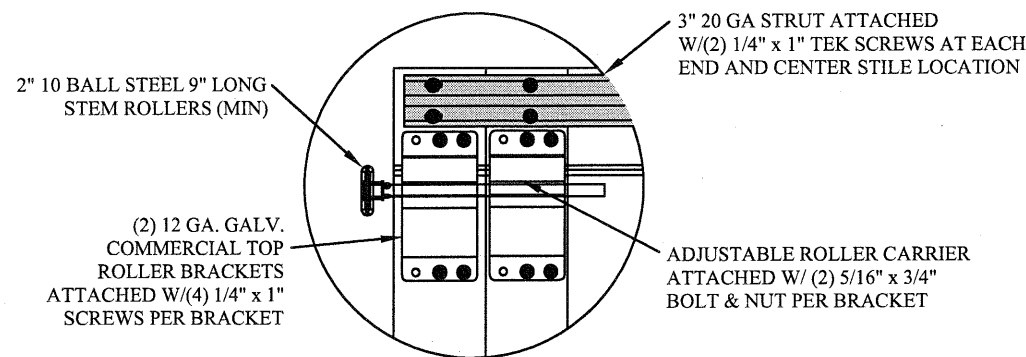
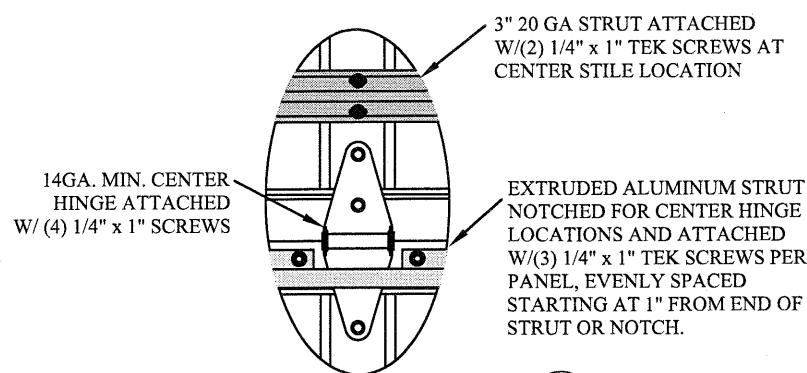
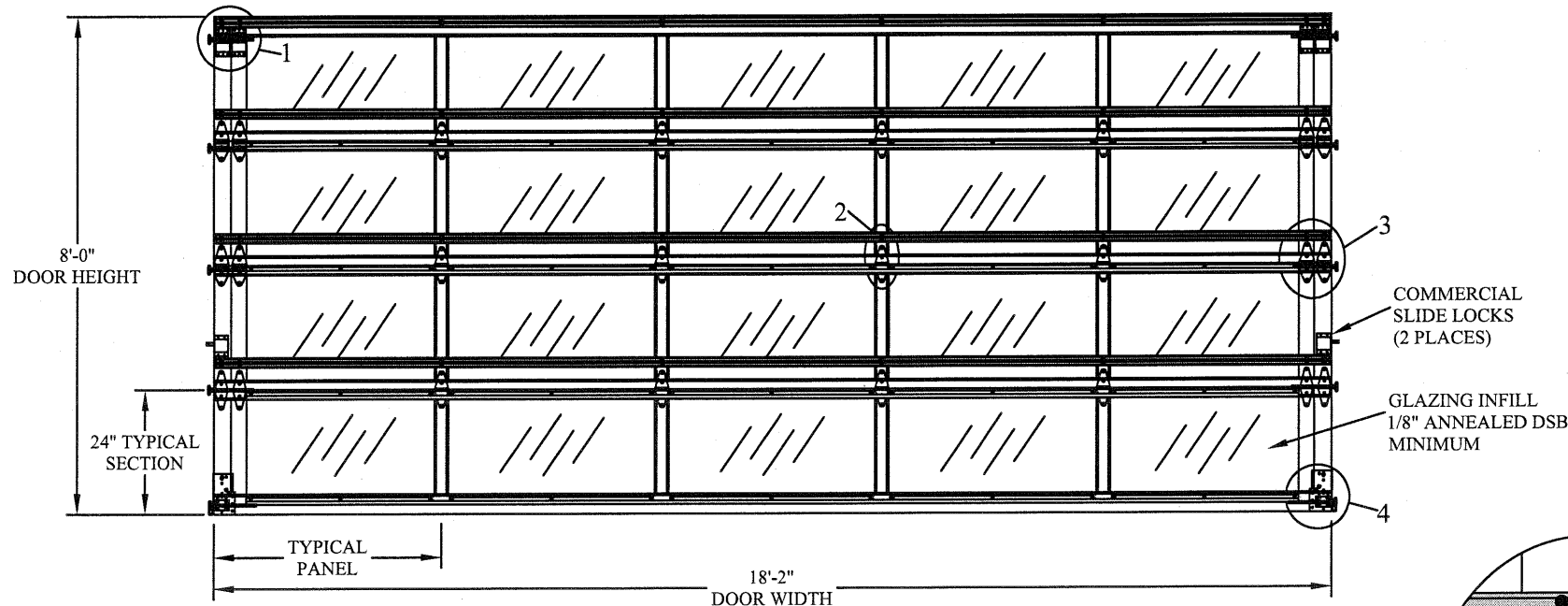




