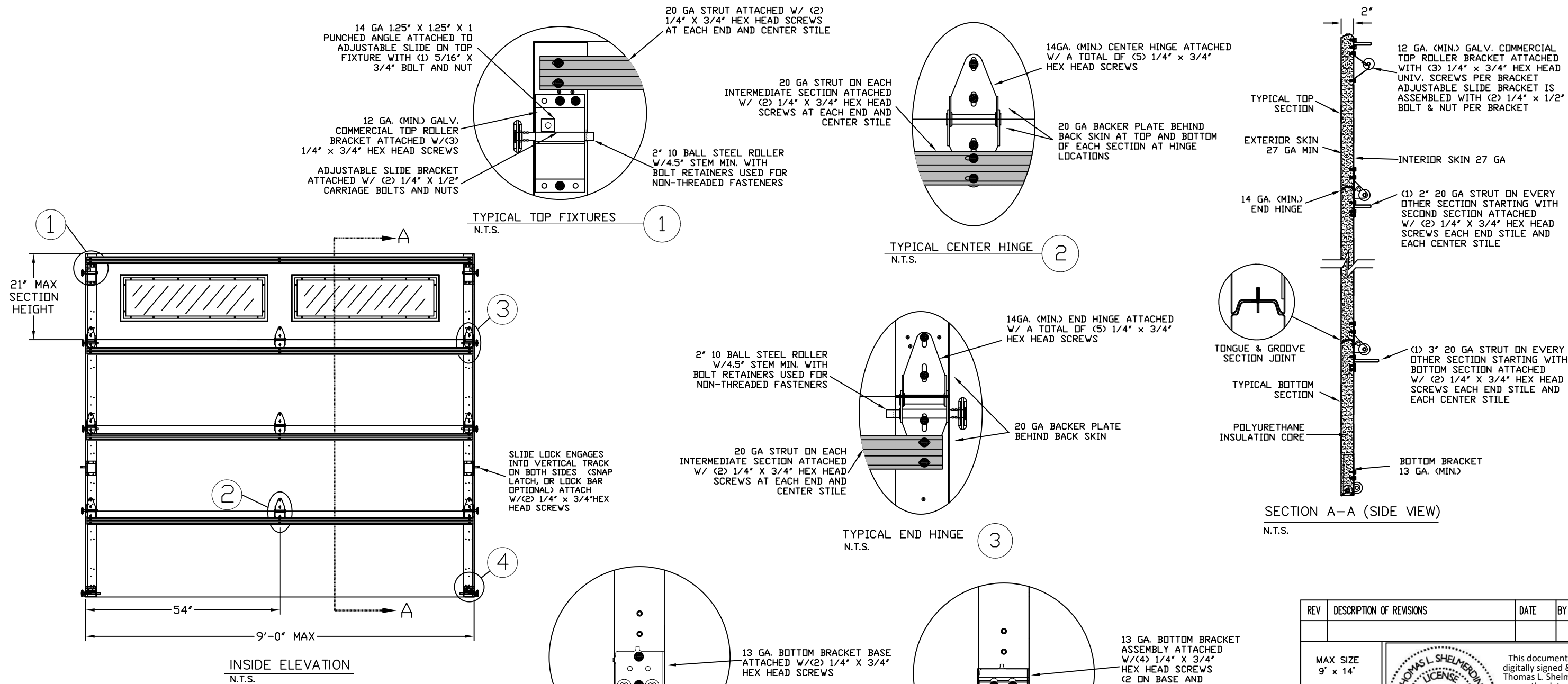
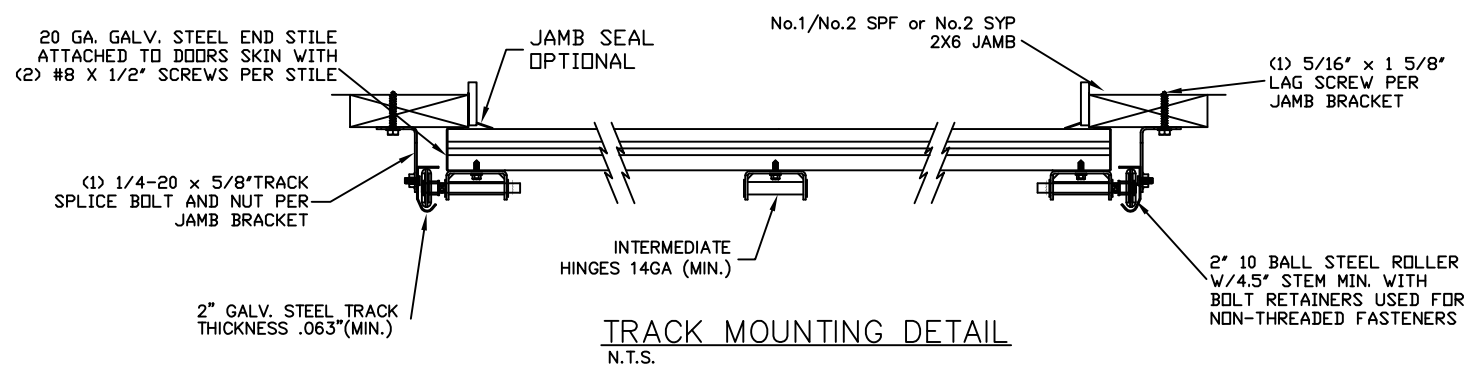




