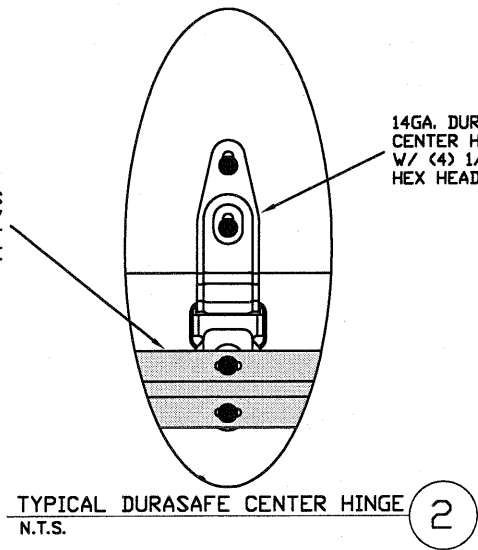
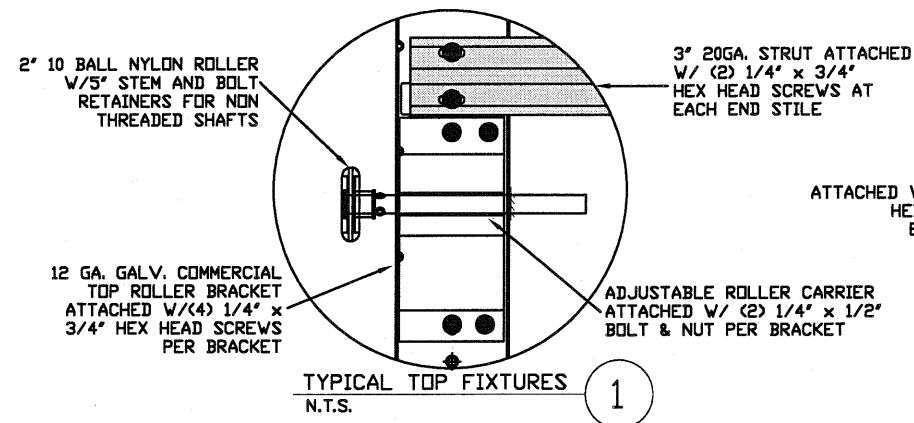
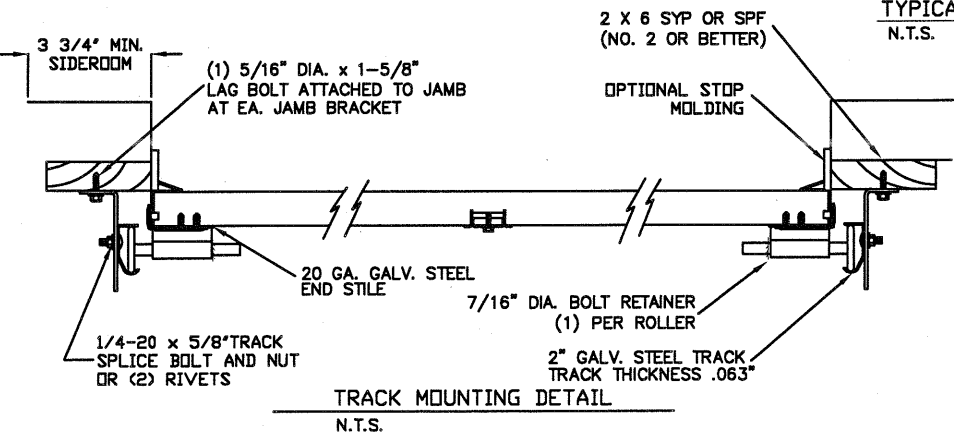
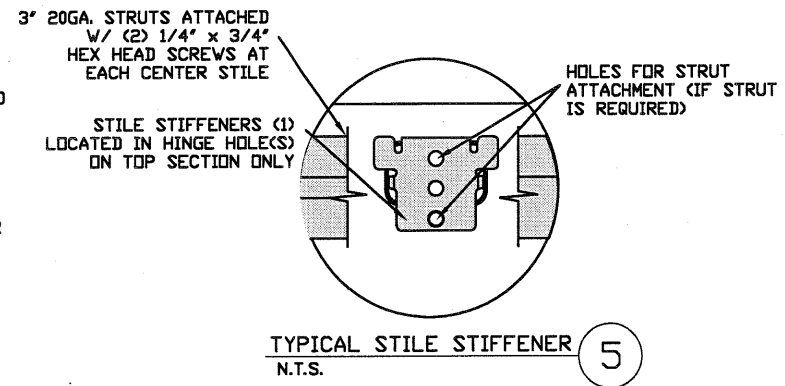
