



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)

**Amarr Garage Doors**  
**165 Carriage Court**  
**Winston-Salem, NC 27105**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Models 2400/2000 (I/S) Steel Sectional Garage Door (9'-2" wide)**

**APPROVAL DOCUMENT:** Drawing No. **IRC-2409-177-21-I**, titled "Commercial Models 2400 (I/S) (24GA), 2000 (I/S) (20GA), Flush and Ribbed Panels", sheets 1 and 2 of 2, dated 07/29/08, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**LIMITATION:** This approval requires the manufacturer to do testing of all coils used to fabricate door panels under this Notice of Acceptance. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office: a copy of the tested reports with confirmation that the specimen were selected from coils at the manufacturer production facilities. And a notarized statement from the manufacturer that only coils with yield strength of **33,700 psi** or more shall be used to make door panels for Dade County under this Notice of Acceptance.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Signature]*  
 10/28/08

**NOA No. 08-1003.08**  
**Expiration Date: November 20, 2013**  
**Approval Date: November 20, 2008**  
 Page 1

Amarr Garage Doors

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **IRC-2409-177-21-I**, titled "Commercial Models 2400 (I/S) (24GA), 2000 (I/S) (20GA), Flush and Ribbed Panels", sheets 1 and 2 of 2, dated 07/29/08, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E.

**B. TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
5) Tensile Test, per ASTM E8  
along with marked-up drawings and installation diagram of Amarr 9'-2"x 8' 24 ga steel garage door Model 2400, prepared by American Test Lab, Inc, Test Report No. **ATLNC 0721.01-08**, dated 08/06/08, signed and sealed by David W. Johnson, P.E.
2. Test report on 1000 hours salt spray corrosion exposure comparison per ASTM D1654 (ASTM B117) of G-60 painted and G-90 steel panels, prepared by ETC Laboratories, Test Report No. **ETC-07-816-20337.0**, dated 03/24/08, signed and sealed by Joseph L. Doldan, P.E.

**C. CALCULATIONS**

1. Track-Structure attachment calculations, prepared by Structural Solutions, P.A., complying with F.B.C 2004, dated 09/09/08, signed and sealed by Thomas L. Shelmerdine, P.E.

**D. QUALITY ASSURANCE**

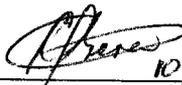
1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **07-1107.08**, issued to Dyplast Products LLC., for their EPS Block Type Insulation, approved on 02/28/08, and expiring on 01/11/12.

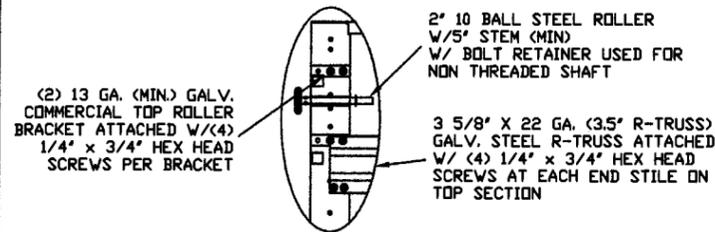
**F. STATEMENTS**

1. Letter of code compliance and no financial interest, issued by Structural Solutions, P.A, dated 09/09/08, signed and sealed by Thomas L. Shelmerdine, P.E.

