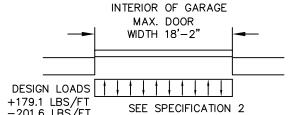
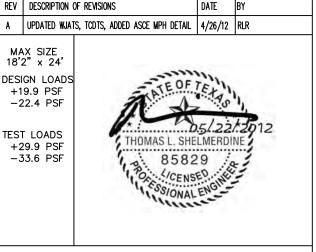


- 1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD
- 2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +179.1 LBS/FT & -201.6 LBS/FT
- 3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DODR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLFORMED.
- 5. DOORS UP TO 24'0" HIGH USE (1) 4 1/2" R-TRUSS PER SECTION AND (1) 3" 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



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN ASTM E330, ANSI/DASMA 108, ASTM E 1886, ASTM E 1996 AND ASTM F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR

WIND SPEED (MPH)	120	108	103	98	94
EXPOSURE LEVEL	В	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'



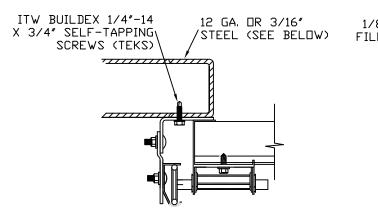


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MODEL 2400 (24 GA) MODEL 2000 (20 GA)

		1110	DLL	~000	(~0	G21)
SIZE	DRAWN BY	SKW	DATE	10/15/07		DRAWING NUMBER
В	CHECKED BY	BHG	DATE	10/16/07		IBC-2418-120-24

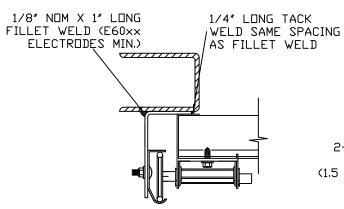
### TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

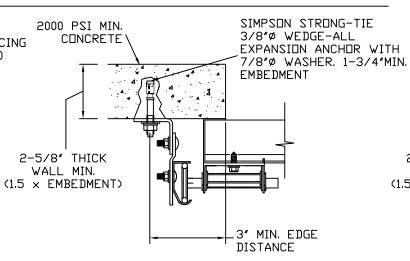
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 3"
FROM ENDS AND 12" D.C.
REFER TO NOTES: 1, 2 AND 5

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



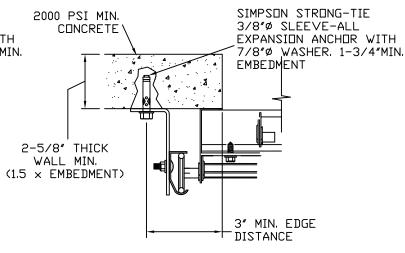
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

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

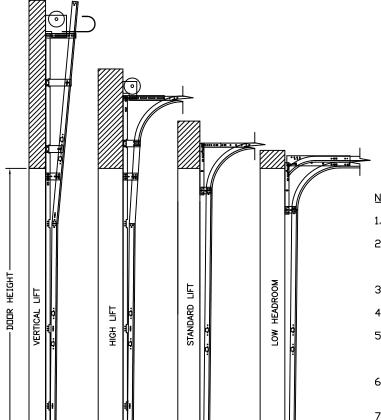
2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD 6" FROM ENDS AND 18" D.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



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



2" (.063 MIN.) DR 3" (12 GA. MIN.) VERTICAL TRACK

AVAILABLE TRACK CONFIGURATIONS N.T.S.

#### 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 INSPECTOR 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.

#### TABLE 1

DOOR		TRACK ATTACHMENT										SPLICE
HEIGHT	Α	В	С	D	Е	F	G	Ι	ı	J	K	S
7	10"	38"	*57"									76"
8	10"	34"	58"									88"
g	10"	34"	58"	82"								100"
10'	10"	34"	58"	82"								112"
11'	10"	34"	58"	82"	106"							124"
12'	10"	34"	58"	82"	106"							136"
13'	10"	34"	58"	82"	106"	130'						148"
14'	10"	34"	58"	82"	106"	130"						160"
15'	10"	34"	58"	82"	106"	130'	154"					172"
16	10"	34"	58"	82"	106"	130'	154"					184"
17'	10"	34"	58"	82"	106"	130'	154"	178"				196"
18'	10"	34"	58"	82"	106"	130'	154"	178"				208"
19	10"	34"	58"	82"	106"	130'	154"	178"	202"			220"
20'	10"	34"	58"	82"	106"	130'	154"	178"	202"			232"
21'	10"	34"	58"	82"	106"	130'	154"	178"	202"	226'		244"
22'	10"	34"	58"	82"	106"	130'	154"	178"	202"	226'		256"
23'	10"	34"	58"	82"	106"	130'	154"	178"	202"	226'	250'	268"
24'	10"	34"	58"	82"	106"	130'	154"	178"	202"	226'	250'	280"
* Field Installed												