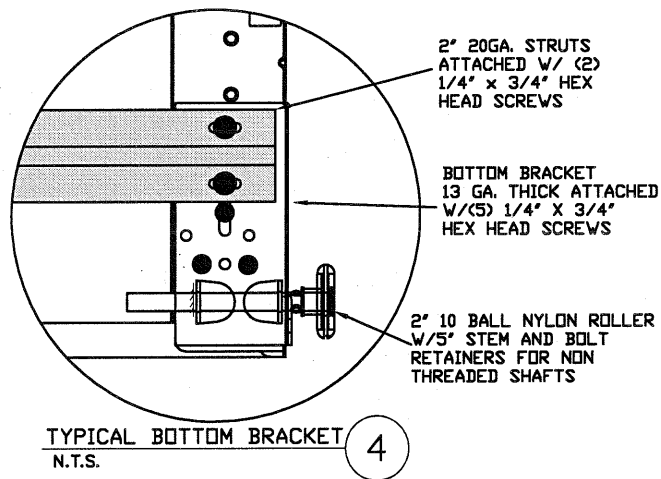
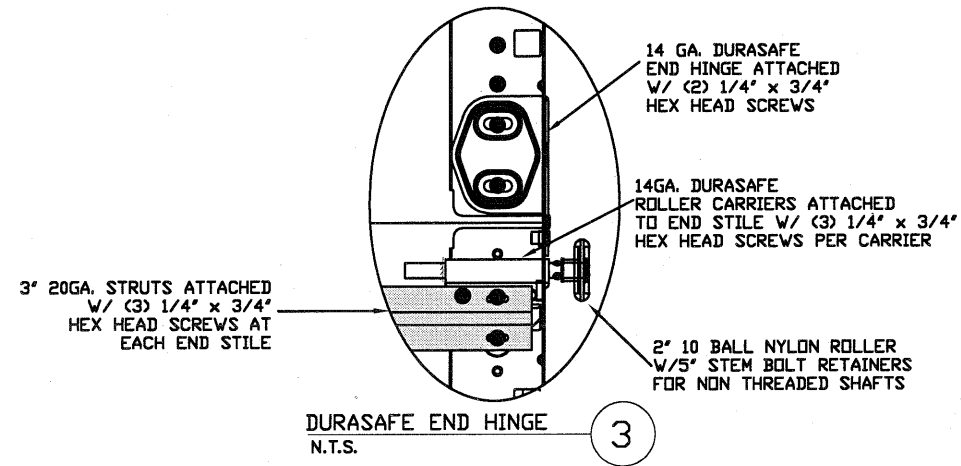
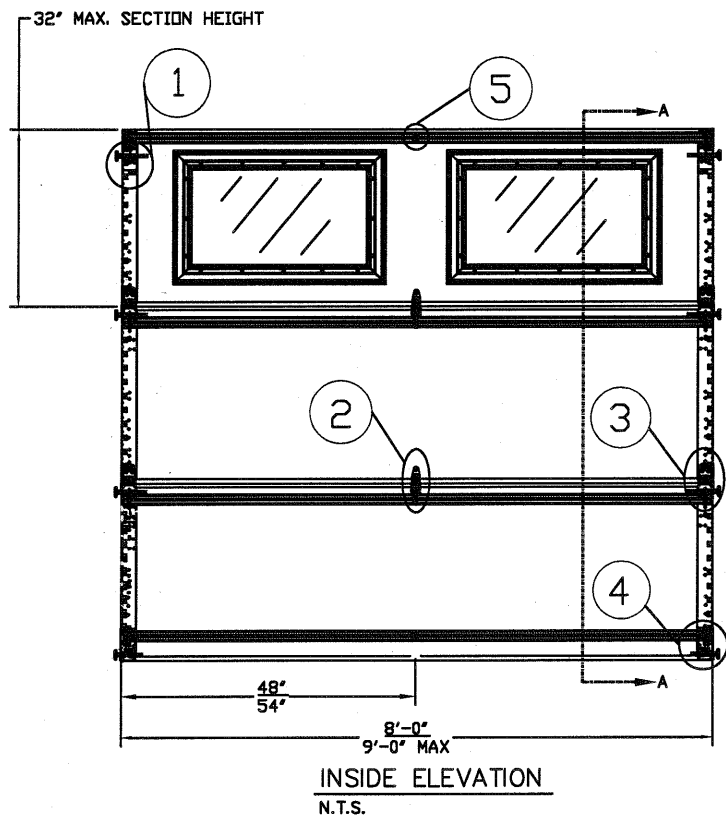
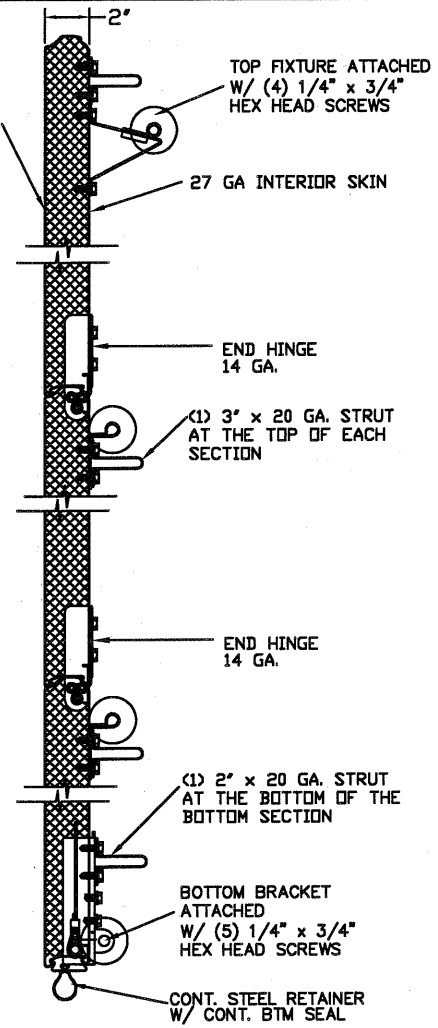




