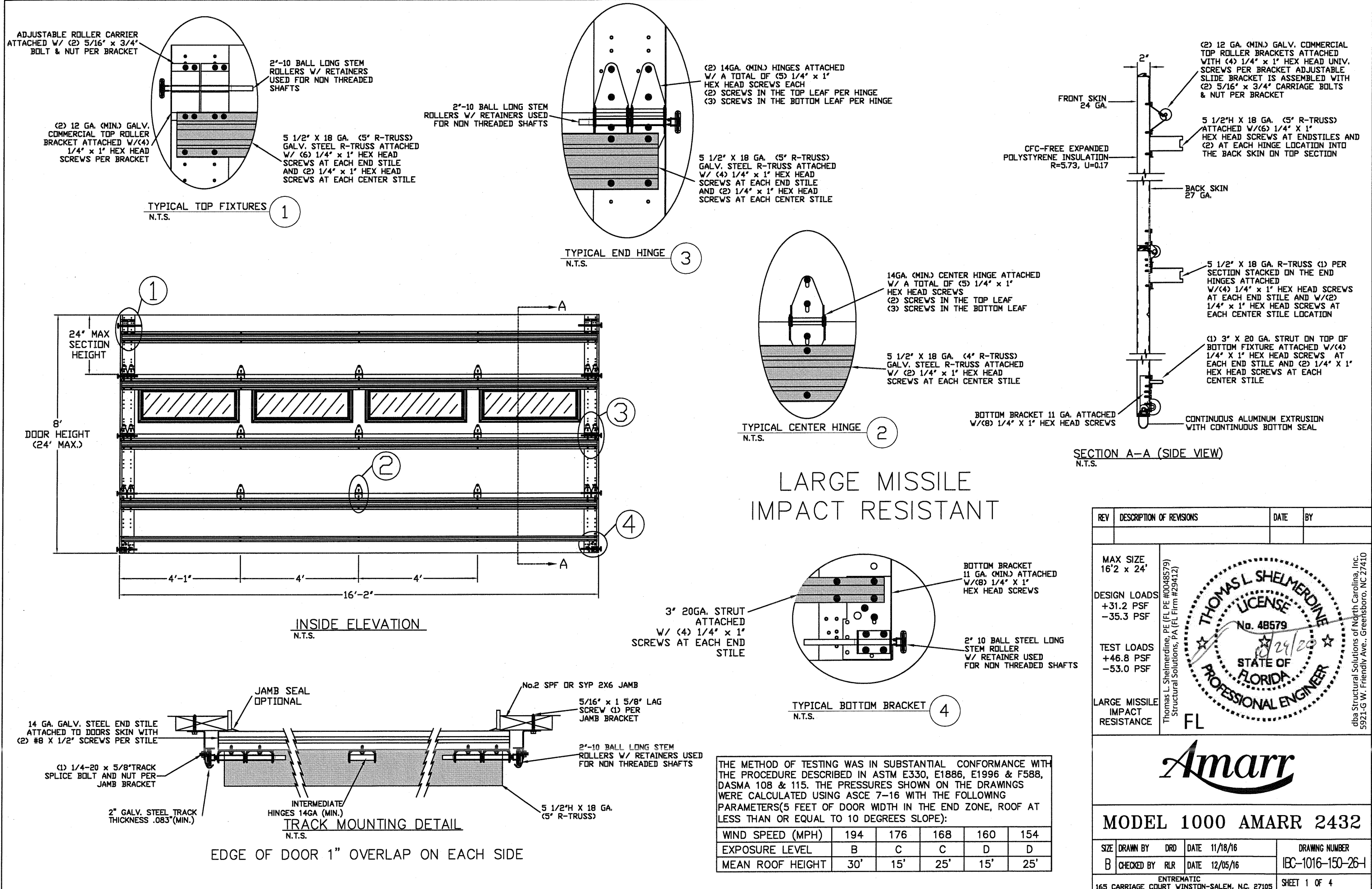
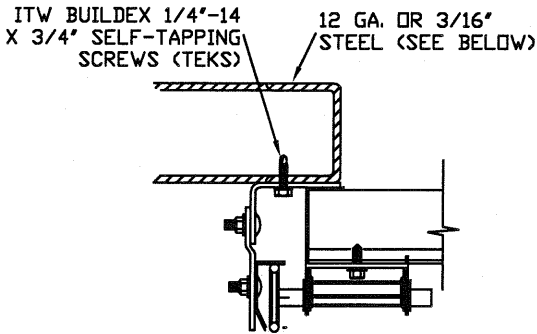




