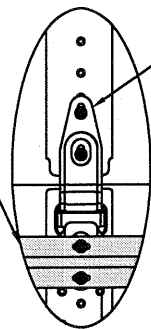


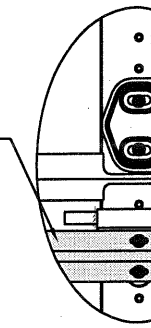
TYPICAL TOP FIXTURES
N.T.S.

3" 20GA. STRUTS ATTACHED
W/ (2) 1/4" x 3/4"
HEX HEAD SCREWS AT
CENTER STILE



TYPICAL DURASAFE CENTER HINGE
N.T.S.

3" 20GA. STRUTS
ATTACHED W/ (2)
1/4" x 3/4" HEX
HEAD SCREWS



TYPICAL DURASAFE END HINGE
N.T.S.

14 GA. DURASAFE
END HINGE ATTACHED
W/ (2) 1/4" x 3/4"
HEX HEAD SCREWS

14GA. DURASAFE
ROLLER CARRIERS ATTACHED
TO END STILE W/ (2) 1/4" x 3/4"
HEX HEAD SCREWS PER CARRIER

2" NYLON ROLLER
W/ 5" STEM

24 GA SKIN

END HINGE
14 GA.

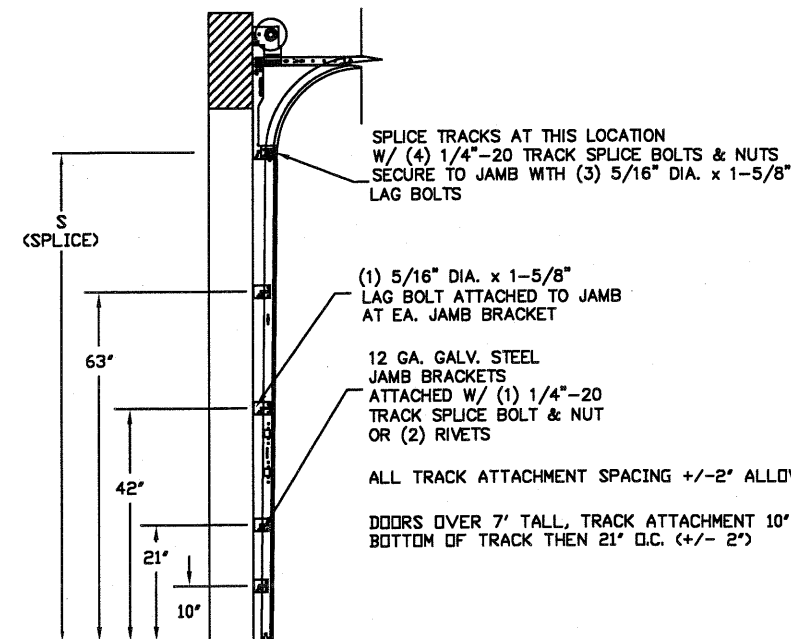
3" x 20 GA. STRUTS

END HINGE
14 GA.

