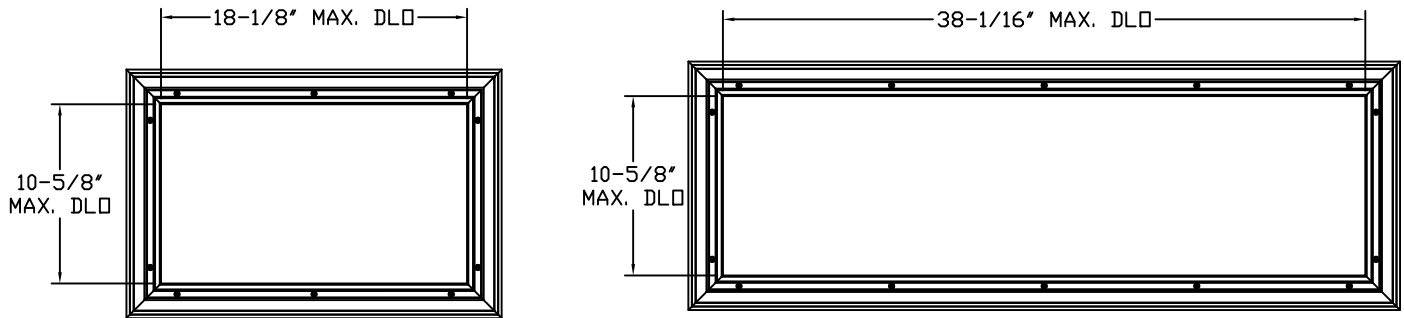
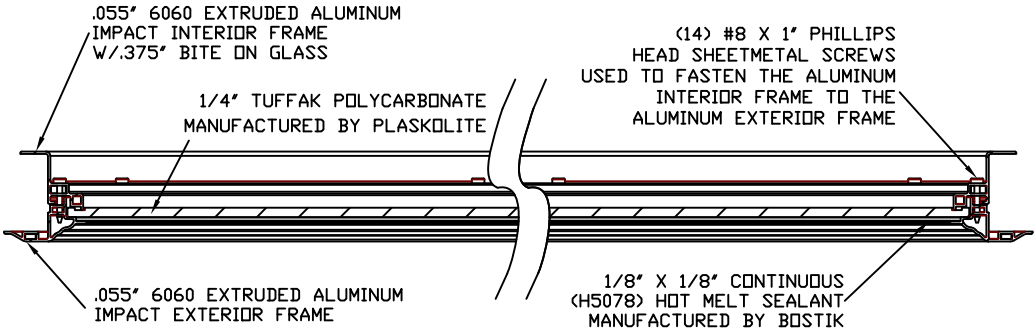
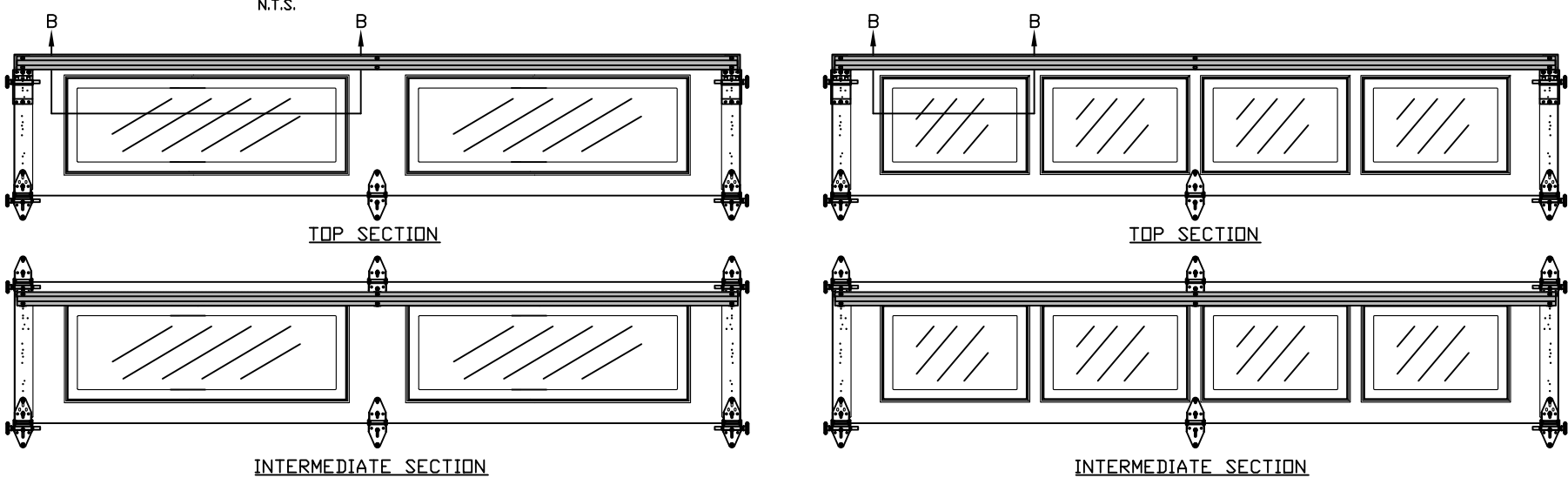
FL

