

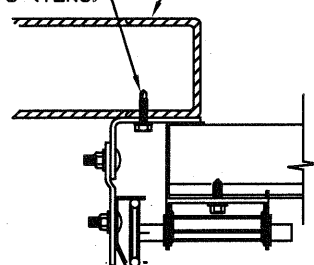
REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18'2" x 24' DESIGN LOADS +21.6 PSF -24.5 PSF TEST LOADS +32.4 PSF -36.8 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, 2743 MODEL 2720 AMARR 2042			
SIZE	DRAWN BY	RLR	DATE 07/18/13
B	CHECKED BY		DATE
ENTREMATIIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			

DRAWING NUMBER IBC-2718-120-15
SHEET 1 OF 3

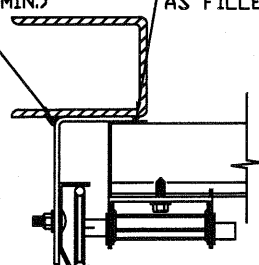
ITW BUILDEX 1/4"-14
X 3/4" SELF-TAPPING
SCREWS (TEKS) / 12 GA. OR 3/16"
STEEL (SEE BELOW)



12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 3'
FROM ENDS AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

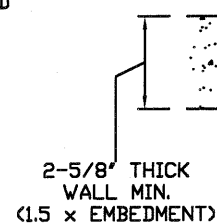
3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6'
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5

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



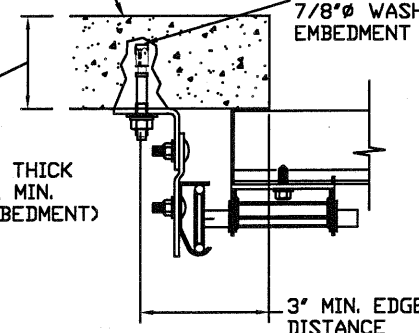
STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD -
6' FROM ENDS AND 24' O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8
AND 9

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



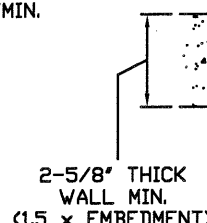
2000 PSI MIN.
CONCRETE

2-5/8" THICK
WALL MIN.
(1.5 x EMBEDMENT)



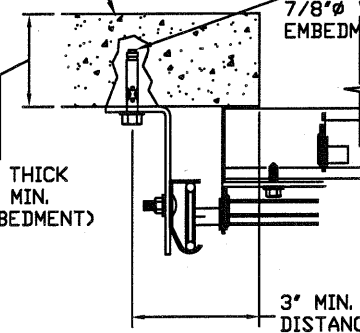
2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD -
6" FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

2000 PSI MIN.
CONCRETE



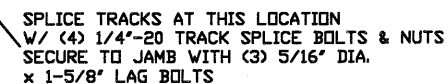
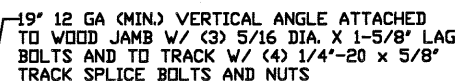
2-5/8" THICK
WALL MIN.
1.5 x EMBEDMENT

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

FOR LAG SCREWS & BRACKET SPACING SEE TABLE 1



(1) 5/16" DIA. x 1-5/8"
LAG BOLT ATTACHED TO JAMB
AT EA. JAMB BRACKET

12 GA. GALV. STEEL
JAMB BRACKETS
/ ATTACHED W/ (1) 1/4"-20 x 5/8"
TRACK SPLICE BOLT & NUT

TRACK ATTACHMENT CAN BE BRACKET MOUNT, CONTINUOUS, REVERSE ANGLE MOUNT OR TAPERED REVERSE ANGLE MOUNT. (SEE AVAILABLE TRACK CONFIGURATIONS)

ALL TRACK BRACKETS AND TRACK
CLIPS ARE ATTACHED TO TRACK
WITH (2) RIVETS OR (1) 1/4"-20
BOLT & NUT

ALL TRACK BRACKETS OR TRACK
CLIPS ARE TO FOLLOW SPACING AS
INDICATED

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

BRACKET MOUNT

CONTINUOUS ANGLE MOUNT

REVERSE ANGLE MOUNT

2x6 WOOD JAMB SYP
(NO.2) OR BETTER (TYP.)

