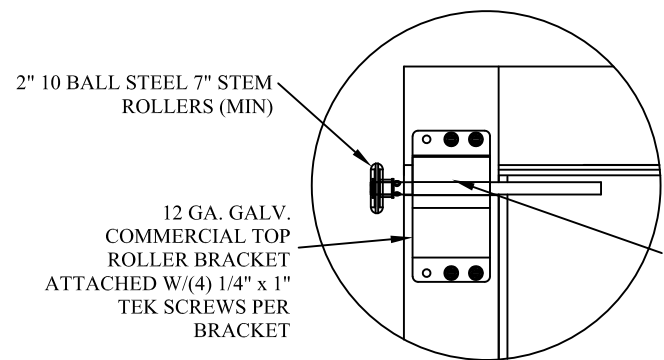
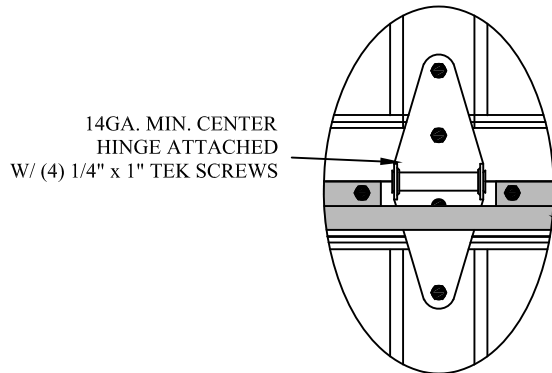




TYPICAL TOP FIXTURES
N.T.S.

1



TYPICAL CENTER HINGE
N.T.S.

2

EXTRUDED ALUMINUM STRUT NOTCHED FOR CENTER HINGE LOCATIONS AND ATTACHED W/(3) 1/4" x 1" TEK SCREWS PER PANEL, EVENLY SPACED STARTING AT 1" FROM END OF STRUT OR NOTCH.

6063 T6 ALUMINUM
.050" WALL THICKNESS (TYP.)
ANODIZED OR POWDER COAT FINISH



12 GA. (MIN.) GALV. COMMERCIAL TOP ROLLER BRACKET ATTACHED WITH (4) 1/4" x 1" HEX HEAD UNIV. SCREWS PER BRACKET ADJUSTABLE SLIDE BRACKET IS ASSEMBLED WITH (2) 5/16" x 3/4" CARRIAGE BOLTS & NUT PER BRACKET