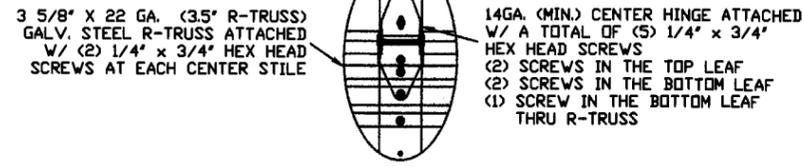
 10/28/08

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 08-1003.08

Expiration Date: November 20, 2013  
Approval Date: November 20, 2008



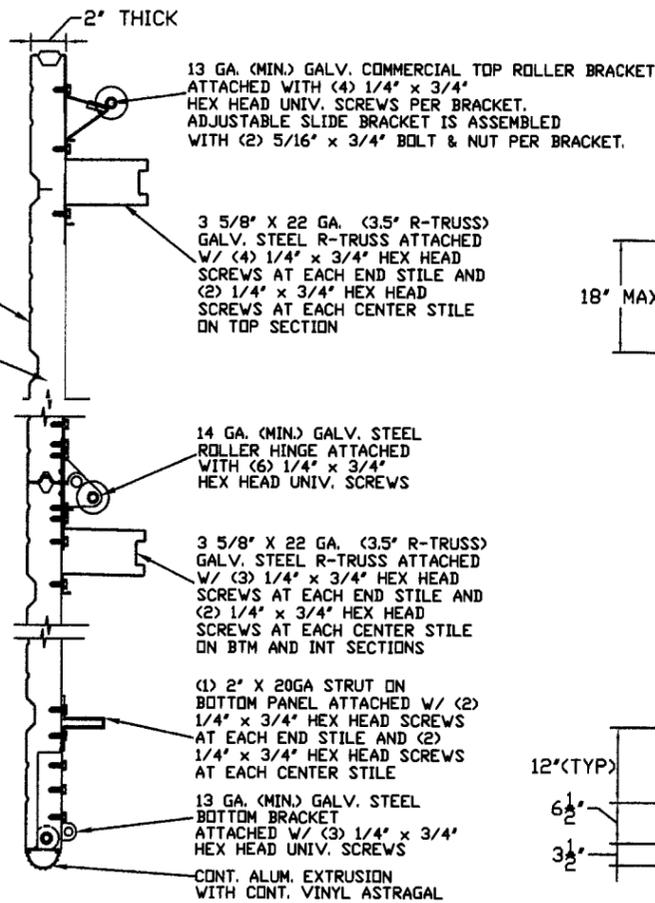
TYPICAL TOP FIXTURE  
N.T.S. 1



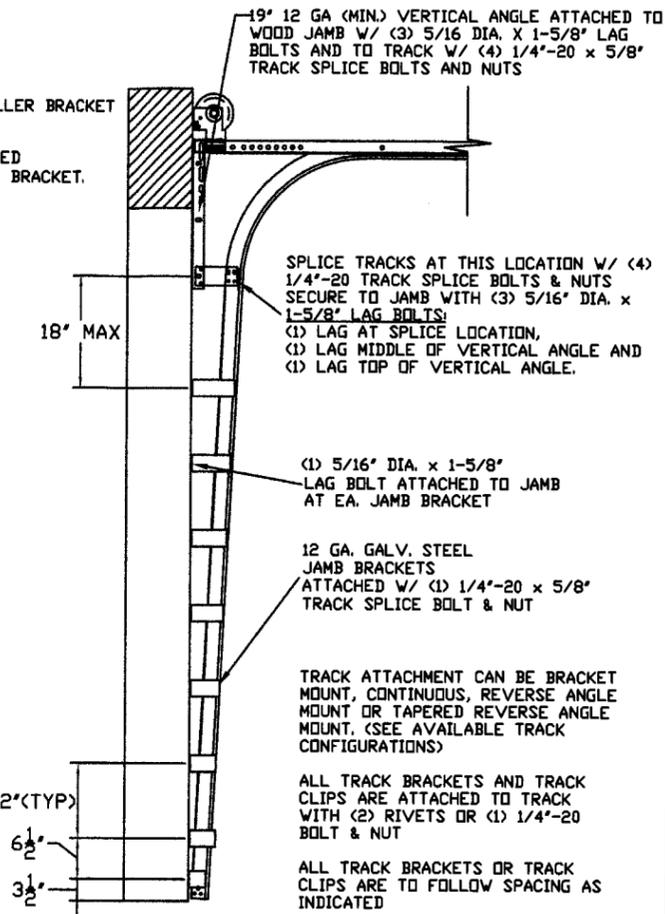
TYPICAL CENTER HINGE  
