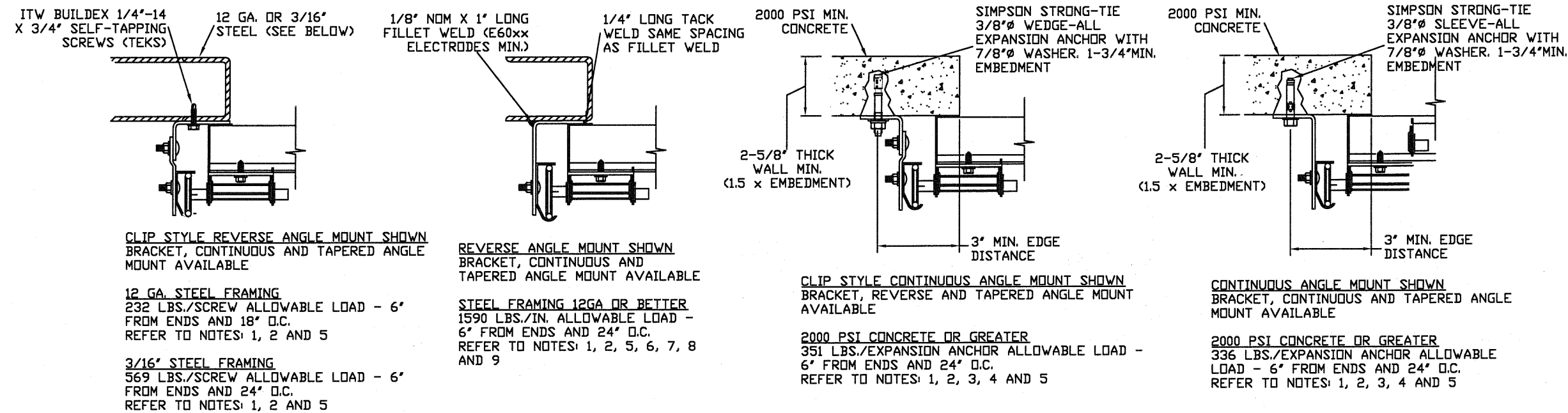


TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

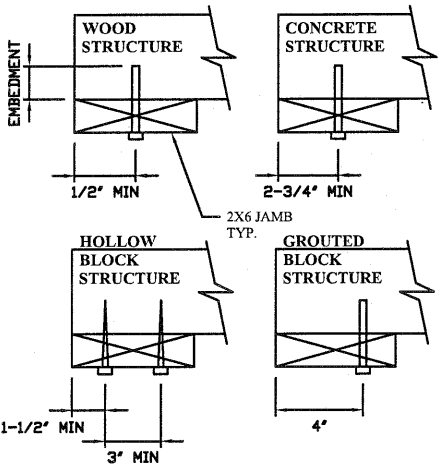
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

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

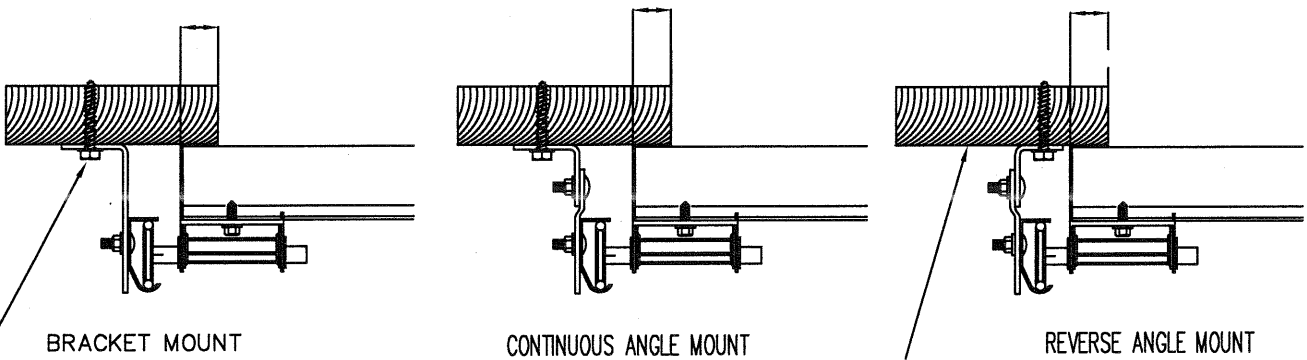


NOTES:

