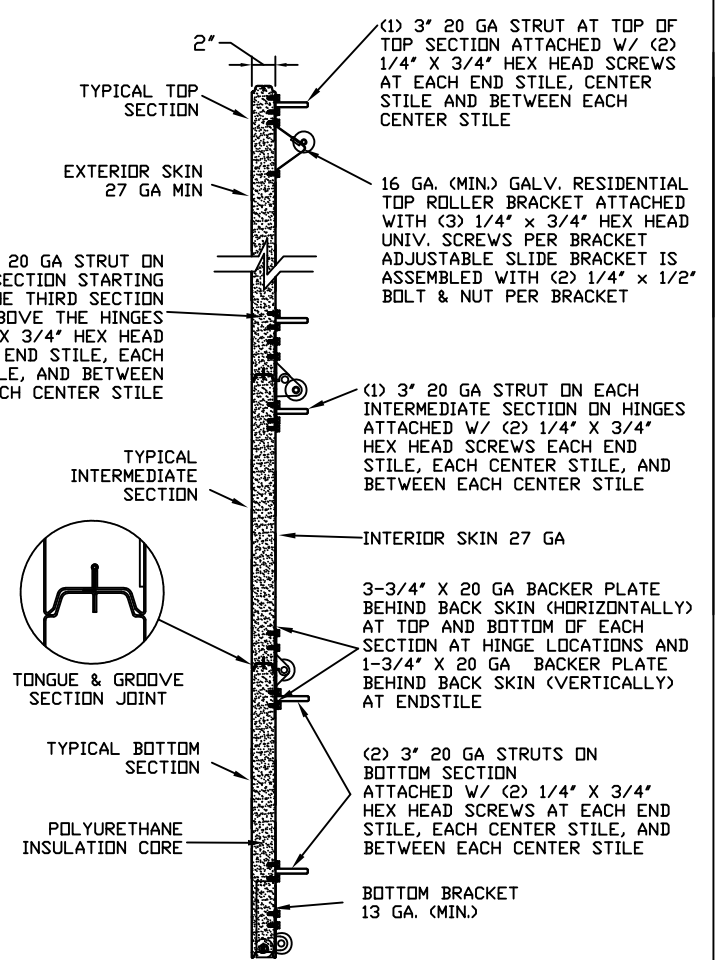
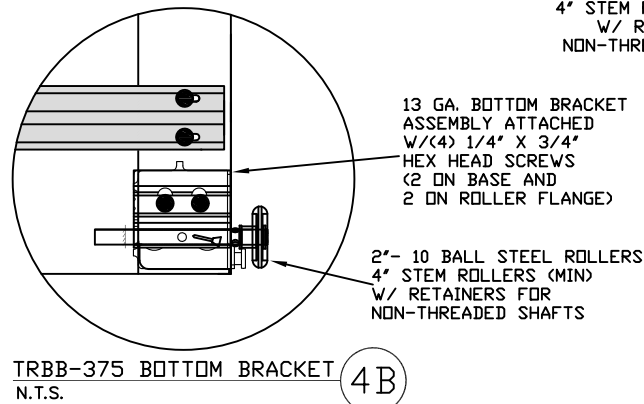




TYPICAL END HINGE
N.T.S.



INSIDE ELEVATION
N.T.S.

3' 20 GA STRUT ATTACHED W/
(2) 1/4" X 3/4" HEX HEAD
SCREWS AT EACH END, CENTER
STILE LOCATION, AND BETWEEN
EACH CENTER STILE

13 GA. BOTTOM BRACKET BASE
ATTACHED W/(2) 1/4" x 3/4"
HEX HEAD SCREWS

TRBB-375 BOTTOM BRACKET

N.T.S.

