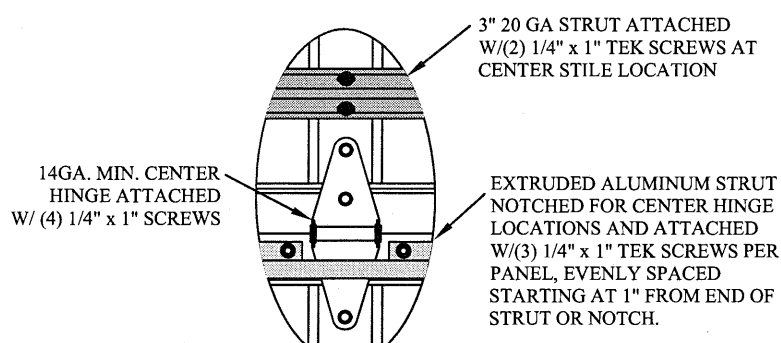
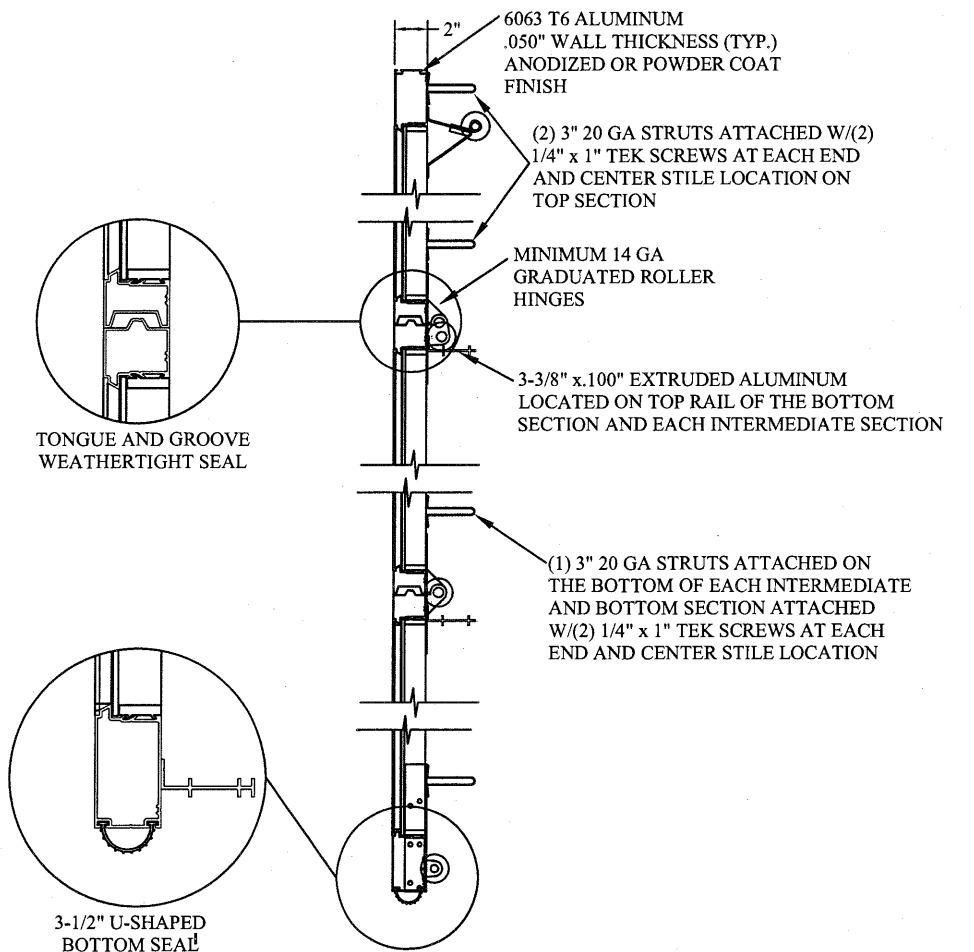


