



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**JB Garage Door, Inc.**  
**12195 NW 98<sup>th</sup> Avenue**  
**Hialeah Gardens, FL 33018**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 724/720 Steel Sectional Garage Door up to 12'-4" Wide x 18' High**

**APPROVAL DOCUMENT:** Drawing No. **96-46**, titled "Steel Overhead Garage Door", sheets 1 through 5 of 5, dated 10/31/1996, with revision J dated 07/10/2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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

**LABELING:** A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

**LIMITATION: This door has not been tested for air infiltration.**

**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.

**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 **revises NOA # 20-0310.19** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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



**NOA No. 20-0819.09**  
**Expiration Date: October 16, 2025**  
**Approval Date: October 29, 2020**  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous NOAs**

**A. DRAWINGS “Submitted under NOA # 14-1014.08”**

1. Drawing No. **96-46**, titled “Steel Overhead Garage Door”, dated 10/31/1996, with last revision H dated 07/21/2014, sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS “Submitted under NOA # 10-0527.02”**

1. Test Report on Tensile Test per ASTM E-8 of “Sectional Residential Door (skin)”, prepared by Hurricane Engineering & Testing Inc, Report No. **HETI 08-T113**, dated 03/20/2008, signed and sealed by Candido F. Font, P.E.

**“Submitted under NOA # 05-0922.01”**

2. Test report on Uniform Static Air Pressure Test per FBC, TAS 202 & Forced Entry Resistance Test per SFBC, Section 3603.2 of Series 724 Garage Door, prepared by Hurricane Engineering & Testing Inc., Report No. **HETI-05-1477**, dated 05/19/2005, signed and sealed by Ivonne Ghia, P.E.
3. Test report on Large Missile Impact Test per FBC, TAS 201 and Cyclic Wind Pressure Test per FBC, TAS 203 of Series 724 Garage Door, prepared by Hurricane Engineering & Testing Inc., Report No. **HETI-05-1457**, dated 05/27/2005, signed and sealed by Ivonne Ghia, P.E.

**C. CALCULATIONS “Submitted under NOA # 14-1014.08”**

1. Anchoring verification calculations prepared by Al-Farooq Corporation, dated 09/23/2014, signed and sealed by Javad Ahmad, P.E.

**“Submitted under NOA # 09-0212.09”**

2. Anchoring verification calculations prepared by Al-Farooq Corporation, complying with F.B.C 2007, dated 12/31/2008, signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)



**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0819.09**

**Expiration Date: October 16, 2025**  
**Approval Date: October 29, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0311.08**, issued to Insulfoam, LLC, for their Insulfoam Expanded Polystyrene Insulation, approved on 08/14/2014 and expiring on 11/29/2017.
2. Notice of Acceptance No. **11-0926.07**, issued to Dyplast Products, LLC, for their Expanded Polystyrene Block Type Insulation, approved on 11/10/2011 and expiring on 01/11/2017.
3. Notice of Acceptance No. **11-0926.06**, issued to Dyplast Products, LLC, for their Dyplast ISO-C1 Polyisocyanurate Insulation, approved on 11/10/2011 and expiring on 01/11/2017.
4. Notice of Acceptance No. **10-1129.04**, issued to Cellofoam North America Inc, for their Expanded Polystyrene Block Insulation, approved on 02/24/2011 and expiring on 02/24/2016.

**F. STATEMENTS “Submitted under NOA # 14-1014.08”**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC and no financial interest issued by Al-Farooq Corporation, dated 09/23/2014, signed and sealed by Javad Ahmad, P.E.
2. *“Submitted under NOA # 12-0113.05”*  
Statement letter of code conformance to 2010 FBC and no financial interest issued by Al-Farooq Corporation, dated 11/21/2011, signed and sealed by Javad Ahmad, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0819.09**  
**Expiration Date: October 16, 2025**  
**Approval Date: October 29, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUB**

**2. Evidence submitted under NOA # 20-0310.19**

**A. DRAWINGS**

1. Drawing No. **96-46 REVI**, titled “Steel Overhead Garage Door”, sheets 1 through 5 of 5, dated 10/31/1996, with revision I dated 10/051/2017, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. CALCULATIONS**

1. None.

**C. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0221.06**, issued to Insulfoam, LLC, for their Insulfoam Expanded Polystyrene Insulation, expiring on 11/29/2022.
2. Notice of Acceptance No. **16-1108.04**, issued to Dyplast Products, LLC, for their Dyplast ISO-C1 Polyisocyanurate Insulation, expiring on 01/11/2022.
3. Notice of Acceptance No. **15-1203.04**, issued to Cellofoam North America Inc, for their Expanded Polystyrene Block Insulation, expiring on 02/24/2021.
4. Notice of Acceptance No. **15-0915.08**, issued to SABIC Innovative Plastics, for their Lexan Sheet Products, expiring on 07/17/2018.

