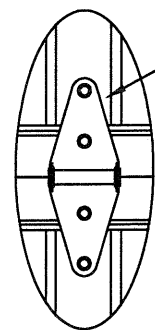


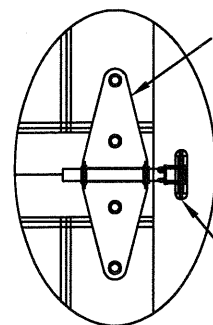
TYPICAL TOP FIXTURES
N.T.S.

1



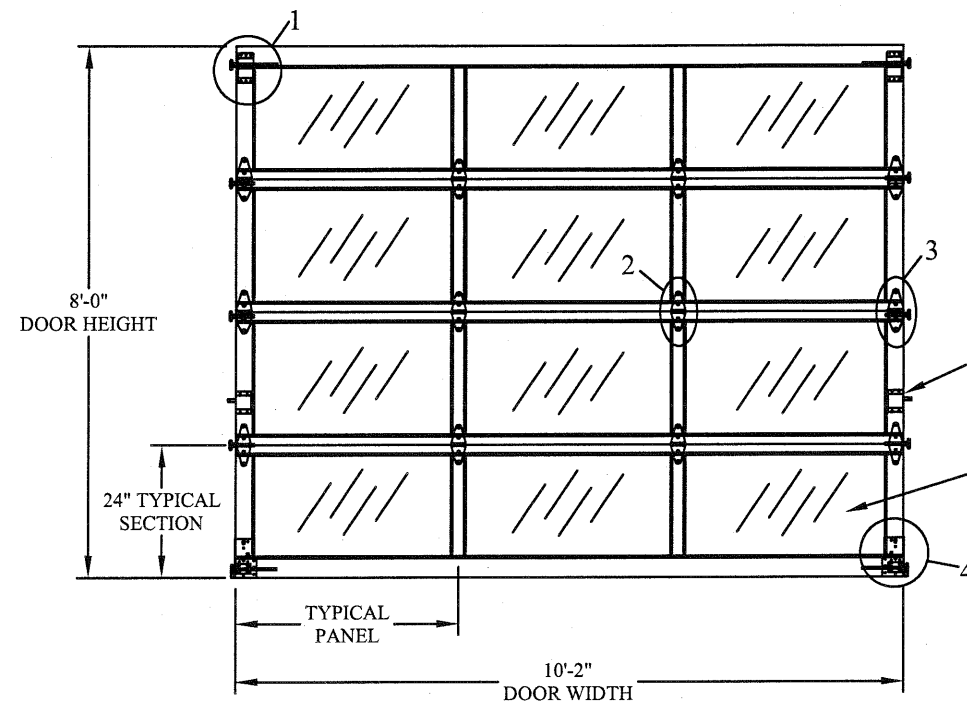
TYPICAL CENTER HINGE
N.T.S.

2



TYPICAL END HINGE
N.T.S.

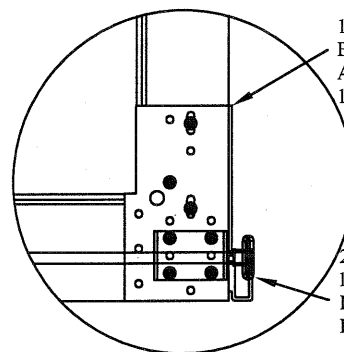
3



DOOR INTERIOR ELEVATION
N.T.S.

COMMERCIAL
SLIDE LOCKS
(2 PLACES)

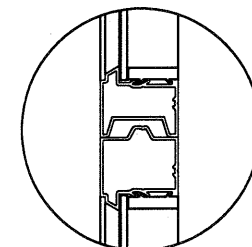
GLAZING INFILL
1/8\"/>



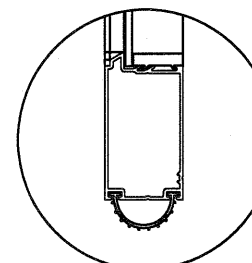
TYPICAL BOTTOM BRACKET
N.T.S.