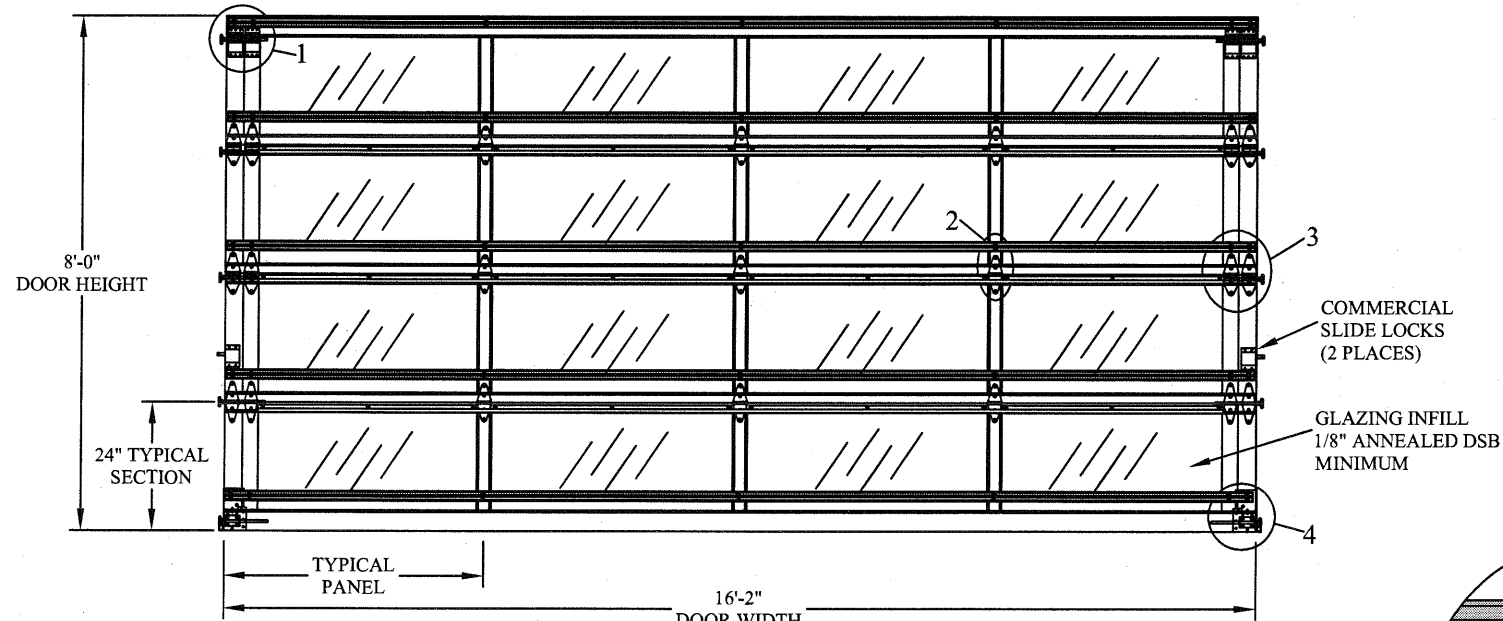
TYPICAL TOP FIXTURES
N.T.S. 1



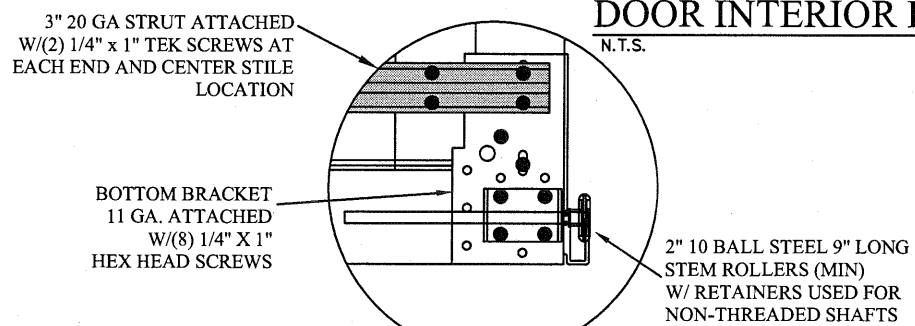
TYPICAL CENTER HINGE
N.T.S. 2



ALUMINUM SECTION
PROFILE
N.T.S.