**E. STATEMENTS**

1. Statement letter of conformance to FBC 2014 (5<sup>th</sup> Edition) and FBC 2017 (6<sup>th</sup> Edition), prepared by Al Farooq Corporation, dated 10/11/17, signed and sealed by Javad Ahmad, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0819.09**  
**Expiration Date: October 16, 2025**  
**Approval Date: October 29, 2020**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **96-46**, titled “Steel Overhead Garage Door”, sheets 1 through 5 of 5, dated 10/31/1996, with revision J dated 07/10/2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

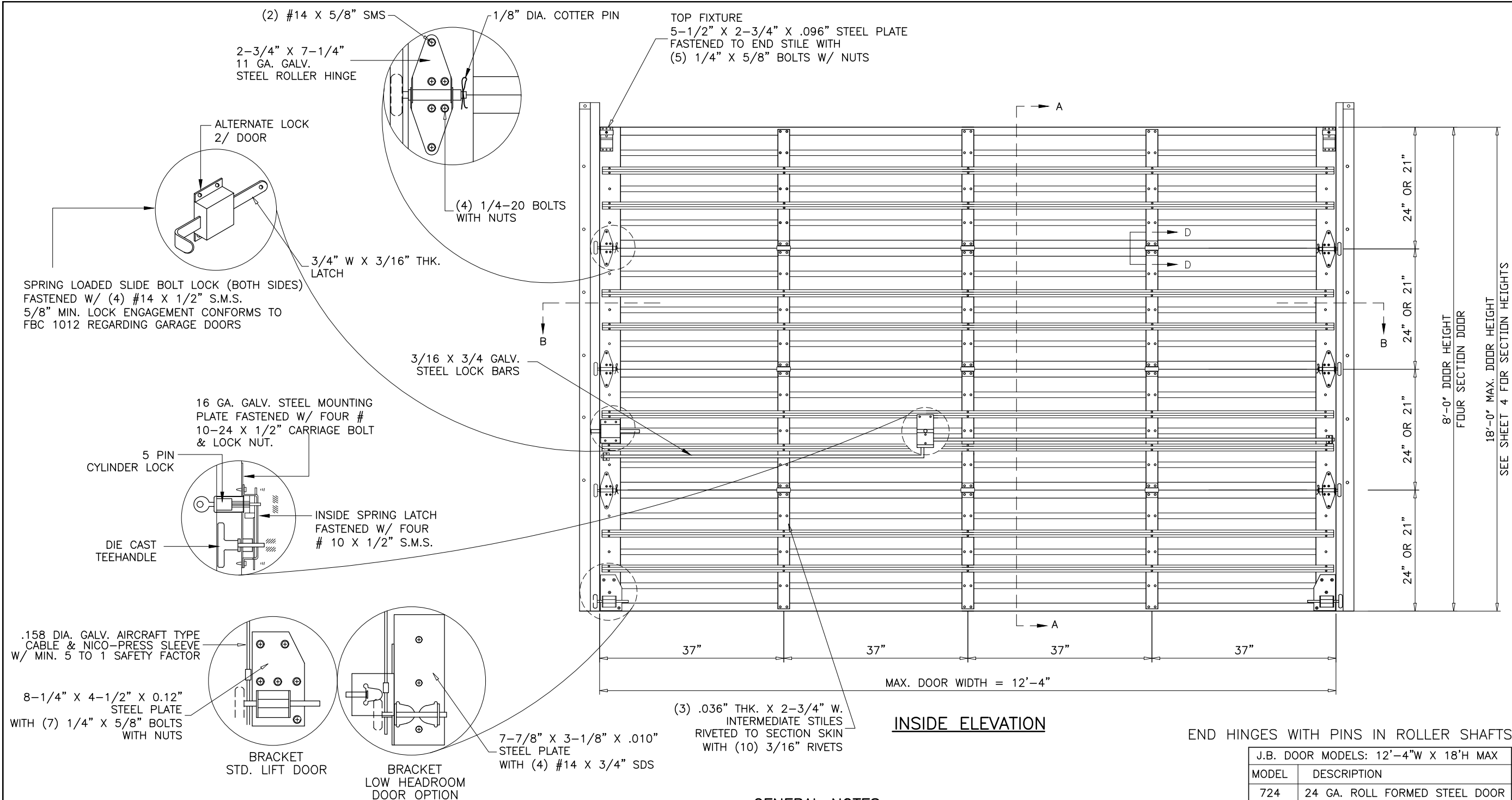
**F. STATEMENTS**

1. Statement letter of code conformance to the 6<sup>th</sup> edition (2017) and 7<sup>th</sup> edition (2020) FBC and of no financial interest issued by Al-Farooq Corporation, dated 07/15/2020, signed and sealed by Jalal Farooq, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0819.09**  
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INSIDE ELEVATION

GENERAL NOTES

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
4. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
5. THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
6. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

END HINGES WITH PINS IN ROLLER SHAFTS

J.B. DOOR MODELS: 12'-4"W X 18'H MAX		
MODEL	DESCRIPTION	
724	24 GA. ROLL FORMED STEEL DOOR	
720	20 GA. ROLL FORMED STEEL DOOR	


NOTE: MODEL 724 TESTED.

MAXIMUM DESIGN LOAD RATING = + 60.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 60.0 PSF



Sealed: 8/13/20

THIS PRODUCT IS RATED FOR LARGE MISSILE IMPACT

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0819.09  
Expiration Date 10/16/2025  
By   
Miami-Dade Product Control



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