4

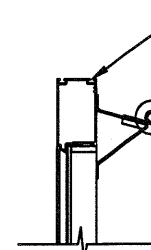
2\"/>



TONGUE AND GROOVE
WEATHERTIGHT SEAL



3-1/2\"/>

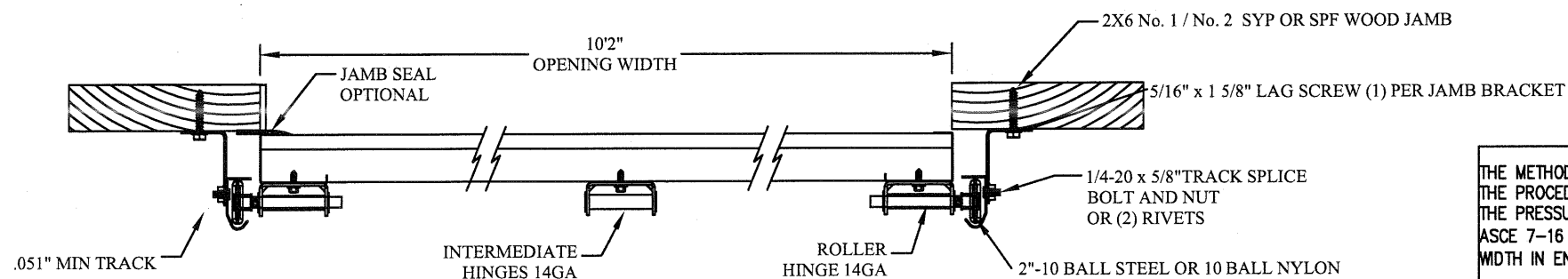


6063 T6 ALUMINUM
.050\"/>

MINIMUM 14 GA
GRADUATED ROLLER
HINGES

2\"/>

ALUMINUM SECTION
PROFILE
N.T.S.



2\"/>

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN ASTM E330, 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 END ZONE, ROOF SLOPE 10° OR LESS):

WIND SPEED (MPH)	175	159	151	144	138
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY
A			

MAX SIZE
10'2\"/>

DESIGN LOADS
+26.2 PSF
-30.6 PSF

TEST LOADS
+39.3 PSF
-45.9 PSF

THOMAS L. SHELDERDINE
LICENSE
No. 48679
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

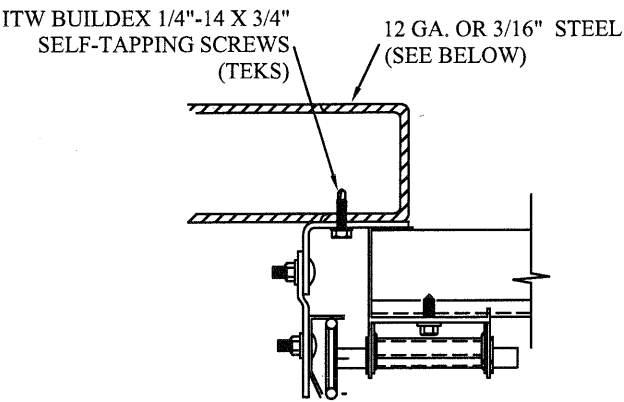
MODEL 3550HD AMARR 3552
MODEL VISTA AMARR 3552

SIZE B	DRAWN BY RLR	DATE 12/06/17	DRAWING NUMBER IBC-3610-136-00
	CHECKED BY RLR	DATE 12/07/17	

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

SHEET 1 OF 3

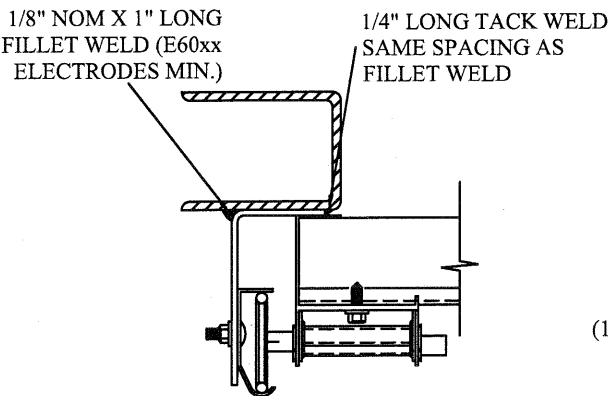
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

