

# LARGE MISSILE IMPACT RESISTANCE

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E1886, E1996, F588 AND DASHA 108, 115. 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)	182	165	157	150	144
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  
+29.4 PSF  
-33.3 PSF

TEST LOADS  
(1.5 x DESIGN LOADS)  
+44.1 PSF  
-50.0 PSF

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Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS  
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MODEL #500 AMARR CLASSICA 1000, 2000

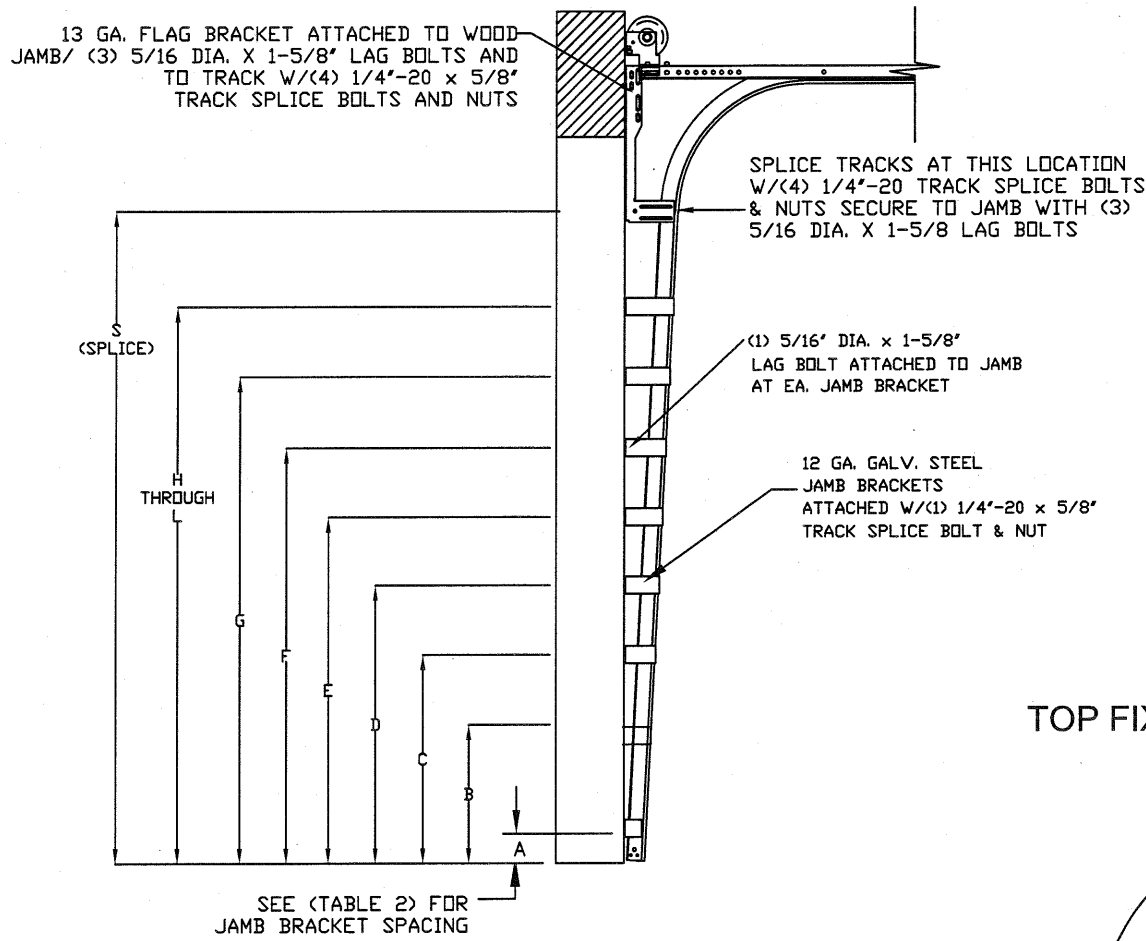
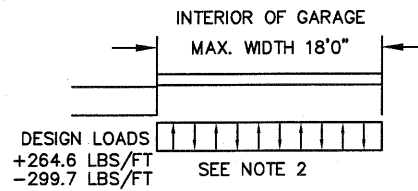
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SHEET 1 OF 3

