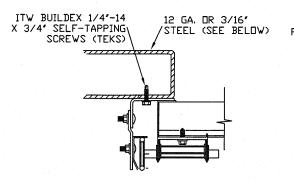


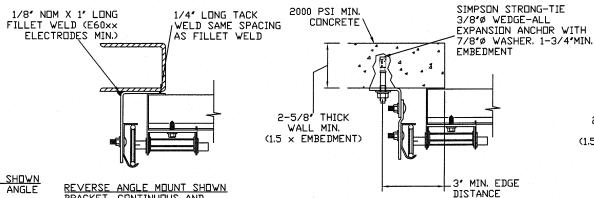
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

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



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

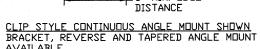
STEEL FRAMING 12GA DR BETTER 1590 LBS./IN. ALLOWABLE LOAD -6' FROM ENDS AND 24' O.C. REFER TO NOTES: 1, 2, 5, 6, 7, 8 ANT 9

NOTES:

SURFACE.

PER JAMB BRACKET (1-1/2"

EMBEDMENT MINIMUM) (TYP.)



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

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" D.C. REFER TO NOTES: 1, 2, 3, 4 AND 5

SPECIFICATIONS AND NOTES

SIMPSON STRONG-TIE

EXPANSION ANCHOR WITH

7/8'ø WASHER. 1-3/4'MIN.

3/8"Ø SLEEVE-ALL

EMBEDMENT

3' MIN. EDGE

DISTANCE

- 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: +218.3 LBS/FT AND -247.4 LBS/FT
- 3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- 4. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, GALVANIZATION W/ BAKED ON POLYESTER FINISH
- 5. DOORS UP TO 24' HIGH USE (1) 4 1/2" R-TRUSS AND (1) 3" STRUT PER SECTION
- 6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

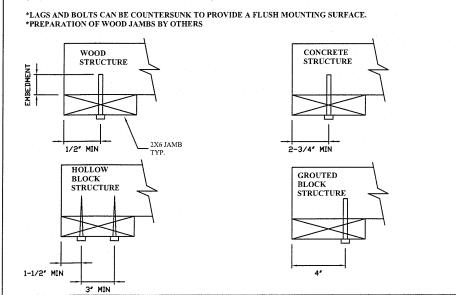
JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE 5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 22" 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 20" 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 16" 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 16" 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)



THE MAXIMUM ON-CENTER DISTANCE, HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING. 3. MIN. EGDE DISTANCE OF 3" REQUIRED.

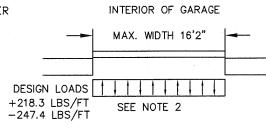
- 4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
- 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS

1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND

2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF

- 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.
- 9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE



2000 PSI MIN.

2-5/8" THICK

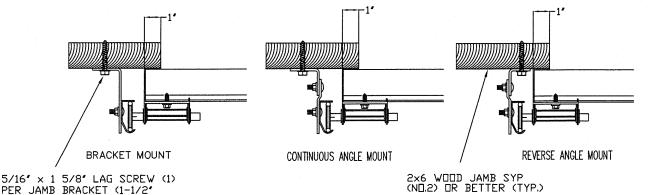
WALL MIN.

(1.5 × EMBEDMENT)

CONCRETE

TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE TABLE 2 ON PAGE 4

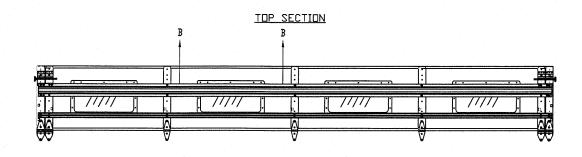


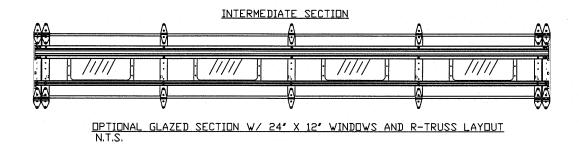
DESCRIPTION OF REVISIONS DATE ADDED GLAZING OPTIONS 6/18/14 RS MAX SIZES WIDTH 16'-2 HH HEIGHT 24' DESIGN LOADS +27.0 PSF -30.6 PSF TEST LOADS +40.5 PSF -45.9 PSF SSIONAL EN (SOUNAL -