LARGE MISSILE IMPACT RESISTANT



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1996, F588 AND DASMA 108, 115. 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)	200	182	173	165	158
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
+38.0 PSF
-44.9 PSF

TEST LOADS
+57.0 PSF
-67.4 PSF

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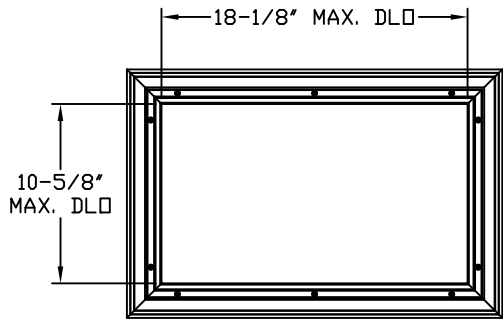
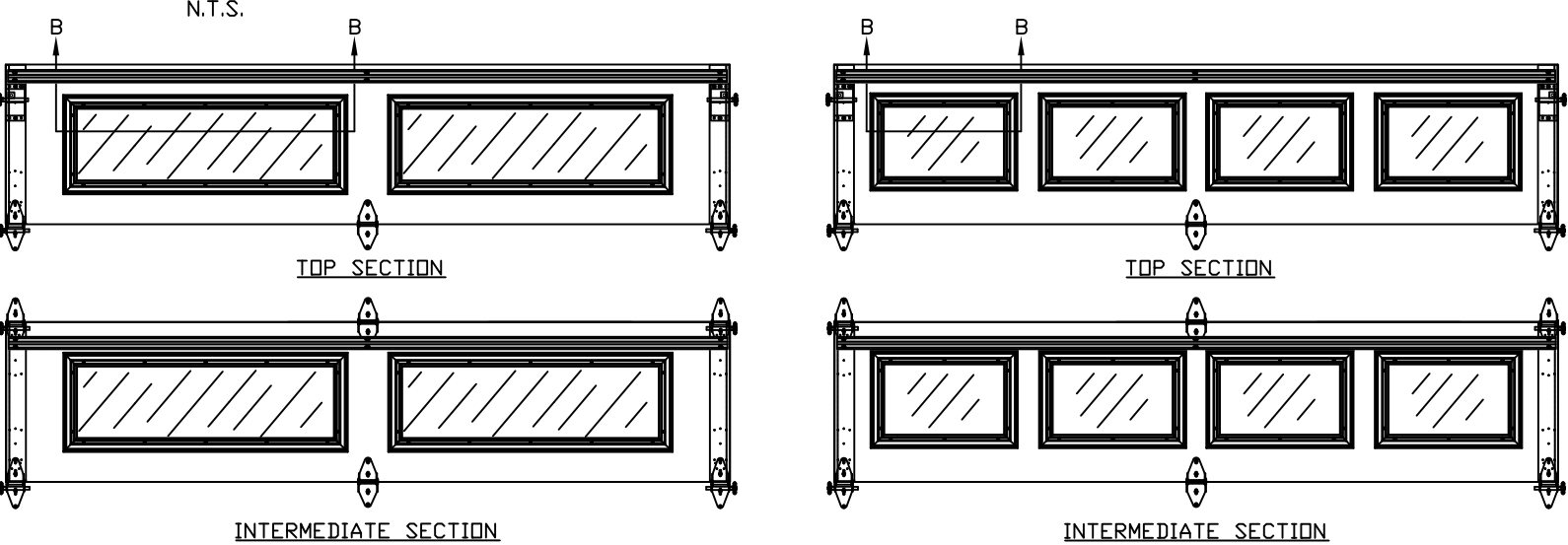
MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