Amarr

AMARR MODEL #1200 AMARR HERITAGE 3000
AMARR MODEL #1200 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	07/28/21	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	07/28/21	IRC-1209-155-15-1
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS



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

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

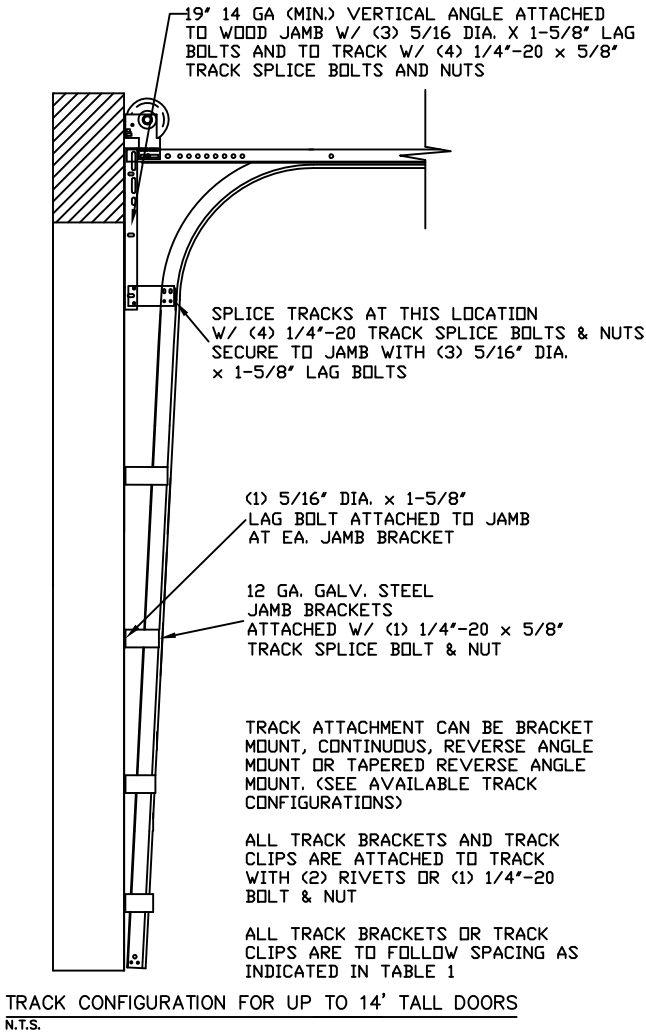


TABLE 1

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 +38.7 PSF -48.3 PSF

TEST LOADS +58.1 PSF -72.5 PSF

LARGE MISSILE IMPACT RESISTANT

THOMAS L. SHELDERDINE
LICENSE
No. 48579
See Digital Signature
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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 (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

FL

Amarr

AMARR MODEL #1200 AMARR HERITAGE 3000
AMARR MODEL #1200 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	07/28/21	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	07/28/21	IRC-1209-155-15-1

