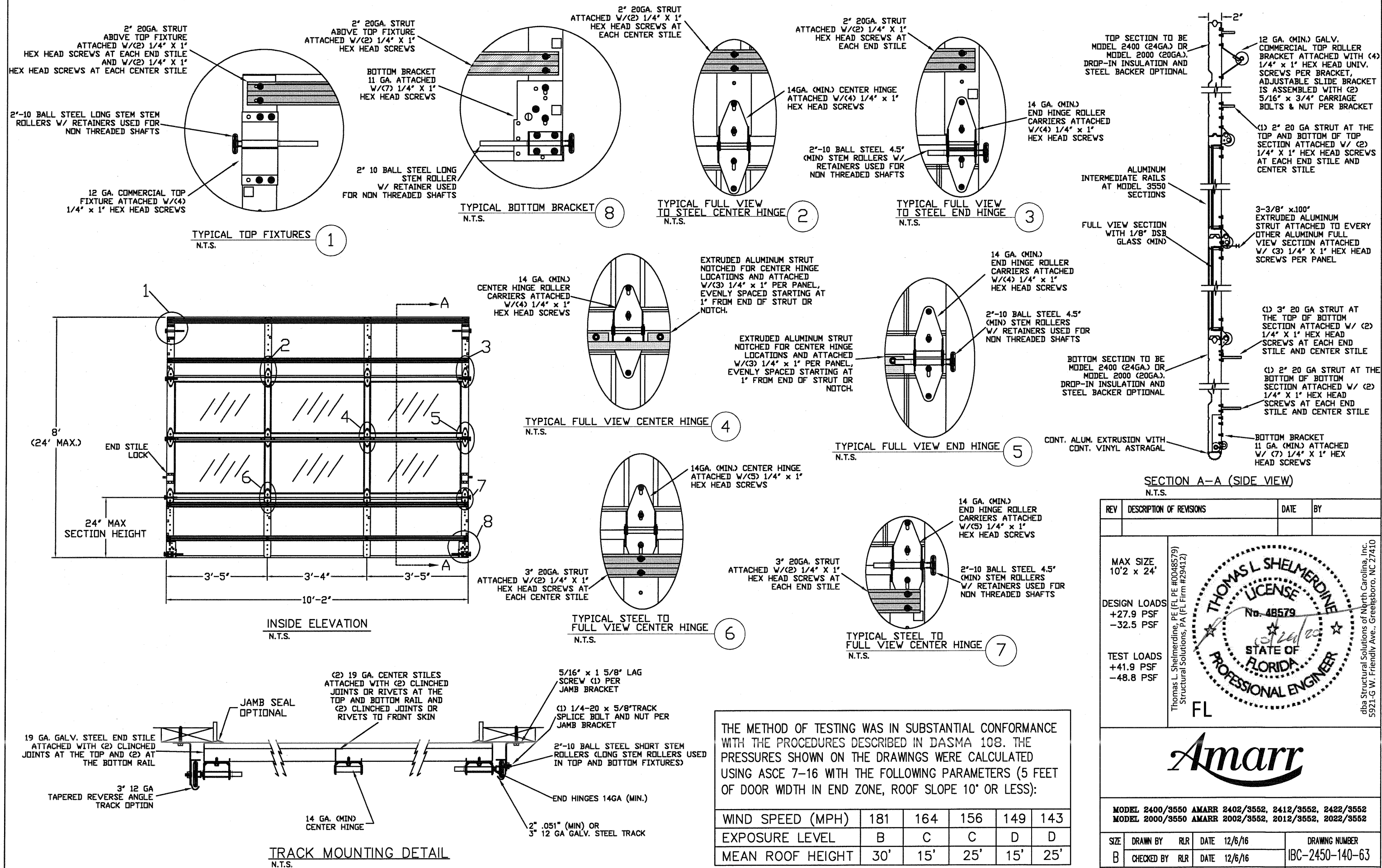
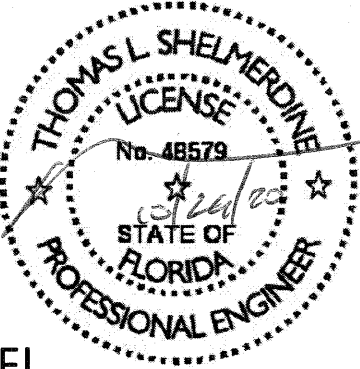
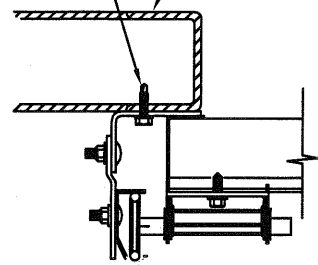




REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 10'2 x 24' DESIGN LOADS +27.9 PSF -32.5 PSF TEST LOADS +41.9 PSF -48.8 PSF		Thomas L. Shelmerdine, PE (FL PE #00048579) Structural Solutions, PA (FL Firm #29412) FL  dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
			
MODEL 2400/3550 AMARR 2402/3552, 2412/3552, 2422/3552 MODEL 2000/3550 AMARR 2002/3552, 2012/3552, 2022/3552			
SIZE	DRAWN BY	RLR	DATE 12/6/16
B	CHECKED BY	RLR	DATE 12/6/16
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
DRAWING NUMBER			IBC-2450-140-63
SHEET 1 OF 3			

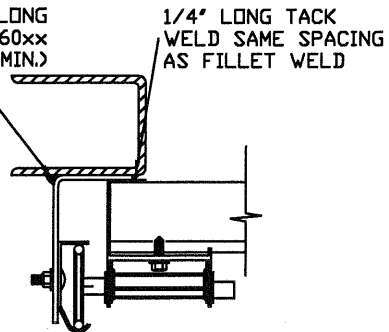
ITW BUILDDEX 1/4"-14 X 3/4" SELF-TAPPING SCREWS (TEKS) 12 GA. OR 3/16" STEEL (SEE BELOW)



12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6'
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2 AND 5

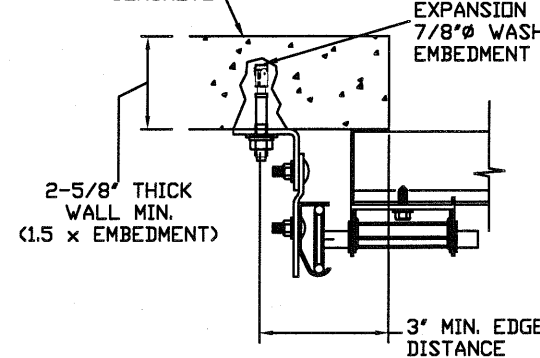
3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

1/8" NOM X 1" LONG
FILLET WELD (E60xx
ELECTRODES MIN.)



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

2000 PSI MIN.
CONCRETE

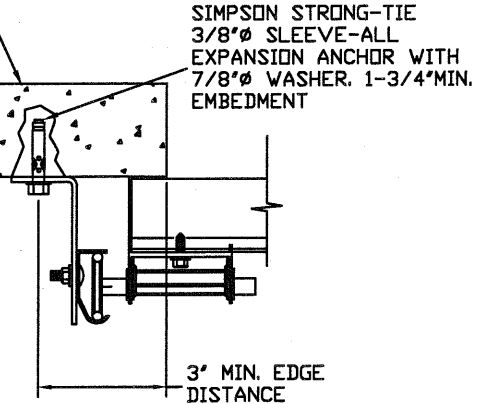


2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD -
6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

