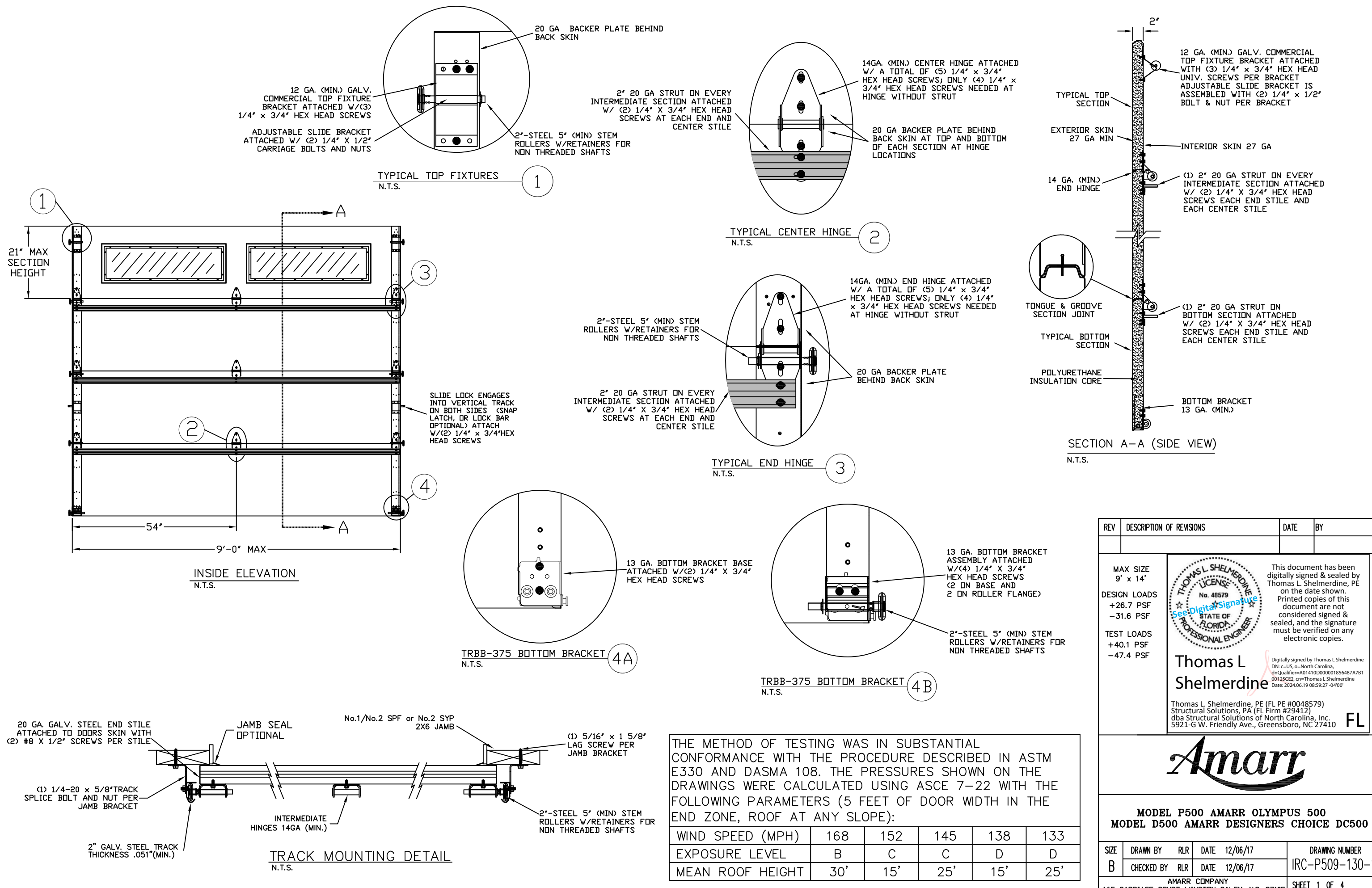




REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+26.7 PSF
-31.6 PSF

TEST LOADS
+40.1 PSF
-47.4 PSF

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Thomas L
Shelmerdine

Digitally signed by Thomas L Shelmerdine
DN: c=US, o=North Carolina,
dnQualifier=A01410D000001856487A7B1
00125CE2, cn=Thomas L Shelmerdine
Date: 2024.06.19 08:59:27 -0400