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 TABLE 4



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.)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+16.7 PSF
-18.9 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+25.05 PSF
-28.35 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

Thomas L. Shelmerdine
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

MODEL 2700 AMARR 2742
MODEL 2720 AMARR 2042
MODEL 3550HD AMARR 3552

SIZE	DRAWN BY	BHG	DATE	10/07/10	DRAWING NUMBER
B	CHECKED BY	DWC	DATE	10/07/10	IBC-2756-110-15

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

SHEET 2 OF 3

TABLE 1

Door Height	21" Bottom	21" Intermediate	24" Bottom	24" Intermediate
7'0"	1	3		
7'3"		3	1	
7'6"		2	1	1
7'9"		1	1	2
8'0"				4
8'3"	Not Available			
8'6"	Not Available			
8'9"	1	4		
9'0"		4	1	
9'3"		3	1	1
9'6"		2	1	2
9'9"		1	1	3
10'0"			1	4
10'3"	Not Available			
10'6"	1	5		
10'9"		5	1	
11'0"		4	1	1
11'3"		3	1	2
11'6"		2	1	3
11'9"		1	1	4
12'0"			1	5
12'3"	1	6		
12'6"		6	1	
12'9"		5	1	1
13'0"		4	1	2
13'3"		3	1	3
13'6"		2	1	4
13'9"		1	1	5
14'0"			1	6
14'0"	1	7		
14'3"		7	1	
14'6"		6	1	1
14'9"		5	1	2
15'0"		4	1	3
15'3"		3	1	4
15'6"		2	1	5
15'9"		1	1	6
15'9"	1	8		
16'0"			1	7
16'0"		8	1	
16'3"		7	1	1
16'6"		6	1	2
16'9"		5	1	3
17'0"		4	1	4
17'3"		2	1	5
17'6"		2	1	6
17'9"		1	1	7
18'0"			1	8
18'3"		7	1	2
18'6"		6	1	3
18'9"		5	1	4
19'0"		4	1	5
19'3"		3	1	6
19'6"		2	1	7
19'9"		1	1	8
20'0"			1	9

***TABLE 2**

Section Width (ft)	Max Design Loads Allowed	
	Positive (PSF)	Negative (PSF)
9' 4"	21.2	24.0
9' 6"	20.9	23.7
9' 8"	20.7	23.4
9' 10"	20.4	23.1
10' 0"	20.1	22.8
10' 2"	19.9	22.5
10' 4"	19.7	22.2
10' 6"	19.4	22.0
10' 8"	19.2	21.7
10' 10"	19.0	21.5
11' 0"	18.7	21.2
11' 2"	18.5	21.0
11' 4"	18.3	20.7
11' 6"	18.1	20.5
12' 0"	22.4	25.3
12' 2"	22.1	25.0
12' 4"	21.8	24.7
12' 6"	21.5	24.3
12' 8"	21.2	24.0
12' 10"	20.9	23.7
13' 0"	19.2	21.7
13' 2"	19.2	21.7
13' 4"	19.2	21.7
13' 6"	19.2	21.7
13' 8"	19.2	21.7
13' 10"	19.2	21.7
14' 0"	19.2	21.7
14' 2"	19.0	21.5
14' 4"	18.7	21.2
14' 6"	18.5	21.0
14' 8"	18.3	20.7
14' 10"	18.1	20.5
15' 0"	17.9	20.3
15' 2"	17.5	19.8
16' 0"	16.8	19.0
16' 2"	16.7	18.9