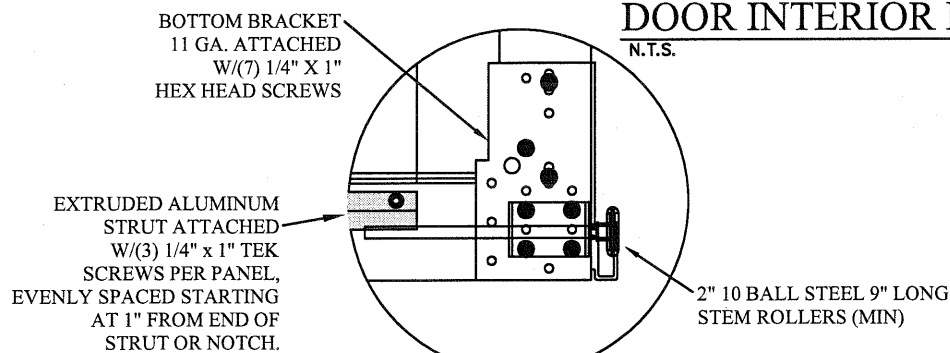
TYPICAL TOP FIXTURES
N.T.S. 1



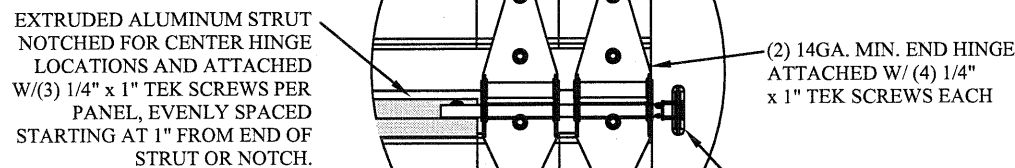
TYPICAL CENTER HINGE W/STRUT
N.T.S. 2



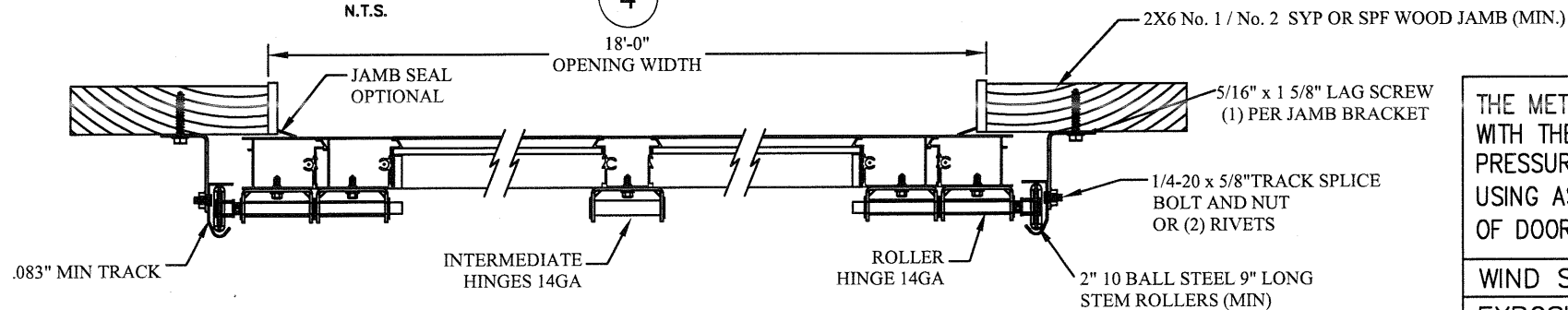
DOOR INTERIOR ELEVATION
N.T.S.