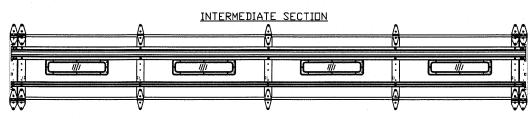
> 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM MODEL 2400 (24 GA) MODEL 2000 (20 GA)

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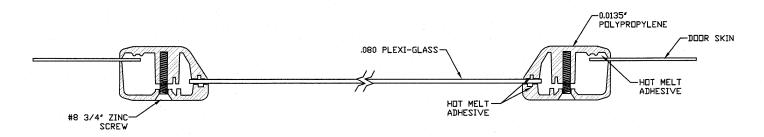
RLR DATE 8/7/12 SIZE DRAWN BY DRAWING NUMBER B CHECKED BY IBC-2416-140-24 DATE SHEET 2 OF 4



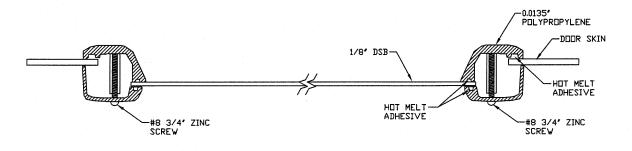




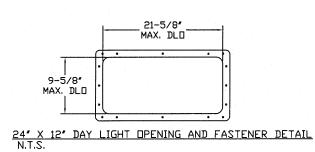
 $\underline{\text{OPTIONAL}}$ GLAZED SECTION W/ 24" X 6" WINDOWS AND R-TRUSS LAYOUT N.T.S.

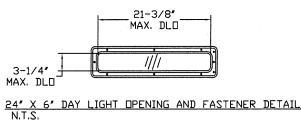


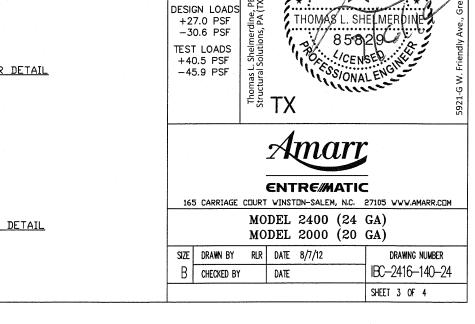
SECTION B-B 24" X 12" WINDOW DETAIL W/ .080 PLEXI-GLASS N.T.S.



SECTION C-C 24" X 6" WINDOW DETAIL W/ 1/8" DSB GLASS
N.T.S. (ALSO AVAILABLE WITH .080 PLEXI-GLASS)







REV DESCRIPTION OF REVISIONS

MAX SIZES WIDTH 16'-2 HEIGHT 24'