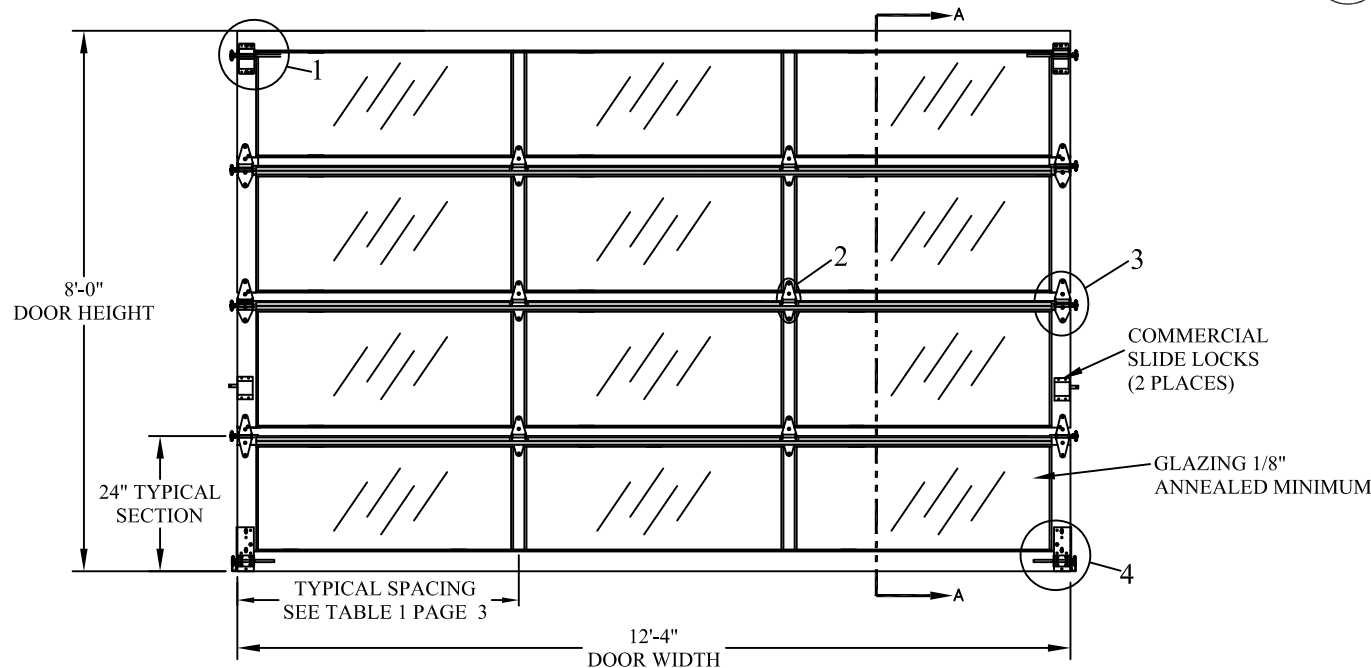
3-3/8" x.100" EXTRUDED ALUMINUM LOCATED ON TOP RAIL OF BOTTOM AND INTERMEDIATE SECTIONS

MINIMUM 14 GA GRADUATED ROLLER HINGES ATTACHED W/(5) 1/4" X 1" TEK SCREWS EACH

BOTTOM BRACKET 11 GA. ATTACHED W/(7) 1/4" X 1" TEX SCREWS

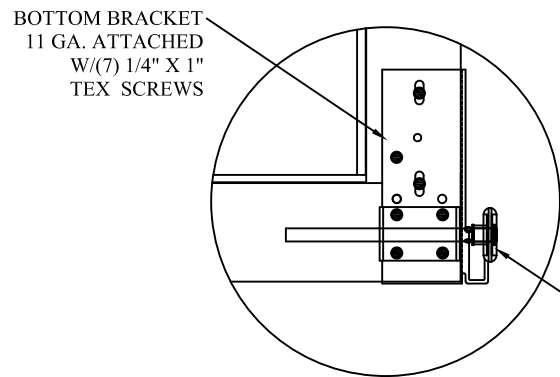
ALUMINUM SECTION PROFILE

N.T.S.



DOOR INTERIOR ELEVATION

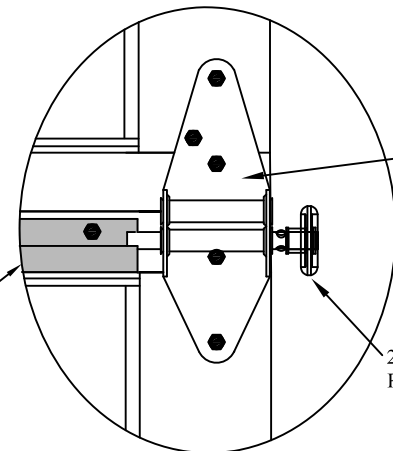
N.T.S.



TYPICAL BOTTOM BRACKET
N.T.S.