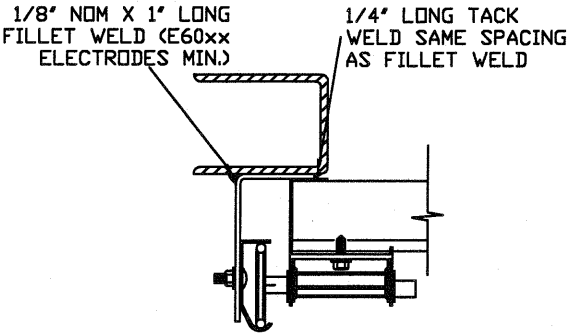
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

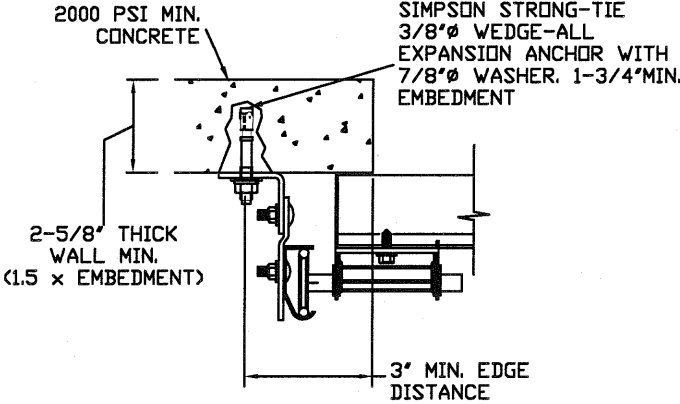
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6'
FROM ENDS AND 10' O.C.
REFER TO NOTES 1, 2 AND 5

3/16\"/>



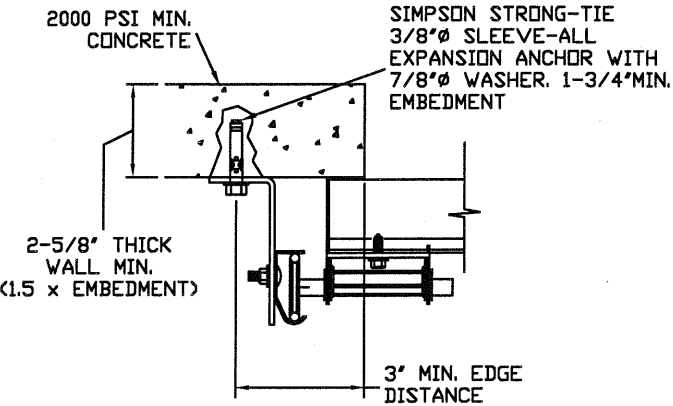
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

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



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 16' 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 16' O.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\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8\"/>

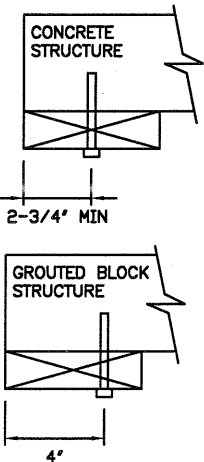
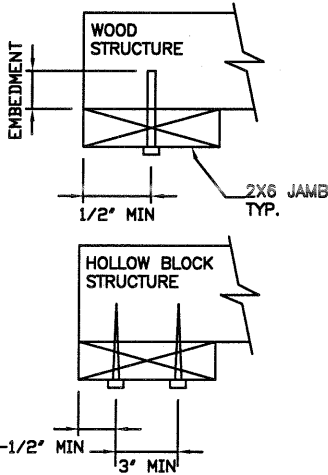
HILTI SLEEVE ANCHOR 3/8\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4\"/>