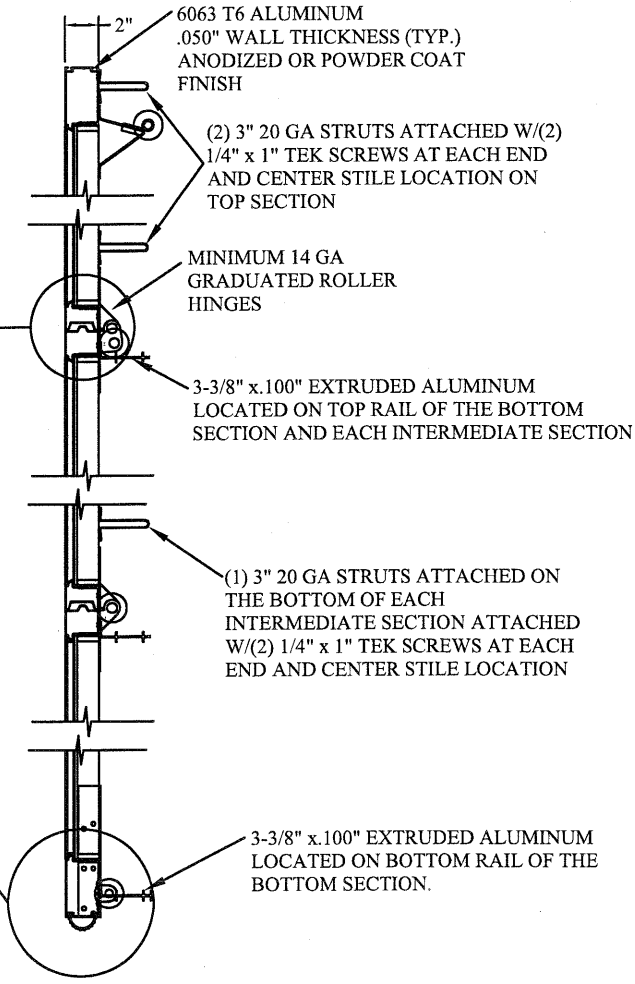
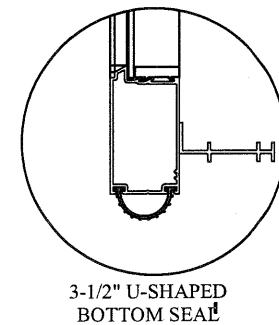
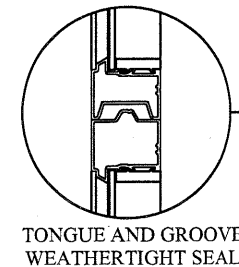
TYPICAL BOTTOM BRACKET
N.T.S. 4



TYPICAL END HINGE
N.T.S. 3



2" BRACKET MOUNT TO WOOD JAMB DETAIL
N.T.S.