4

3-3/8" x.100" EXTRUDED ALUMINUM STRUT

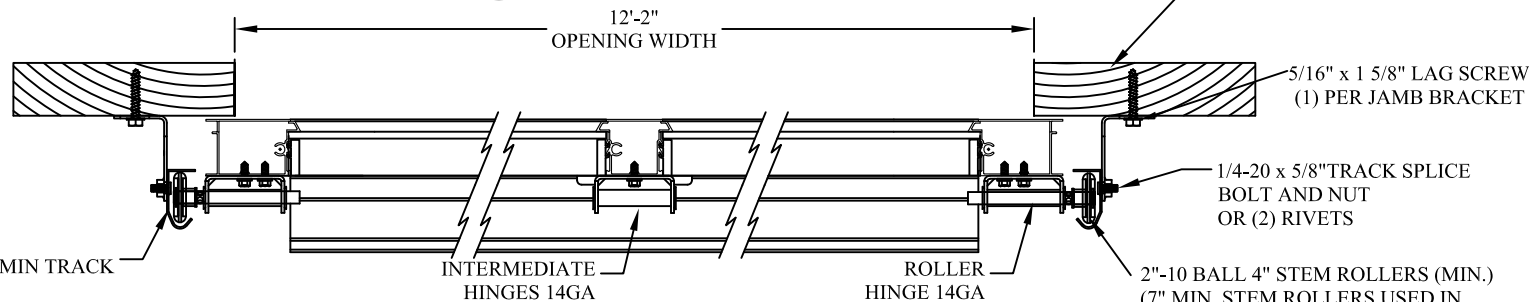


TYPICAL END HINGE
N.T.S.

3

14GA. MIN. END HINGE ATTACHED W/ (5) 1/4" x 1" TEK SCREWS EACH

2" 10 BALL STEEL 4" STEM ROLLERS (MIN)



2" BRACKET MOUNT TO WOOD JAMB DETAIL

N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASHA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-22 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

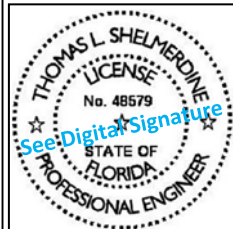
WIND SPEED (MPH)	200	181	173	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
-----	--------------------------	------	----

MAX SIZE
12'4" x 24'

DESIGN LOADS
+33.7 PSF
-39.0 PSF

TEST LOADS
+50.6 PSF
-58.5 PSF



This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.

Thomas L
Shelmerdine

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

FL

Amarr

AMARR 3552
AMARR VISTA 3552

SIZE	DRAWN BY	DRC	DATE	09/14/20	DRAWING NUMBER
B	CHECKED BY	DLJ	DATE	09/15/20	IBC-3612-155-63
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 1 OF 3

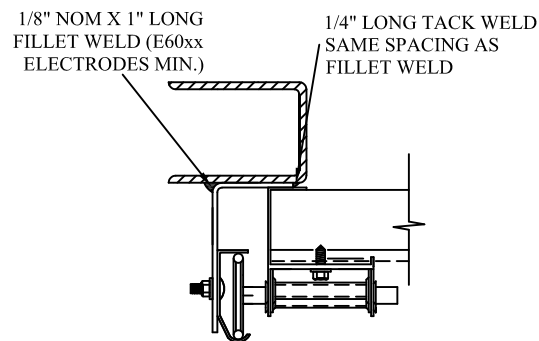
ITW BUILDDEX 1/4"-14 X 3/4"
SELF-TAPPING SCREWS
(TEKS)

12 GA. OR 3/16" STEEL
(SEE BELOW)

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

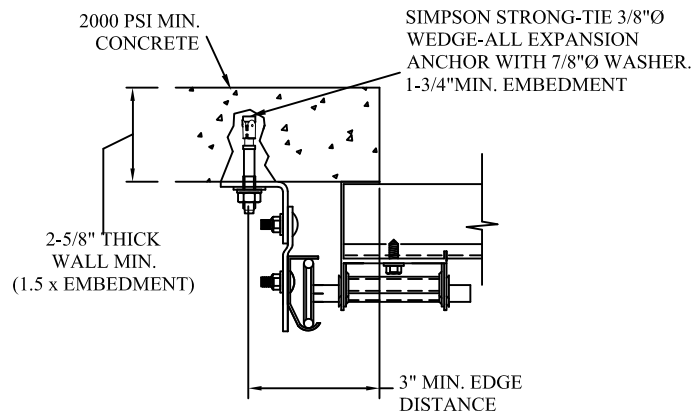
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

