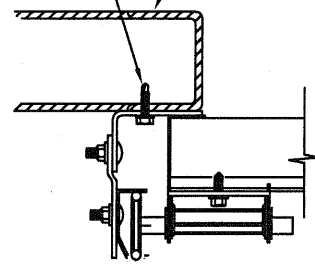
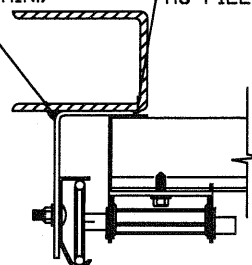


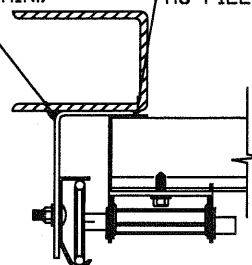
ITW BUILDDEX 1/4"-14
X 3/4" SELF-TAPPING
SCREWS (TEKS) 12 GA. DR 3/16"
STEEL (SEE BELOW)



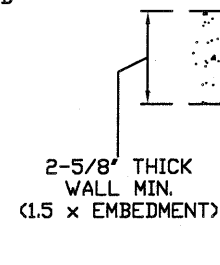
1/8" NOM X 1' LONG
FILLET WELD (E60xx
ELECTRODES MIN.)



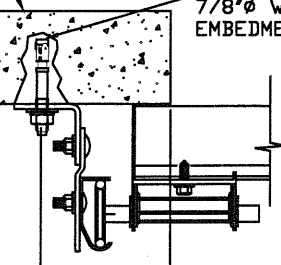
1/4" LONG TACK
WELD SAME SPACING
AS FILLET WELD



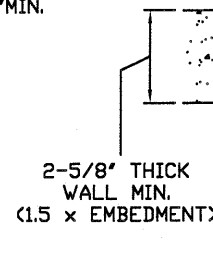
2000 PSI MIN.
CONCRETE



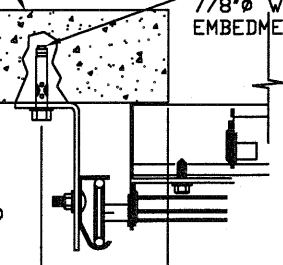
SIMPSON STRONG-TIE
3/8"Ø WEDGE-ALL
EXPANSION ANCHOR WITH
7/8"Ø WASHER. 1-3/4"MIN.
EMBEDMENT



2000 PSI MIN.
CONCRETE



SIMPSON STRONG-TIE
3/8" SLEEVE-ALL
EXPANSION ANCHOR WITH
7/8" WASHER. 1-3/4" MIN.
EMBEDMENT



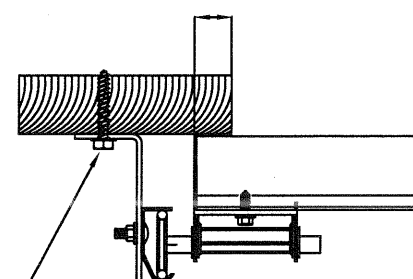
2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE
LOAD - 6" FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

The diagrams illustrate the required jamb dimensions for different wall types:

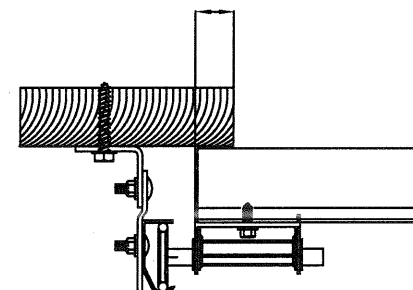
- WOOD STRUCTURE:** Shows a single jamb with a minimum embedment of 1 1/2" and a minimum width of 1 1/2" MIN.
- CONCRETE STRUCTURE:** Shows a single jamb with a minimum embedment of 2-3/4" MIN and a minimum width of 2-3/4" MIN.
- HOLLOW BLOCK STRUCTURE:** Shows two jambs with a minimum embedment of 1-1/2" and a minimum spacing of 3" MIN between them.
- GROUTED BLOCK STRUCTURE:** Shows two jambs with a minimum embedment of 1-1/2" and a minimum spacing of 4" between them.

A common dimension for all is the **2X6 JAMB TYP.** (typical).

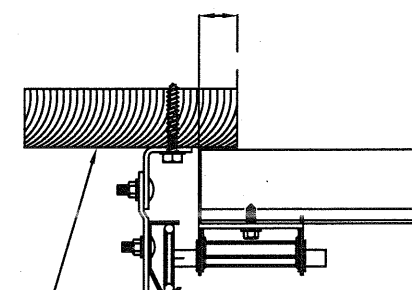
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
3. MIN. EDGE DISTANCE OF 3" REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
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.



5/16" x 1 5/8" LAG SCREW (1)
PER JAMB BRACKET (1-1/2"
EMBEDMENT MINIMUM) (TYP.)



CONTINUOUS ANGLE MOUNT



REVERSE ANGLE MOUNT

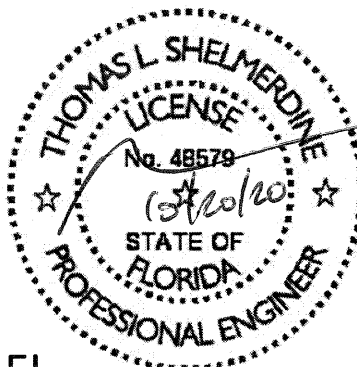
REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16'2" x 24' DESIGN LOADS +16.7 PSF -18.9 PSF TEST LOADS (1.5 x DESIGN LOADS) +25.05 PSF -28.35 PSF		Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)  FL dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410	
<i>Amarr</i>			
MODEL 2000 AMARR 2002, 2012, 2022 MODEL 2400 AMARR 2402, 2412, 2422 MODEL 3550HD AMARR 3552			
SIZE	DRAWN BY	BHG	DATE 9/30/10
B	CHECKED BY	DWC	DATE 9/30/10
DRAWING NUMBER			IBC-2456-110-15
ENTREMATIC			SHEET 2 OF 3
165 CARRIAGE COURT WINSTON-SALEM, NC 27105			

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 Width (ft)	Center Stile Locations (Measured from Left Edge)		
	1st (in)	2st (in)	3rd (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)

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

Amarr

MODEL 2000 AMARR 2002, 2012, 2022
MODEL 2400 AMARR 2402, 2412, 2422
MODEL 3550HD AMARR 3552

SIZE	DRAWN BY	BHG	DATE	9/30/10	DRAWING NUMBER IBC-2456-110-15
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ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 3 OF 3