ALUMINUM SECTION PROFILE
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

WIND SPEED (MPH)	171	155	147	141	135
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18'2" x 24'

DESIGN LOADS
+23.8 PSF
-26.8 PSF

TEST LOADS
+35.7 PSF
-40.2 PSF

THOMAS L. SHELMERDINE
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No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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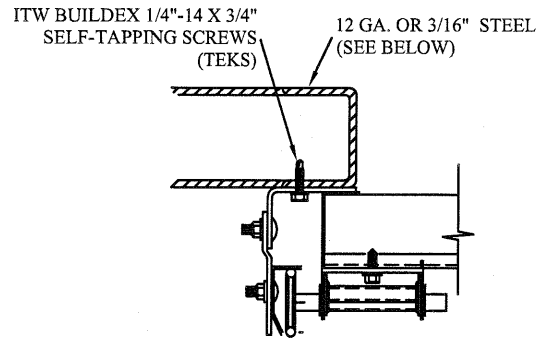
Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)
dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

MODEL 3550HD AMARR 3552
MODEL VISTA AMARR 3552

SIZE	DRAWN BY	RLR	DATE	10/3/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	10/4/17	IBC-3618-132-63
ENTREMATICS					SHEET 1 OF 3
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					

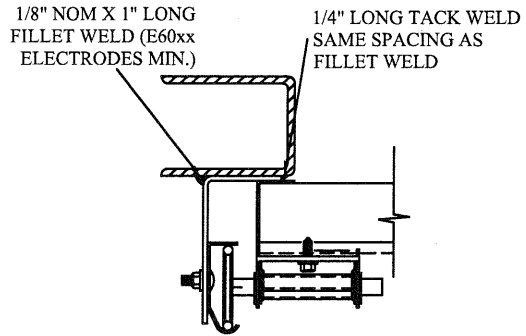
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

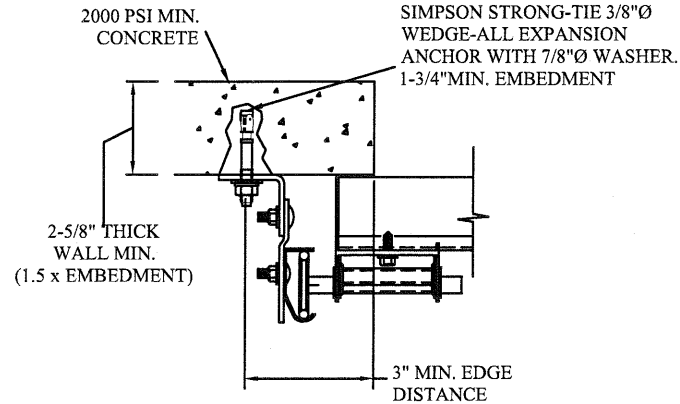
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



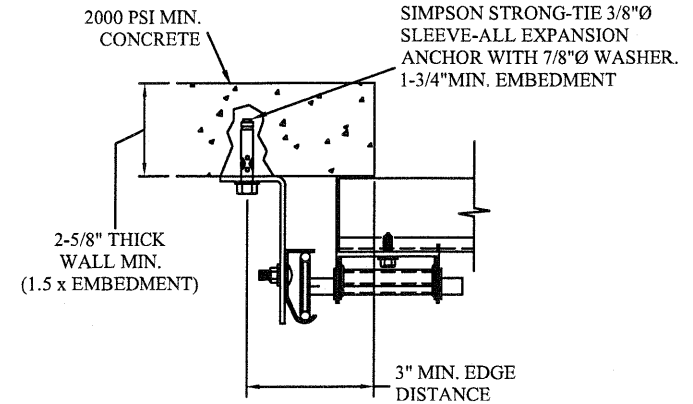
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

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: +216.2 LBS/FT & -243.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 6063 T6 ALUMINUM .050" WALL THICKNESS (TYP.) ANODIZED OR POWDER COAT FINISH
5. DOORS UP TO 24'0" HIGH WILL HAVE (2) 3-3/8" x.100" EXTRUDED ALUMINUM STRUTS ON THE BOTTOM SECTION, (1) 3-3/8" x.100" EXTRUDED ALUMINUM STRUT ON THE TOP RAIL OF EACH INTERMEDIATE SECTION AND (1) 3" 20GA STRUT LOCATED ON THE BOTTOM OF EACH INTERMEDIATE SECTION, AND (2) 3" 20GA STRUTS ON THE TOP 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.