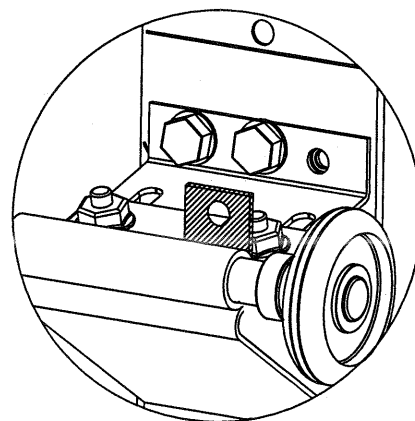
**SPECIFICATIONS AND NOTES**

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 JAMB RECEIVES MAXIMUM DESIGN LOADS OF: +264.6 LBS/FT & -299.7 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 8'0" HIGH CONSIST OF (3) SECTIONS AS SHOWN. USE (2) 5.5' R-TRUSSES PER 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.
7. DOOR IS MANUFACTURED AND TESTED IN ACCORDANCE WITH THE 2018 IRC/IBC

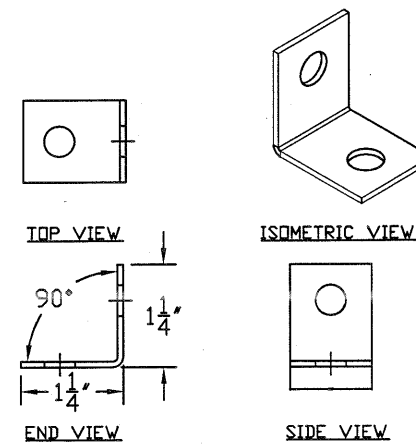


SEE (TABLE 2) FOR JAMB BRACKET SPACING  
TRACK CONFIGURATION FOR 8' TALL DOORS  
N.T.S.

**TOP FIXTURE REINFORCEMENT ILLUSTRATION**



**TOP FIXTURE ADDER PIECE**



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX. SIZE 18' x 14'

DESIGN LOADS +29.4 PSF -33.3 PSF

TEST LOADS (1.5 x DESIGN LOADS) +44.1 PSF -50.0 PSF

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**MODEL #500 AMARR CLASSICA 1000, 2000**

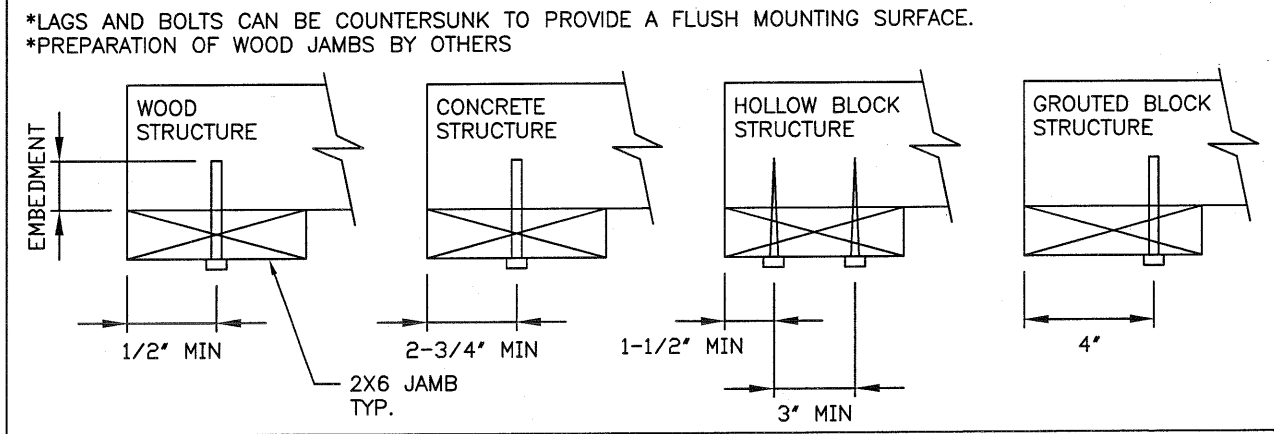
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SHEET 2 OF 3

**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 18" 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 16" 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 18" 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