REV	DESCRIPTION	OF REVISIONS	DATE	BY
A	UPDATED WJA	TS, TCDTS, ADDED ASCE MPH DETAIL	4/26/12	RLR
	X SIZE 2" x 24'			
+1	GN LOADS 9.9 PSF 22.4 PSF	ATE OF	Etas	1),
+2	LOADS 19.9 PSF 13.6 PSF	THOMAS L. SHE		.2012 NE.

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MODEL 2400 (24 GA) MODEL 2000 (20 GA)

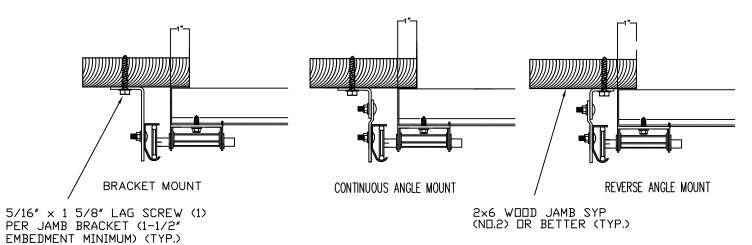
	SIZE	DRAWN BY SKW		DATE 10/15/07			DRAWING NUMBER				
	В	CHECKED BY	BHG	DATE	10/16/07		IBC-2	241	8–	120-24	
Г	ENGIN	EER: THOMAS L	. SHEL	MERDINE	P.E. LIC. No.	0048579	SHEET	2	0F	3	

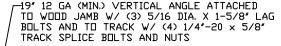
#### TABLE 2

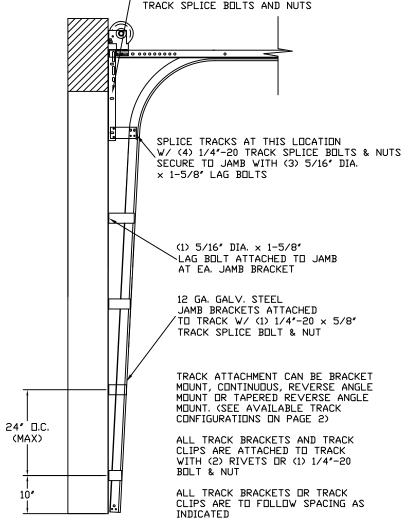
Sect	tion		Center Stile Locations Max Design Loads							
Wic	dth		(Mea	Allowed						
/f+\	(in)	1st	2nd	3rd	4th	5th	Positive	Negitive		
(ft)	(111)	(in)	(in)	(in)	(in)	(in)	(PSF)	(PSF)		
16'	4	50	74	98	122	146	22.1	24.9		
16'	6	51	75	99	123	147	21.9	24.6		
16'	8	52	76	100	124	148	21.6	24.4		
16'	10	53	77	101	125	149	21.4	24.1		
17'	0	39	81	123	165		20.7	23.3		
17'	2	40	82	124	166		20.7	23.3		
17'	4	41	83	125	167		20.7	23.3		
17'	6	42	84	126	168		20.6	23.2		
17'	8	43	85	127	169		20.4	23		
17'	10	44	86	128	170		20.2	22.7		
18'	0	43.5	86.5	129.5	172.5		20	22.6		
18'	2	44.5	87.5	130.5	173.5		19.9	22.4		

# TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE TABLE 1







TRACK CONFIGURATION FOR 6' UP TO 24' TALL DOORS

## WOOD JAMB ATTACHMENT TO STRUCTURE

<u> 2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE</u>

5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" D.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" D.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" D.C. (1 1/4" EMBEDMENT) ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" D.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" D.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" D.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" D.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 VOOD CONCRETE HOLLOW BLOCK GROUTED BLOCK STRUCTURE STRUCTURE STRUCTURE STRUCTURE 1/2" MIN 2-3/4" MIN 1-1/2" MIN 2X6 JAMB TYP. 3" MIN