2000 PSI MIN.
CONCRETE



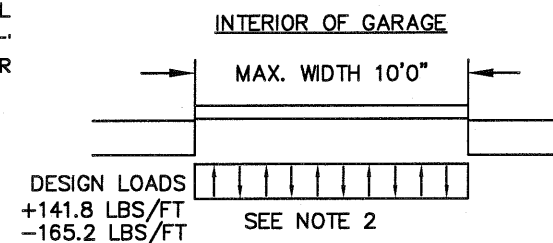
2-5/8" THICK
WALL MIN.
5" (EMBEDMENT)



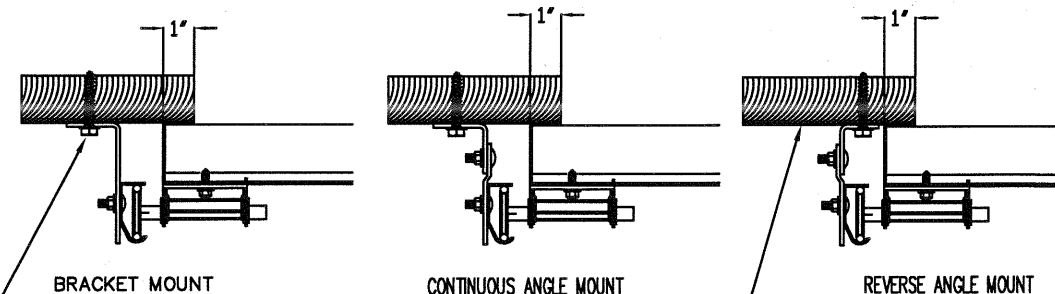
2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE
LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

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:
+141.8 LBS/FT & -165.2 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.021) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH HAVE (2) 2" 20GA STRUTS ON TOP STEEL SECTION, (1) 3-3/8" x.100" EXTRUDED ALUMINUM STRUT ON EVERY OTHER ALUMINUM SECTION, (1) 3" 20GA STRUT AND (1) 2" 20GA STRUT ON BOTTOM 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.

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.



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 10'2 x 24' DESIGN LOADS +27.9 PSF -32.5 PSF TEST LOADS +41.9 PSF -48.8 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 2400/3550 AMARR 2402/3552, 2412/3552, 2422/3552 MODEL 2000/3550 AMARR 2002/3552, 2012/3552, 2022/3552			
SIZE	DRAWN BY	RLR	DATE 12/6/16
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2450-140-63 SHEET 2 OF 3

TABLE 1

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	31.2	36.3
6'	2"	37"	-	30.3	35.3
6'	4"	38"	-	29.5	34.4
6'	6"	39"	-	28.8	33.5
6'	8"	40"	-	28.1	32.7
6'	10"	41"	-	27.4	31.9
7'	0"	42"	-	26.7	31.1
7'	2"	43"	-	26.1	30.4
7'	4"	44"	-	25.5	29.7
7'	6"	45"	-	24.9	29.1
7'	8"	46"	-	24.4	28.4
7'	10"	47"	-	23.9	27.8
8'	0"	48"	-	23.4	27.2
8'	2"	49"	-	22.9	26.7
8'	4"	50"	-	22.4	26.1
8'	6"	51"	-	22.0	25.6
8'	8"	52"	-	21.6	25.1
8'	10"	53"	-	21.2	24.7
9'	0"	54"	-	20.8	24.2
9'	2"	37"	73"	30.7	35.8
9'	4"	36"	76"	29.5	34.4
9'	6"	37"	77"	29.2	34.0
9'	8"	38"	78"	28.8	33.5
9'	10"	39"	79"	28.4	33.1
10'	0"	40"	80"	28.1	32.7
10'	2"	41"	81"	27.9	32.5