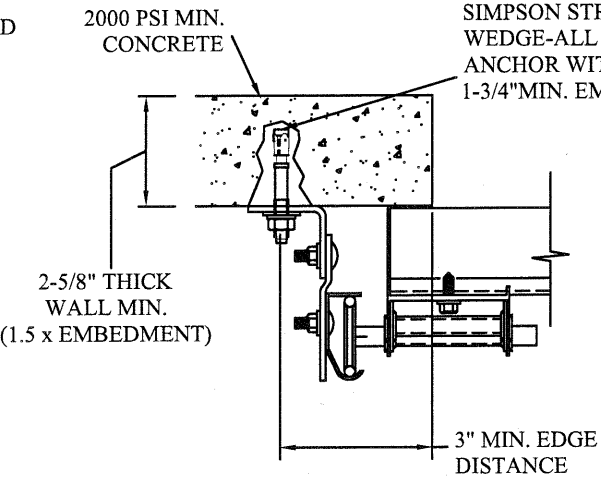
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 20" O.C.
REFER TO NOTES: 1, 2 AND 5

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



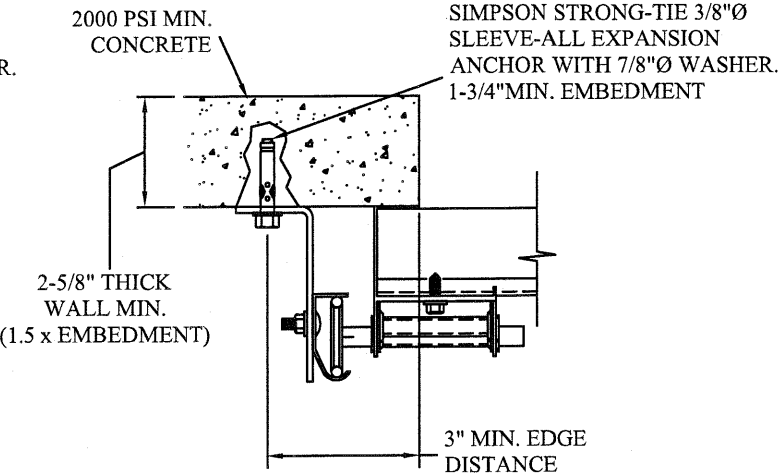
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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



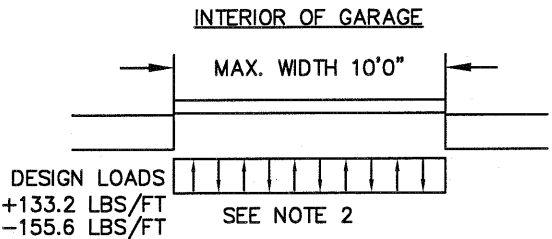
CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

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



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 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

SPECIFICATIONS AND NOTES

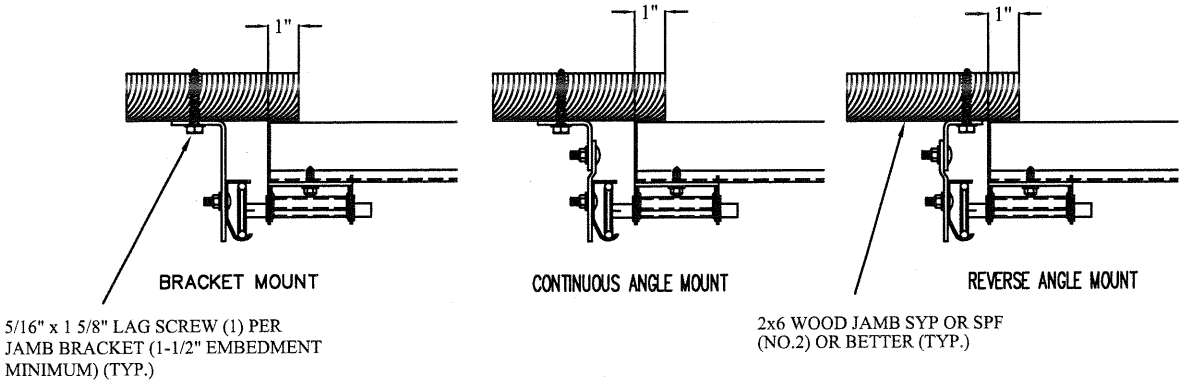
- ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL J RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR
- EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +133.2 LBS/FT & -155.6 LBS/FT.
- DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

