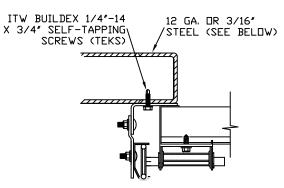


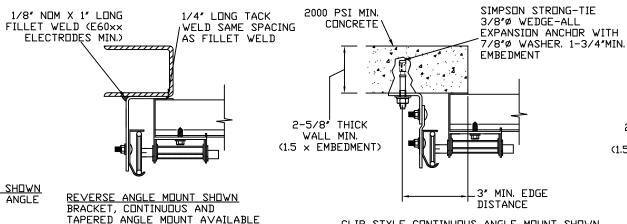
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

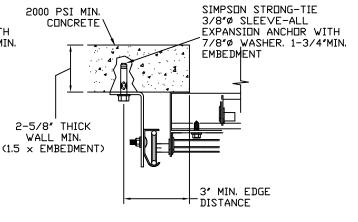
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6"
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING 569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS AND 24" D.C. REFER TO NOTES: 1, 2 AND 5



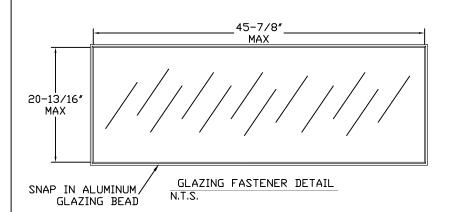
CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN BRACKET, REVERSE AND TAPERED ANGLE MOUNT AVAILABLE

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



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)

STEEL FRAMING 12GA OR BETTER

1590 LBS./IN. ALLOWABLE LOAD - 6" FROM ENDS AND 24" D.C.

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

EMBEDMENT MINIMUM) (TYP.)

AND 9

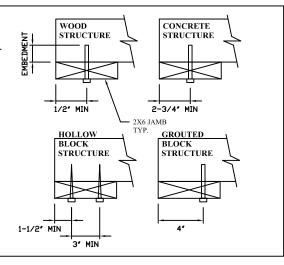
HILLI LEEVE ANCHOR 3,8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

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)

 $\frac{2~X~6~VERTICAL~JAMB~ATTACHMENT~TO~GROUTED~C-90~BLOCK~(2000~PSI~GROUT)}{HILTI~SLEEVE~ANCHOR~3/8"~X~2-3/4"~STARTING~6"~FROM~ENDS~THEN~24"~O.C.~(1~1/4"~EMBEDMENT)}\\ (OR, USE~FASTENERS~FOR~HOLLOW~C-90~BLOCK)$

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE. *PREPARATION OF WOOD JAMBS BY OTHERS

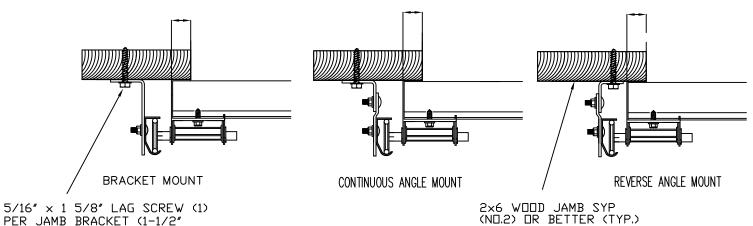


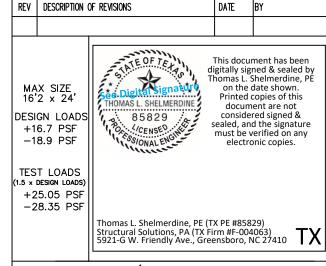
NOTES:

- 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 INSPECTOR 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







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
В	CHECKED BY	DWC	DATE	9/30/10	IBC-2456-110-15
165 C	AMARR ARRIAGE COURT	SHEET 2 OF 3			

TABLE 1

Door	21"	21"	24''	24"
Height		Intermediate	Bottom	Intermediat
7'0"	1	3 3 2		
7'3" 7'6"		3	1	
7'6''			1	1
7'9"		1	1	2
8'0"		N		4
8'3"		Not Av	ailable	
8'6"	4		ailable	
8'9" 9'0"	1	4	4	
9'0"		4	1	1
9'3"		3	1	1
9'6"		1	1	2
9'9" 10'0"		ı	1	2 3 4
10'3"		Not Av	ailable	4
10'6"	1	5	allable	
10'9"		5	1	
11'0"		4	1	1
11'3"		3	1	2
11'6"		3	1	2 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"		4 3 2	1	2 3 4
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 3
15'0" 15'3" 15'6"		4	1	
15'3"		3	1	<u>4</u> 5
15'6"		2 1	1	6
15'9"	1		1	0
15'9"		8	1	7
16'0" 16'0"		Q	1	1
16'0" 16'3"		8 7	1	1
16'6"		6	1	
16'9"		5	1	3
16'6" 16'9" 17'0"		4	1	4
17'3"		2	1	5
17'6"		2	1	6
17'3" 17'6" 17'9"		6 5 4 2 2 1	1	2 3 4 5 6 7
18'0''			1	
18'3" 18'6" 18'9"		7	1	8 2 3 4 5
18'6"			1	3
18'9"		5	1	4
19'0''		4	1	5
19'3"		6 5 4 3 2	1	6
19'6" 19'9"		2	1	7
19'9"		1	1	8
20'0"				9

*TADIE 1

*TABLE 2								
	Max Design Loads							
Section	Allo	owed						
Width	Positve	Negative						
(ft)	(PSF)	(PSF)						
	(FSF)	(FSF)						
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

TABLE 3									
Section	Center Stile Locations (Measured from Left Edge								
Width	1st	2st	3rd						
(ft)	(in)	(in)	(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	TRACK ATTACHMENT								*SPLICE		
HEIGHT	Α	В	C	D	Е	F	G	Н		٦	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"		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

STATE OF TELY nigital Signatur THOMAS L. SHELMERDINE 85829 OCCENSED CENSED

This document has been digitally signed & sealed by Thomas L. Shelmerdine, PE on the date shown. Printed copies of this document are not copied and the shown of the should be shown to seal the should be should be should considered signed & sealed, and the signature must be verified on any electronic copies.

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)
5921-G W. Friendly Ave., Greensboro, NC 27410



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

SIZE	DRAWN BY CHECKED BY		9/30/10	TRAWING NUMBER 1 IBC—2456—110—15
ט	CHECKED BY	DATE	9/30/10	100 2100 110 10

AMARR COMPANY
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 SHEET 3 OF 3