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 22" 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 20" 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)

HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,

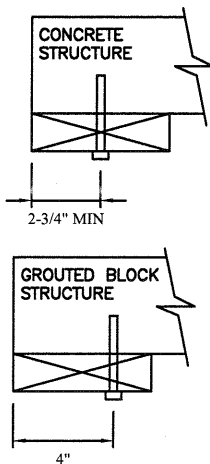
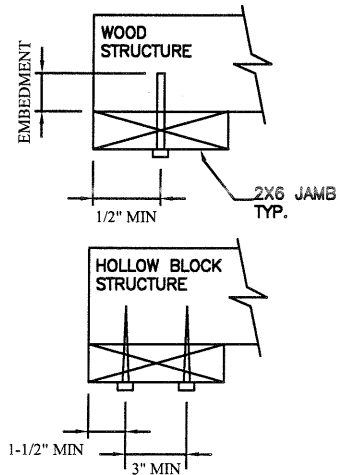
USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

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)

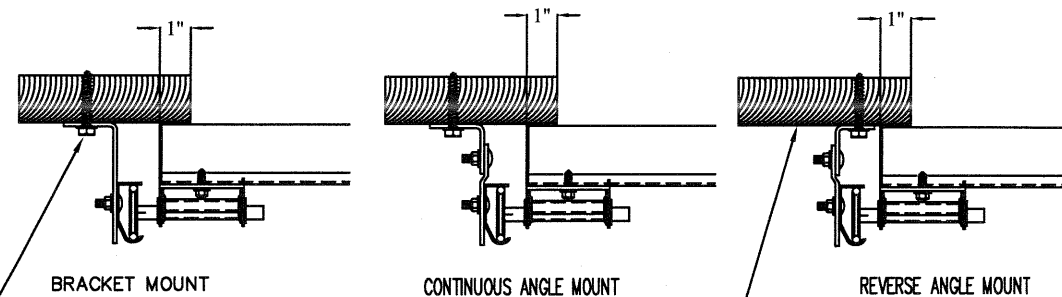
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



TRACK CONNECTION TO WOOD JAMB OPTIONS

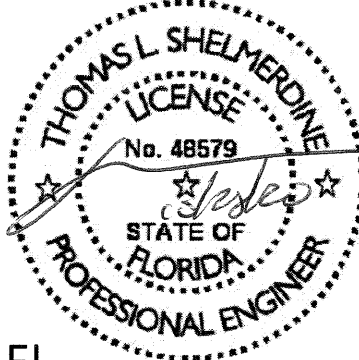
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 3 FOR TRACK CONFIGURATION DETAIL



5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)

