

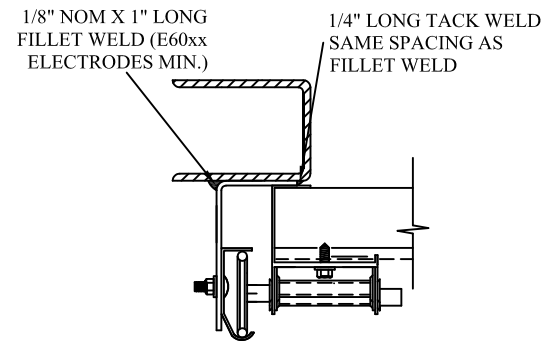
ITW BUILDDEX 1/4"-14 X 3/4"
SELF-TAPPING SCREWS
(TEKS)

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

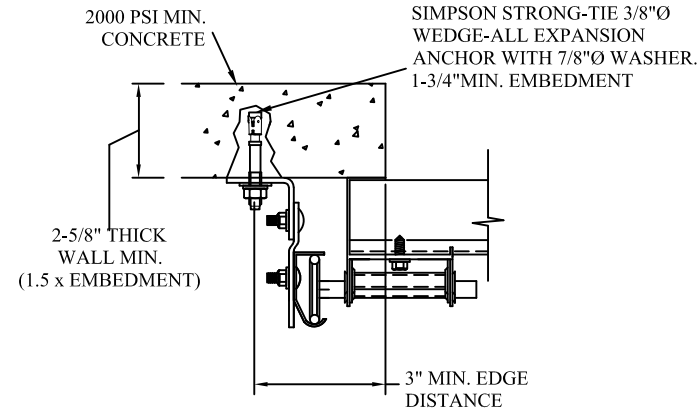
CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

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

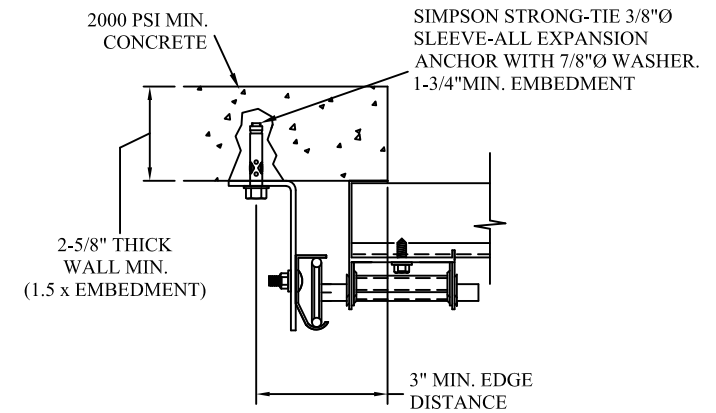
3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



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 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



2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 16" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

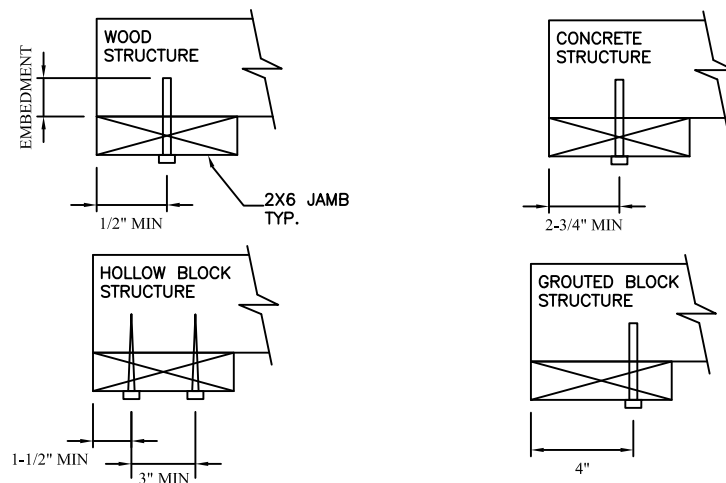
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS
THEN 20" O.C. (1 1/2" EMBEDMENT)

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 18" 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)