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

MODEL P500 AMARR OLYMPUS 500
MODEL D500 AMARR DESIGNERS CHOICE DC500

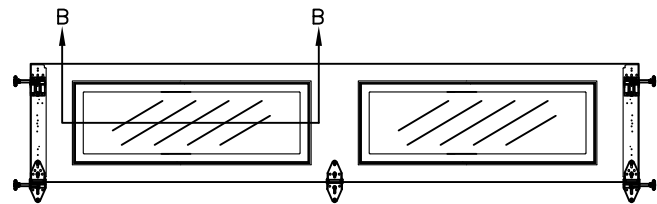
SIZE	DRAWN BY	RLR	DATE	12/06/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/06/17	IRC-P509-130-11

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

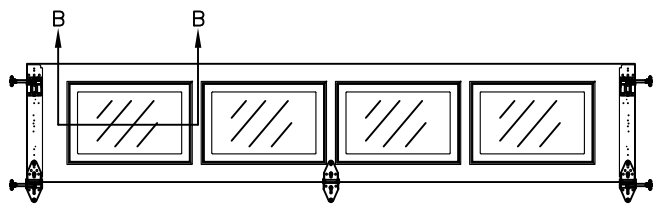
SHEET 1 OF 4

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 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):					
WIND SPEED (MPH)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

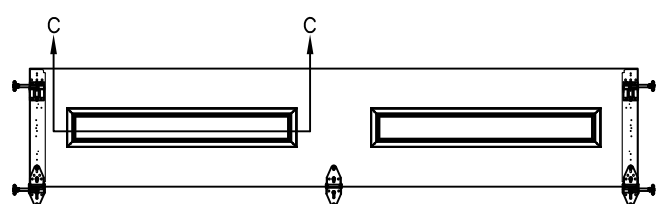
OPTIONAL SHORT, LONG AND SLIMLINE PANEL GLAZING LAYOUTS
GLAZING MEETS ASTM E1300-04



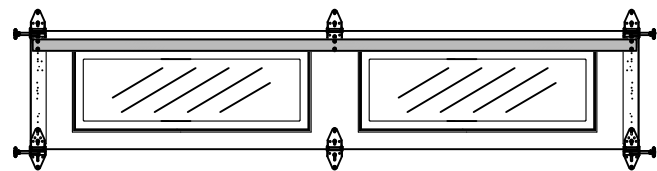
OPTIONAL GLAZED TOP SECTION W/ RESIDENTIAL LONG PANEL
N.T.S.



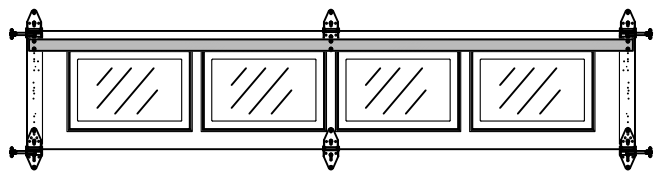
OPTIONAL GLAZED TOP SECTION W/ RESIDENTIAL SHORT PANEL
N.T.S.



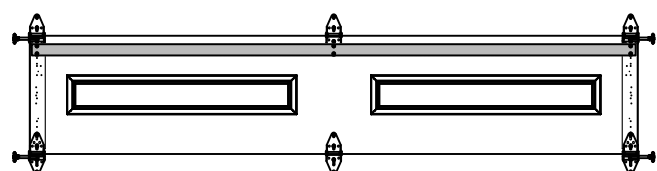
OPTIONAL GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL SLIMLINE PANEL
N.T.S.



OPTIONAL GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL LONG PANEL
N.T.S.



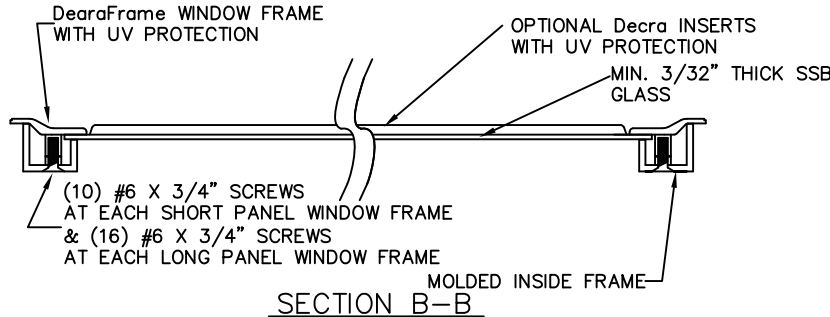
OPTIONAL GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL SHORT PANEL
N.T.S.



OPTIONAL GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL SLIMLINE PANEL
N.T.S.