HILTI 1/4\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8\"/>

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

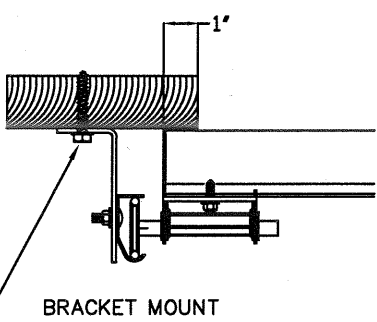


NOTES:

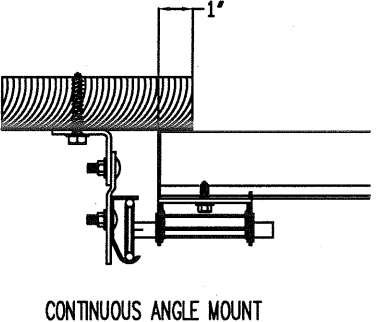
1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
3. MIN. EGDE DISTANCE OF 3' REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.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

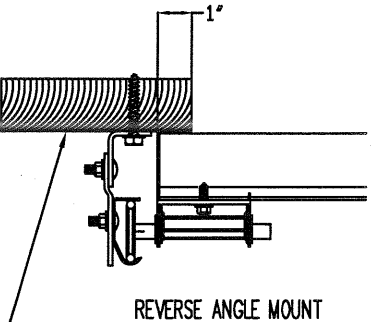
FOR LAG SCREWS & BRACKET SPACING SEE TABLE 1 ON PAGE 4



5/16\"/>



CONTINUOUS ANGLE MOUNT



REVERSE ANGLE MOUNT

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

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2 x 24'

DESIGN LOADS
+31.2 PSF
-35.3 PSF

TEST LOADS
+46.8 PSF
-53.0 PSF

LARGE MISSILE
IMPACT
RESISTANCE

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

THOMAS L. SHELMERDINE
LICENSE
No. 48579
12/29/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

