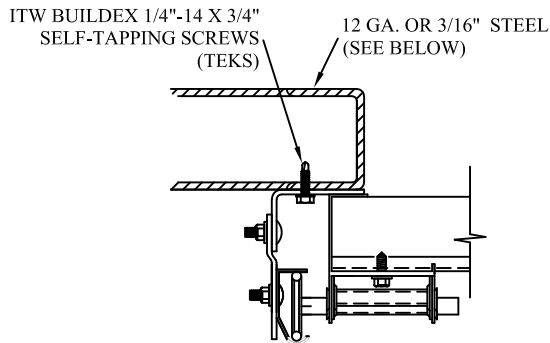


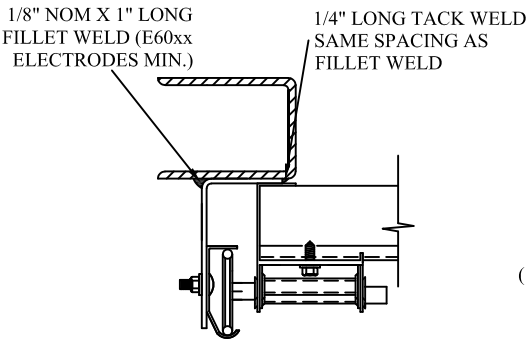
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

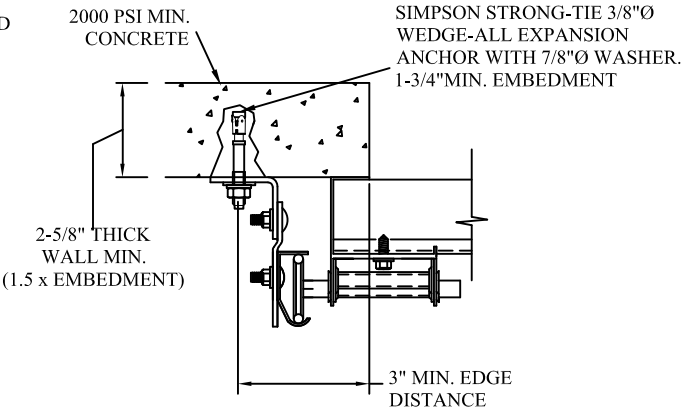
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

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



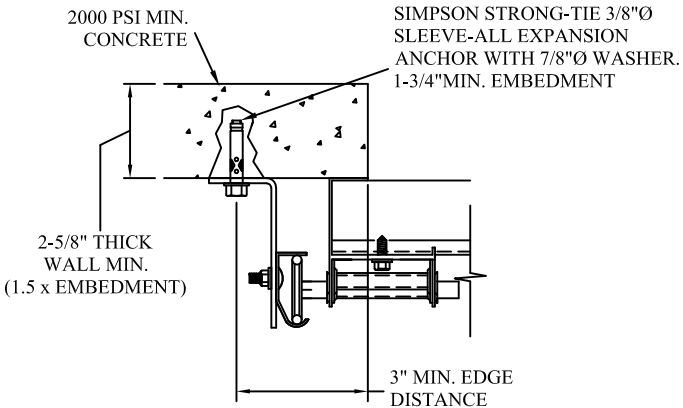
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

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

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: +110.9 LBS/FT AND -130.2 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 20 GA. (.033) MIN. EXTERIOR SKIN ROLLED FORMED, GALVANIZATION W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24' HIGH USE (1) 2" 20GA STRUTS ON INTERMEDIATE AND BOTTOM SECTIONS.
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)

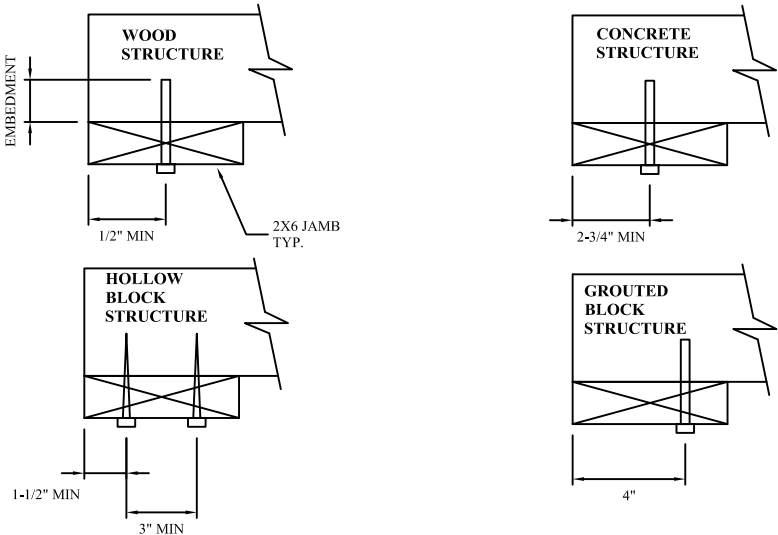
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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)