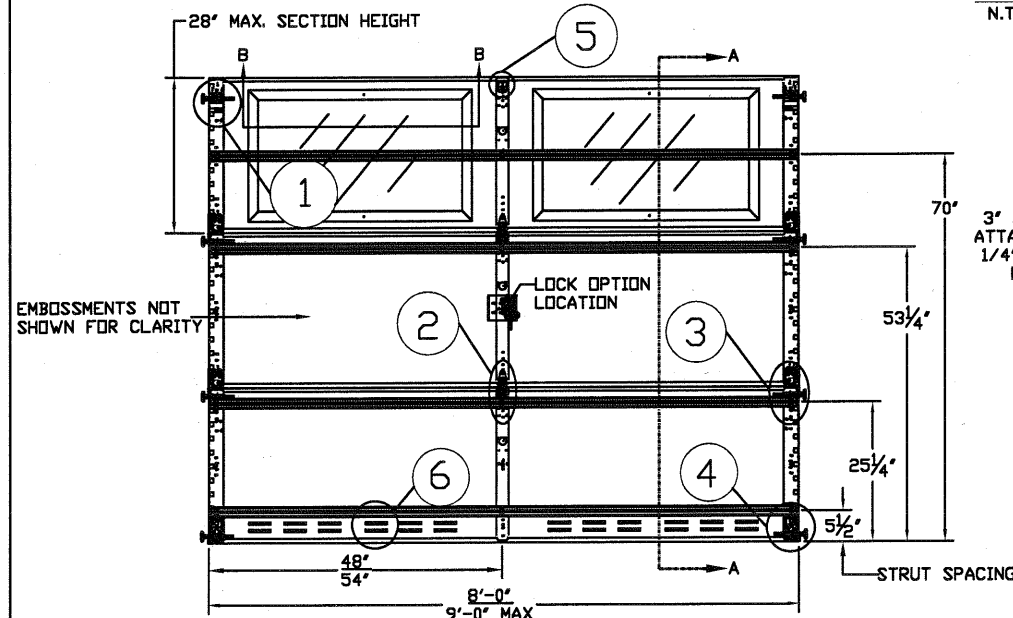
BOTTOM BRACKET
ATTACHED
W/ (3) 1/4" x 3/4"
HEX HEAD SCREWS

CONT. STEEL RETAINER
W/ CONT. BTM SEAL

SECTION A-A (SIDE VIEW)
N.T.S.



TRACK CONFIGURATION FOR 7' TALL DOORS
N.T.S.



INSIDE ELEVATION
N.T.S.

3" 20GA. STRUT
ATTACHED W/
(2) 1/4" x 3/4"
HEX HEAD SCREWS
AT END AND CENTER
STILES

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

HOLES FOR STRUT
ATTACHMENT (IF STRUT
IS REQUIRED)

2" NYLON ROLLER
W/ 5" STEM

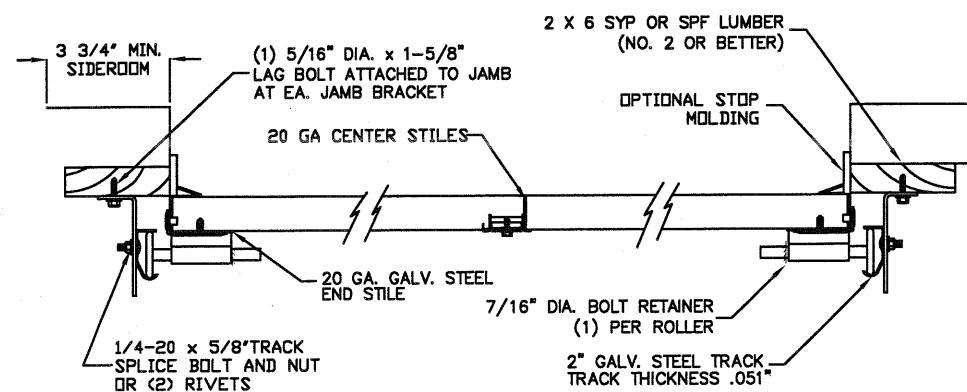
STILE STIFFENERS (1)
LOCATED IN HINGE HOLES
ON TOP SECTION ONLY

TYPICAL BOTTOM BRACKET
N.T.S.

TYPICAL STILE STIFFENER
N.T.S.

TWO (2) ROWS OF THREE (3)
VENTS EQUALS 15 SQ. INCHES

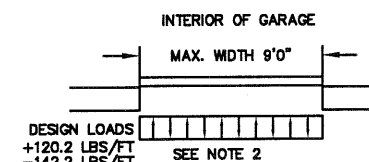
OPTIONAL VENT DETAIL
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330 AND ANSI/DASMA 108. 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)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



SPECIFICATIONS AND NOTES

- 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.
- EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF:
+120.2 LBS/FT & -142.2 LBS/FT
- DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 24 GA. MIN. (.022") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
9' x 14'