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



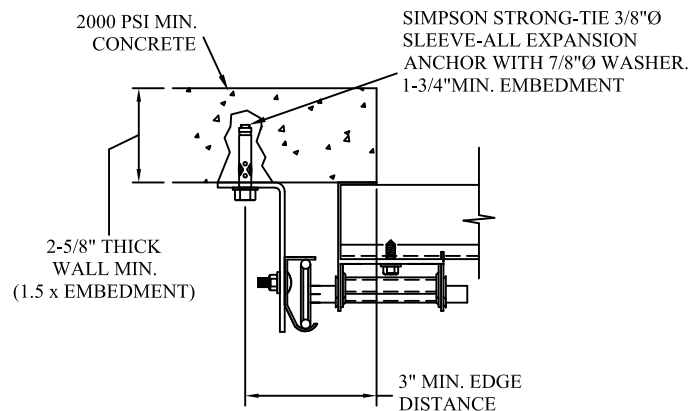
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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 20" 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:
+207.8 LBS/FT & -240.5 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
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)

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)

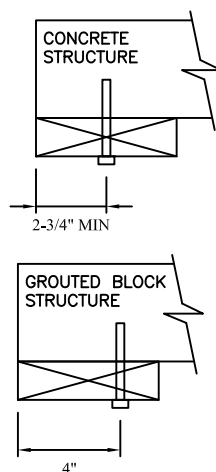
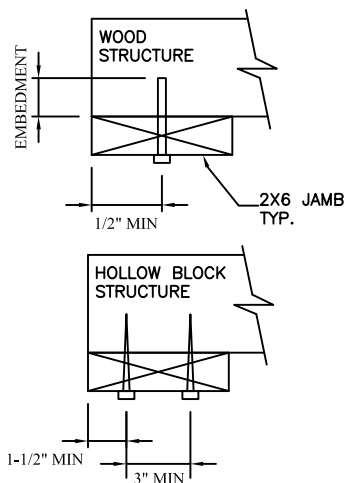
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS

THEN 24" O.C. (1 1/4" EMBEDMENT)

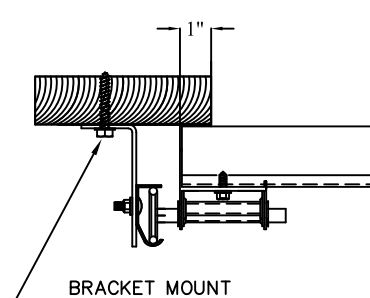
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

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

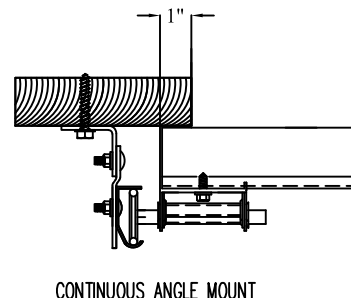
*PREPARATION OF WOOD JAMBS BY OTHERS



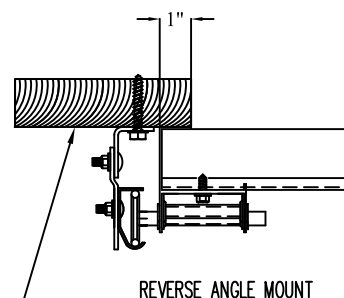
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 3 FOR TRACK CONFIGURATION DETAIL



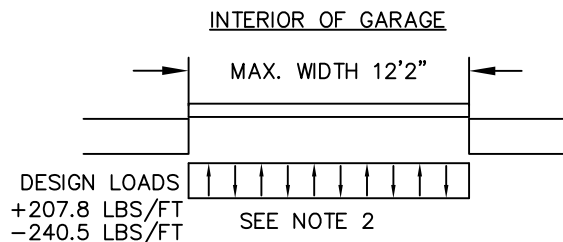
5/16" x 1 5/8" LAG SCREW (1) PER
JAMB BRACKET (1-1/2" EMBEDMENT
MINIMUM) (TYP.)