GARAGE\96-46JB

STEEL OVERHEAD GARAGE DOOR

**J.B. Garage Doors Inc.**  
12195 N.W. 98th Ave.  
Hialeah Gardens, FL 33018  
Tel: (305) 822-7870 Fax: (305) 362-9272

no	date	by	description
F	01.06.10		ENGR. NAME CHANGED
G	11.21.11		UPDATED TO 2010 FBC
H	07.21.14		UPDATED TO 2014 FBC
I	10.05.17		UPDATED TO 2017 FBC
J	07.10.20		UPDATED TO 2020 FBC

date: 10-31-96  
scale: NONE  
dr. by: TARIQ  
chk. by:

drawing no.  
**96-46**  
sheet 1 of 5

1-1/4" X 2-1/2" X 14 GA.  
GALV. STEEL CONT. ANGLE  
FASTENED TO WOOD JAMBS  
W/ 5/16 X 1-5/8" LAG SCREWS  
(FULLY THREADED)  
HEX WASHER HEAD TYPE A  
AT 3" FROM EACH END  
AND 12" O.C. MAX.

OPTIONAL STOP MOULDING  
BY DOOR INSTALLER

3 X 2 X .052" THK.  
DIE FORMED STEEL END STILE  
RIVETED TO SECTION SKIN  
WITH (10) RIVETS

1/4-20 X 5/8" HEX HEAD  
M.S. & LOCK NUT 4/ HINGE

1/4" X 5/8" S.M.S.  
2/ HINGE

STEEL STRUCTURE BY OTHERS  
MUST SUPPORT THE LOADS IMPOSED  
BY DOOR SYSTEM

2-1/2" X 3-7/8" X 12 GA.  
GALV. STEEL TRACK PLATES @  
12" O.C. SPOT WELDED TO 14  
GA. ANGLE

1.82" DIA. X .50" ROLLERS  
W/ .43 DIA. X 7" STEM

1" X 2" X 14 GA. GALV. STEEL  
TRACK FASTENED TO TRACK PLATES  
W/ (2) 1/4-20 X 5/8" TRUSS HD.  
SLOTTED M.S. & LOCK NUT

2-3/4" X 2-1/4" X 14 GA.  
GALV. STEEL CENTER HINGE

ROLLER HINGE

1/8" DIA. COTTER PIN

INTERIOR SIDE

SECTION B-B

FOR CONNECTION OF WOOD BUCK  
TO MASONRY SEE NOTE ON SHEET 5  
FOR CONNECTION DIRECTLY TO CONCRETE  
SEE ALTERNATE DETAIL SHEET 5  
CONNECTION TO METAL BUILDING TO BE  
ENGINEERED ON JOB TO JOB BASIS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 20-0819.09

Expiration Date 10/16/2025

By *R. Tariq*  
Miami-Dade Product Control

Sealed: 8/13/20



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978 FAX. (305) 262-6978  
(C.A.N. 3538)