GLAZING OPTION CROSS SECTION

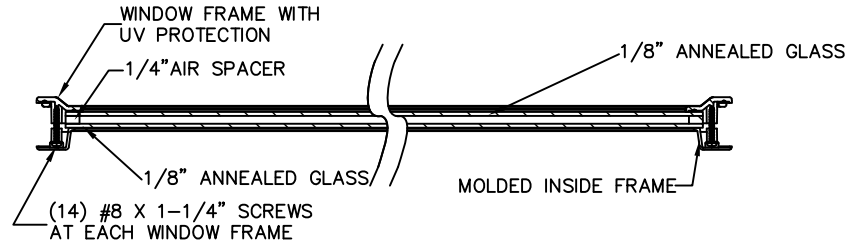
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



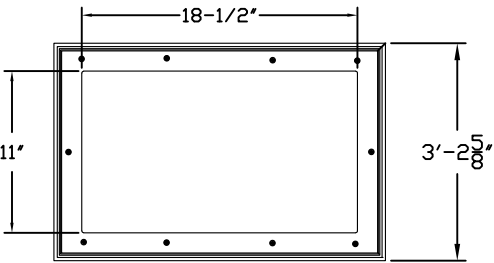
SECTION B-B

GLAZING OPTION CROSS SECTION

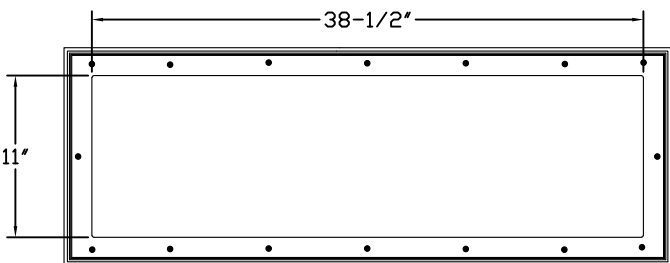
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
GLAZING MEETS ASTM E1300-04



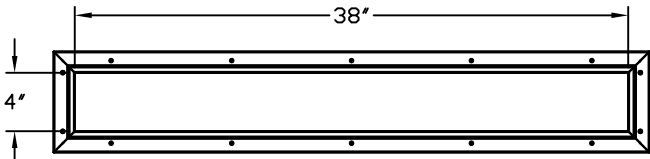
SECTION C-C



SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL GLAZING FASTENER DETAIL
N.T.S.



SLIMLINE PANEL GLAZING FASTENER DETAIL
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+26.7 PSF
-31.6 PSF

TEST LOADS
+40.1 PSF
-47.4 PSF

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

FL

MODEL P500 AMARR OLYMPUS 500
MODEL D500 AMARR DESIGNERS CHOICE DC500

SIZE	DRAWN BY	RLR	DATE	12/06/17	DRAWING NUMBER
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AMARR COMPANY
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 4

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

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)