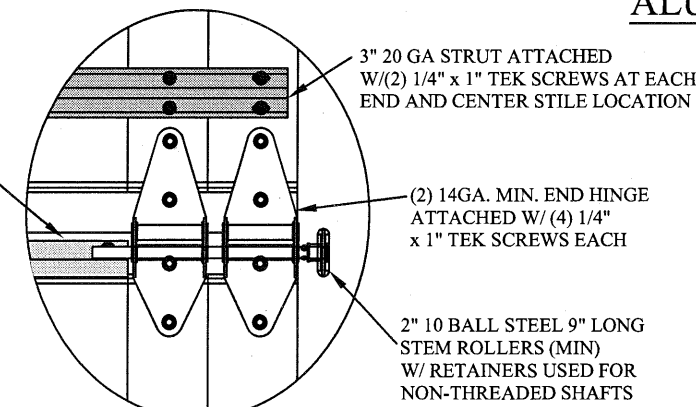


DOOR INTERIOR ELEVATION
N.T.S.

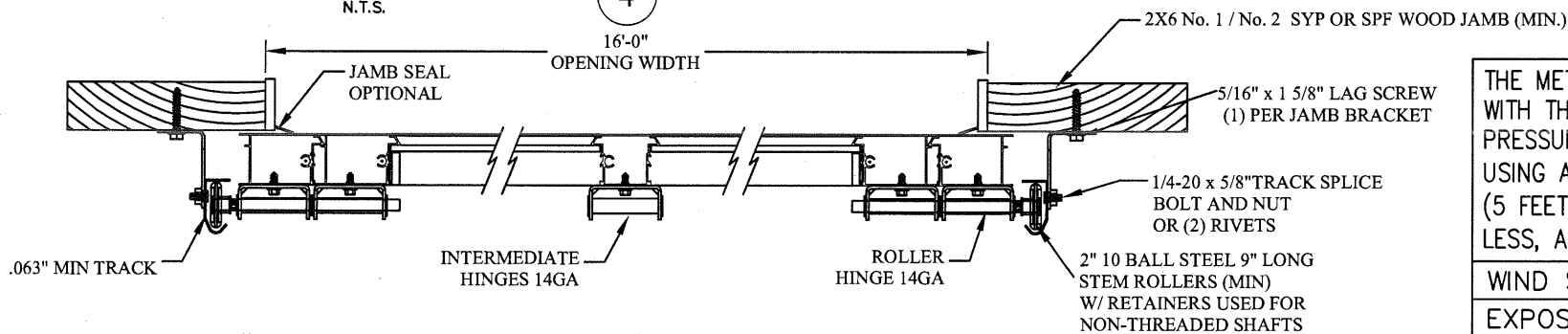


TYPICAL BOTTOM BRACKET
N.T.S. 4

EXTRUDED ALUMINUM STRUT NOTCHED FOR CENTER HINGE LOCATIONS AND ATTACHED W/(3) 1/4\"/>



TYPICAL END HINGE
N.T.S. 3



2\"/>

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 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10' OR LESS, AND I=1.0):

WIND SPEED (MPH)	151	137	130	124	119
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+31.2 PSF
-35.3 PSF

TEST LOADS
+46.8 PSF
-53.0 PSF

Thomas L. Shelmerdine, PE (TX #85829)
Structural Solutions, PA (TX Firm #F-004063)