NOTES:

- ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
- 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.
- MIN. EGDE DISTANCE OF 3" REQUIRED.
- USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
- MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
- ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
- FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
- 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



REV	DESCRIPTION OF REVISIONS	DATE	BY
A			

MAX SIZE
10'2" x 24'

DESIGN LOADS
+26.2 PSF
-30.6 PSF

TEST LOADS
+39.3 PSF
-45.9 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 3550HD AMARR 3552
MODEL VISTA AMARR 3552

SIZE	DRAWN BY	RLR	DATE	12/06/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/07/17	IBC-3610-136-00

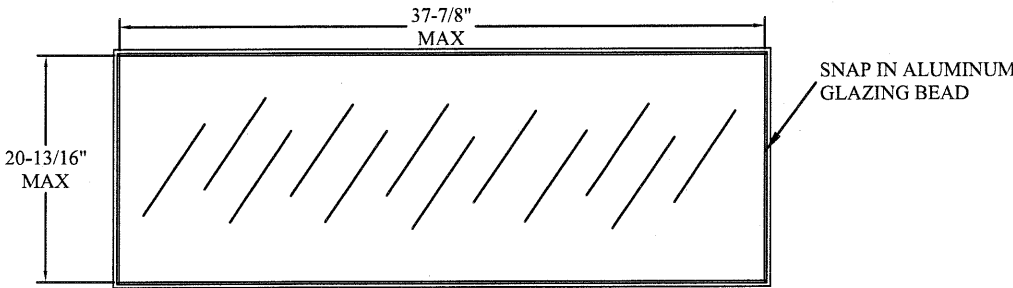
ENTREMATICS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 3