SIZE B	DRAWN BY RLR	DATE 12/22/15	DRAWING NUMBER IRC-C509-155-15-I
	CHECKED BY RLR	DATE 12/23/15	

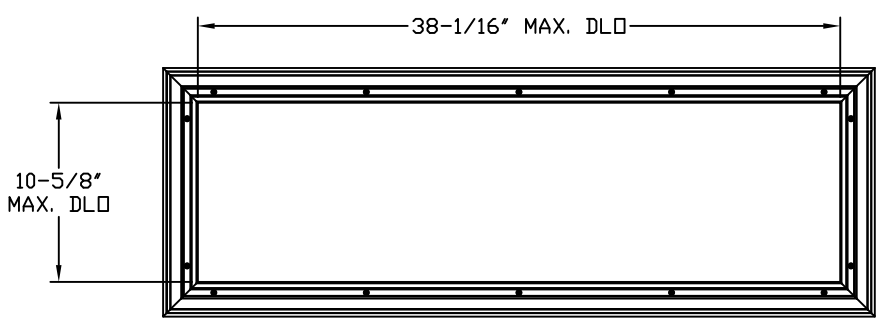
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SHEET 1 OF 3

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS



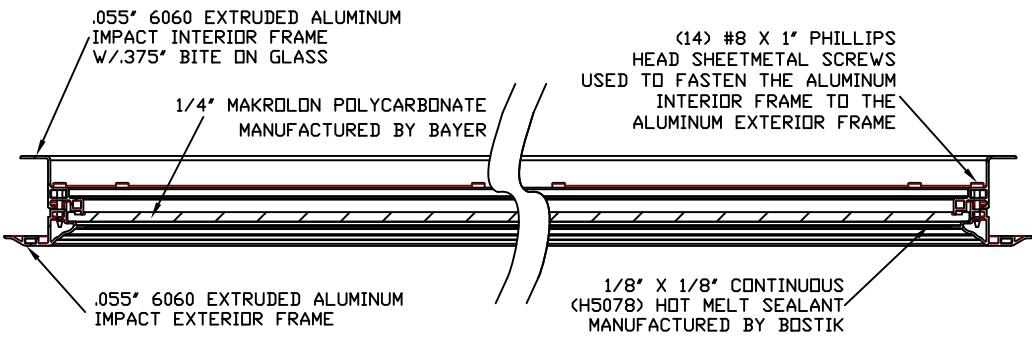
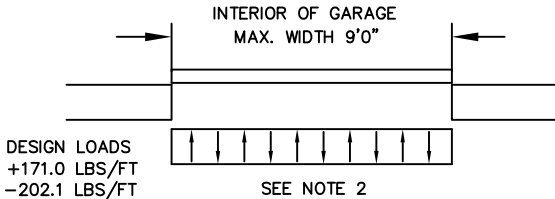
SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