***CONTACT AMARR'S ENGINEERING
DEPARTMENT FOR THE FOLLOWING
DOOR WIDTHS; 11'8", 11'10",
15'4",15'6",15'8" AND 15'10"**

TABLE 3

Section	Center Stile Locations (Measured from Left Edge)		
	Width (ft)	1st (in)	2nd (in)
9' 4	36"	76"	
9' 6	37"	77"	
9' 8	38"	78"	
9' 10	39"	79"	
10' 0	40"	80"	
10' 2	41"	81"	
10' 4	42"	82"	
10' 6	43"	83"	
10' 8	44"	84"	
10' 10	45"	85"	
11' 0	46"	86"	
11' 2	47"	87"	
11' 4	48"	88"	
11' 6	49"	89"	
12' 0*	36"	72"	108"
12' 2*	37"	73"	109"
12' 4*	38"	74"	110"
12' 6*	39"	75"	111"
12' 8*	40"	76"	112"
12' 10	41"	77"	113"
13' 0	36"	78"	120"
13' 2	37"	79"	121"
13' 4	38"	80"	122"
13' 6	39"	81"	123"
13' 8	40"	82"	124"
13' 10	41"	83"	125"
14' 0	42"	84"	126"
14' 2	43"	85"	127"
14' 4	44"	86"	128"
14' 6	45"	87"	129"
14' 8	46"	88"	130"
14' 10	47"	89"	131"
15' 0	48"	90"	132"
15' 2	49"	91"	133"
16' 0	48"	96"	144"
16' 2	49"	97"	145"

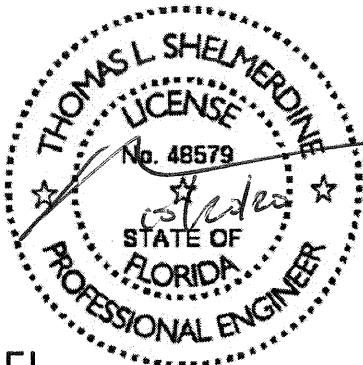
***SPECIAL STILE PLACEMENT REQUIRED
FOR THE FOLLOWING DOOR WIDTHS:
12'0", 12'2", 12'4", 12'6" AND 12'8"**

TABLE 4

DOOR HEIGHT	TRACK ATTACHMENT										*SPLICE
	A	B	C	D	E	F	G	H	I	J	S
6' 6"	10"	38"	58"								70"
7'	10"	38"	58"								76"
7' 6"	4"	28"	52"	76"							82"
8'	10"	34"	58"	82"							88"
8' 6"	4"	28"	52"	76"							94"
9'	10"	34"	58"	82"							100"
9' 6"	4"	28"	52"	76"	100"						106"
10'	10"	34"	58"	82"	106"						112"
10' 6"	4"	28"	52"	76"	100"						118"
11'	10"	34"	58"	82"	106"						124"
11' 6"	4"	28"	52"	76"	100"	124"					130"
12'	10"	34"	58"	82"	106"	130"					136"
12' 6"	4"	28"	52"	76"	100"	124"					142"
13'	10"	34"	58"	82"	106"	130"					148"
13' 6"	4"	28"	52"	76"	100"	124"	148"				154"
14'	10"	34"	58"	82"	106"	130"	154"				160"
14' 6"	4"	28"	52"	76"	100"	124"	148"				166"
15'	10"	34"	58"	82"	106"	130"	154"				172"
15' 6"	4"	28"	52"	76"	100"	124"	148"	172"			178"
16'	10"	34"	58"	82"	106"	130"	154"	178"			184"
16' 6"	4"	28"	52"	76"	100"	124"	148"	172"			190"
17'	10"	34"	58"	82"	106"	130"	154"	178"			196"
17' 6"	4"	28"	52"	76"	100"	124"	148"	172"	196"		202"
18'	10"	34"	58"	82"	106"	130"	154"	178"	202"		208"
18' 6"	4"	28"	52"	76"	100"	124"	148"	172"	196"		214"
19'	10"	34"	58"	82"	106"	130"	154"	178"	202"		220"
19' 6"	4"	28"	52"	76"	100"	124"	148"	172"	196"	220"	226"
20'	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	232"

***SPLICE LOCATION FOR STANDARD LIFT. WILL VARY FOR OTHER LIFT APPLICATIONS**

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16'2 x 24' DESIGN LOADS +16.7 PSF -18.9 PSF TEST LOADS (1.5 x DESIGN LOADS) +25.05 PSF -28.35 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) FL	 dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
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MODEL 2700 AMARR 2742 MODEL 2720 AMARR 2042 MODEL 3550HD AMARR 3552			
SIZE	DRAWN BY	BKG	DATE 10/07/10
B	CHECKED BY	DWC	DATE 10/07/10
ENTREMATRIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
DRAWING NUMBER IBC-2756-110-15			SHEET 3 OF 3