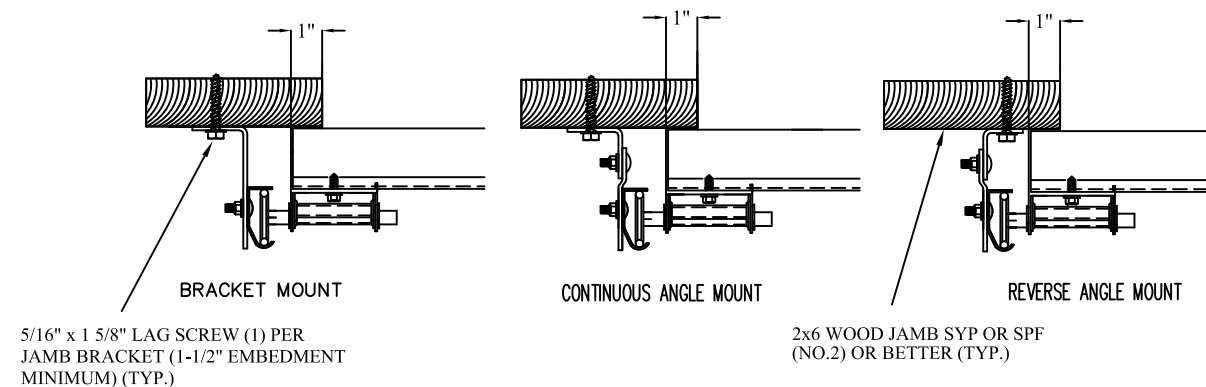
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

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 22" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

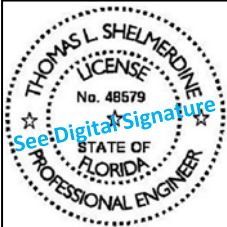
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

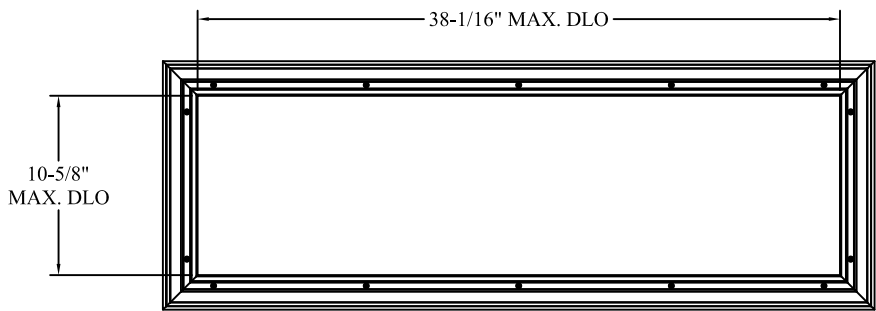


FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL



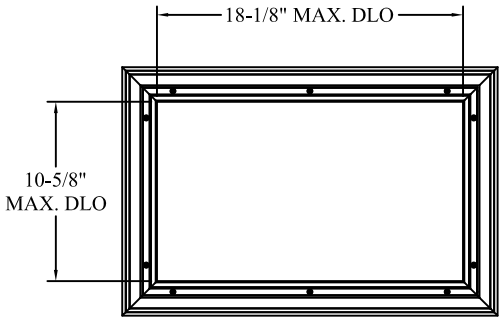
- NOTES:**
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
 3. MIN. EGDE DISTANCE OF 3" REQUIRED.
 4. USE WASHERS PROVIDED BY THE ANCHOR 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.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'4" x 24' DESIGN LOADS +49.1 PSF -57.4 PSF TEST LOADS +73.7 PSF -86.1 PSF LARGE MISSILE IMPACT RESISTANCE	 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 2442 AMARR 2042			
SIZE	DRAWN BY	DRC	DATE
B	CHECKED BY	RLR	DATE
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-4209-185-15-1 SHEET 2 OF 4

