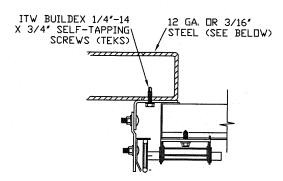


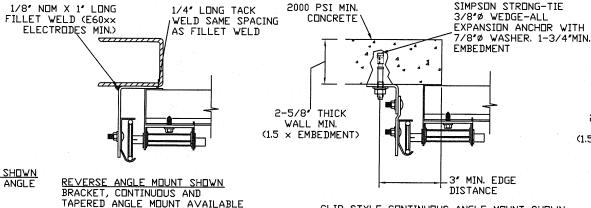
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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" 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



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN BRACKET, REVERSE AND TAPERED ANGLE MOUNT AVATI ARI F

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" O.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

- 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 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 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.

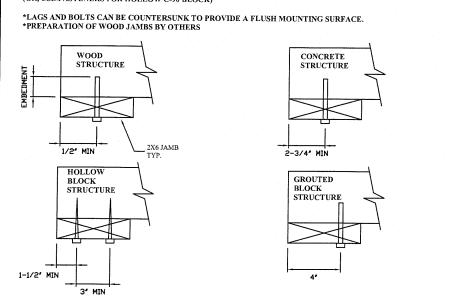
WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

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 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 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

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)



NOTES:

EMBEDMENT MINIMUM) (TYP.)

STEEL FRAMING 12GA OR BETTER

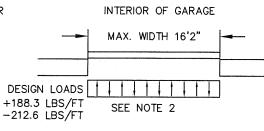
1590 LBS./IN. ALLOWABLE LOAD -

REFER TO NOTES: 1, 2, 5, 6, 7, 8

6" FROM ENDS AND 24" D.C.

AND 9

- 1 ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
- 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM DN-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.



2000 PSI MIN.

2-5/8" THICK

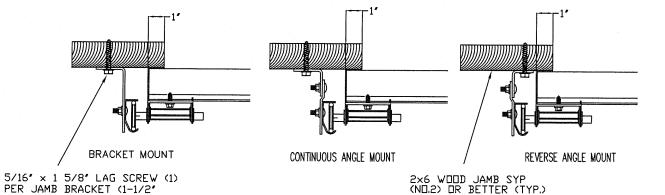
WALL MIN.

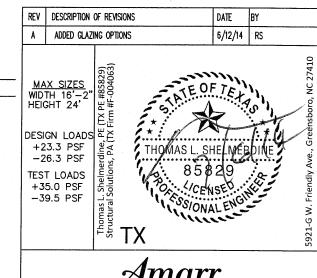
 $(1.5 \times EMBEDMENT)$

CONCRETE'

TRACK CONNECTION TO WOOD JAMB OPTIONS

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



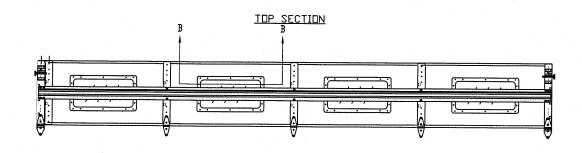


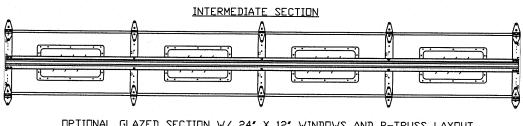


165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

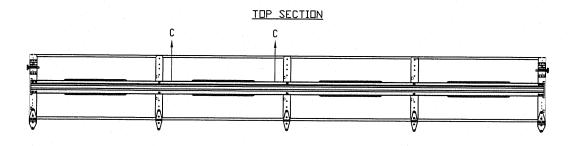
MODEL 2400 (24 GA) MODEL 2000 (20 GA)

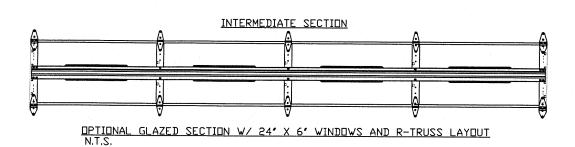
SIZE	DRAWN BY	RLR	DATE	8/1/12	DRAWING NUMBER
В	CHECKED BY		DATE		IBC-2416-130-24
					SHEET 2 OF 4

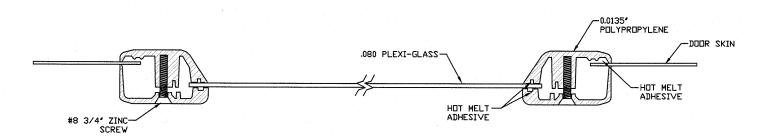




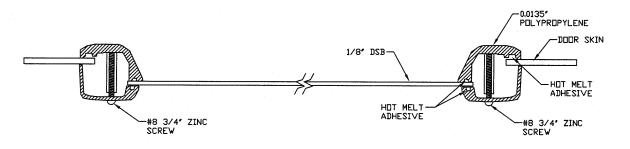
 $\underline{\text{OPTIONAL}}$ GLAZED SECTION W/ 24° X 12° WINDOWS AND R-TRUSS LAYOUT N.T.S.