TX

Amarr
ENTREMATICS

MODEL 3550HD AMARR 3552
MODEL VISTA AMARR 3552

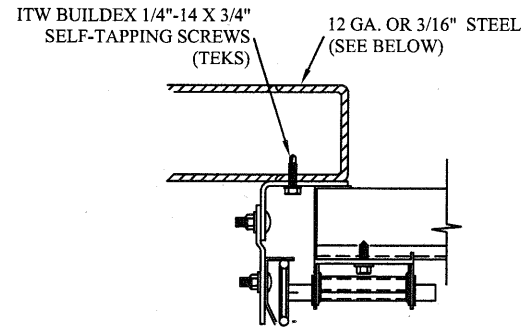
SIZE	DRAWN BY	RLR	DATE	6/6/18	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	6/6/18	IBC-3616-150-63

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

SHEET 1 OF 3

5921-G W. Friendly Ave., Greensboro, NC 27410

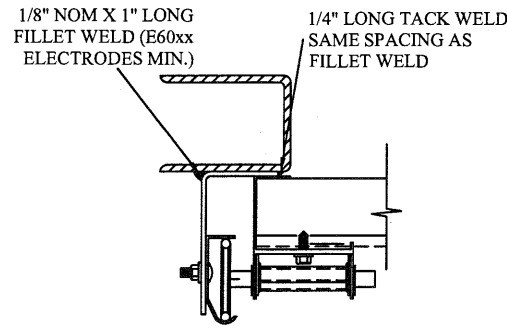
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

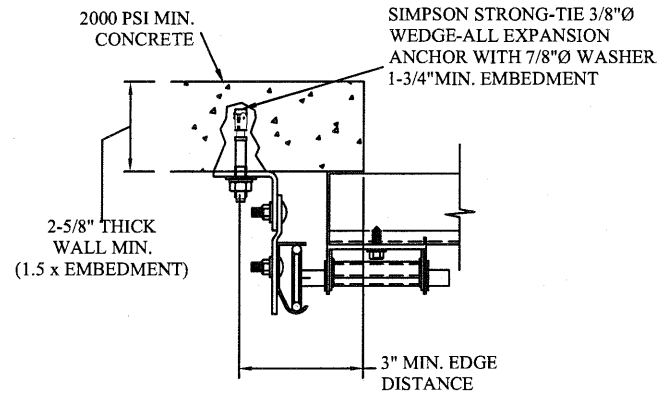
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 10" O.C.
REFER TO NOTES: 1, 2 AND 5

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



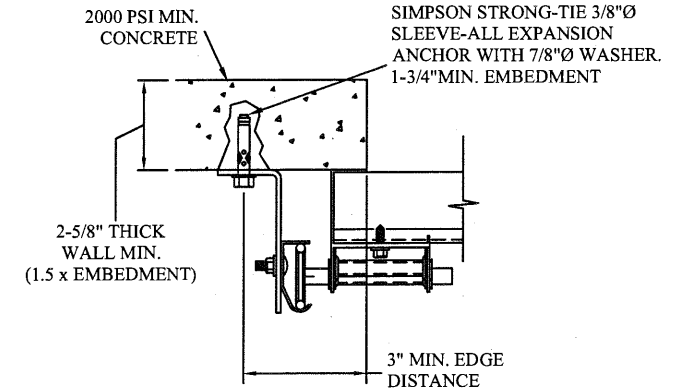
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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 16" 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 14" 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: +252.2 LBS/FT & -285.3 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 (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 AND BOTTOM 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 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)

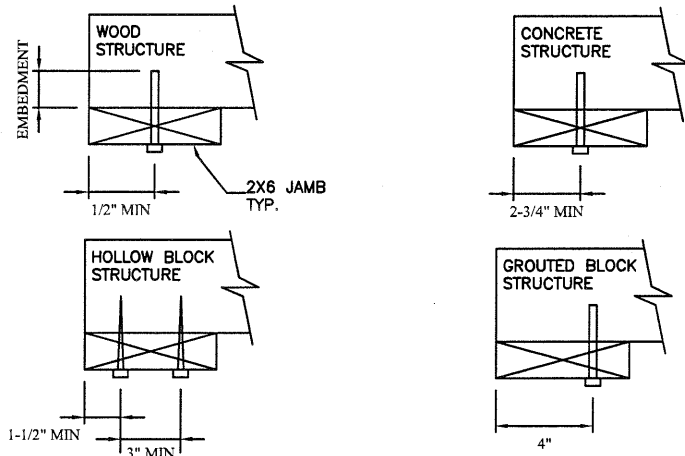
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 20" O.C. (1 1/4" EMBEDMENT)