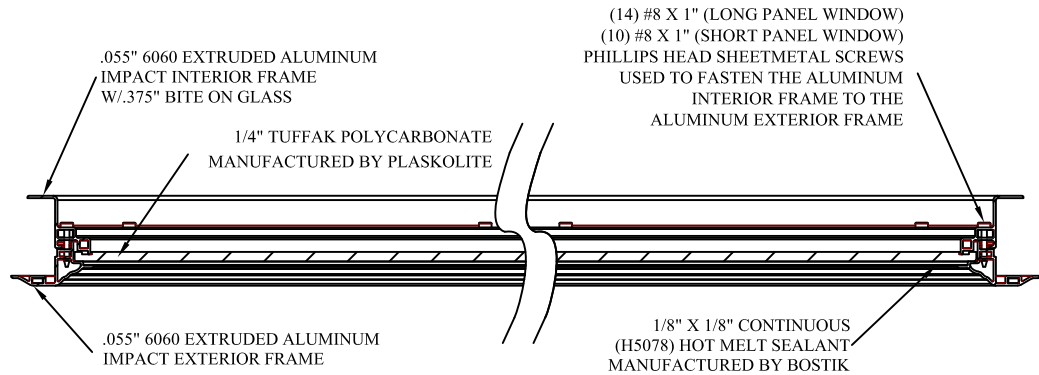


LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.

LONG PANEL GLAZING ONLY AVAILABLE IN CERTAIN DOOR WIDTHS

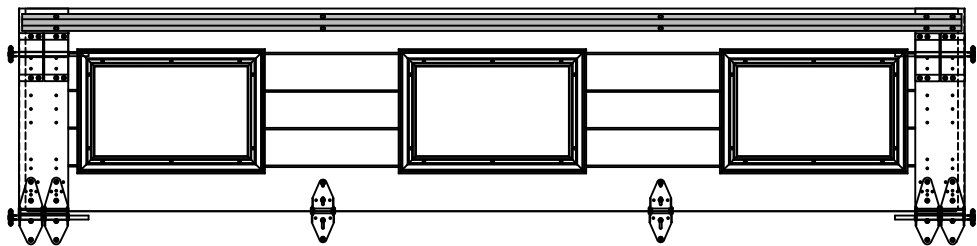


SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.

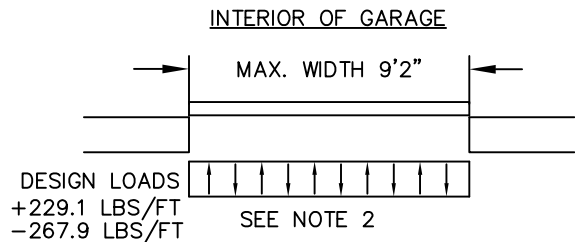


SECTION B-B IMPACT WINDOW DETAIL
N.T.S.

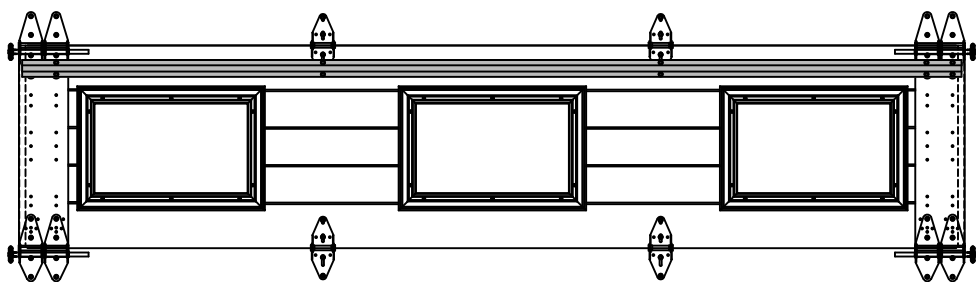
TOP SECTION



OPTIONAL GLAZED SECTION W/SHORT PANEL IMPACT WINDOWS
N.T.S.



INTERMEDIATE SECTION



OPTIONAL GLAZED SECTION W/SHORT PANEL IMPACT WINDOWS
N.T.S.

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: +229.1 LBS/FT & -267.9 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR UP TO 24' TALL FOLLOW TABLE 3 STRUT SCHEDULE
5. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER 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.