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

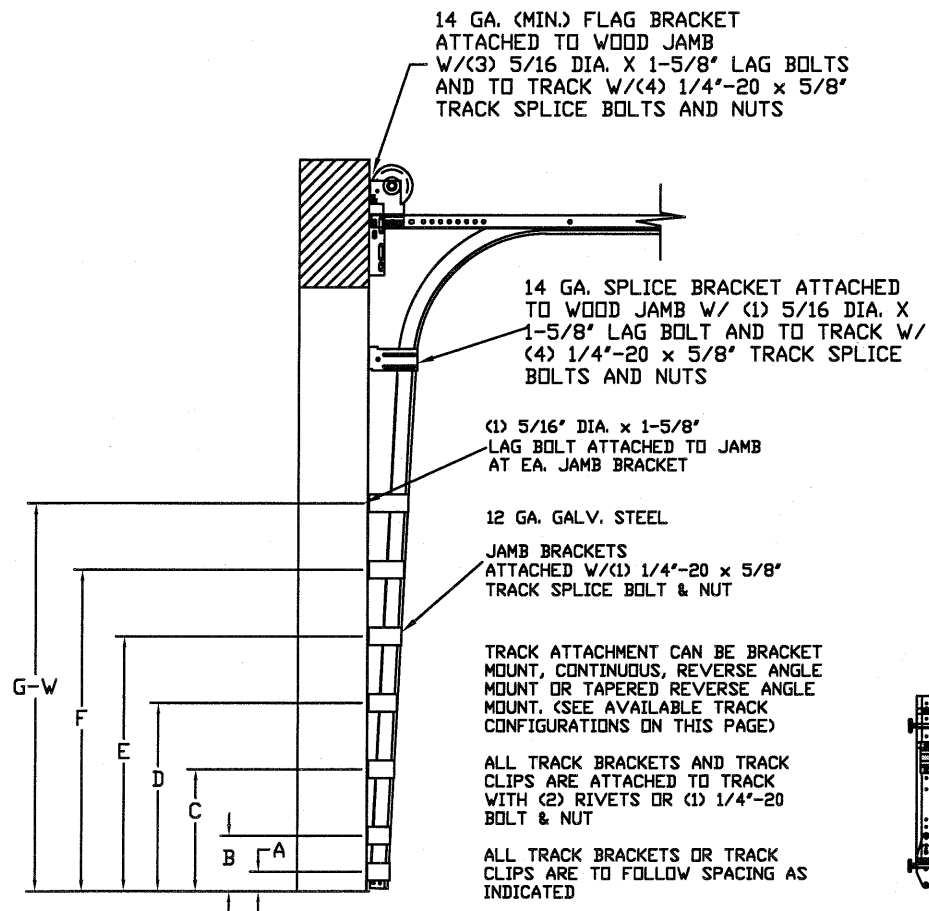
Amarr

MODEL 1000 AMARR 2432

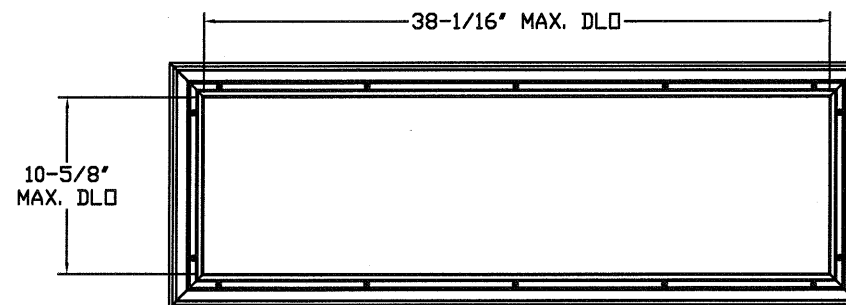
SIZE	DRAWN BY	DRD	DATE	11/18/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	12/05/16	IBC-1016-150-26-1

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

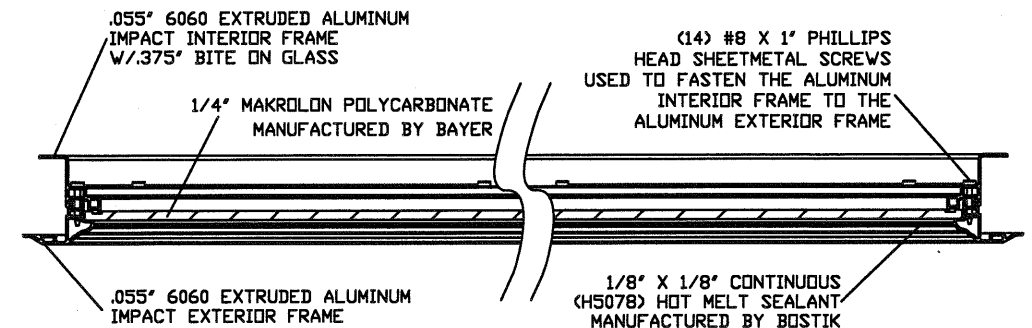
SHEET 2 OF 4



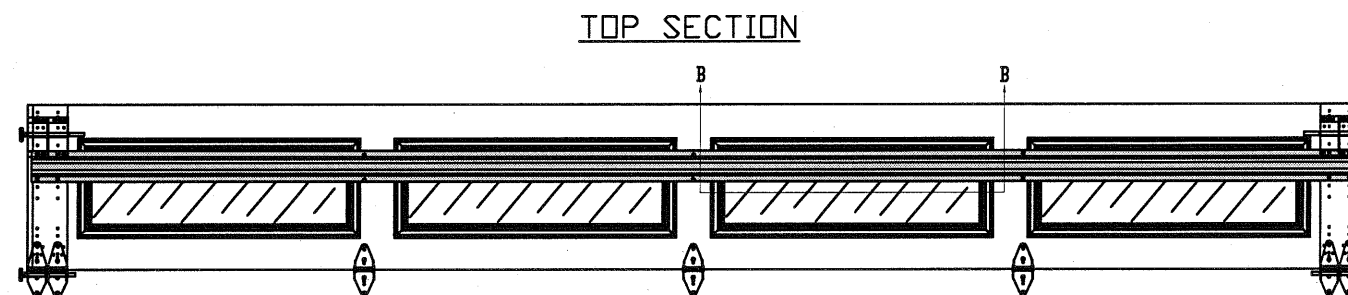
TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 1 ON PAGE 4