N.T.S. 2

24 GA. (.022" MIN) OR 20 GA  
(G-60 MIN) PREPAINTED STEEL

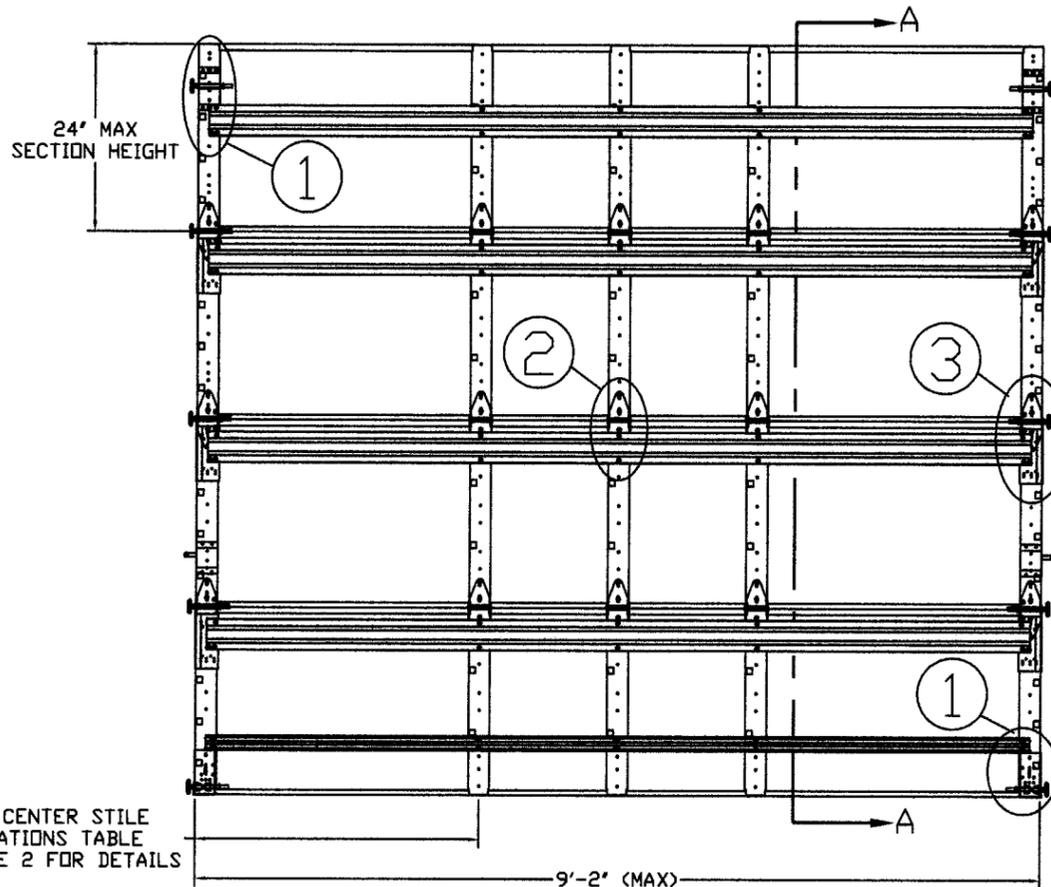
OPTIONAL POLYSTYRENE  
INSULATION WITH HAIRCELL OR  
STEEL BACKER (I AND S MODELS)



SECTION A-A (SIDE VIEW)



TRACK CONFIGURATION FOR UP TO 24' TALL DOORS

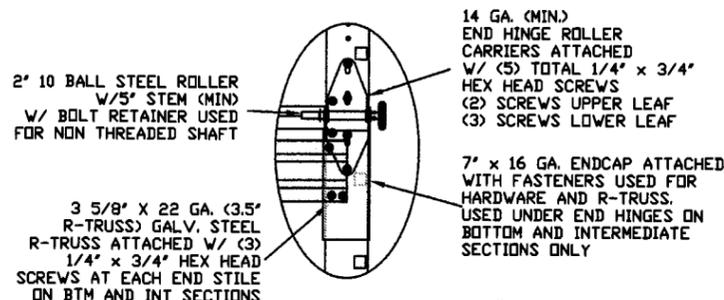


INSIDE ELEVATION  
N.T.S.