4A

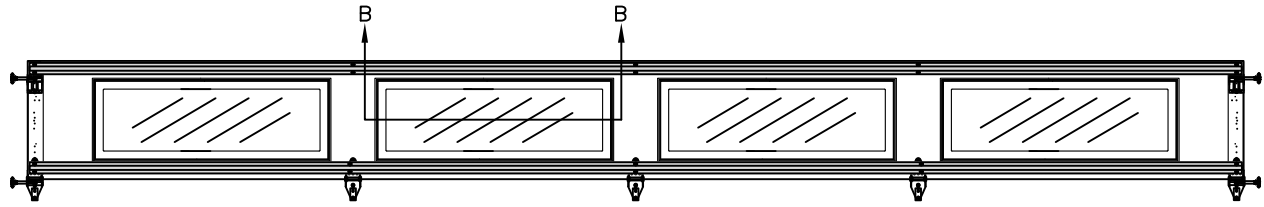
THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	142	129	123	117	112
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

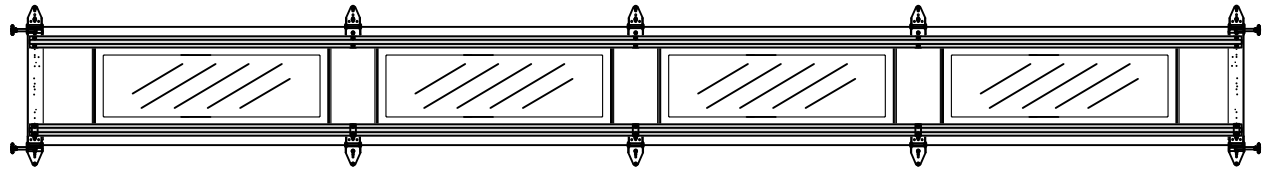
Amarr

OPTIONAL SHORT, LONG AND SLIMLINE PANEL GLAZING LAYOUTS

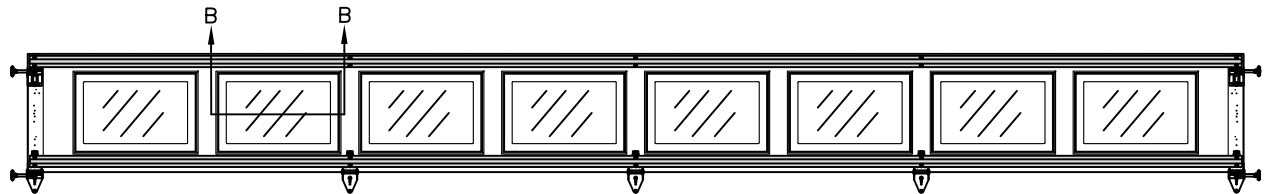
GLAZING MEETS ASTM E1300-04
SEE TABLE 4 PAGE 4 FOR STRUT REQUIREMENTS



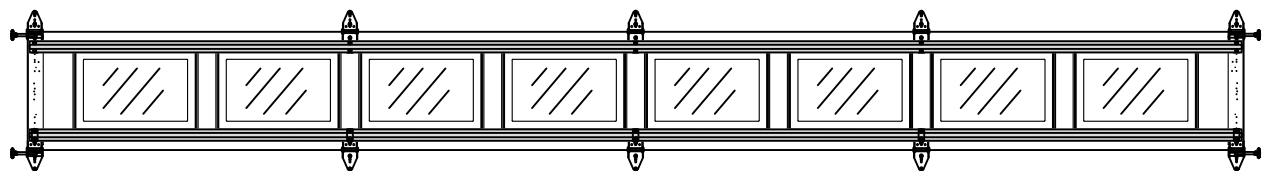
OPTIONAL LONG PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUT)
*OPTIONAL ADDITIONAL STRUT SHOWN ON TOP SECTION TO REMOVE OBSTRUCTION FROM GLASS



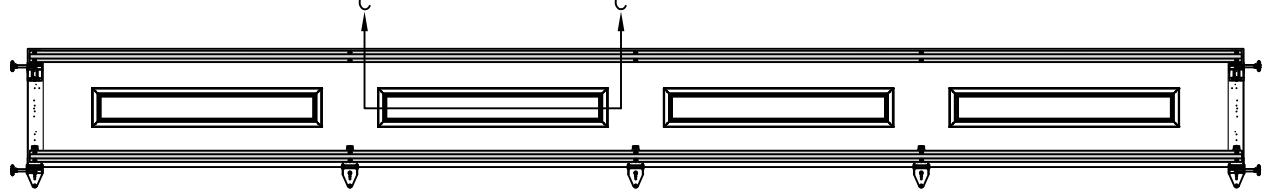
GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL LONG PANEL
N.T.S.