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revisions:		no	date	by	description
F	01.06.10			ENGR. NAME CHANGED	
G	11.21.11			NO CHANGE THIS SHEET	
H	07.21.14			NO CHANGE THIS SHEET	
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J	07.10.20			EDITORIAL CHANGES	

date: 10-31-96

scale: NONE

dr. by: TARIQ

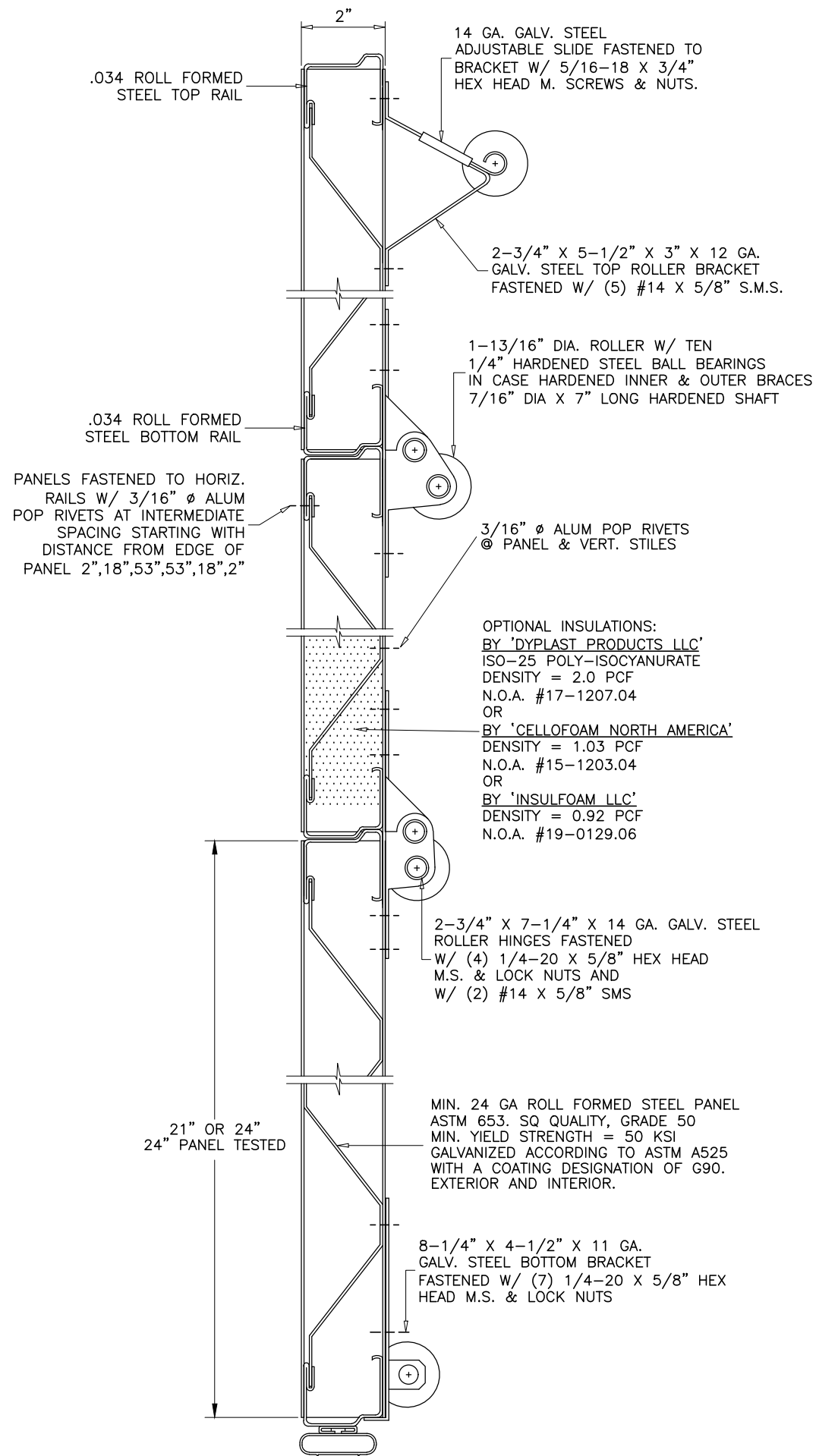
chk. by:

drawing no.