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'4 x 24' DESIGN LOADS +49.1 PSF -57.4 PSF TEST LOADS +73.7 PSF -86.1 PSF LARGE MISSILE IMPACT RESISTANCE		 THOMAS L. SHELMERDINE 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 2442 AMARR 2042			
SIZE	DRAWN BY	DRC	DATE
B	CHECKED BY	RLR	DATE
AMARR COMPANY			
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

DATE	06/25/24
DATE	08/08/24

DRAWING NUMBER	IBC-4209-185-15-I
SHEET	3 OF 4

TABLE 1

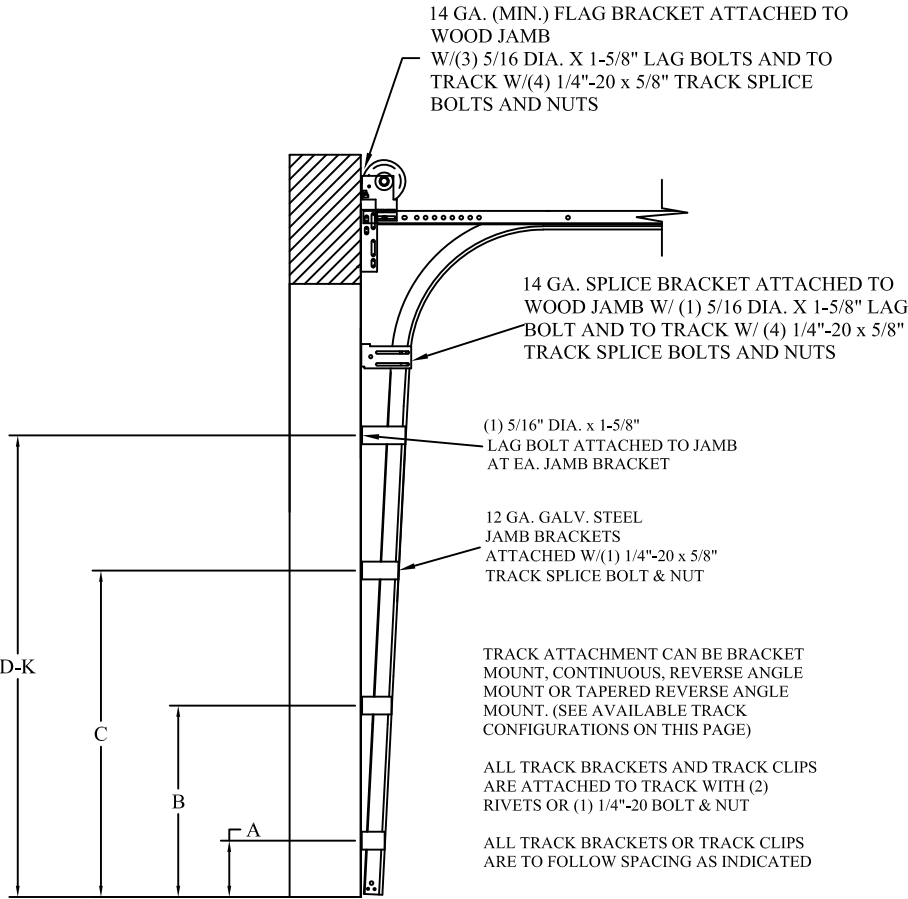
Section Width (ft)		Center Stile Locations		Max Design Loads Allowed	
		1st (in)	2nd (in)	Positive (PSF)	Negative (PSF)
6'	0"	36"	-	51.5	60.2
6'	2"	37"	-	50.1	58.6
6'	4"	38"	-	48.8	57.1
6'	6"	39"	-	47.6	55.6
6'	8"	40"	-	46.4	54.2
6'	10"	41"	-	45.2	52.9
7'	0"	42"	-	44.2	51.6
7'	2"	43"	-	43.1	50.4
7'	4"	44"	-	42.1	49.3
7'	6"	45"	-	41.2	48.2
7'	8"	46"	-	40.3	47.1
7'	10"	47"	-	39.4	46.1
8'	0"	48"	-	38.6	45.2
8'	2"	49"	-	37.8	44.2
8'	4"	50"	-	37.1	43.4
8'	6"	51"	-	36.4	42.5
8'	8"	52"	-	35.7	41.7
8'	10"	53"	-	35.0	40.9
9'	0"	54"	-	34.3	40.1
9'	2"	55"	-	33.7	39.4
9'	2"	37"	73"	49.7	58.1
9'	4"	56"	-	33.1	38.7
9'	4"	36"	76"	49.1	57.4