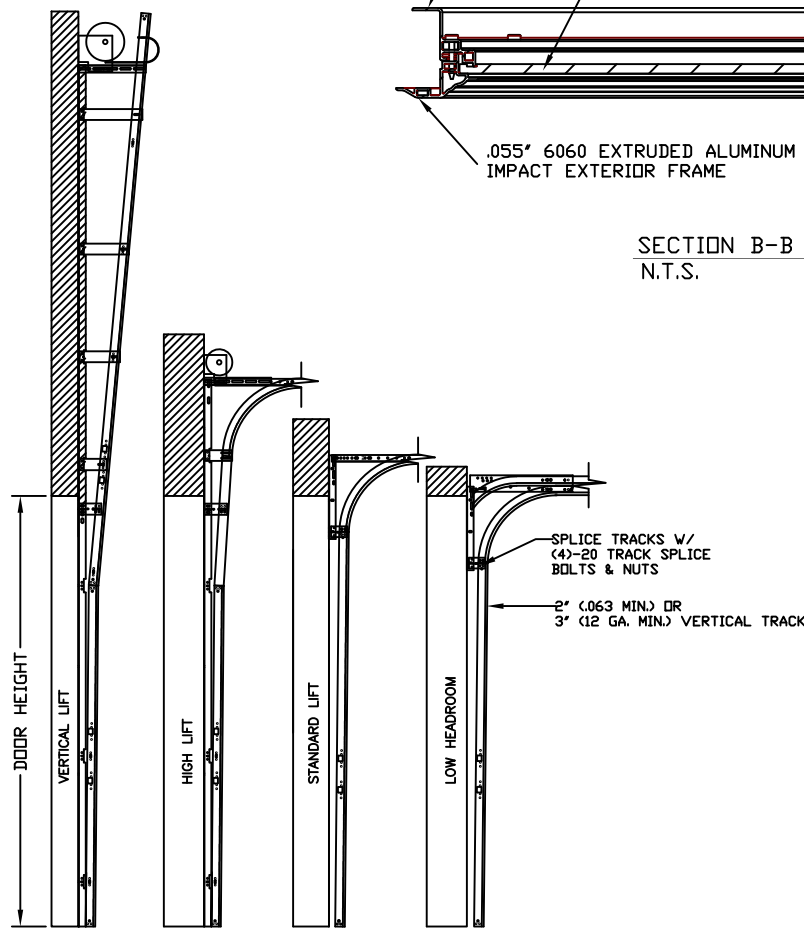
LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.

SPECIFICATIONS AND NOTES

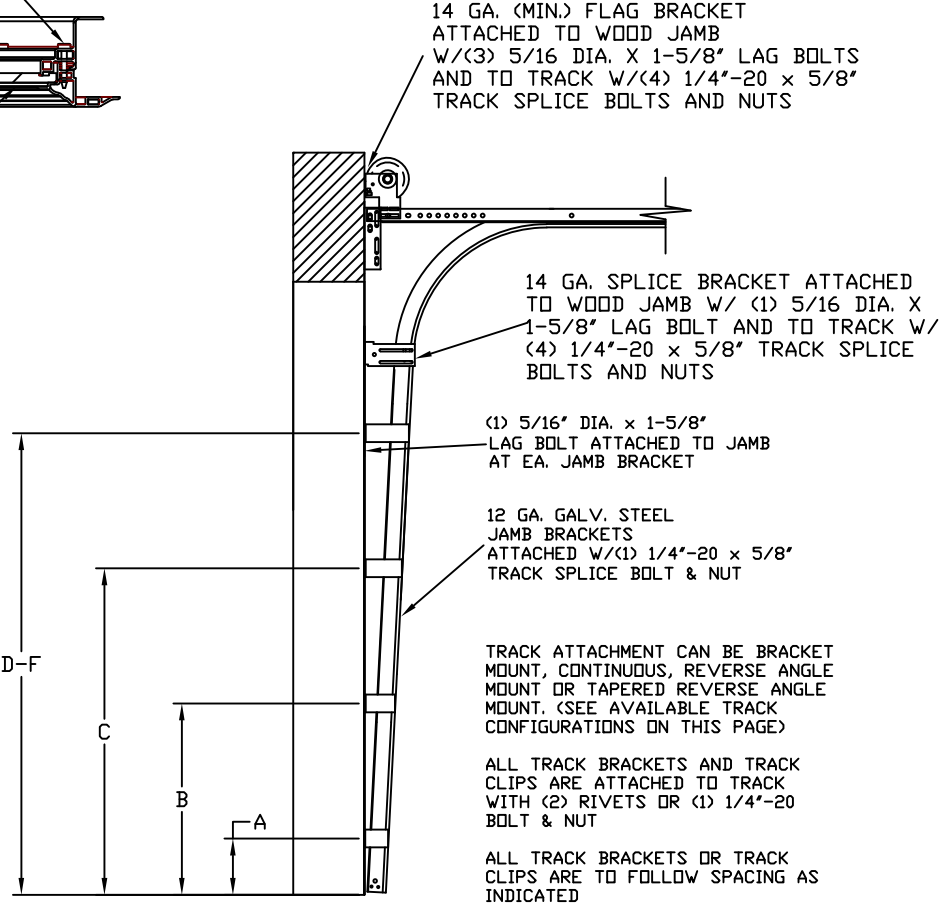
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +171.0 LBS/FT & -202.1 LBS/FT
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. DOORS UP TO 14'0" HIGH USE (1) 3" 20GA STRUT ON EVERY OTHER SECTION STARTING ON THE BOTTOM SECTION & (1) 2" 20GA STRUT ON EVERY OTHER SECTION STARTING WITH THE SECOND 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.