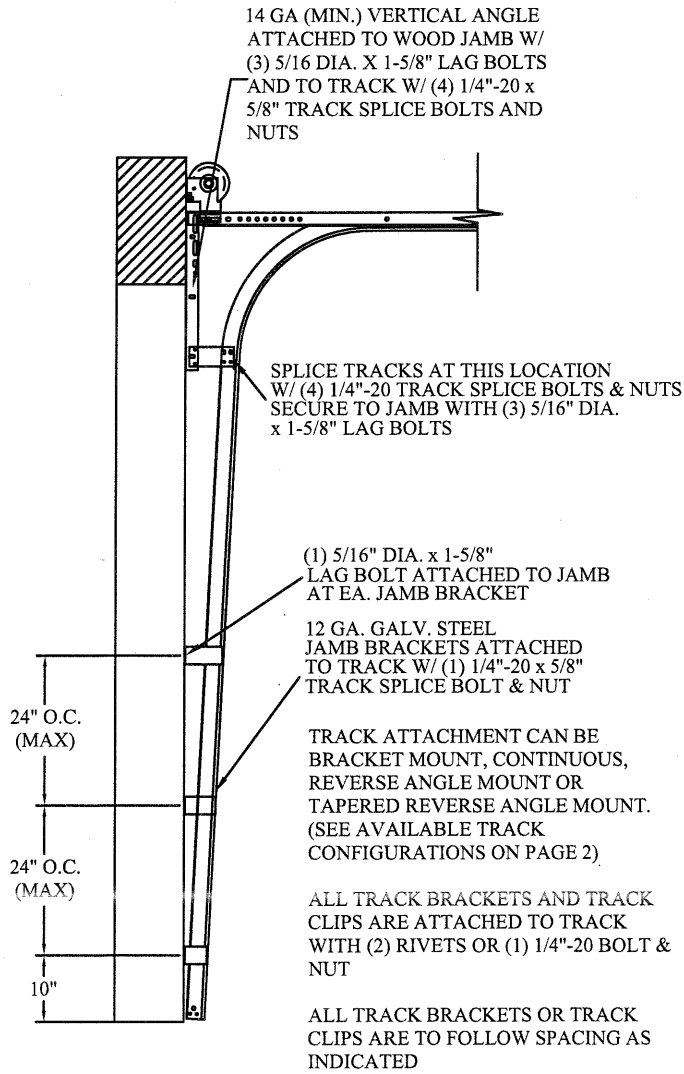
TABLE 1

DOOR	TRACK ATTACHMENT											SPLICE
HEIGHT	A	B	C	D	E	F	G	H	I	J	K	S
7'	10"	38"	58"									76"
8'	10"	38"	58"									88"
9'	10"	38"	58"	82"								100"
10'	10"	38"	58"	82"								112"
11'	10"	38"	58"	82"	106"							124"
12'	10"	38"	58"	82"	106"							136"
13'	10"	38"	58"	82"	106"	130"						148"
14'	10"	38"	58"	82"	106"	130"						160"
15'	10"	38"	58"	82"	106"	130"	154"					172"
16'	10"	38"	58"	82"	106"	130"	154"					184"
17'	10"	38"	58"	82"	106"	130"	154"	178"				196"
18'	10"	38"	58"	82"	106"	130"	154"	178"				208"
19'	10"	38"	58"	82"	106"	130"	154"	178"	202"			220"
20'	10"	38"	58"	82"	106"	130"	154"	178"	202"			232"
21'	10"	38"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22'	10"	38"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23'	10"	38"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24'	10"	38"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

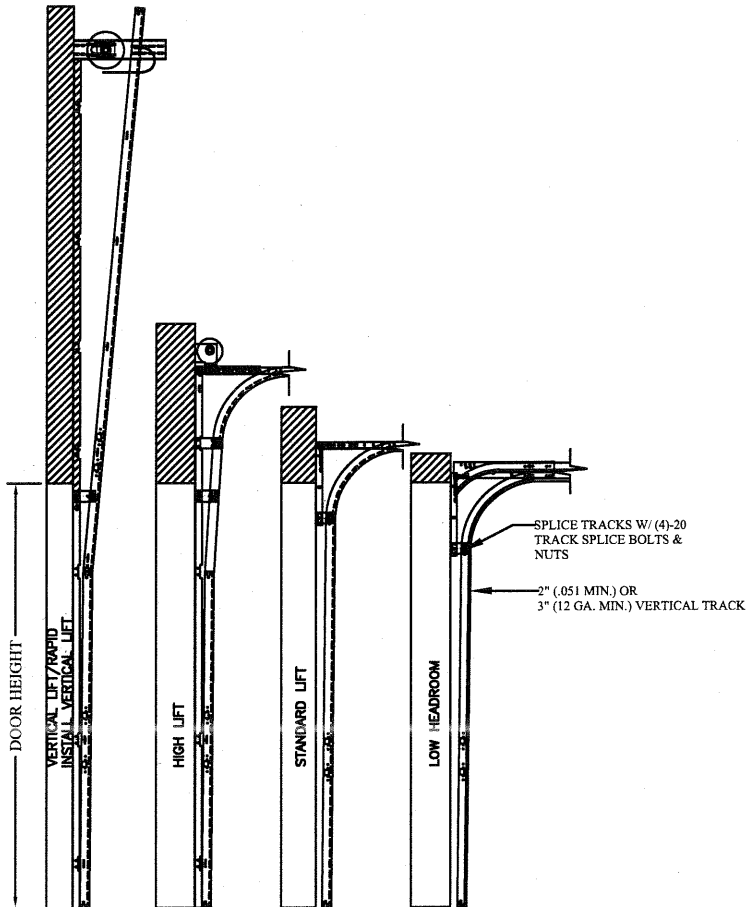
ALL TRACK ATTACHMENTS +/- 2" WITH SYP OR SPF NO.2 OR BETTER



GLAZING FASTENER DETAIL
N.T.S.



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
N.T.S.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 2

Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
9'	4"	36"	76"	27.7	32.4
9'	6"	37"	77"	27.4	32.0
9'	8"	38"	78"	27.0	31.6
9'	10"	39"	79"	26.7	31.2
10'	0"	40"	80"	26.3	30.8
10'	2"	41"	81"	26.2	30.6

REV	DESCRIPTION OF REVISIONS	DATE	BY
A			

MAX SIZE
10'2" x 24'

DESIGN LOADS
+26.2 PSF
-30.6 PSF

TEST LOADS
+39.3 PSF
-45.9 PSF

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

SHEET 3 OF 3