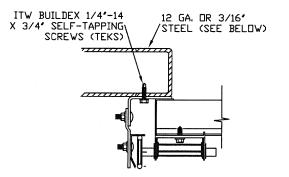


TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 22" 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)

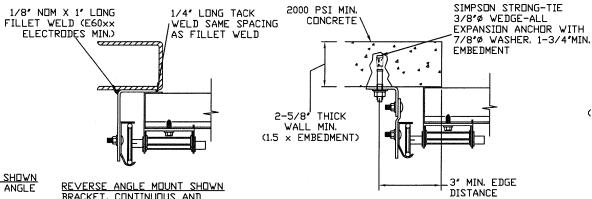
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE 5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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)

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



BRACKET, CONTINUOUS AND TAPERED ANGLE MOUNT AVAILABLE

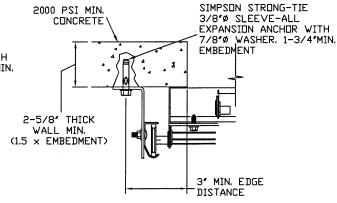
STEEL FRAMING 12GA OR BETTER 1590 LBS./IN. ALLOWABLE LOAD 6" FROM ENDS AND 24" O.C. REFER TO NOTES: 1, 2, 5, 6, 7, 8 CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN BRACKET, REVERSE AND TAPERED ANGLE MOUNT

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

NOTES:

EMBEDMENT MINIMUM) (TYP.)

- 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.



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

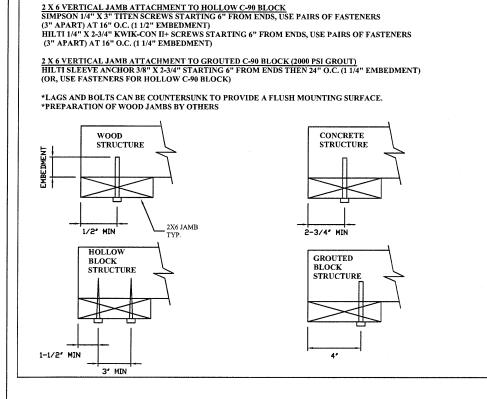
2000 PSI CONCRETE OR GREATER 336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6' FROM ENDS AND 18' O.C. REFER TO NOTES: 1, 2, 3, 4 AND 5

INTERIOR OF GARAGE

MAX. WIDTH 16'2"

SPECIFICATIONS AND NOTES

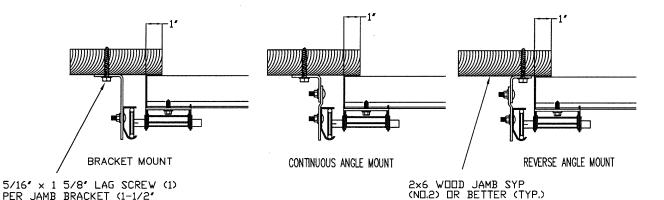
- 1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
- 2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +188.3 LBS/FT AND -212.6 LBS/FT
- 3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- 4. DOOR SECTIONS SHALL BE 25 GA. (.018) MIN. EXTERIOR SKIN ROLLED FORMED, GALVANIZATION W/ BAKED ON POLYESTER FINISH
- 5. DOORS UP TO 24' HIGH USE (1) 4 1/2" R-TRUSS PER SECTION AND (1) 3" 20GA STRUT ON TOP OF THE BOTTOM BRACKET.
- 6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

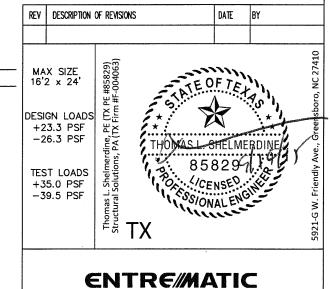




TRACK CONNECTION TO WOOD JAMB OPTIONS

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

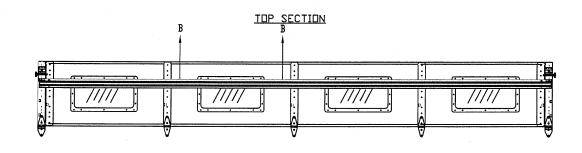


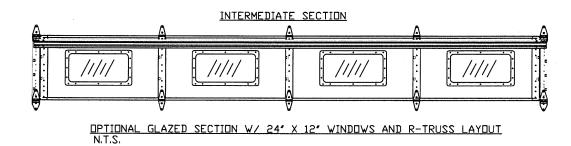


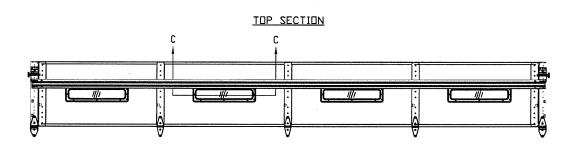
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