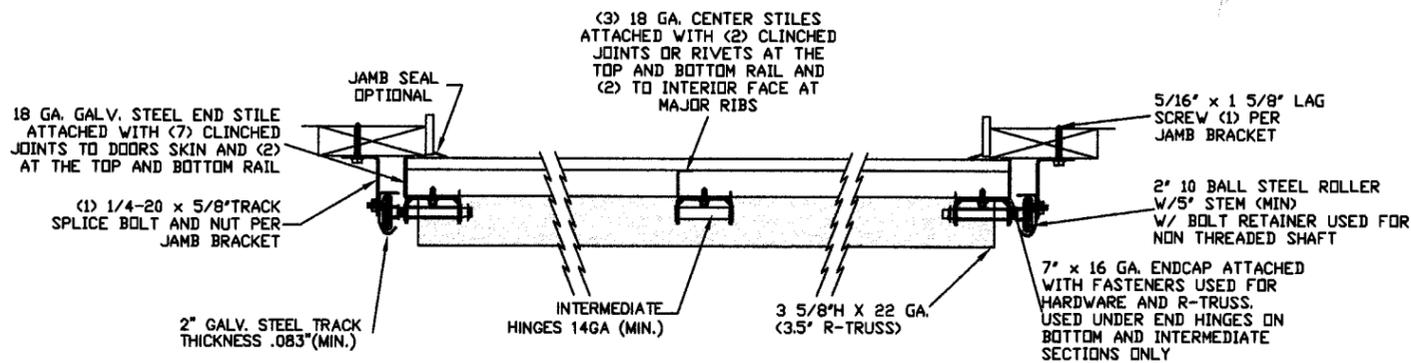
SEE CENTER STILE  
LOCATIONS TABLE  
ON PAGE 2 FOR DETAILS

SLIDE LOCK ENGAGES  
VERTICAL TRACK ON EACH SIDE  
(SNAP LATCH, OR LOCK BAR OPTIONAL)  
ATTACH W/(2) 1/4" x 3/4"  
HEX HEAD SCREWS

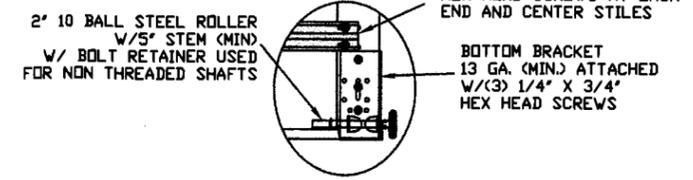
Approved as complying with the  
Florida Building Code  
Date 11/20/2008  
NOA# 03-1002.08  
Miami Dade Product Control  
Division  
By [Signature]



TYPICAL END HINGE  
N.T.S. 3

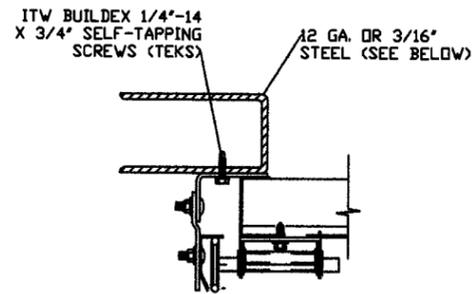


TRACK MOUNTING DETAIL  
N.T.S.



TYPICAL BOTTOM BRACKET  
N.T.S. 4

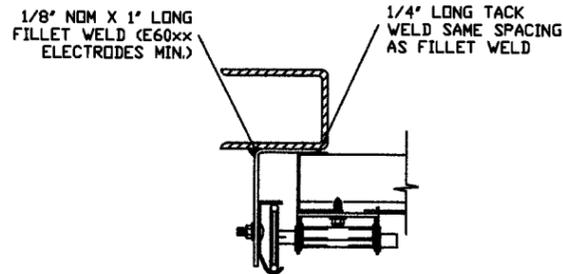
REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE WIDTH 9'2" HEIGHT 24'1"		
	DESIGN LOADS +50.0 PSF -62.0 PSF		
	LARGE MISSILE IMPACT RESISTANCE		
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105 WWW.AMARR.COM			
<b>COMMERCIAL MODEL 2400, 2400I, 2400S (24 GA)</b> <b>COMMERCIAL MODEL 2000, 2000I, 2000S (20 GA)</b> <b>FLUSH AND RIBBED PANELS</b>			
SIZE	DRAWN BY SKW	DATE 07/29/08	DRAWING NUMBER
B	CHECKED BY SKW	DATE 07/29/08	IRC-2409-177-21-I
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 1 OF 2			