2x6 WOOD JAMB SYP OR SPF
(NO.2) OR BETTER (TYP.)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18'2 x 24' DESIGN LOADS +23.8 PSF -26.8 PSF TEST LOADS +35.7 PSF -40.2 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
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MODEL 3550HD AMARR 3552 MODEL VISTA AMARR 3552				
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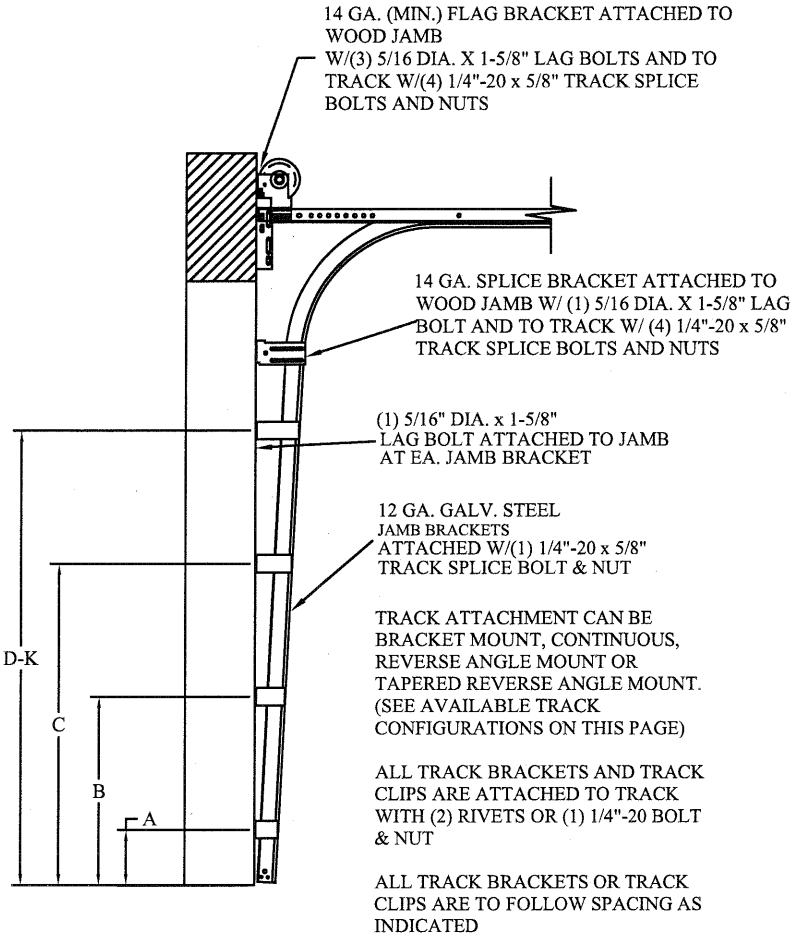
SIZE B	DRAWN BY	R/LR	DATE 10/3/17	DRAWING NUMBER IBC-3618-132-63
	CHECKED BY	R/LR	DATE 10/4/17	

ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105				SHEET 2 OF 3
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TABLE 1

Section Width		Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
(ft)	(in)	1st (in)	2nd (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
17'	0	39.0	81.0	123.0	165.0	24.7	27.9
17'	2	40.0	82.0	124.0	166.0	24.7	27.9
17'	4	41.0	83.0	125.0	167.0	24.7	27.9
17'	6	42.0	84.0	126.0	168.0	24.7	27.8
17'	8	43.0	85.0	127.0	169.0	24.4	27.5
17'	10	44.0	86.0	128.0	170.0	24.2	27.2
18'	0	43.5	86.5	129.5	172.5	24	27
18'	2	44.5	87.5	130.5	173.5	23.8	26.8