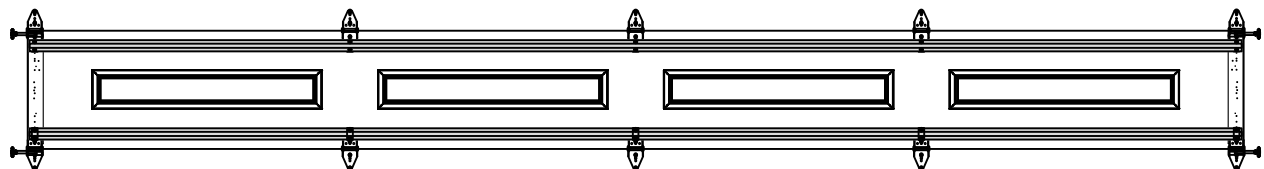
OPTIONAL SHORT PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUT)
*OPTIONAL ADDITIONAL STRUT SHOWN ON TOP SECTION TO REMOVE OBSTRUCTION FROM GLASS



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



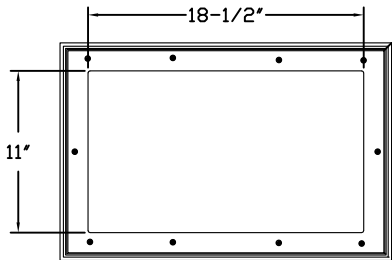
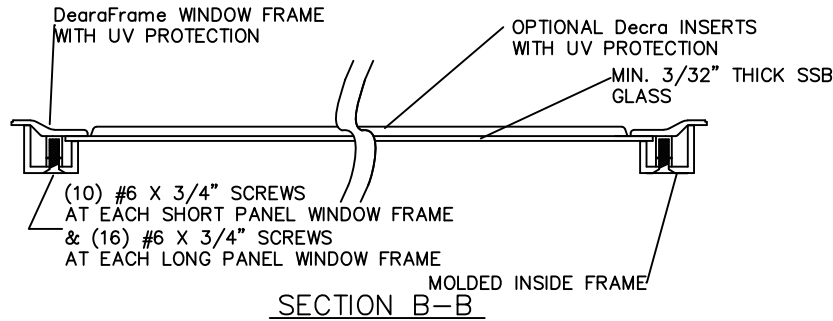
OPTIONAL SLIMLINE PANEL TOP GLAZED SECTION (STRUT AND STILE LAYOUT)
*OPTIONAL ADDITIONAL STRUT SHOWN ON TOP SECTION TO REMOVE OBSTRUCTION FROM GLASS



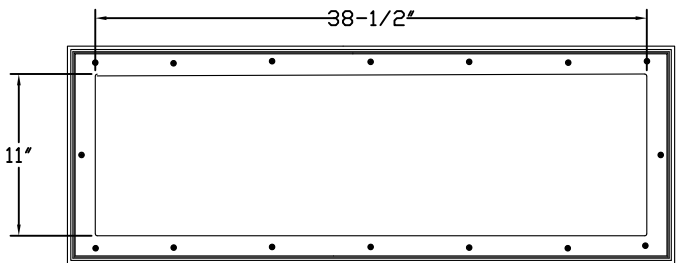
GLAZED INTERMEDIATE SECTION W/ RESIDENTIAL SLIMLINE PANEL
N.T.S.

GLAZING OPTION CROSS SECTION

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



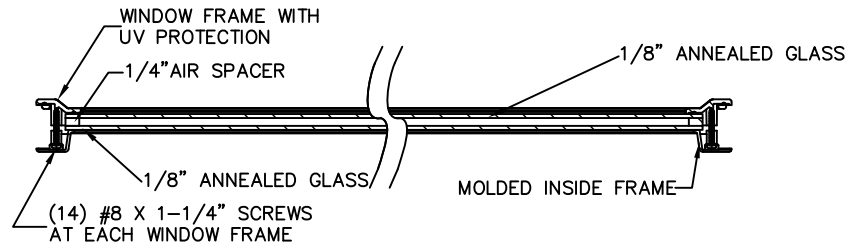
SHORT PANEL GLAZING FASTENER DETAIL
N.T.S.