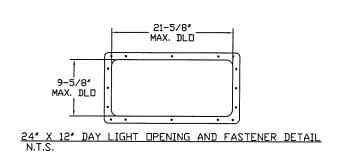


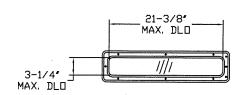


SECTION B-B 24" X 12" WINDOW DETAIL W/ .080 PLEXI-GLASS N.T.S.



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





 $\underline{\text{24'}}$ X 6' DAY LIGHT OPENING AND FASTENER DETAIL N.T.S.

	22A 22A)						
	REV	DESCRIPTION	OF REVISIO	ONS		DATE	BY	
	A	ADDED GLAZI	ng option	NS .		6/12/14	RS	
	WID HEIG DESI +2 -2 TES +3	X SIZES TH 16'-2" HT 24' GN LOADS 3.3 PSF 6.3 PSF I LOADS 5.0 PSF 9.5 PSF	Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)	TX	AS L. SI 858 4/cen	IELMEP DEO SEO SEO SEO SEO SEO	DIN	5921-G W. Friendly Ave., Greensboro, NC 27410
			4	Am	arı			
				ENTRE		C		
1	16	5 CARRIAGE	COURT	WINSTON-SA	EM, N.C.	27105 W	/WW.AMARR.C	DM .

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

DRAWING NUMBER
1BC—2416—130—24

SHEET 3 OF 4

SIZE DRAWN BY RLR DATE 8/1/12

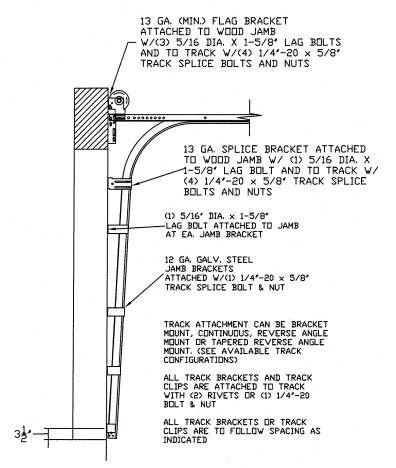
DATE

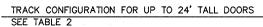
B CHECKED BY

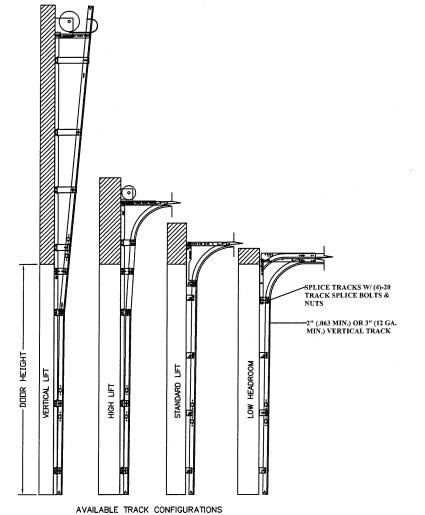
TABLE 1

	4!	Cente	er Stile Lo	ocations	Max Des	ign Loads
	tion	(Mea	asured fro	om Left	Allo	owed
ľ	dth	1st	2nd	3rd	Positive	Negitive
(1	t)	(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"	39"	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







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1/\L	ノレレ												N.	T.S.
DO	OR					TR	ACK AT	TACHM	ENT					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"

REV	DESCRIPTION (F REVISIONS			DATE	BY	
Α	ADDED GLAZII	ig options			6/12/14	RS	
WIDT HEIG +2 -2 TEST +3:	X SIZES TH 16'-2" SHT 24' GN LOADS 3.3 PSF 6.3 PSF T LOADS 5.0 PSF 9.5 PSF	Thomas L. Shelmerdine, PE (TX PE #85829) Structural Solutions, PA (TX Firm #F-004063)	THOMAS	858	TE+	ROINE	5921-G W. Friendly Ave., Greensboro, NC 27410
		\mathcal{A}	ma	u	^ 4		
16	5 CARRIAGE	COURT WINST		IATIO	27105 V	/WW.AMARR	.COM
16	5 CARRIAGE	MODEL	ON-SALE	IATIO		√WW.AMARR	.Com
16	5 CARRIAGE DRAWN BY	MODEL	2400	IATIO M, N.C. (24	27105 V GA) GA)	/ww.amarr Rawing numb	
		MODEL MODEL	2400 2000	IATIO M, N.C. (24	27105 V GA) GA)		ER