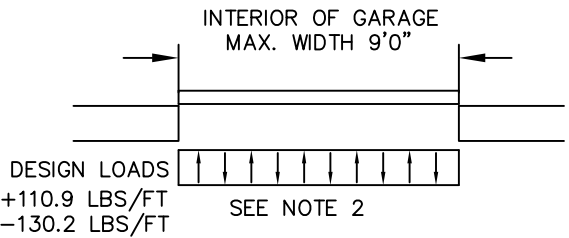
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

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



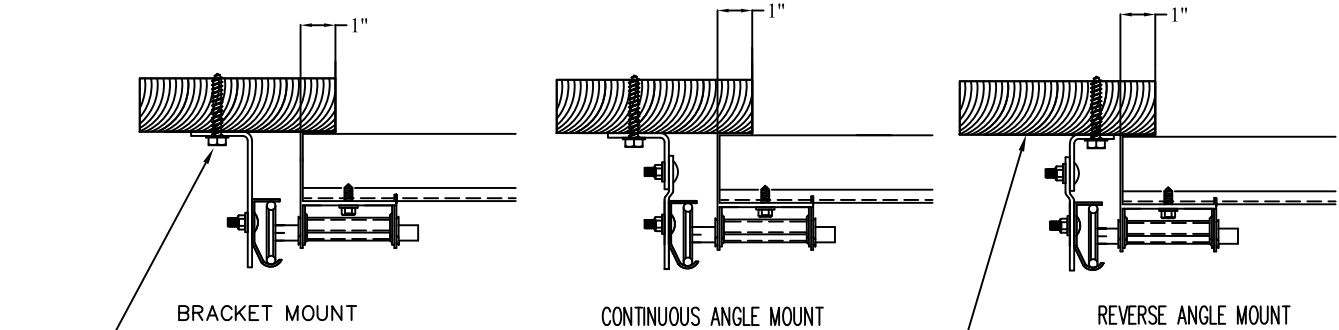
NOTES:

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.



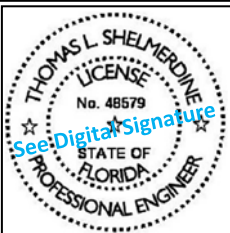
TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 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
(NO.2) OR BETTER (TYP.)



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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

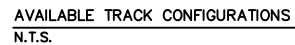
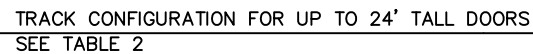
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AMARR 2002, 2012, 2022

SIZE	DRAWN BY	RLR	DATE	8/1/17	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	8/1/17	IBC-2009-130-11-I
AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 2 OF 3

Section	Center Stile Locations		Max Design Loads Allowed	
	Width (ft)	1st (in)	2nd (in)	Positive (PSF)
6'0	36"		24.5	28.7
6'2	37"		23.8	28.0
6'4	23"	53"	33.3	39.1
6'6	24"	54"	32.7	38.3
6'8	25"	55"	32.1	37.6
6'10	26"	56"	31.5	37.0
7'0	27"	57"	30.9	36.3
7'2	28"	58"	30.4	35.7
7'4	27"	61"	28.9	33.9
7'6	28"	62"	28.4	33.4
7'8	29"	63"	28.0	32.9
7'10	30"	64"	27.6	32.3
8'0	31"	65"	27.1	31.8
8'2	32"	66"	26.7	31.4
8'4	32"	68"	25.9	30.4
8'6	33"	69"	25.6	30.0
8'8	34"	70"	25.2	29.6
8'10	35"	71"	24.8	29.2
9'0	36"	72"	24.5	28.7
9'2	37"	73"	24.2	28.4



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

DOOR HEIGHT		TRACK ATTACHMENT													TYPICAL SPLICE
		A	B	C	D	E	F	G	H	I	J	K	L	M	
7'	0"	3.5"	10"	34"	58"										76"
7'	6"	3.5"	10"	34"	58"										82"
8'	0"	3.5"	10"	34"	58"										88"
8'	6"	3.5"	10"	34"	58"	70"									94"
9'	0"	3.5"	10"	34"	58"	70"									100"
9'	6"	3.5"	10"	34"	58"	70"	94"								106"
10'	0"	3.5"	10"	34"	58"	70"	94"								112"
11'	0"	3.5"	10"	34"	58"	70"	94"								124"
12'	0"	3.5"	10"	34"	58"	70"	94"	118"							136"
13'	0"	3.5"	10"	34"	58"	70"	94"	118"							148"
14'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"						160"
15'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"						172"
16'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"					184"
17'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"					196"
18'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"				208"
19'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"				220"
20'	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"	214"			232"
21	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"	214"			244"
22	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"	214"	238"		256"
23	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"	214"	238"		268"
24	0"	3.5"	10"	34"	58"	70"	94"	118"	142"	166"	190"	214"	238"	262"	280"

REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 9'2 x 24' DESIGN LOADS +24.2 PSF -28.4 PSF TEST LOADS +36.3 PSF -42.6 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 2002, 2012, 2022			
SIZE	DRAWN BY	RLR	DATE 8/1/17
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AMARR COMPANY 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IBC-2009-130-11-1 SHEET 3 OF 3