CONTINUOUS ANGLE MOUNT



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



INTERIOR OF GARAGE

MAX. WIDTH 12'2"

DESIGN LOADS
+207.8 LBS/FT
-240.5 LBS/FT

SEE NOTE 2

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 12'4" x 24' DESIGN LOADS +33.7 PSF -39.0 PSF TEST LOADS +50.6 PSF -58.5 PSF		This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies. 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	
<i>Amarr</i> AMARR 3552 AMARR VISTA 3552			
SIZE	DRAWN BY	DRC	DATE 09/14/20
B	CHECKED BY	DLJ	DATE 09/15/20
AMARR COMPANY 1600 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
DRAWING NUMBER		IBC-3612-155-63	
SHEET 2		OF 3	

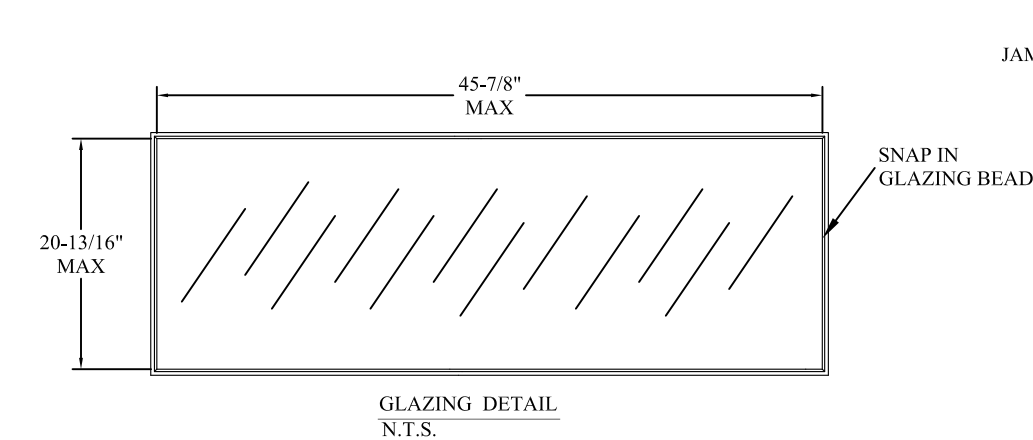


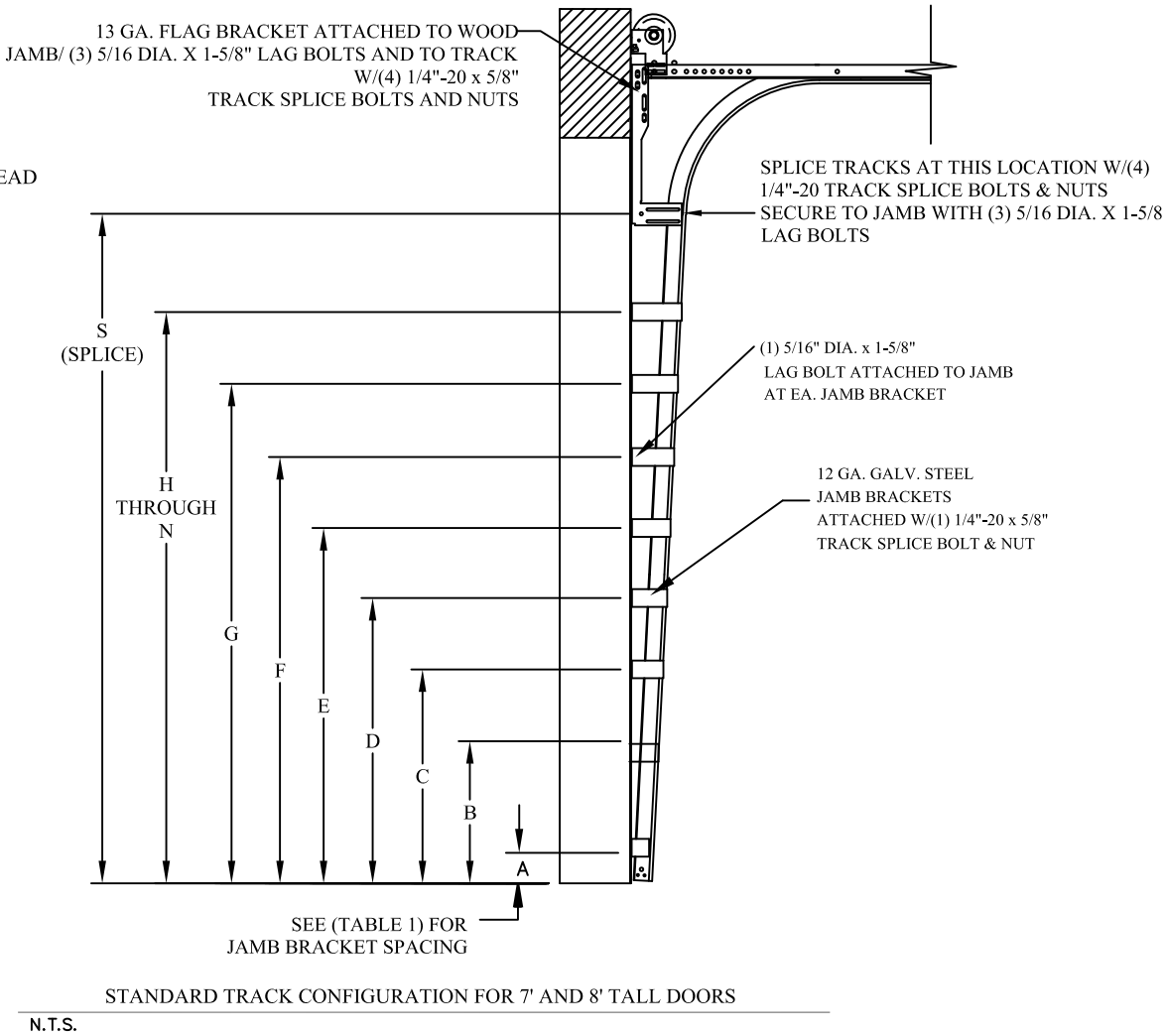
TABLE 1

Section Width (ft)	Center Hinge Locations		Max Design Loads Allowed	
	1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
9' 4"	36"	76"	43.2	50.0
9' 6"	37"	77"	42.6	49.3
9' 8"	38"	78"	42.1	48.7
9' 10"	39"	79"	41.5	48.1
10' 0"	40"	80"	41.0	47.5
10' 2"	41"	81"	40.5	46.9
10' 4"	42"	82"	40.0	46.3
10' 6"	43"	83"	39.3	45.5
10' 8"	44"	84"	38.7	44.8
10' 10"	45"	85"	38.1	44.1
11' 0"	46"	86"	37.5	43.5
11' 2"	47"	87"	37.0	42.8
11' 4"	48"	88"	36.4	42.2
11' 6"	49"	89"	35.9	41.6
11' 8"	50"	90"	35.4	41.0
11' 10"	51"	91"	34.9	40.4
12' 0"	48"	96"	34.2	39.6
12' 2"	49"	97"	33.8	39.2
12' 4"	50"	98"	33.7	39.0