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

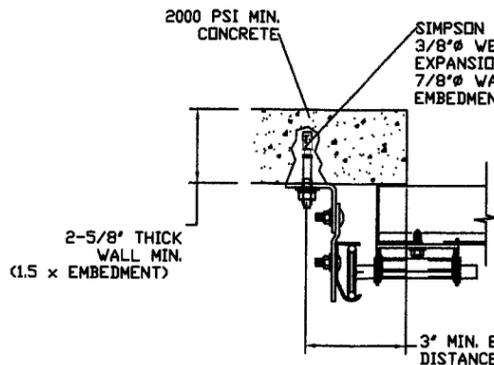
**12 GA. STEEL FRAMING**  
211 LBS/SCREW ALLOWABLE LOAD - 3' FROM ENDS AND 10' O.C.  
REFER TO NOTES: 1, 2 AND 5

**3/16\"/>STEEL FRAMING**  
431 LBS/SCREW ALLOWABLE LOAD - 6' FROM ENDS AND 18' O.C.  
REFER TO NOTES: 1, 2 AND 5



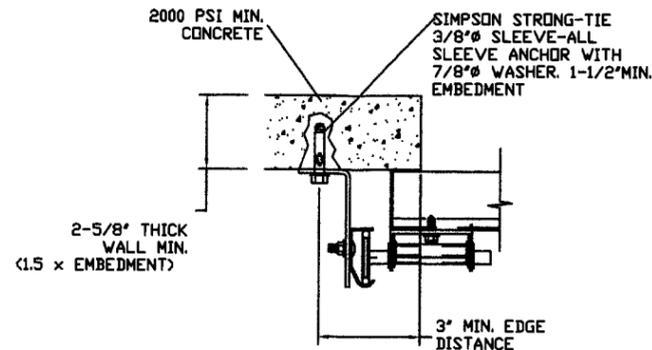
TAPERED REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND REVERSE  
ANGLE MOUNT AVAILABLE

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



CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET MOUNT AVAILABLE

**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

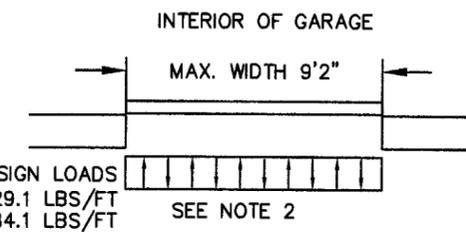


BRACKET MOUNT SHOWN  
CONTINUOUS MOUNT AVAILABLE

**2000 PSI CONCRETE OR GREATER**  
336 LBS ANCHOR ALLOWABLE LOAD - 6' FROM ENDS AND 16' O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5

**SPECIFICATIONS AND NOTES**

- 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.
- EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +229.1 LBS/FT & -284.1 LBS/FT
- DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, G-40 GALVANIZATION W/ BAKED ON POLYESTER FINISH
- DOORS UP TO 24'0" HIGH USE (1) 3 5/8" R-TRUSS PER SECTION AND (1) 2" 20GA STRUT ON BOTTOM SECTION
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
- THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN ASTM E330, ANSI/DASMA 108, ANSI/DASMA 115, ASTM 1886, ASTM 1996, ASTM F588, ASCE 7 AND FLA. BUILDING CODE PROTOCOLS TAS 201, 202, 203.
- THIS APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE COUNTY APPROVED LAB SELECTED AND PAID BY THE MANUFACTURER. EVERY 3 MONTHS, 4 TIMES A YEAR, THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES. AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 33,500 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.



DESIGN LOADS  
+229.1 LBS/FT  
-284.1 LBS/FT  
SEE NOTE 2

Approved as complying with the  
Florida Building Code  
Date 11/20/2008  
NOA# 108-1003-08  
Miami Dade Product Control  
Division  
By [Signature]

