

LARGE MISSILE IMPACT RESISTANT

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996, F588 AND DASMA 108, 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE, AND I=1.0):

WIND SPEED (MPH)	155	140	133	127	122
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14'

DESIGN LOADS +37.0 PSF -40.6 PSF

TEST LOADS (1.5 x DESIGN LOADS) +55.5 PSF -60.9 PSF

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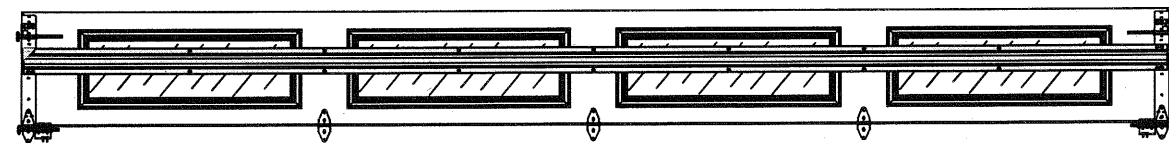
MODEL C500 (CLAMHELL) AMARR OLYMPUS

SIZE	DRAWN BY	RLR	DATE	01/19/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	01/19/16	IRC-C518-155-26-1

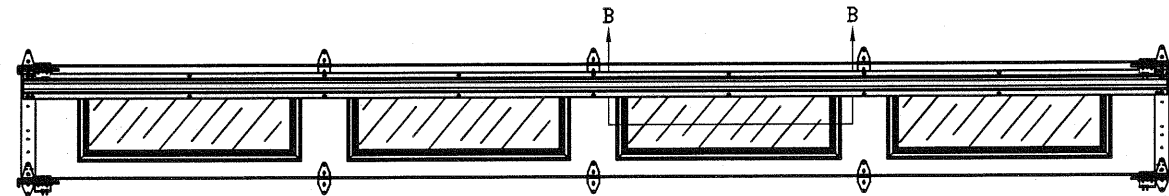
SHEET 1 OF 3

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

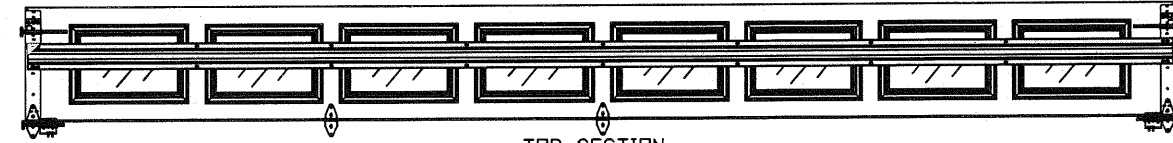
N.T.S.