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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.



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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+38.0 PSF
-44.9 PSF

TEST LOADS
+57.0 PSF
-67.4 PSF

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.
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Amarr

**MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200**

SIZE	DRAWN BY	RLR	DATE	12/22/15	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/23/15	IRC-C509-155-15-I

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

SHEET 2 OF 3

TABLE 1

DOOR HEIGHT		TRACK ATTACHMENT						TYPICAL SPLICE
		A	B	C	D	E	F	
7'	0"	10"	34"	58"				76"
7'	6"	10"	34"	58"				82"
8'	0"	10"	34"	58"				88"
9'	0"	10"	34"	58"	82"			100"
9'	6"	10"	34"	58"	82"			106"
10'	0"	10"	34"	58"	82"			112"
11'	0"	10"	34"	58"	82"	106"		124"
12'	0"	10"	34"	58"	82"	106"		136"
13'	0"	10"	34"	58"	82"	106"	130"	148"
14'	0"	10"	34"	58"	82"	106"	130"	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	
Width (ft)			1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'0		Short	24.406	47.594	57.0	67.3
7'0		Short	29.200	54.800	48.8	57.7
7'2		Short	30.200	55.800	47.7	56.3
7'4		Short	31.200	56.800	46.6	55.1
7'6		Short	32.200	57.800	45.6	53.8
7'8		Short	32.200	60.000	44.6	52.7
7'10		Short	33.000	61.000	43.6	51.5
8'0		Short	48.000		42.7	50.5
8'2		Short	49.000		41.8	49.4
8'4		Short	50.000		41.0	48.4
8'6		Short	51.000		40.2	47.5
8'8		Short	52.000		39.4	46.6
8'10		Short	53.000		38.7	45.7
9'0		Short	54.000		38.0	44.9

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 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

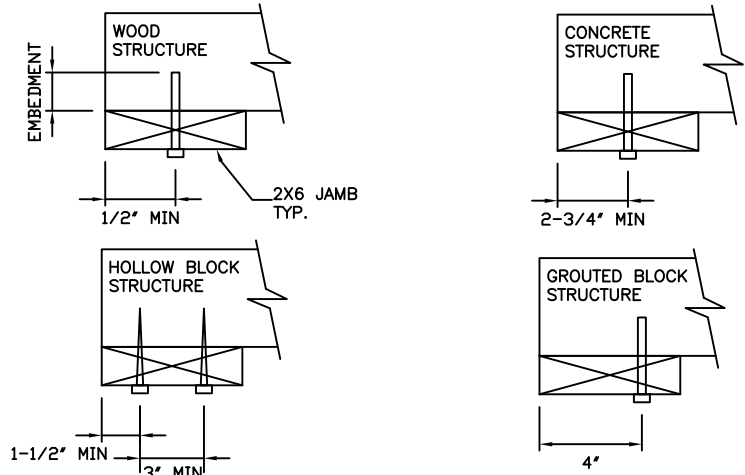


TABLE 3

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

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MAX SIZE
9' x 14'

DESIGN LOADS
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-44.9 PSF

TEST LOADS
+57.0 PSF
-67.4 PSF

See Digital Signature

THOMAS L. SHELDERDINE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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SHEET 3 OF 3