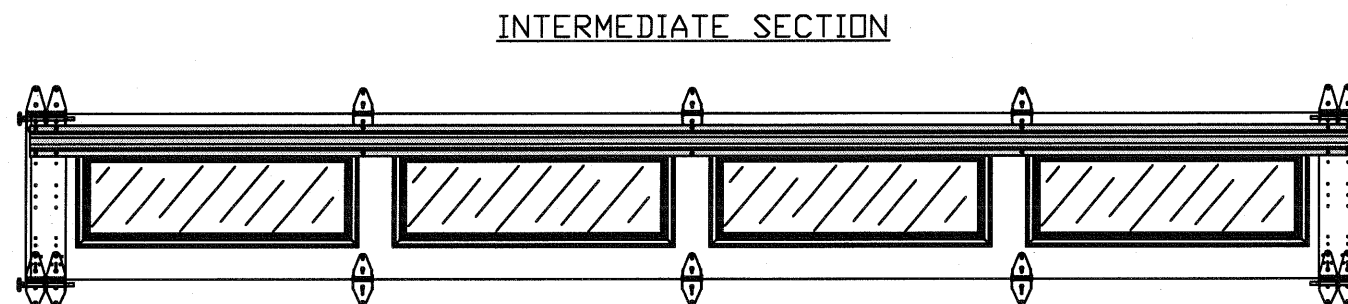
LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



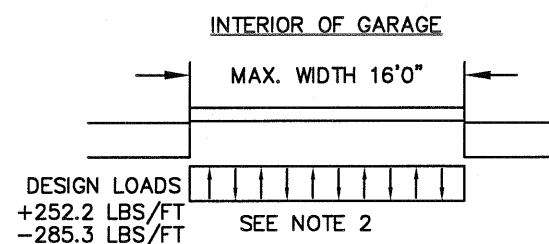
OPTIONAL GLAZED SECTION W/LONG PANEL IMPACT WINDOWS
N.T.S.



OPTIONAL GLAZED SECTION W/LONG PANEL IMPACT WINDOWS
N.T.S.

SPECIFICATIONS AND NOTES

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: +252.2 LBS/FT & -285.3 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, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 24'0" HIGH USE (1) 5.5" 18GA R-TRUSS PER SECTION AND (1) 3" 20GA STRUT ON 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 16'2 x 24' DESIGN LOADS +31.2 PSF -35.3 PSF TEST LOADS +46.8 PSF -53.0 PSF LARGE MISSILE IMPACT RESISTANCE 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 1000 AMARR 2432			
SIZE	DRAWN BY DRD	DATE 11/18/16	DRAWING NUMBER
B	CHECKED BY RLR	DATE 12/05/16	IBC-1016-150-26-1
ENTREMATRIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 3 OF 4