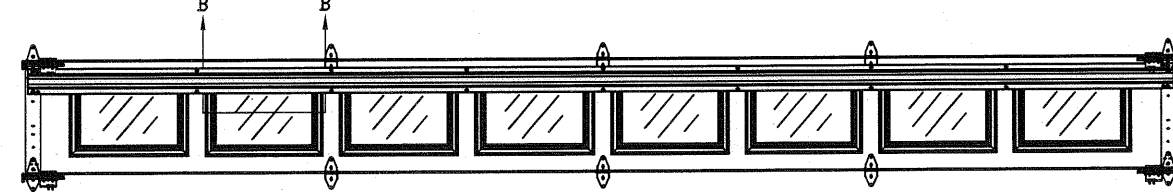
TOP SECTION



INTERMEDIATE SECTION



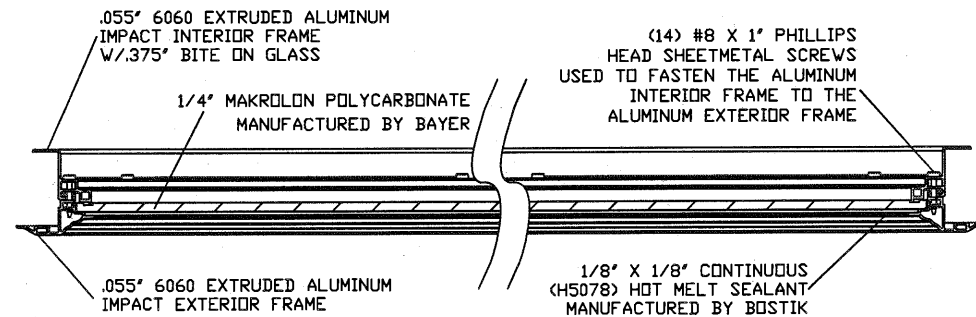
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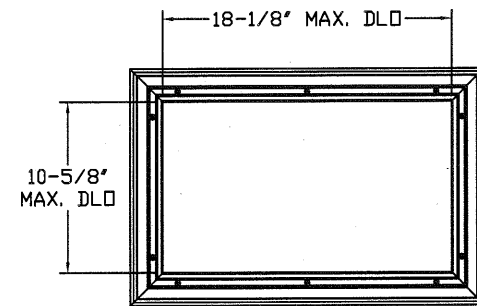
INTERMEDIATE SECTION

SPECIFICATIONS AND NOTES

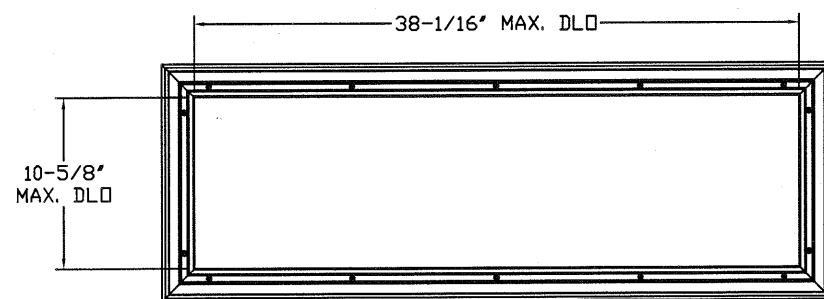
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +333.0 LBS/FT & -365.4 LBS/FT
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 USE (1) 5.5" 18GA R-TRUSS PER SECTION AND (1) 3" STRUT 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.



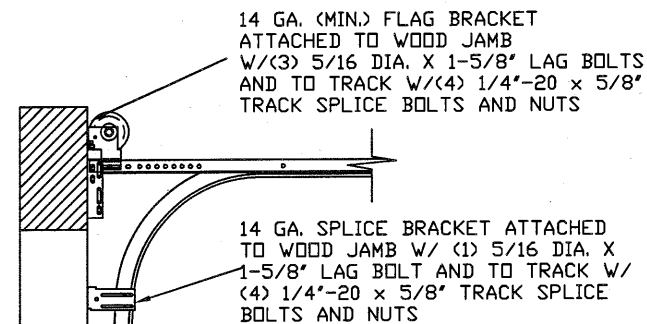
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