DESIGN LOADS
+26.7 PSF
-31.6 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+40.1 PSF
-47.4 PSF

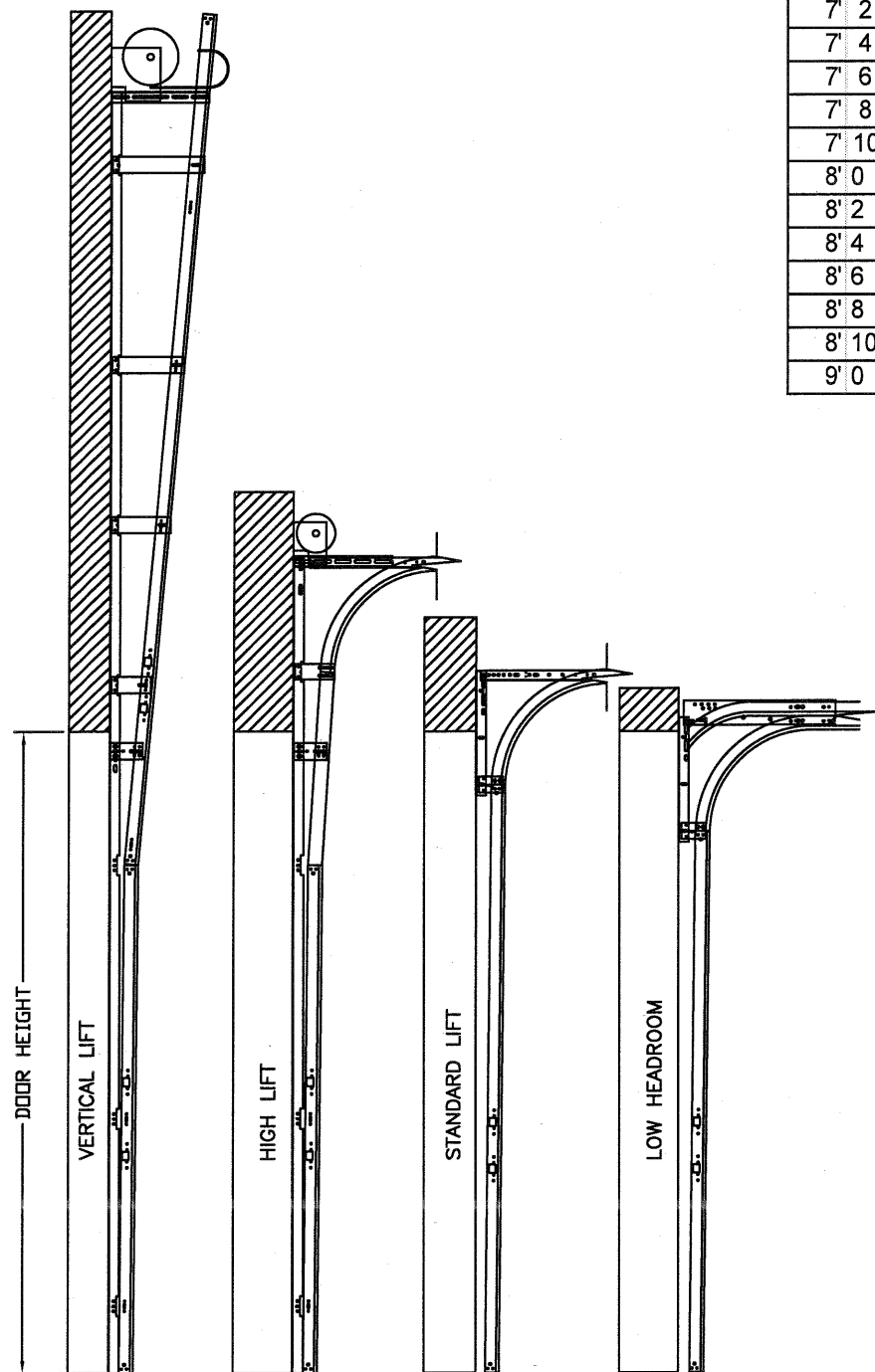
Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