(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

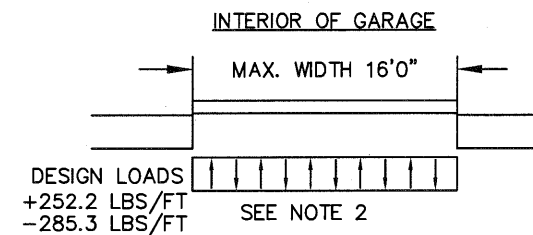
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS



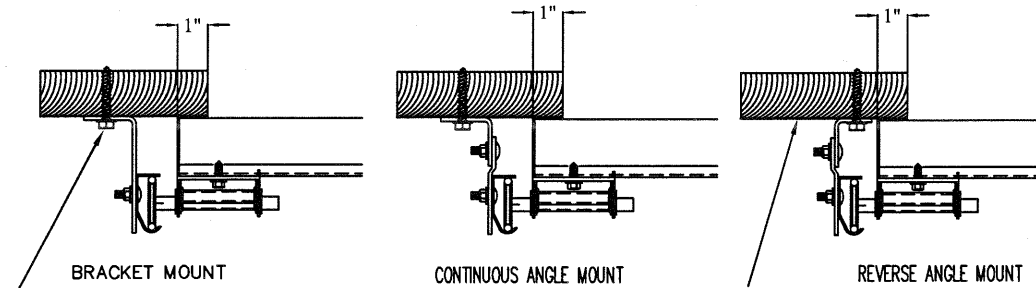
NOTES:

1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
3. MIN. EDGE DISTANCE OF 3" REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.



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.)

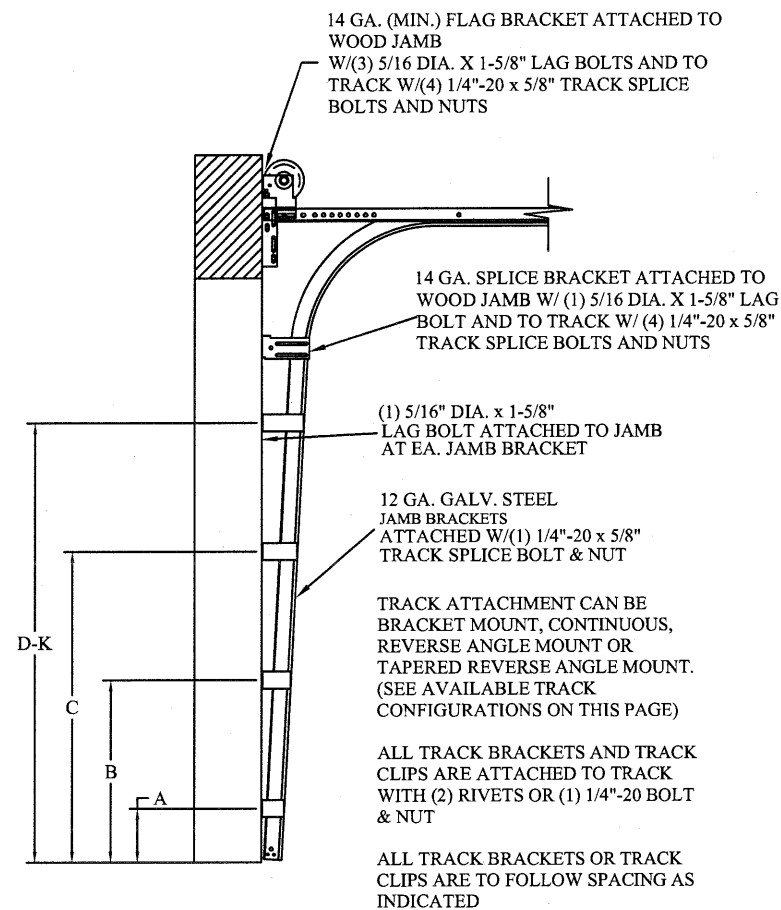
REV	DESCRIPTION OF REVISIONS	DATE	BY												
	<p>MAX. SIZE, 16'2" x 24'</p> <p>DESIGN LOADS +31.2 PSF -35.3 PSF</p> <p>TEST LOADS +46.8 PSF -53.0 PSF</p>														
	<p>Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)</p> <div style="text-align: center;"> <p>TX</p> </div>														
	<p>MODEL 3550HD AMARR 3552 MODEL VISTA AMARR 3552</p>														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SIZE</td> <td style="width: 25%;">DRAWN BY</td> <td style="width: 25%;">RLR</td> <td style="width: 25%;">DATE</td> <td style="width: 25%;">6/6/18</td> <td style="width: 25%;">DRAWING NUMBER</td> </tr> <tr> <td>B</td> <td>CHECKED BY</td> <td>RLR</td> <td>DATE</td> <td>6/6/18</td> <td>IBC-3616-150-63</td> </tr> </table>	SIZE	DRAWN BY	RLR	DATE	6/6/18	DRAWING NUMBER	B	CHECKED BY	RLR	DATE	6/6/18	IBC-3616-150-63		
SIZE	DRAWN BY	RLR	DATE	6/6/18	DRAWING NUMBER										
B	CHECKED BY	RLR	DATE	6/6/18	IBC-3616-150-63										
	<p style="text-align: center;">ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105</p>														
	<p style="text-align: right;">SHEET 2 OF 3</p>														