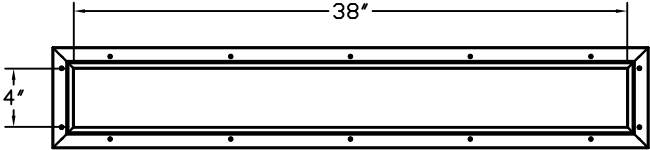
LONG PANEL GLAZING FASTENER DETAIL
N.T.S.

GLAZING OPTION CROSS SECTION

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



SECTION C-C



SLIMLINE PANEL GLAZING FASTENER DETAIL
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'
DESIGN LOADS
+18.2 PSF
-20.6 PSF
TEST LOADS
(1.5 x DESIGN LOADS)
+27.3 PSF
-30.9 PSF



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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

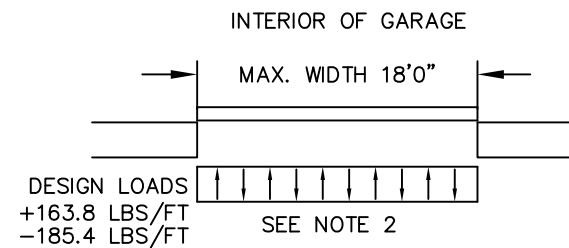
FL

Amarr

MODEL P500 AMARR OLYMPUS 500
MODEL D500 AMARR DESIGNERS CHOICE DC500

SIZE	DRAWN BY	RLR	DATE	08/01/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	08/01/16	IRC-P518-110-15
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 4

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:
+163.8 LBS/FT & -185.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR AND INTERIOR SKIN, ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 14'0" HIGH ALTERNATE BETWEEN (1) & (2) 3" 20GA STRUTS STARTING WITH (2) 3" 20GA STRUTS ON THE BOTTOM SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



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)

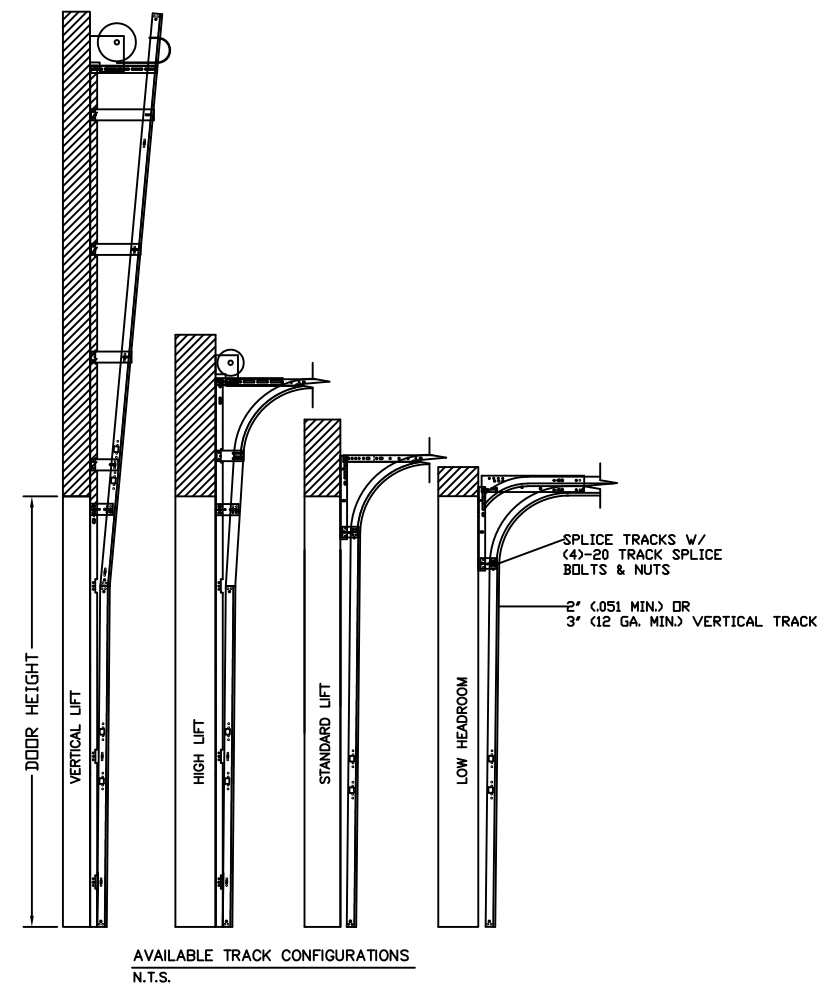
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 16 O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