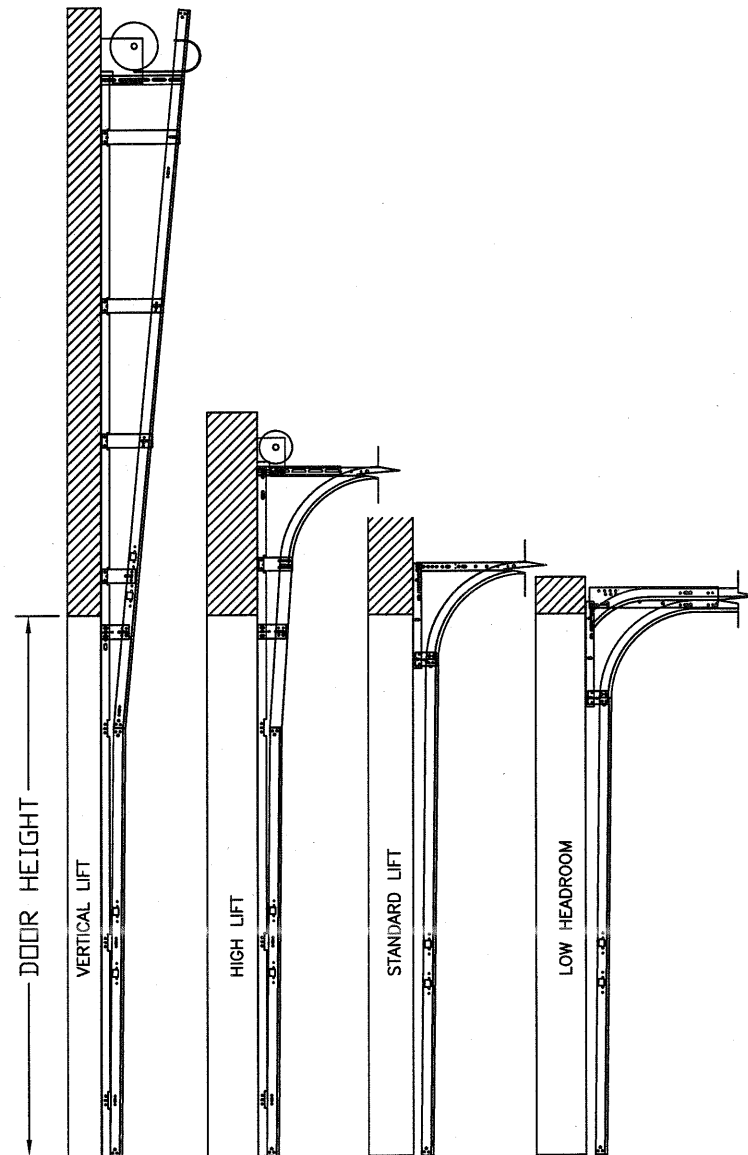
TABLE 1

Section	Center Stile Locations (Measured from Left Edge)						
	Width (ft)	1st (in)	2st (in)	3rd (in)	4th (in)	5th (in)	6th (in)
16' 2	24.63	48.75	72.880	97.00	121.13	145.25	169.38
16' 4	24.63	49.08	73.540	98.00	122.46	146.92	171.38
16' 6	24.63	49.42	74.210	99.00	123.79	148.59	173.38
16' 8	24.88	49.92	74.960	100.00	125.04	150.09	175.13
16' 10	25.13	50.42	75.710	101.00	126.29	151.59	176.88
17' 0	25.38	50.92	76.460	102.00	127.54	153.09	178.63
17' 2	25.63	51.42	77.210	103.00	128.79	154.59	180.38
17' 4	25.88	51.92	77.960	104.00	130.04	156.09	182.13
17' 6	26.13	52.42	78.710	105.00	131.29	157.59	183.88
17' 8	26.38	52.92	79.460	106.00	132.54	159.09	185.63
17' 10	26.63	53.42	80.210	107.00	133.79	160.59	187.38
18' 0	26.88	53.92	80.960	108.00	135.04	162.09	189.13

TABLE 2

DOOR HEIGHT	TRACK ATTACHMENT											
	A	B	C	D	E	F	G	H	I	J	K	L
7' 0"	3.5"	10"	22"	34"	46"	58"						
7' 6"	3.5"	10"	22"	34"	46"	58"	70"					
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"				
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"			
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"			
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"			
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"		
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"		
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"

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



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

TABLE 3

SECTION	STRUT SIZE
TOP	5.5"
	5.5"
7TH	5.5"
	5.5"
6TH	5.5"
	5.5"
5TH	5.5"
	5.5"
4TH	5.5"
	5.5"
3RD	5.5"
	5.5"
2ND	5.5"
	5.5"
BOTTOM	5.5"
	5.5"

REV	DESCRIPTION OF REVISIONS	DATE	BY
<p>MAX SIZE 18' x 14'</p> <p>DESIGN LOADS +29.4 PSF -33.3 PSF</p> <p>TEST LOADS (1.5 x DESIGN LOADS) +44.1 PSF -50.0 PSF</p>			
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