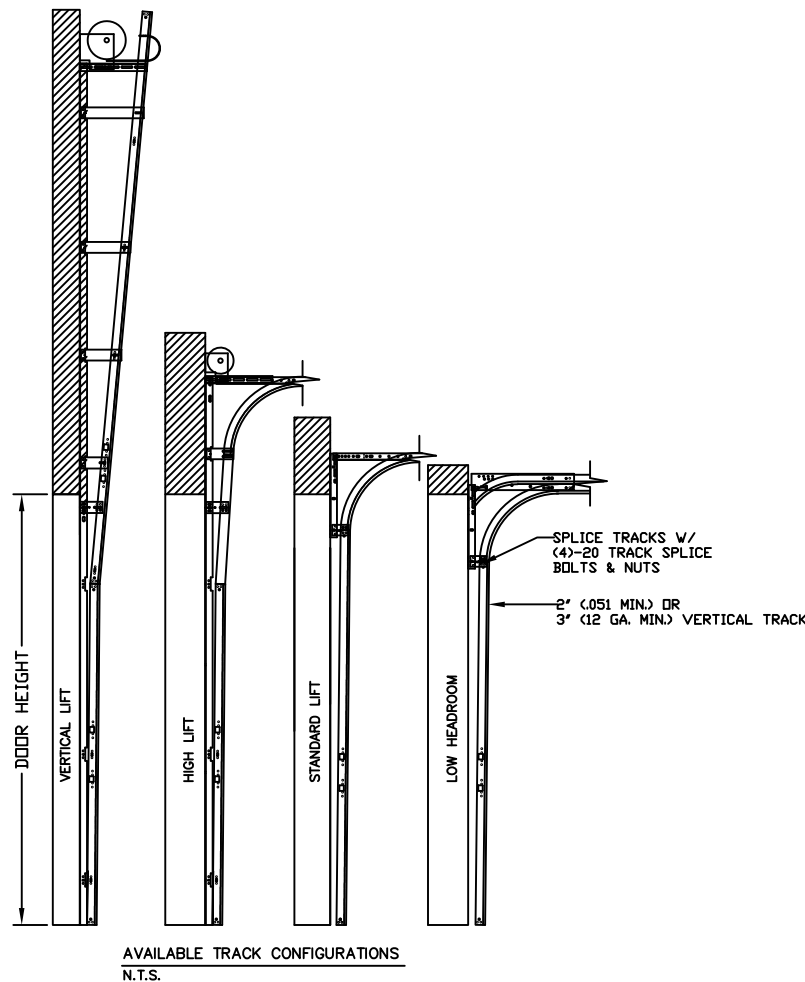
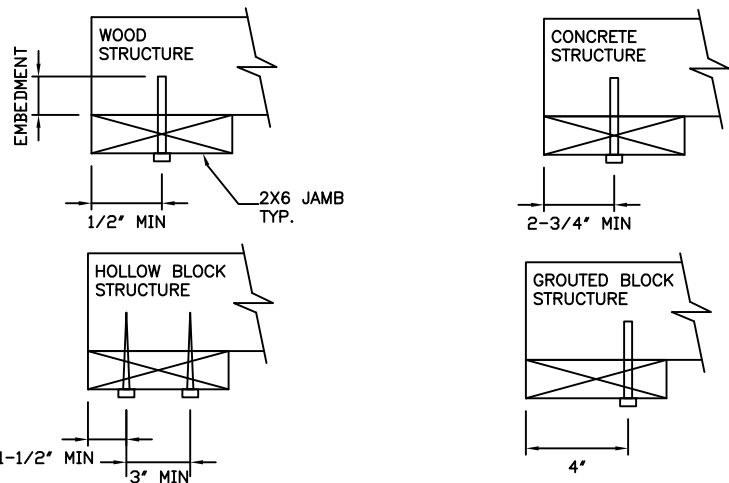
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS

THEN 24" O.C. (1 1/4" EMBEDMENT)

(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

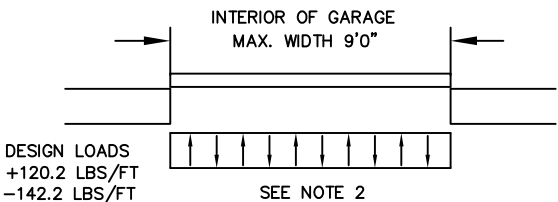
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



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:
+120.2 LBS/FT & -142.2 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR AND INTERIOR 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.



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9' x 14' DESIGN LOADS +26.7 PSF -31.6 PSF TEST LOADS +40.1 PSF -47.4 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 (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			
MODEL P500 AMARR OLYMPUS 500 MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE	DRAWN BY	RLR	DATE
B	CHECKED BY	RLR	DATE
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

TABLE 1

HEIGHT	TRACK ATTACHMENT								SPLICE
	A	B	C	D	E	F	G	H	
6' 0"	3.5"	21"	42"						64"
6' 6"	3.5"	21"	42"	63"					70"
7' 0"	3.5"	21"	42"	63"					76"
7' 6"	3.5"	21"	42"	63"					82"
8' 0"	3.5"	21"	42"	63"	84"				88"
8' 6"	3.5"	21"	42"	63"	84"				94"
9' 0"	3.5"	21"	42"	63"	84"				100"
9' 6"	3.5"	21"	42"	63"	84"				106"
10' 0"	3.5"	21"	42"	63"	84"	105"			112"
10' 6"	3.5"	21"	42"	63"	84"	105"			118"
11' 0"	3.5"	21"	42"	63"	84"	105"			124"
11' 6"	3.5"	21"	42"	63"	84"	105"	126"		130"
12' 0"	3.5"	21"	42"	63"	84"	105"	126"		136"
12' 6"	3.5"	21"	42"	63"	84"	105"	126"		142"
13' 0"	3.5"	21"	42"	63"	84"	105"	126"		148"
13' 6"	3.5"	21"	42"	63"	84"	105"	126"	147"	154"
14' 0"	3.5"	21"	42"	63"	84"	105"	126"	147"	160"