TABLE 1

DOOR	TRACK ATTACHMENT											SPLICE
HEIGHT	A	B	C	D	E	F	G	H	I	J	K	S
7'	10"	34"	58"									76"
8'	10"	34"	58"									88"
9'	10"	34"	58"	82"								100"
10'	10"	34"	58"	82"								112"
11'	10"	34"	58"	82"	106"							124"
12'	10"	34"	58"	82"	106"							136"
13'	10"	34"	58"	82"	106"	130"						148"
14'	10"	34"	58"	82"	106"	130"						160"
15'	10"	34"	58"	82"	106"	130"	154"					172"
16'	10"	34"	58"	82"	106"	130"	154"					184"
17'	10"	34"	58"	82"	106"	130"	154"	178"				196"
18'	10"	34"	58"	82"	106"	130"	154"	178"				208"
19'	10"	34"	58"	82"	106"	130"	154"	178"	202"			220"
20'	10"	34"	58"	82"	106"	130"	154"	178"	202"			232"
21'	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		244"
22'	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"		256"
23'	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	268"
24'	10"	34"	58"	82"	106"	130"	154"	178"	202"	226"	250"	280"

NOTES:

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.

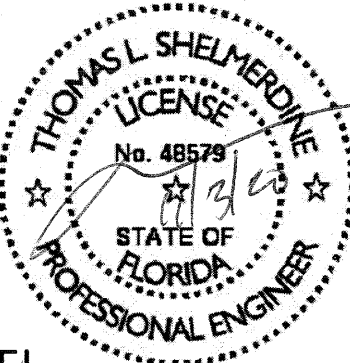
6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.

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.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 18'2 x 24' DESIGN LOADS +21.6 PSF -24.5 PSF TEST LOADS +32.4 PSF -36.8 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. Friedberg Ave., Greensboro, NC 27410
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Amarr

MODEL 2700 AMARR 2742, 2743			
MODEL 2720 AMARR 2042			

SIZE	DRAWN BY	RLR	DATE 07/18/13	DRAWING NUMBER IBC-2718-120-15
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ENTREMATRIC			
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			
SHEET 2 OF 3			

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
(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 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