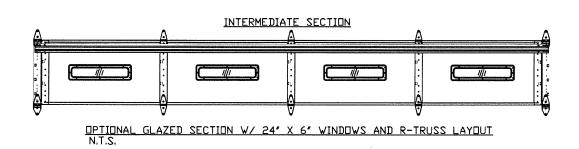
	A	MARR	MODEL MODEL	2400	(25GA) (24GA) (20GA)	
DRAWN BY	RS	DAT	E 1/22/	15		DRAV

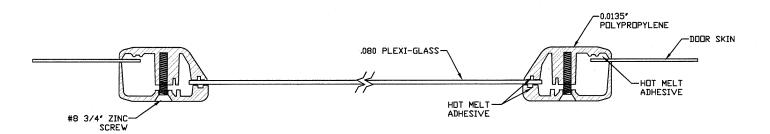
AWING NUMBER IBC-2516-130-24 CHECKED BY RLR DATE 1/22/15 SHEET 2 OF 4



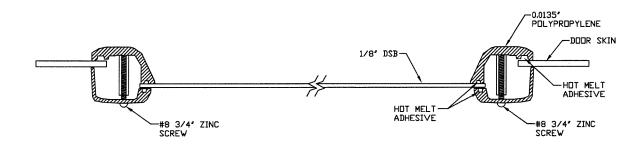




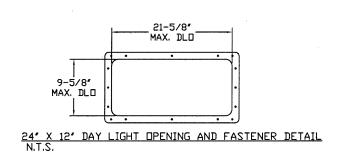


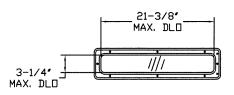


SECTION B-B 24" X 12" WINDOW DETAIL W/ .080 PLEXI-GLASS N.T.S.



SECTION C-C 24' X 6' WINDOW DETAIL W/ 1/8' DSB N.T.S. (ALSO AVAILABLE WITH .080' PLEXI-GLASS)





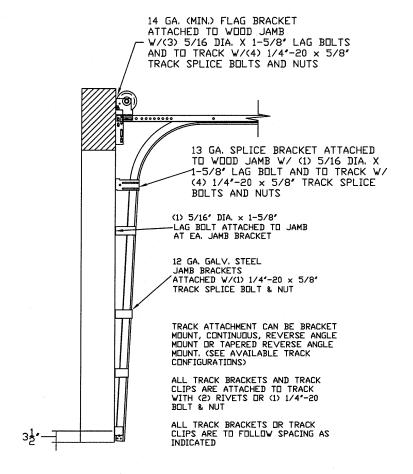
24' X 6' DAY LIGHT OPENING AND FASTENER DETAIL N.T.S.

REV	DESCRIPTION	ONS		D	ATE	BY		
16'2 +2 -2 TES +3	X SIZE 2 x 24' GN LOADS 3.3 PSF 6.3 PSF 6.3 PSF 5.0 PSF 9.5 PSF	Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)	TX	HØMAS 8	OF SHE 582 CENS	TE+	RDINE()	5921-G W. Friendly Ave., Greensboro, NC 27410
				<i>6</i>		- 14	-	
		EN'		T WINST				
		ARRIAGE AM AM	E COUR		IN-SAL 0 (25 0 (24			
SIZE		ARRIAGE AM AM	E COUR	ODEL 250 ODEL 240 ODEL 200 1/22/15	IN-SAL 0 (25 0 (24	EM, N GA) GA) GA)	.C. 27105 Drawing Numbei	
size B	165 CA	ARRIAGE AM AM AM RS	ARR MARR MARR M	T WINSTE ODEL 250 ODEL 240 ODEL 200	IN-SAL 0 (25 0 (24	EM, N GA) GA) GA)	.C. 27105	