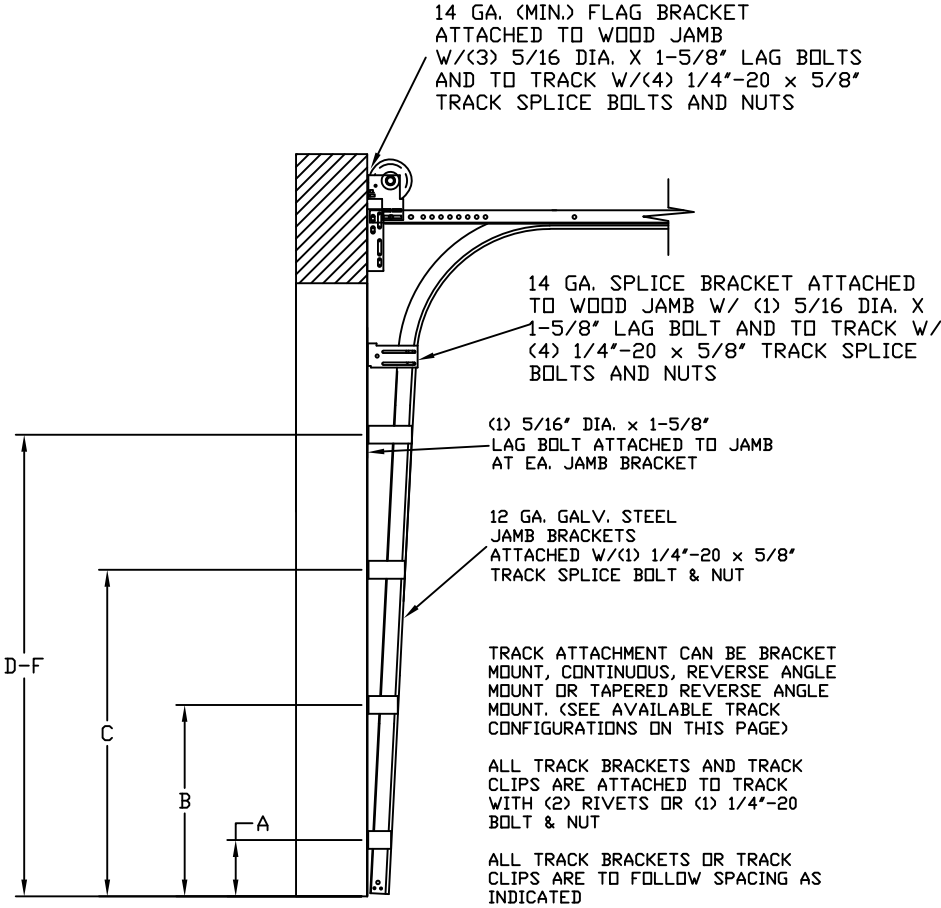
ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

TABLE 2

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	40.0	47.4
6' 0	Designers Choice	24.644	47.357	40.0	47.4
7' 0	Short	29.200	54.800	34.3	40.6
7' 0	Designers Choice	29.144	54.857	34.3	40.6
7' 2	Short	30.200	55.800	33.5	39.6
7' 2	Designers Choice	29.894	56.107	33.5	39.6
7' 4	Short	31.200	56.800	32.7	38.7
7' 4	Designers Choice	30.644	57.357	32.7	38.7
7' 6	Short	32.200	57.800	32.0	37.9
7' 6	Designers Choice	45.000		32.0	37.9
7' 8	Short	32.200	60.000	31.3	37.0
7' 8	Designers Choice	46.000		31.3	37.0
7' 10	Short	33.000	61.000	30.6	36.3
7' 10	Designers Choice	47.000		30.6	36.3
8' 0	Short	48.000		30.0	35.5
8' 0	Designers Choice	48.000		30.0	35.5
8' 2	Short	49.000		29.4	34.8
8' 2	Designers Choice	49.000		29.4	34.8
8' 4	Short	50.000		28.8	34.1
8' 4	Designers Choice	50.000		28.8	34.1
8' 6	Short	51.000		28.2	33.4
8' 6	Designers Choice	51.000		28.2	33.4
8' 8	Short	52.000		27.7	32.8
8' 8	Designers Choice	52.000		27.7	32.8
8' 10	Short	53.000		27.2	32.1
8' 10	Designers Choice	53.000		27.2	32.1
9' 0	Short	54.000		26.7	31.6
9' 0	Designers Choice	54.000		26.7	31.6

TABLE 3

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



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
SEE TABLE 1

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 9' x 14' DESIGN LOADS +26.7 PSF -31.6 PSF TEST LOADS +40.1 PSF -47.4 PSF	THOMAS L. SHELMERDINE LICENSE No. 48579 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	
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 4 OF 4