ADDED GLAZING OPTIONS

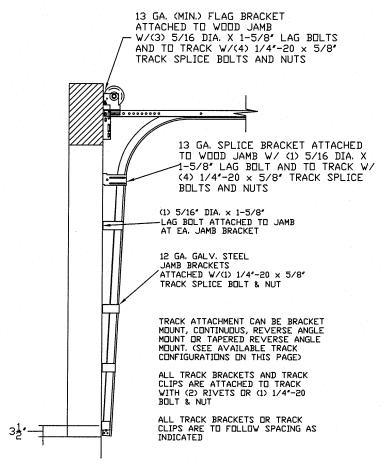
DATE BY

6/18/14 RS

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IAL	<u> </u>							
Sec	ction	1	er Stile Lo		Max Design Loads			
1	idth		asured fro	·	Allowed			
((ft) 1		2nd 3rd		Positive	Negitive		
	(11		(in)	(in)	(PSF)	(PSF)		
	9' 4" 3		76"		34.2	38.8		
9'	6"	37"	77"	-	33.8	38.3		
9'	8"	38"	78"	-	33.4	37.8		
9'	10"	39"	79"	-	32.9	37.3		
10'	0"	40"	80"		32.5	36.9		
10'	2"	41"	81"	-	32.1	36.4		
10'	4"	42"	82"		31.7	36.0		
10'	6"	43"	83"	-	31.3	35.5		
10'	8"	44"	84"	-	31.0	35.1		
10'	10"	45"	85"	-	30.6	34.7		
11'	0"	46"	86"	-	30.3	34.3		
11'	2"	47"	87"	-	29.9	33.9		
11'	4"	48"	88"	-	29.6	33.5		
11'	6"	49"	89"	_	29.2	33.1		
11'	8"	50"	90"	-	28.9	32.8		
11'	10"	51"	91"	-	28.6	32.4		
12'	0"	48"	96"	-	27.1	30.7		
13'	0"	36"	78"	120"	31.0	35.1		
13'	2"	37"	79"	121"	31.0	35.1		
13'	4"	38"	80"	122"	31.0	35.1		
13'	6"	39"	81"	123"	31.0	35.1		
13'	8"	40"	82"	124"	31.0	35.1		
13'	10"	41"	83"	125"	31.0	35.1		
14'	0"	42"	84"	126"	31.0	35.1		
14'	2"	43"	85"	127"	30.6	34.7		
14'	4"	44"	86"	128"	30.3	34.3		
14'	6"	45"	87"	129"	29.9	33.9		
14'	8"	46"	88"	130"	29.6	33.5		
14'	10"	47"	89"	131"	29.2	33.1		
15'	0"	48"	90"	132"	28.9	32.8		
15'	2"	49"	91"	133"	28.6	32.4		
15'	4"	50"	92"	134"	28.3	32.1		
15'	6"	51"	93"	135"	28.0	31.7		
15'	8"	52"	94"	136"	27.7	31.4		
15'	10"	53"	95"	137"	27.4	31.0		
16'	0"	48"	96"	144"	27.1	30.7		
16'	2"	49"	97"	145"	27.0	30.6		
Lance of the land								

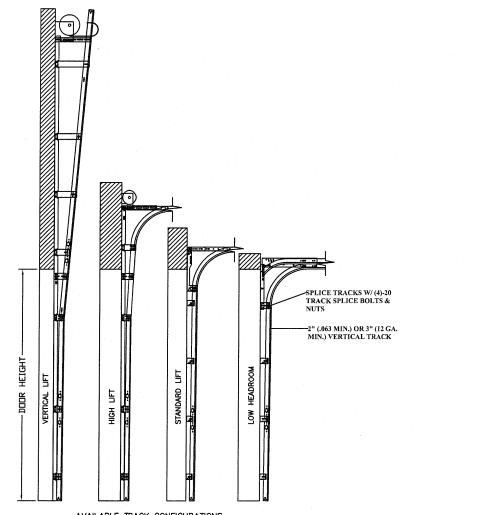
*FOR WIDTHS 12'-2" TO 12'-10" CONTACT ENGINEERING FOR STILE PLACEMENT



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

TABLE 2

. / \=													N	.T.S.
DO	OOR TRACK ATTACHMENT						TYPICAL							
HEI	GHT	Α	В	С	D	E	F	G	Н		J	K	L	SPLICE
7'	0"	3.5"	22"	44"										76"
7'	6"	3.5"	22"	44"	68"									82"
8'	0"	3.5"	22"	44"	75"									88"
8'	6"	3.5"	22"	44"	75"									94"
9'	0"	3.5"	22"	44"	75"									100"
9'	6"	3.5"	22"	44"	68"	92"								106"
10'	0"	3.5"	22"	44"	68"	92"								112"
11'	0"	3.5"	22"	44"	68"	92"	116"							124"
12'	0"	3.5"	22"	44"	68"	92"	116"							136"
13'	0"	3.5"	22"	44"	68"	92"	116"		,					148"
14'	0"	3.5"	22"	44"	68"	92"	116"	140"						160"
15'	0"	3.5"	22"	44"	68"	92"	116"	140"						172"
16'	0"	3.5"	22"	44"	68"	92"	116"	140"	154"					184"
17'	.0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"				196"
18'	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"				208"
19'	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"			220"
20'	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"			232"
21	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"	226"		244"
22	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"	226"		256"
23	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"	226"		268"
24	0"	3.5"	22"	44"	68"	92"	116"	140"	154"	178"	202"	226"	250"	280"



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION	DATE	BY		
A	ADDED GLAZI	ng options		6/18/14	RS
DESI +2 -3 TES' +4	X SIZES TH 16'-2 TH 16'-2 TH 24' GN LOADS 7.0 PSF 0.6 PSF T LOADS 0.5 PSF 5.9 PSF	Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)	THOMAS L. S 85& 1/CE	HE ME 1290 NSEQ AL ENG	5921-G W. Friendly Ave., Greensboro, NC 27410
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MODEL 2400 (24 GA) MODEL 2000 (20 GA)

SIZE	DRAWN BY	RLR	DATE	8/7/12	DRAWING NUMBER
В	CHECKED BY		DATE		BC-2416-140-24
	•				SHEET 4 OF 4