TABLE 1

Section	1	er Stile Lo		Max Design Loads		
Width		asured fro		Allowed		
(ft)	1st	2nd	3rd	Positive	Negitive	
	(in)	(in)	(in)	(PSF)	(PSF)	
9' 4"	36"	76"	-	29.5	33.3	
9' 6"	37"	77"	-	29.2	32.9	
9' 8"	38"	78"	-	28.8	32.5	
9' 10"	.L	79"	-	28.4	32.1	
10' 0"	40"	80"	_	28.1	31.7	
10' 2"	41"	81"	-	27.7	31.3	
10' 4"	42"	82"	-	27.4	30.9	
10' 6"	43"	83"	_	27.0	30.5	
10' 8"	44"	84"	_	26.7	30.2	
10' 10"	45"	85"	-	26.4	29.8	
11' 0"	46"	86"	-	26.1	29.5	
11' 2"	47"	87"	-	25.8	29.1	
11' 4"	48"	88"	-	25.5	28.8	
11' 6"	49"	89"		25.2	28.5	
11' 8"	50"	90"	-	24.9	28.2	
11' 10"	51"	91"		24.7	27.8	
12' 0"	48"	96"	-	23.4	26.4	
13' 0"	36"	78"	120"	26.7	30.2	
13' 2"	37"	79"	121"	26.7	30.2	
13' 4"	38"	80"	122"	26.7	30.2	
13' 6"	39"	81"	123"	26.7	30.2	
13' 8"	40"	82"	124"	26.7	30.2	
13' 10"	41"	83"	125"	26.7	30.2	
14' 0"	42"	84"	126"	26.7	30.2	
14' 2"	43"	85"	127"	26.4	29.8	
14' 4"	44"	86"	128"	26.1	29.5	
14' 6"	45"	87"	129"	25.8	29.1	
14' 8"	46"	88"	130"	25.5	28.8	
14' 10"	47"	89"	131"	25.2	28.5	
15' 0"	48"	90"	132"	24.9	28.2	
15' 2"	49"	91"	133"	24.7	27.8	
15' 4"	50"	92"	134"	24.4	27.5	
15' 6"	51"	93"	135"	24.1	27.2	
15' 8"	52"	94"	136"	23.9	27.0	
15' 10"	53"	95"	137"	23.6	26.7	
16' 0"	48"	96"	144"	23.4	26.4	
16' 2"	49"	97"	145"	23.3	26.3	

^{*}FOR WIDTHS 12'-2" TO 12'-10" CONTACT ENGINEERING FOR STILE PLACEMENT



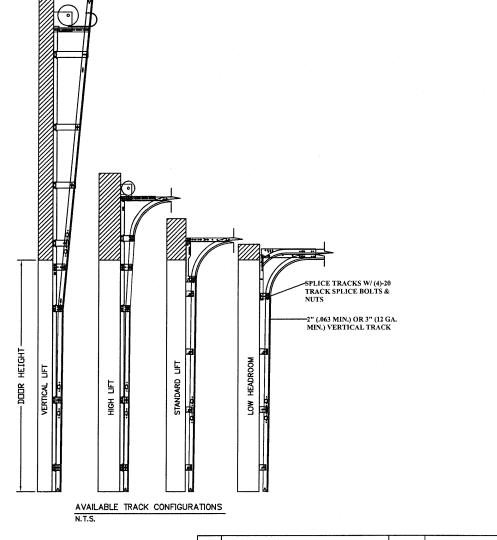
TRACK CONFIGURATION FOR UP TO 24' TALL DOORS SEE TABLE 2

TABLE 2

DO	OR					TRACK ATTACHMENT							TYPICAL
HEIGHT		A B		С	D	E	F	G	Н	T I	J	K	SPLICE
7'	0"	3.5"	22"	44"									
7'	6"	3.5"	22"	44"	68"								
8'	0"	3.5"	22"	44"	75"								
8'	6"	3.5"	22"	44"	75"								
9'	0"	3.5"	22"	44"	75"	92"							
9'	6"	3.5"	22"	44"	68"	92"							
10'	0"	3.5"	22"	44"	68"	92"							
11'	0"	3.5"	22"	44"	68"	92"	116"						
12'	0"	3.5"	22"	44"	68"	92"	116"						
13'	0"	3.5"	22"	44"	68"	92"	116"	140"					
14'	0"	3.5"	22"	44"	68"	92"	116"	140"					
15'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"				
16'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"				
17'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"			
18'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"			
19'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"		
20'	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"		
21	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"	236"	1
22	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"	236"	
23	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"	236"	260"
24	0"	3.5"	22"	44"	68"	92"	116"	140"	164"	188"	212"	236"	260"

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

AMARR MODEL 2500 ONLY AVAILABLE UP TO 14'



DESIGN LOADS +23.3 PSF -26.3 PSF

TEST LOADS +35.0 PSF -39.5 PSF



ENTRE/MATIC

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

AMARR MODEL 2500 (25GA) AMARR MODEL 2400 (24GA) AMARR MODEL 2000 (20GA)

SIZE DRAWN BY RS DATE 1/22/15 DRAWN G NUMBER
B CHECKED BY RLR DATE 1/22/15 IBC-2516-130-24

SHEET 4 OF 4