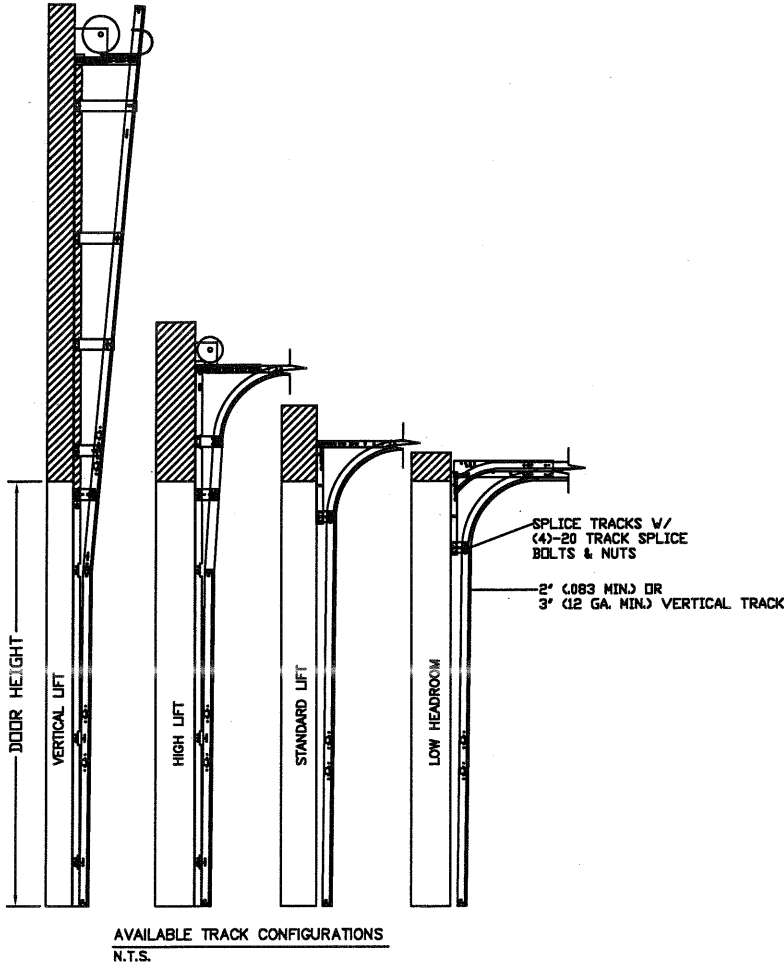
TABLE 1

DOOR HEIGHT	TRACK ATTACHMENT																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"																	
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"													
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"												
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
23' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	
24' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY

TABLE 2

Section Width (ft)	Center Stile Locations (From Left Edge)			Max Design Loads Allowed	
	1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
9' 4"	36"	76"	-	39.6	44.8
9' 6"	37"	77"	-	39.1	44.2
9' 8"	38"	78"	-	38.6	43.6
9' 10"	39"	79"	-	38.1	43.1
10' 0"	40"	80"	-	37.6	42.5
10' 2"	41"	81"	-	37.1	42.0
10' 4"	42"	82"	-	36.7	41.5
10' 6"	43"	83"	-	36.2	41.0
10' 8"	44"	84"	-	35.8	40.5
10' 10"	45"	85"	-	35.4	40.0
11' 0"	46"	86"	-	35.0	39.6
11' 2"	47"	87"	-	34.6	39.1
11' 4"	48"	88"	-	34.2	38.7
11' 6"	49"	89"	-	33.8	38.2
11' 8"	50"	90"	-	33.4	37.8
11' 10"	51"	91"	-	33.0	37.4
12' 0"	48"	96"	-	31.3	35.4
12' 2"	49"	97"	-	31.0	35.1
12' 4"	50"	98"		30.7	34.7
12' 6"	51"	99"		30.4	34.4
12' 8"	52"	100"		30.1	34.0
12' 10"	53"	101"		29.8	33.7
13' 0"	36"	78"	120"	35.8	40.5
13' 2"	37"	79"	121"	35.8	40.5
13' 4"	38"	80"	122"	35.8	40.5
13' 6"	39"	81"	123"	35.8	40.5
13' 8"	40"	82"	124"	35.8	40.5
13' 10"	41"	83"	125"	35.8	40.5
14' 0"	42"	84"	126"	35.8	40.5
14' 2"	43"	85"	127"	35.4	40.0
14' 4"	44"	86"	128"	35.0	39.6
14' 6"	45"	87"	129"	34.6	39.1
14' 8"	46"	88"	130"	34.2	38.7
14' 10"	47"	89"	131"	33.8	38.2
14' 0"	48"	90"	132"	33.4	37.8
15' 2"	49"	91"	133"	33.0	37.4
15' 4"	50"	92"	134"	32.7	37.0
15' 6"	51"	93"	135"	32.3	36.6
15' 8"	52"	94"	136"	32.0	36.2
15' 10"	53"	95"	137"	31.6	35.8
16' 0"	48"	96"	144"	31.3	35.4
16' 2"	49"	97"	145"	31.2	35.3



REV	DESCRIPTION OF REVISIONS	DATE	BY
MAX SIZE 16'2 x 24'			
DESIGN LOADS +31.2 PSF -35.3 PSF			
TEST LOADS +46.8 PSF -53.0 PSF			
LARGE MISSILE IMPACT RESISTANCE			
Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #294112)		FL	
MODEL 1000 AMARR 2432			
SIZE	DRAWN BY	DRD	DATE 11/18/16
B	CHECKED BY	RLR	DATE 12/05/16
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			DRAWING NUMBER IEC-1016-150-26-1 SHEET 4 OF 4