5921-G W. Friendly Ave., Greensboro, NC 27410

TABLE 1

Section Width (ft)	Center Stile Locations (Measured from Left)			Max Design Loads Allowed	
	1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
13' 0"	36"	78"	120"	35.8	40.5
13' 2"	37"	79"	121"	35.8	40.5
13' 4"	38"	80"	122"	35.8	40.5
13' 6"	39"	81"	123"	35.8	40.5
13' 8"	40"	82"	124"	35.8	40.5
13' 10"	41"	83"	125"	35.8	40.5
14' 0"	42"	84"	126"	35.8	40.5
14' 2"	43"	85"	127"	35.4	40.0
14' 4"	44"	86"	128"	35.0	39.6
14' 6"	45"	87"	129"	34.6	39.1
14' 8"	46"	88"	130"	34.2	38.7
14' 10"	47"	89"	131"	33.8	38.2
15' 0"	48"	90"	132"	33.4	37.8
15' 2"	49"	91"	133"	33.0	37.4
15' 4"	50"	92"	134"	32.7	37.0
15' 6"	51"	93"	135"	32.3	36.6
15' 8"	52"	94"	136"	32.0	36.2
15' 10"	53"	95"	137"	31.6	35.8
16' 0"	48"	96"	144"	31.3	35.4
16' 2"	49"	97"	145"	31.2	35.3