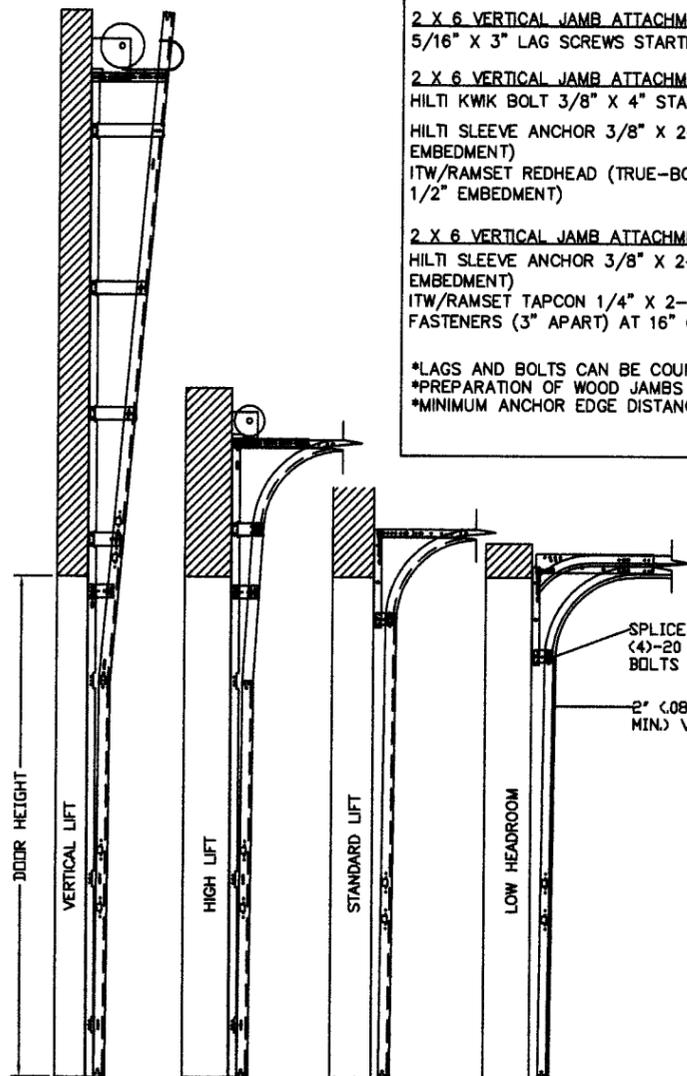
**WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)**

**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 1/4" 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 (TRUE-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

**2 X 6 VERTICAL JAMB ATTACHMENT TO C-90 BLOCK**  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 22" O.C. (1 1/4" EMBEDMENT)  
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

\*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.  
\*PREPARATION OF WOOD JAMBS BY OTHERS  
\*MINIMUM ANCHOR EDGE DISTANCE 2-3/4"



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

Section	Center Stile Locations (Measured from Left Edge)		
	Width (ft)	1st (in)	2nd (in)
6'0	18.00"	36.00"	54.00"
6'2	19.00"	37.00"	55.00"
6'4	20.00"	38.00"	56.00"
6'6	21.00"	39.00"	57.00"
6'8	22.00"	40.00"	58.00"
6'10	23.00"	41.00"	59.00"
7'0	24.00"	42.00"	60.00"
7'2	25.00"	43.00"	61.00"
7'4	26.00"	44.00"	62.00"
7'6	27.00"	45.00"	63.00"
7'8	28.00"	46.00"	64.00"
7'10	29.00"	47.00"	65.00"
8'0	30.00"	48.00"	66.00"
8'2	31.00"	49.00"	67.00"
8'4	32.00"	50.00"	68.00"
8'6	33.00"	51.00"	69.00"
8'8	34.00"	52.00"	70.00"
8'10	35.00"	53.00"	71.00"
9'0	36.00"	54.00"	72.00"
9'2	37.00"	55.00"	73.00"

SPLICE TRACKS W/  
(4)-20 TRACK SPLICE  
BOLTS & NUTS

2" (.083 MIN.) OR 3" (.12 GA.  
MIN.) VERTICAL TRACK

**NOTES:**

- ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
- 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.
- MIN. EDGE DISTANCE OF 3" REQUIRED.
- USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
- MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
- ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
- FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
- TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX SIZE WIDTH 9'2" HEIGHT 24'1"		
	DESIGN LOADS +50.0 PSF -62.0 PSF		
	LARGE MISSILE IMPACT RESISTANCE		
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM <b>COMMERCIAL MODEL 2400, 2400I, 2400S (24 GA)</b> <b>COMMERCIAL MODEL 2000, 2000I, 2000S (20 GA)</b> <b>FLUSH AND RIBBED PANELS</b>			
SIZE	DRAWN BY SKW	DATE 07/29/08	DRAWING NUMBER
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ENGINEER: THOMAS L. SHELMEADINE P.E. LIC. No. 0048579			SHEET 2 OF 2