LONG PANEL GLAZING ONLY AVAILABLE IN SHADED SIZES

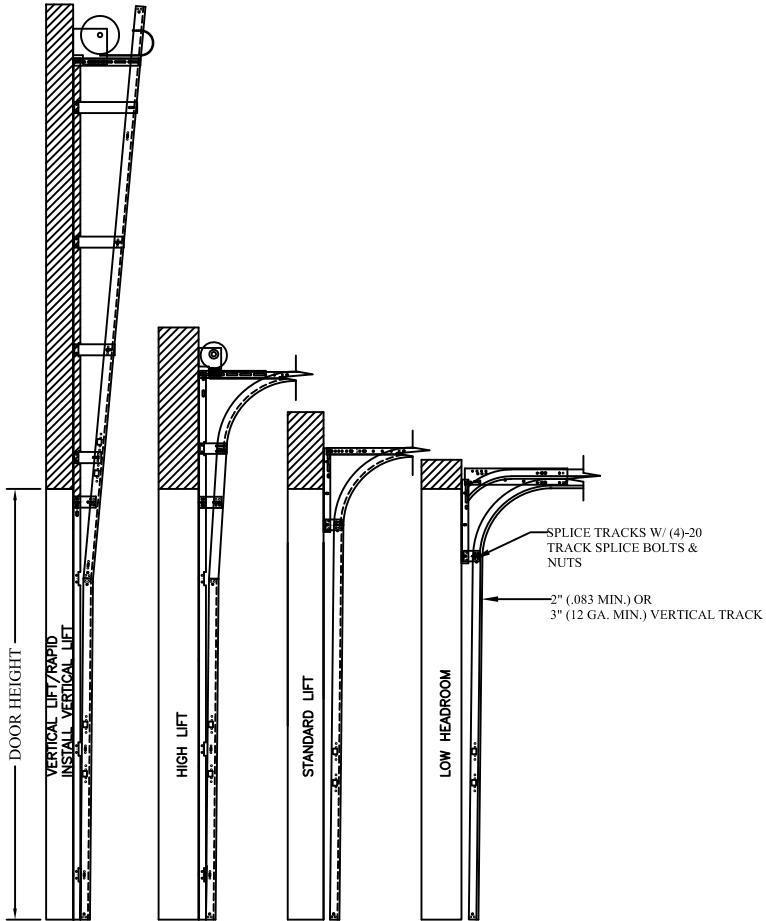
TABLE 2

DOOR HEIGHT		TRACK ATTACHMENT																						
		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"	3.5"	10"	22"	34"	46"	58"																	
7'	6"	3.5"	10"	22"	34"	46"	58"	70"																
8'	0"	3.5"	10"	22"	34"	46"	58"	70"																
8'	6"	3.5"	10"	22"	34"	46"	58"	70"	82"															
9'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"															
9'	6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"														
10'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"														
11'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"													
12'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"												
13'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22'	0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
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"	
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"

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



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



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

TABLE 3

SECTION	
12TH	3"
11TH	3"
10TH	3"
9TH	3"
8TH	3"
7TH	3"
6TH	3"
5TH	3"
4TH	3"
3RD	3"
2ND	3"
BOTTOM	3"

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'4 x 24' DESIGN LOADS +49.1 PSF -57.4 PSF TEST LOADS +73.7 PSF -86.1 PSF LARGE MISSILE IMPACT RESISTANCE		THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER See Digital Signature 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	
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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105		IBC-4209-185-15-I	
		SHEET 4 OF 4	