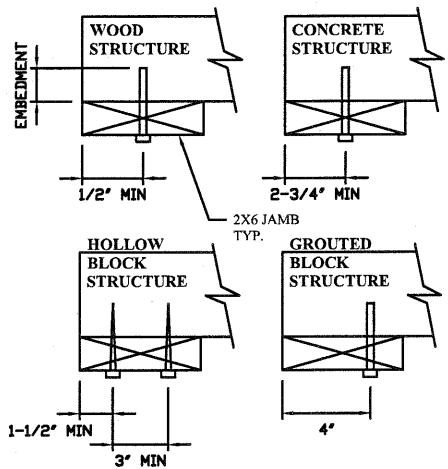
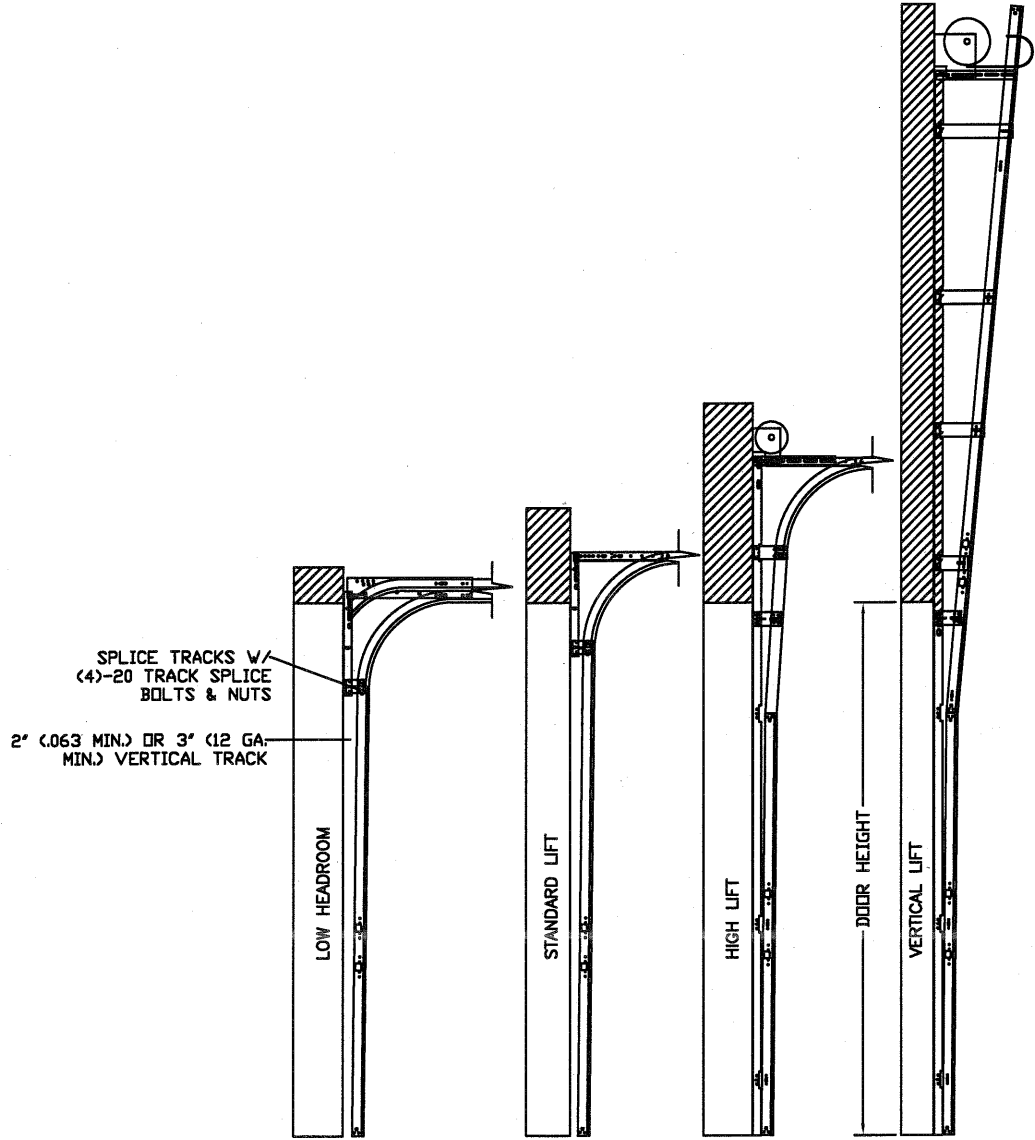


TABLE 2

Section Width		Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
(ft)	(in)	1st (in)	2nd (in)	3rd (in)	4th (in)	Positive (PSF)	Negative (PSF)
17'	0	39	81	123	165	22.5	25.5
17'	2	40	82	124	166	22.5	25.5
17'	4	41	83	125	167	22.5	25.5
17'	6	42	84	126	168	22.4	25.4
17'	8	43	85	127	169	22.2	25.1
17'	10	44	86	128	170	21.9	24.9
18'	0	43.5	86.5	129.5	172.5	21.8	24.7
18'	2	44.5	87.5	130.5	173.5	21.6	24.5

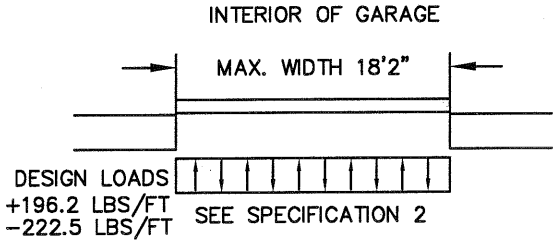
FOR DOOR SIZES LESS THAN 17'0 CONTACT ENGINEERING



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

SPECIFICATIONS

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: +196.2 LBS/FT & -222.5 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.0151) MIN. EXTERIOR SKIN ROLLFORMED, W/BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH USE (2) 3' STRUTS PER INTERMEDIATE AND TOP SECTION AND (3) ON THE BOTTOM SECTION
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18'2" x 24'

DESIGN LOADS
+21.6 PSF
-24.5 PSF

TEST LOADS
+32.4 PSF
-36.8 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, 2743
MODEL 2720 AMARR 2042

SIZE B	DRAWN BY RJR	DATE 07/18/13	DRAWING NUMBER IBC-2718-120-15
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165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 3 OF 3