LARGE MISSILE IMPACT RESISTANT



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1886, E1996 & F588, DASMA 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)	195	177	168	160	154
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'0" x 14'

DESIGN LOADS
+35.6 PSF
-41.9 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+53.4 PSF
-62.9 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

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

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

MODEL #3000 AMARR CLASSICA 3000

SIZE B	DRAWN BY RS	DATE 3/23/16	DRAWING NUMBER IRC-3309-150-15-1
	CHECKED BY RLR	DATE 3/24/16	

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165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 1 OF 3

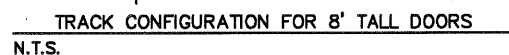


TABLE 1

HEIGHT	TRACK ATTACHMENT									SPLICE
	A	B	C	D	E	F	G	H	I	
6'2"	3.5	21"	39"	57"						66"
7'0"	3.5	21"	39"	57"						76"
8'0"	3.5	21"	39"	57"	75"					88"
8'6"	3.5	21"	39"	57"	75"					94"
9'0"	3.5	21"	39"	57"	75"	93"				100"
9'6"	3.5	21"	39"	57"	75"	93"				106"
10'	3.5	21"	39"	57"	75"	93"				112"
11'0"	3.5	21"	39"	57"	75"	93"	111"			124"
11'6"	3.5	21"	39"	57"	75"	93"	111"			130"
12'0"	3.5	21"	39"	57"	75"	93"	111"	129"		136"
12'6"	3.5	21"	39"	57"	75"	93"	111"	129"		142"
13'0"	3.5	21"	39"	57"	75"	93"	111"	129"		148"
13'6"	3.5	21"	39"	57"	75"	93"	111"	129"	147"	154"
14'0"	3.5	21"	39"	57"	75"	93"	111"	129"	147"	160"

Diagram illustrating the Glazing Fastener Detail. The dimensions shown are:

- Horizontal dimension: 37-3/4" MAX. DLO
- Vertical dimension: 20-1/4" MAX. DLO

The diagram shows a rectangular frame with a central opening, representing the glazing fastener detail. The frame is composed of multiple layers, and the dimensions are indicated by arrows pointing to the outer edges of the frame.

GLAZING FASTENER DETAIL
N.T.S.