*CONTACT ENGINEERING FOR SIZES LESS THAN 13'0 WIDE



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

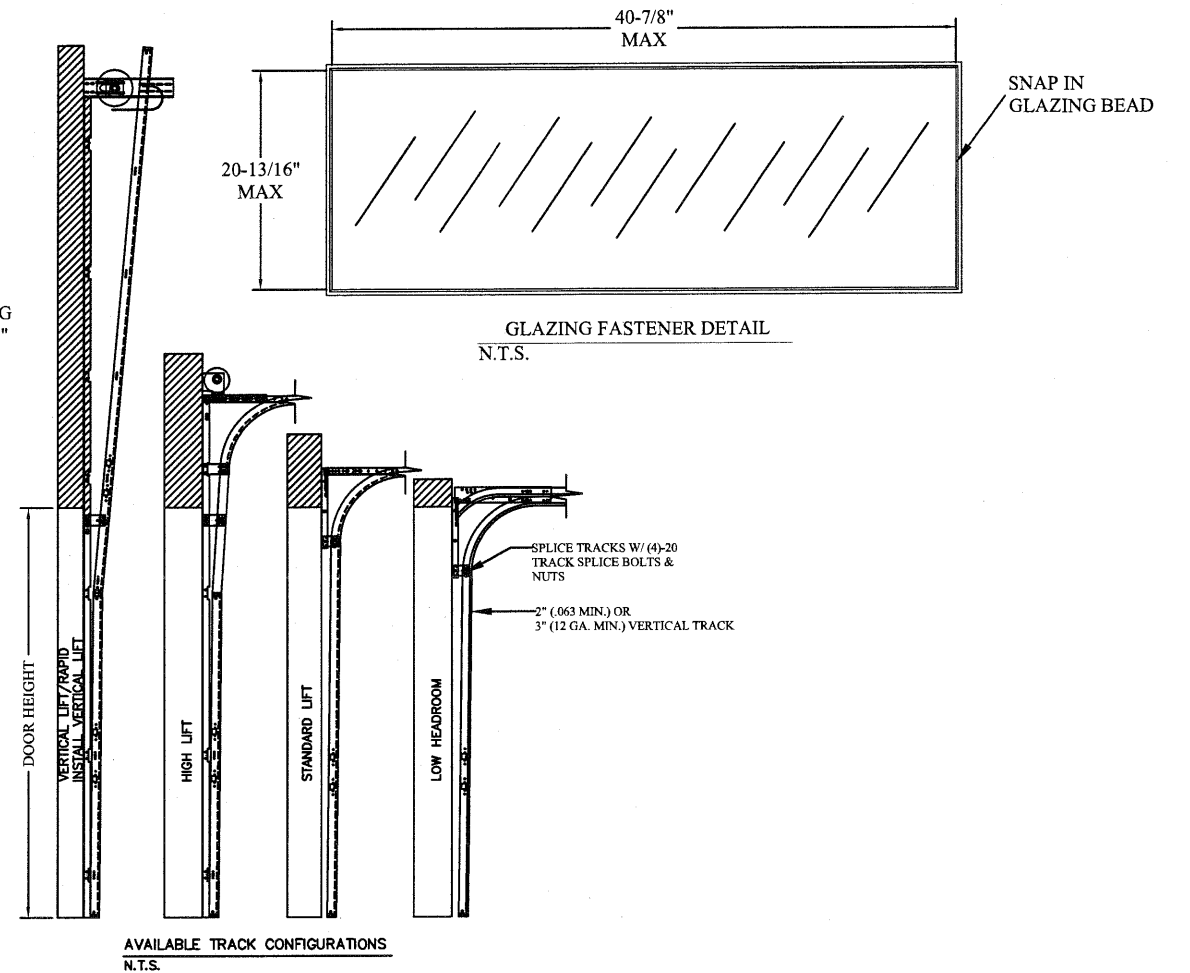


TABLE 2

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
7' 0"	10.0"	22"	34"	46"	58"																		76"
7' 6"	10.0"	22"	34"	46"	58"	70"																	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"														106"
10' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"													112"
11' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"												124"
12' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"											136"
13' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"										148"
14' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"									160"
15' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"								172"
16' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"							184"
17' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"						196"
18' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"					208"
19' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"				220"
20' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"			232"
21' 0"	10.0"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"		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"	262"	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"	280"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+31.2 PSF
-35.3 PSF

TEST LOADS
+46.8 PSF
-53.0 PSF

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)

STATE OF TEXAS
THOMAS L. SHELMERDINE
858291129
LICENSED PROFESSIONAL ENGINEER

TX

Amarr
ENTREMATRIC

MODEL 3550HD AMARR 3552
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SHEET 3 OF 3