*CONTACT ENGINEERING FOR SIZES LESS THAN 17'0 WIDE



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 2

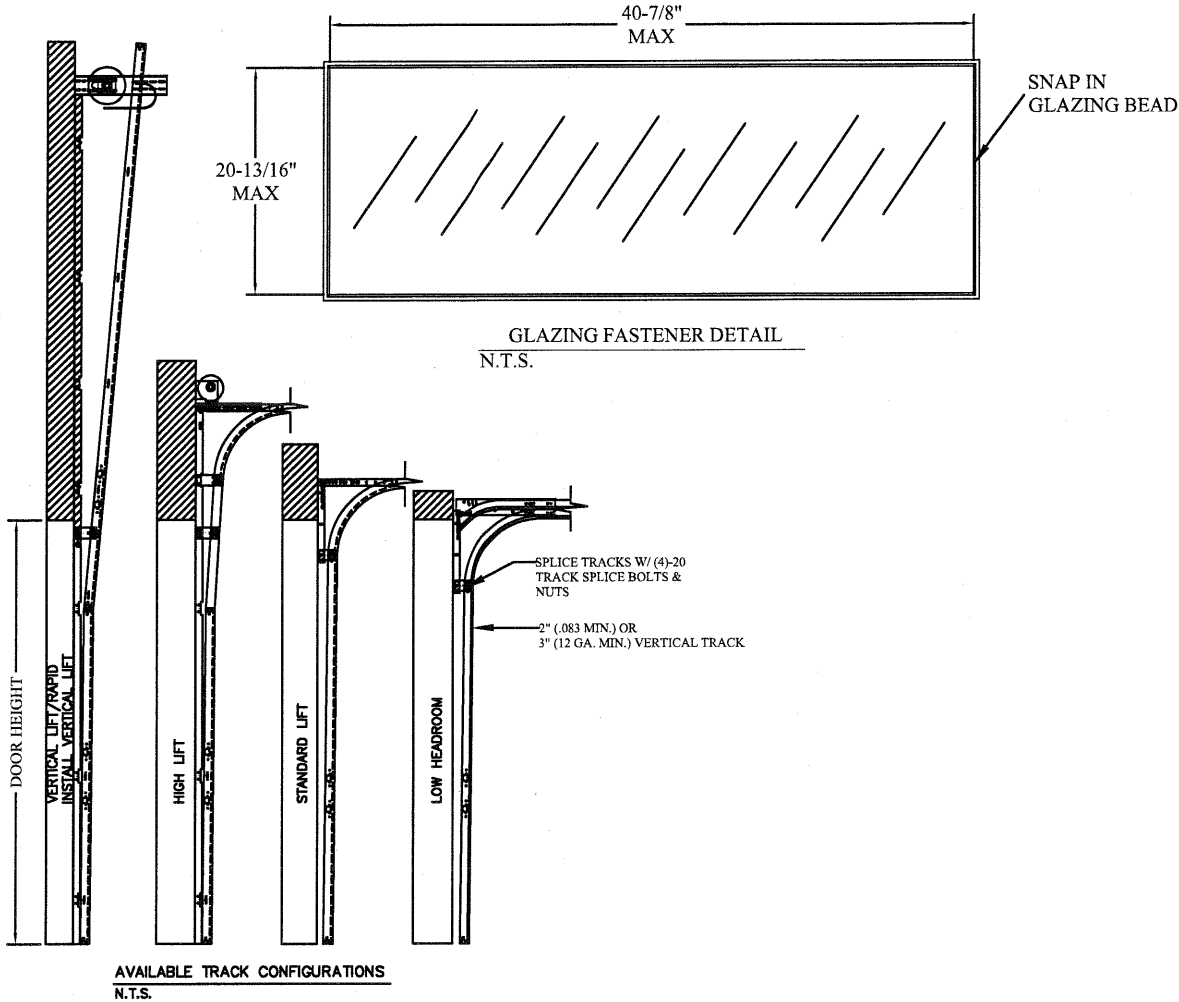


TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT																						TYPICAL SPLICE	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V		W
7'	0"	10.0"	22"	34"	46"	58"	70"																		76"
7'	6"	10.0"	22"	34"	46"	58"	70"	82"																	82"
8'	0"	10.0"	22"	34"	46"	58"	70"	82"																	88"
9'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"																100"
9'	6"	10.0"	22"	34"	46"	58"	70"	82"	94"																106"
10'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"															112"
11'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"														124"
12'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"													136"
13'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"												148"
14'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"											160"
15'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"										172"
16'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"									184"
17'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"								196"
18'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"							208"
19'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"						220"
20'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"					232"
21'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"				244"
22'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"			256"
23'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"		268"
24'	0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"	274"	280"

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

REVDESCRIPTION OF REVISIONSDATEBY

MAX SIZE
18'2 x 24'

DESIGN LOADS
+23.8 PSF
-26.8 PSF

TEST LOADS
+35.7 PSF
-40.2 PSF

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

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Amarr

MODEL 3550HD AMARR 3552
MODEL VISTA AMARR 3552

SIZE
B

DRAWN BY
RLR

DATE
10/3/17

CHECKED BY
RLR

DATE
10/4/17

DRAWING NUMBER
IBC-3618-132-63

ENTREMATICS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 3 OF 3