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

SHEET 2 OF 3

TABLE 2

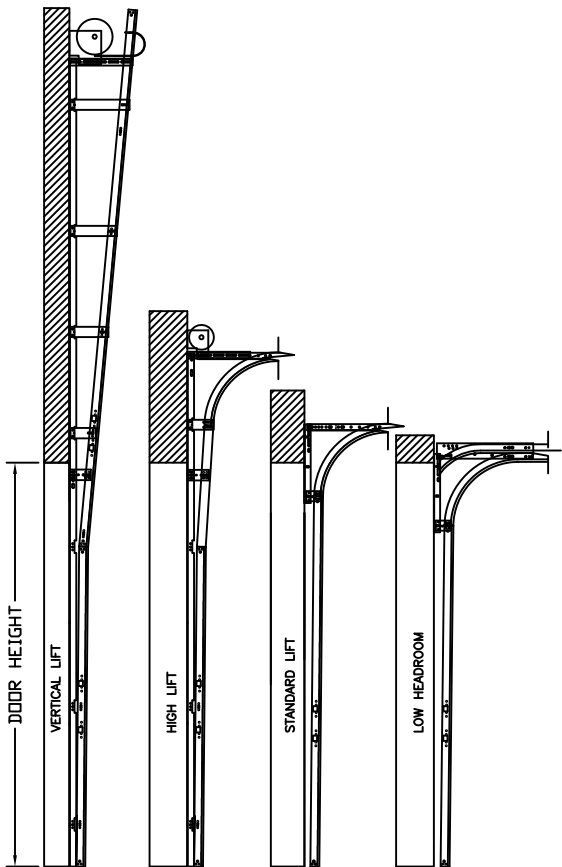
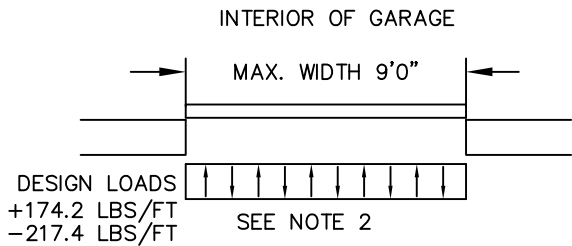
DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
6' 0"	18"	18"	18"	18"				
6' 6"	21"	18"	18"	21"				
7' 0"	21"	21"	21"	21"				
7' 6"	18"	18"	18"	18"	18"			
8' 0"	21"	18"	18"	18"	21"			
8' 6"	21"	21"	21"	18"	21"			
9' 0"	18"	18"	18"	18"	18"	18"		
9' 6"	21"	18"	18"	18"	18"	21"		
10' 0"	21"	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	2"
7TH	2"
6TH	2"
5TH	2"
4TH	2"
3RD	2"
2ND	2"
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: +174.2 LBS/FT & -217.4 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 24GA 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	58.0	72.4
7' 0	Short	29.200	54.800	49.7	62.1
7' 2	Short	30.200	55.800	48.6	60.6
7' 4	Short	31.200	56.800	47.4	59.2
7' 6	Short	32.200	57.800	46.4	57.9
7' 6	Long	45.000		46.4	57.9
7' 8	Short	32.200	60.000	45.4	56.7
7' 8	Long	46.000		45.4	56.7
7' 10	Short	33.000	61.000	44.4	55.4
7' 10	Long	47.000		44.4	55.4
8' 0	Short	48.000		43.5	54.3
8' 0	Long	48.000		43.5	54.3
8' 2	Short	49.000		42.6	53.2
8' 2	Long	49.000		42.6	53.2
8' 4	Short	50.000		41.7	52.1
8' 4	Long	50.000		41.7	52.1
8' 6	Short	51.000		40.9	51.1
8' 6	Long	51.000		40.9	51.1
8' 8	Short	52.000		40.1	50.1
8' 8	Long	52.000		40.1	50.1
8' 10	Short	53.000		39.4	49.2
8' 10	Long	53.000		39.4	49.2
9' 0	Short	54.000		38.7	48.3
9' 0	Long	54.000		38.7	48.3

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
+38.7 PSF
-48.3 PSF

TEST LOADS
+58.1 PSF
-72.5 PSF

LARGE
MISSILE
IMPACT
RESISTANT

THOMAS L. SHELMEKDINE

LICENSE

No. 48579

See Digital Signature

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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 (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

FL

Amarr

AMARR MODEL #1200 AMARR HERITAGE 3000
AMARR MODEL #1200 AMARR OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

SIZE	DRAWN BY	RLR	DATE	07/28/21	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	07/28/21	IRC-1209-155-15-1

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

SHEET 3 OF 3