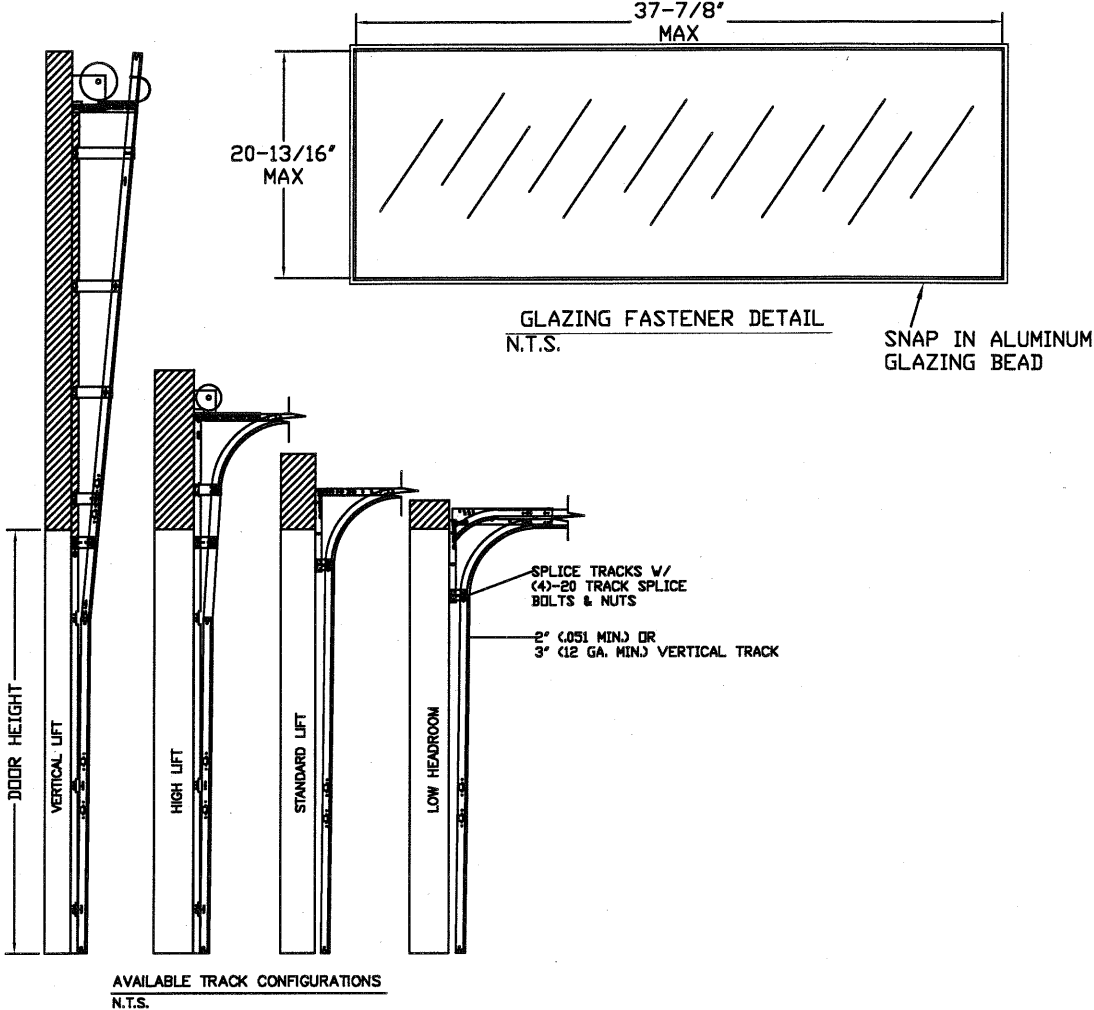
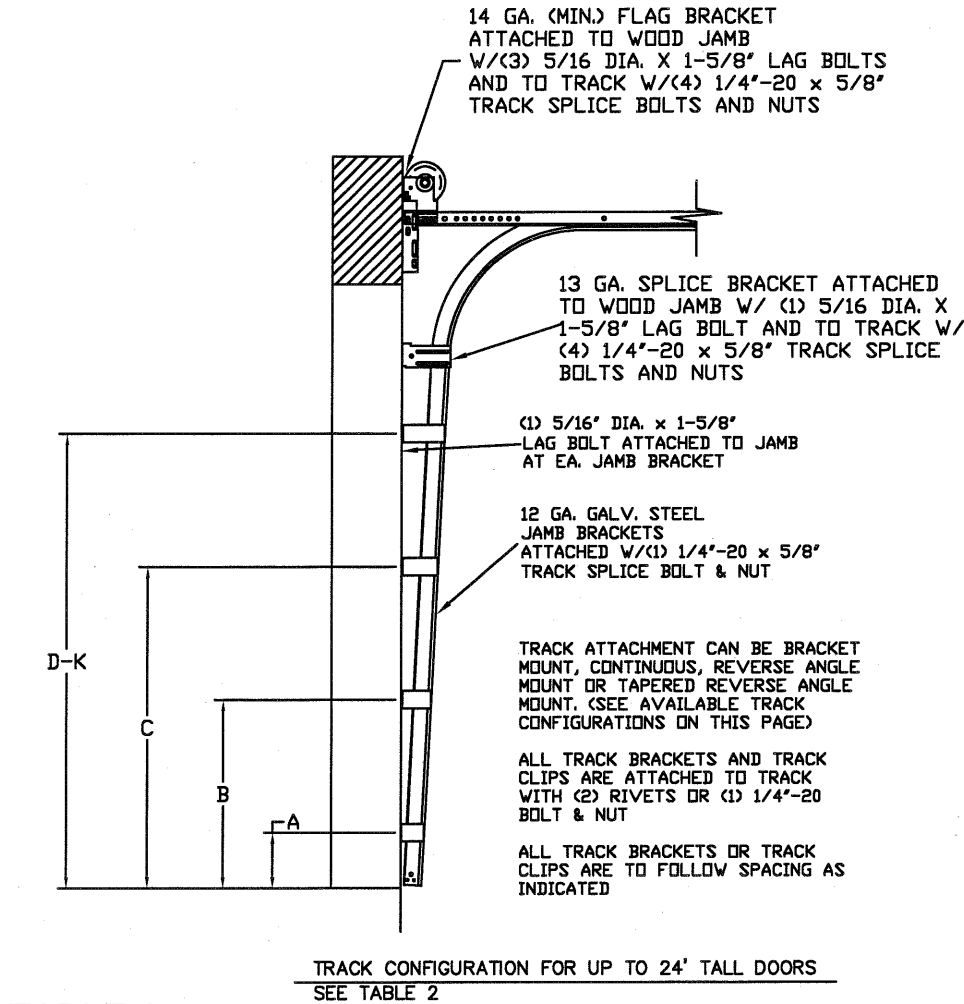


TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT											TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	
7'	0"	10"	34"	58"									76"
7'	6"	10"	34"	58"									82"
8'	0"	10"	34"	58"									88"
8'	6"	10"	34"	58"	82"								94"
9'	0"	10"	34"	58"	82"								100"
9'	6"	10"	34"	58"	82"								106"
10'	0"	10"	34"	58"	82"								112"
11'	0"	10"	34"	58"	82"	106"							124"
12'	0"	10"	34"	58"	82"	106"							136"
13'	0"	10"	34"	58"	82"	106"	130"						148"
14'	0"	10"	34"	58"	82"	106"	130"						160"
15'	0"	10"	34"	58"	82"	106"	130"	154"					172"
16'	0"	10"	34"	58"	82"	106"	130"	154"					184"
17'	0"	10"	34"	58"	82"	106"	130"	154"	178"				196"
18'	0"	10"	34"	58"	82"	106"	130"	154"	178"				208"
19'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24'	0"	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
10'2 x 24'

DESIGN LOADS
+27.9 PSF
-32.5 PSF

TEST LOADS
+41.9 PSF
-48.8 PSF

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

Amarr

MODEL 2400/3550 AMARR 2402/3552, 2412/3552, 2422/3552
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ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 3 OF 3