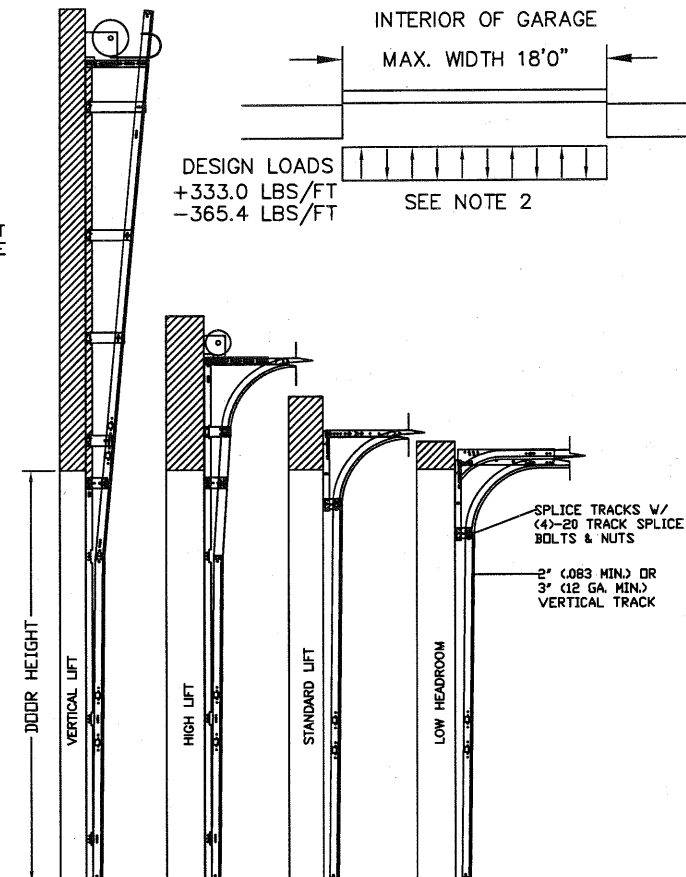
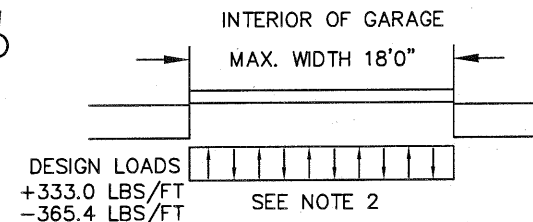
SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



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



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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18' x 14'

DESIGN LOADS
+37.0 PSF
-40.6 PSF

TEST LOADS (1.5 x DESIGN LOADS)
+55.5 PSF
-60.9 PSF

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AMARR OLYMPUS**

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SHEET 2 OF 3

TABLE 1

HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 0"	3.5"	10"	22"	34"	46"	58"									64"
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7' 0"	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

ALL TRACK ATTACHMENT SPACING +/- 3/4" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 2

Section	Panel Type	Center Stile Locations (Measured from Left Edge)			
		Width (ft)	1st (in)	2nd (in)	3rd (in)
16' 2"	Short		50.27	97.00	143.73
16' 2"	Long		51.17	97.00	142.83
16' 4"	Short		51.27	98.00	144.73
16' 4"	Long		52.17	98.00	143.83
16' 6"	Short		52.27	99.00	145.73
16' 6"	Long		51.34	99.00	146.66
16' 8"	Short		51.34	100.00	148.66
16' 8"	Long		52.20	100.00	147.80
16' 10"	Short		51.50	101.00	150.50
16' 10"	Long		53.20	101.00	148.80
17' 0"	Short		53.34	102.00	150.66
17' 0"	Long		54.20	102.00	149.80
17' 2"	Short		53.00	103.00	153.00
17' 2"	Long		55.20	103.00	150.80
17' 4"	Short		54.00	104.00	154.00
17' 4"	Long		56.20	104.00	151.80
17' 6"	Short		55.00	105.00	155.00
17' 6"	Long		57.20	105.00	152.80
17' 8"	Short		54.80	106.00	157.20
17' 8"	Long		55.80	106.00	156.20
17' 10"	Short		55.80	107.00	158.20
17' 10"	Long		56.25	107.00	157.75
18' 0"	Short		57.25	108.00	158.75
18' 0"	Long		57.80	108.00	158.20

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 14" 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 12" 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 8" 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 8" 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 14" 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 the attachment of a 2x6 wood jamb to four different structural materials. Each diagram shows the jamb with two lag screws or bolts. Dimensions for embedment and spacing are provided for each case: Wood Structure (1/2" min embedment), Concrete Structure (2-3/4" min embedment), Hollow Block Structure (1-1/2" min embedment, 3" min spacing), and Grouted Block Structure (4" min spacing).

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SHEET 3 OF 3