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

The diagrams illustrate four methods for attaching a 2x6 vertical jamb to different building materials:

- WOOD STRUCTURE:** Shows a 2x6 jamb attached to a wood structure using lag screws. The attachment is shown at the end of the jamb (6" from end) and at intermediate points (24" O.C.). The embedment of the lag screw into the wood is indicated as 1 1/2" MIN.
- CONCRETE STRUCTURE:** Shows a 2x6 jamb attached to a concrete structure using Hilti Kwik Bolt, Hilti Sleeve Anchor, or ITW/Ramset Redhead fasteners. The attachment is shown at the end of the jamb (6" from end) and at intermediate points (24" O.C.). The embedment of the fastener into the concrete is indicated as 2-3/4" MIN.
- HOLLOW BLOCK STRUCTURE:** Shows a 2x6 jamb attached to a hollow block structure using Simpson Titen screws or Hilti Kwik-Con II+ screws. The attachment is shown at the end of the jamb (6" from end) and at intermediate points (16" O.C.). The embedment of the fastener into the block is indicated as 1-1/2" MIN.
- GROUTED BLOCK STRUCTURE:** Shows a 2x6 jamb attached to a grouted block structure using Hilti Sleeve Anchor fasteners. The attachment is shown at the end of the jamb (6" from end) and at intermediate points (24" O.C.). The embedment of the fastener into the grout is indicated as 4" MIN.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14' DESIGN LOADS +18.2 PSF -20.6 PSF TEST LOADS (1.5 x DESIGN LOADS) +27.3 PSF -30.9 PSF	 See Digital Signature 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.
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MODEL P500 AMARR OLYMPUS 500 MODEL D500 AMARR DESIGNERS CHOICE DC500			
SIZE B	DRAWN BY	RLR	DATE 08/01/16
	CHECKED BY	RLR	DATE 08/01/16
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IRC-P518-110-15
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