Diagram illustrating the interior of a garage with design loads and width specifications:

- INTERIOR OF GARAGE
- MAX. WIDTH 9'0"
- DESIGN LOADS:
 - +160.2 LBS/FT
 - 188.6 LBS/FT
- SEE NOTE 2

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'0 x 14' DESIGN LOADS +35.6 PSF -41.9 PSF TEST LOADS (1.5 x DESIGN LOADS) +53.4 PSF -62.85 PSF LARGE MISSILE IMPACT RESISTANCE		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	
<i>Amarr</i>			
MODEL #3000 AMARR CLASSICA 3000			
SIZE	DRAWN BY	RS	DATE 3/23/16
B	CHECKED BY	RLR	DATE 3/24/16
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, NC 27105			DRAWING NUMBER IRC-3309-150-15- SHEET 2 OF 3

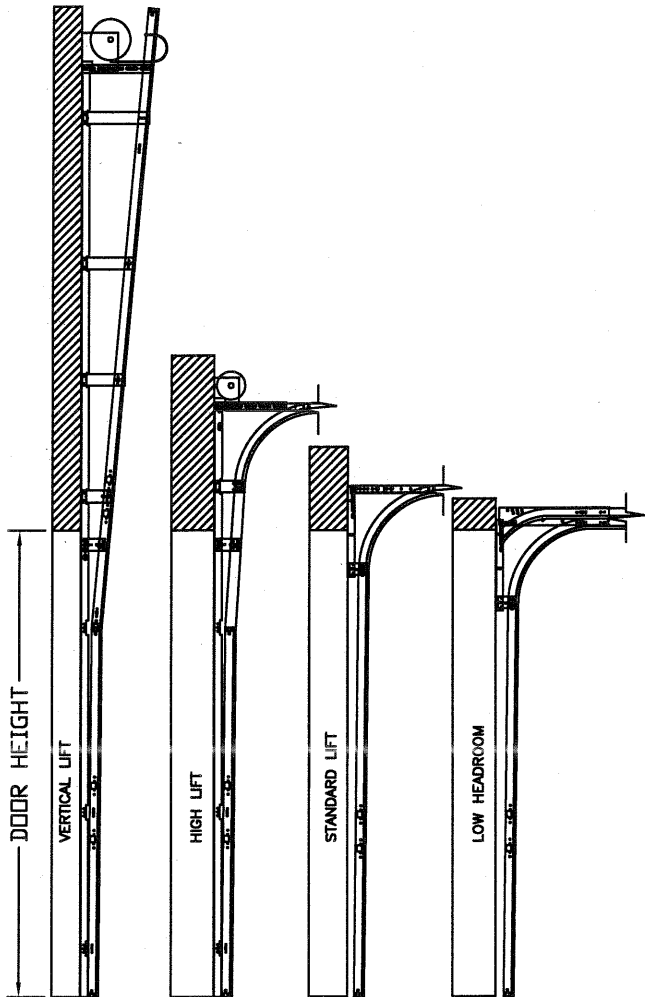
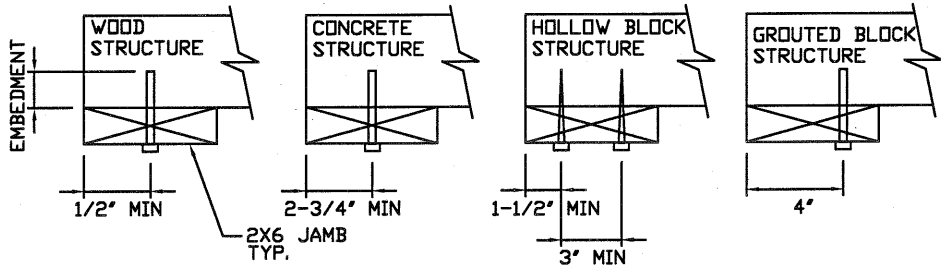
TABLE 2

Section	Panel Type	Center Stile Location		Max Design Loads Allowed	
		1st (in)	2st (in)	Positive (PSF)	Negative (PSF)
6' 0	Short	24.6	47.4	53.4	62.8
7' 0	Short	29.1	54.9	45.7	53.8
7' 2	Short	29.9	56.1	44.7	52.6
7' 4	Short	30.6	57.4	43.6	51.4
7' 6	Long/Short	45.0		42.7	50.2
7' 8	Long/Short	46.0		41.7	49.1
7' 10	Long/Short	47.0		40.9	48.1
8' 0	Long/Short	48.0		40.0	47.1
8' 2	Long/Short	49.0		39.2	46.1
8' 4	Long/Short	50.0		38.4	45.2
8' 6	Long/Short	51.0		37.6	44.3
8' 8	Long/Short	52.0		36.9	43.5
8' 10	Long/Short	53.0		36.2	42.6
9' 0	Long/Short	54.0		35.6	41.9

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 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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9'0 x 14'

DESIGN LOADS
+35.6 PSF
-41.9 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+53.4 PSF
-62.85 PSF

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SHEET 3 OF 3