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

MODEL 500 AMARR CLASSICA 1000, 2000

SIZE B	DRAWN BY DLJ	DATE 05/18/04	DRAWING NUMBER IRC-5209-130-15
CHECKED BY AAE		DATE 05/18/04	SHEET 1 OF 2
ENTREMATICS 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

Section	Center Stile Location (Measured from Left)		Max Design Loads Allowed	
	1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6' 0	24.644	47.3565	39.8	47.2
7' 0	29.144	54.857	34.2	40.4
7' 2	29.894	56.107	33.4	39.5
7' 4	30.644	57.357	32.6	38.6
7' 6	45.000		31.9	37.7
7' 8	46.000		31.2	36.9
7' 10	47.000		30.5	36.1
8' 0	48.000		29.9	35.4
8' 2	49.000		29.3	34.7
8' 4	50.000		28.7	34.0
8' 6	51.000		28.1	33.3
8' 8	52.000		27.6	32.7
8' 10	53.000		27.1	32.0
9' 0	54.000		26.7	31.6

WOOD JAMB ATTACHMENT TO STRUCTURE

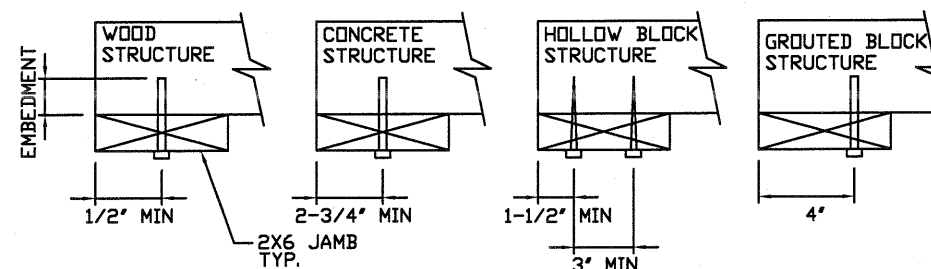
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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 24" 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 24" 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)

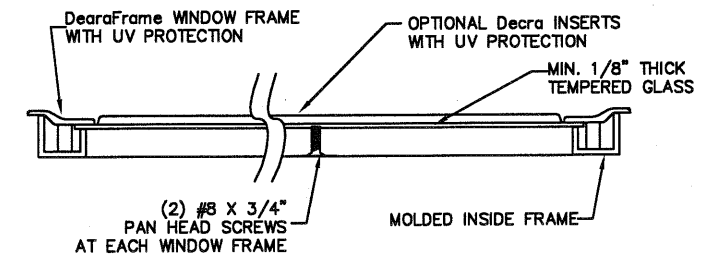
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



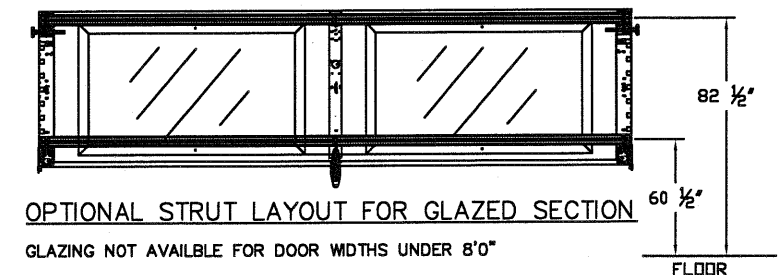
GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION

GLAZING MEETS ASTM E 1300-04



SECTION B-B



OPTIONAL STRUT LAYOUT FOR GLAZED SECTION

GLAZING NOT AVAILABLE FOR DOOR WIDTHS UNDER 8'0"

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE 9' x 14'		
	DESIGN LOADS +26.7 PSF -31.6 PSF		
	TEST LOADS (1.5 x DESIGN LOADS) +40.1 PSF -47.4 PSF		

Thomas L. Shelmerdine, PE (FL PE #0048579)
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 2