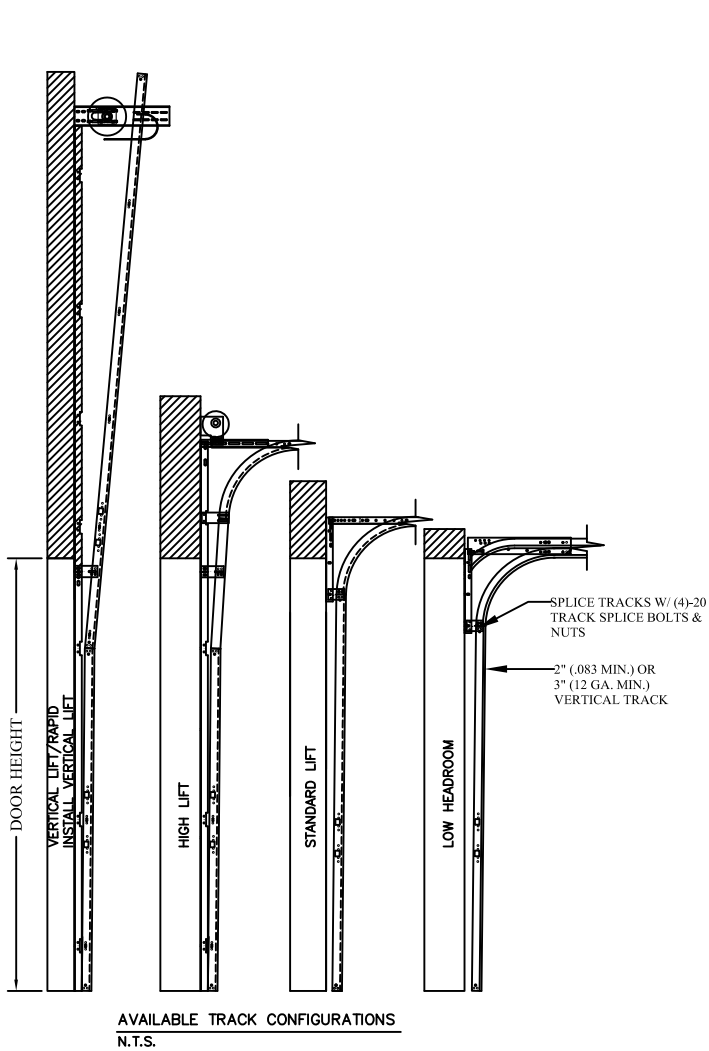
TABLE 2

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	X		
7'	0"	3.5"	10"	22"	34"	46"	58"																			76"	
7'	6"	3.5"	10"	22"	34"	46"	58"	70"																		82"	
8'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"																	88"	
8'	6"	3.5"	10"	22"	34"	46"	58"	70"	82"																	94"	
9'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"																100"	
9'	6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"																106"	
10'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"															112"	
11'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"														124"	
12'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"													136"	
13'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"												148"	
14'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"											160"	
15'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"										172"	
16'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"									184"	
17'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"								196"	
18'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"							208"	
19'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"						220"	
20'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"					232"	
21'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"				244"	
22'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"			256"	
23'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"		268"	
24'	0"	3.5"	10"	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 AND ATTACHMENT SPACING +/-2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY



N.T.S.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 3

SECTION	
TOP	
11TH	3 3/8" AL
10TH	3 3/8" AL
9TH	3 3/8" AL
8TH	3 3/8" AL
7TH	3 3/8" AL
6TH	3 3/8" AL
5TH	3 3/8" AL
4TH	3 3/8" AL
3RD	3 3/8" AL
2ND	3 3/8" AL
BOTTOM	3 3/8" AL

REV	DESCRIPTION OF REVISIONS	DATE	BY		
MAX SIZE, 12'4 x 24' DESIGN LOADS +33.7 PSF -39.0 PSF TEST LOADS +50.6 PSF -58.5 PSF		THOMAS L. SHELDERDINE LICENSE No. 48579 See Digital Signature STATE OF FLORIDA PROFESSIONAL ENGINEER This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not considered signed & sealed, and the signature must be verified on any electronic copies.			
		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 FL			
Amarr					
AMARR 3552 AMARR VISTA 3552					
SIZE	DRAWN BY	DRC	DATE		
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 3		