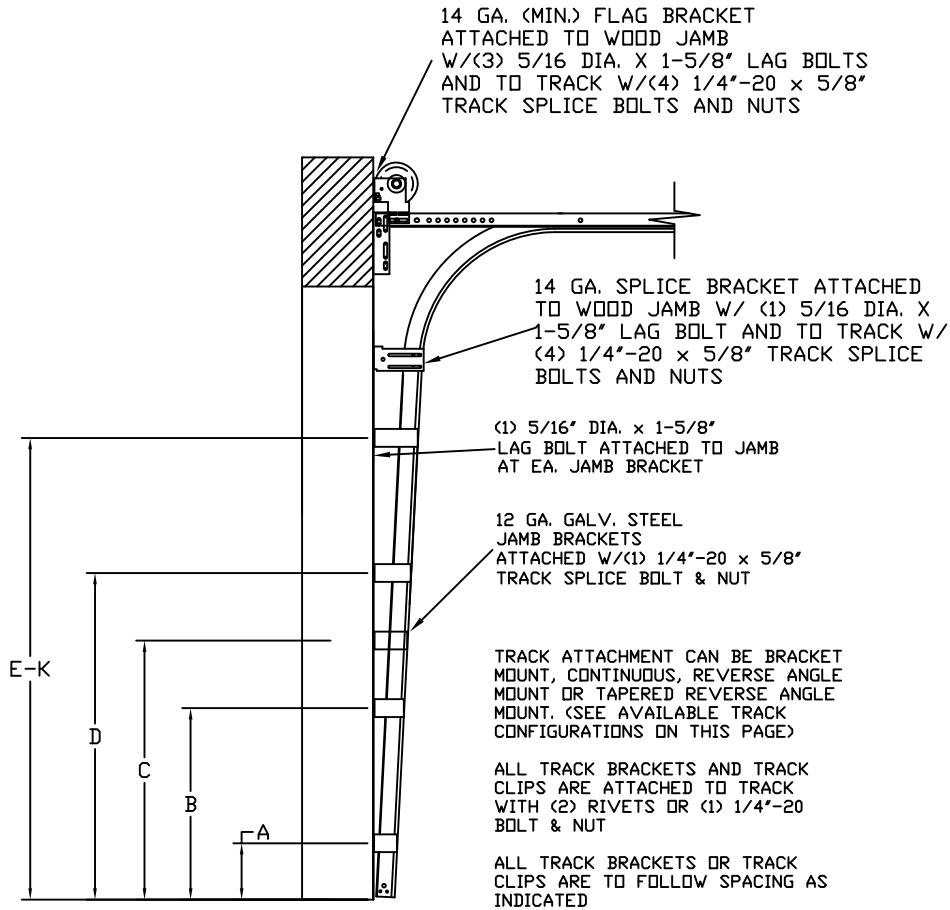
TABLE 1

DOOR HEIGHT		TRACK ATTACHMENT											TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	
7'	0"	10.0"	34"	46"	58"								76"
7'	6"	10.0"	34"	46"	58"								82"
8'	0"	10.0"	34"	46"	58"	70"							88"
9'	0"	10.0"	34"	46"	58"	70"	82"						100"
9'	6"	10.0"	34"	46"	58"	70"	82"						106"
10'	0"	10.0"	34"	46"	58"	70"	82"	94"					112"
11'	0"	10.0"	34"	46"	58"	70"	82"	94"	106"				124"
12'	0"	10.0"	34"	46"	58"	70"	82"	94"	106"	118"			136"
13'	0"	10.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"		148"
14'	0"	10.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	160"

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

TABLE 2

Section	Panel Type	Center Stile Locations (Measured from Left Edge)			Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
16' 2	Short	50.27	97.00	143.73	20.2	22.9
16' 2	Designers Choice	48.75	97.00	145.25	20.2	22.9
16' 4	Short	51.27	98.00	144.73	20.0	22.7
16' 4	Designers Choice	49.08	98.00	146.92	20.0	22.7
16' 6	Short	52.27	99.00	145.73	19.8	22.4
16' 6	Designers Choice	49.42	99.00	148.59	19.8	22.4
16' 8	Short	51.34	100.00	148.66	19.6	22.2
16' 8	Designers Choice	49.92	100.00	150.09	19.6	22.2
16' 10	Short	51.50	101.00	150.50	19.4	22.0
16' 10	Designers Choice	50.42	101.00	151.59	19.4	22.0
17' 0	Short	53.34	102.00	150.66	19.2	21.8
17' 0	Designers Choice	50.92	102.00	153.09	19.2	21.8
17' 2	Short	53.00	103.00	153.00	19.0	21.6
17' 2	Designers Choice	51.42	103.00	154.59	19.0	21.6
17' 4	Short	54.00	104.00	154.00	18.9	21.3
17' 4	Designers Choice	51.92	104.00	156.09	18.9	21.3
17' 6	Short	55.00	105.00	155.00	18.7	21.1
17' 6	Designers Choice	52.42	105.00	157.59	18.7	21.1
17' 8	Short	54.80	106.00	157.20	18.5	20.9
17' 8	Designers Choice	52.92	106.00	159.09	18.5	20.9
17' 10	Short	55.80	107.00	158.20	18.3	20.7
17' 10	Designers Choice	53.42	107.00	160.59	18.3	20.7
18' 0	Short	57.25	108.00	158.75	18.2	20.6
18' 0	Designers Choice	53.92	108.00	162.09	18.2	20.6



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

TABLE 3

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

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 18' x 14' DESIGN LOADS +18.2 PSF -20.6 PSF TEST LOADS (1.5 x DESIGN LOADS) +27.3 PSF -30.9 PSF THOMAS L. SHELDERDINE 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			
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 4 OF 4