96-46

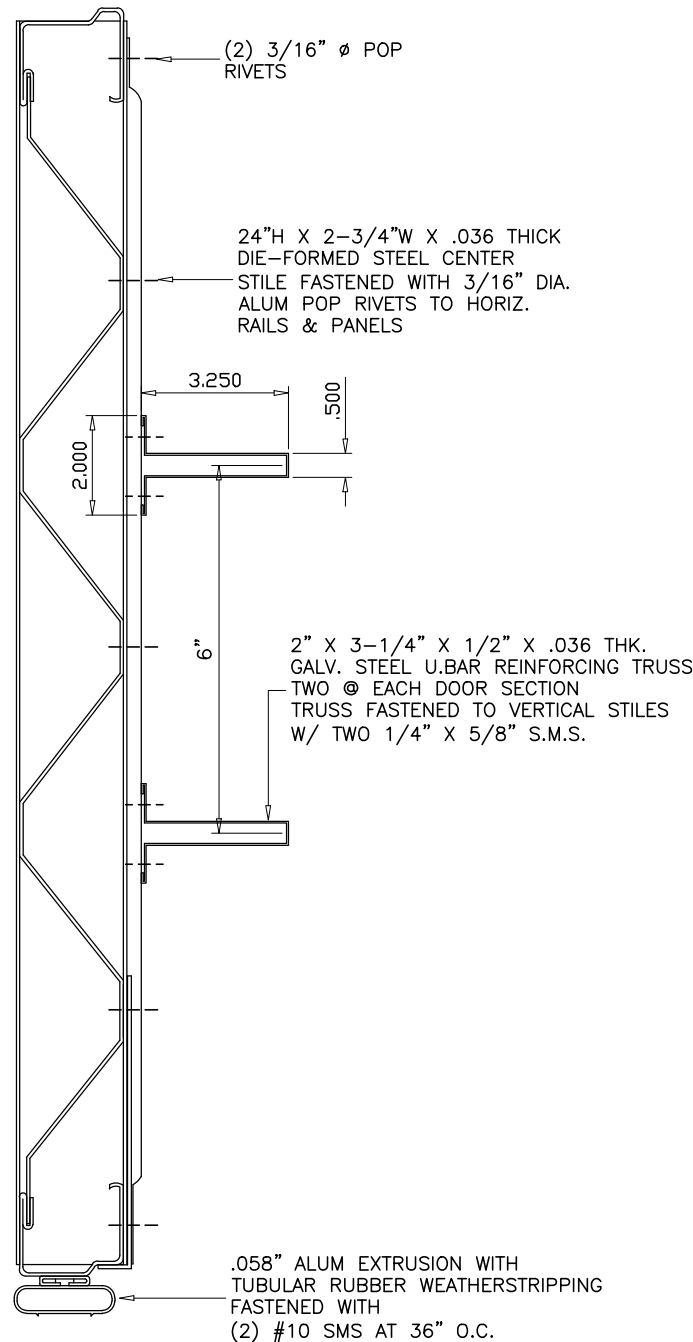
sheet 2 of 5



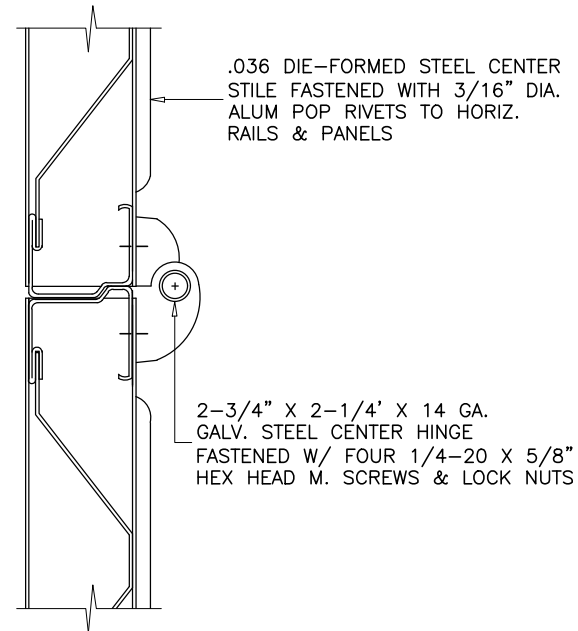


**SECTION A-A**

SEE SECTIONS AT RIGHT FOR LOCATION OF REINFORCING TRUSSES



**PANEL SECTION REINFORCEMENT**



**SECTION D-D**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0819.09  
Expiration Date 10/16/2025  
By *[Signature]*  
Miami-Dade Product Control



Sealed: 8/13/20

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**a f c**  
GARAGE\96-46JB

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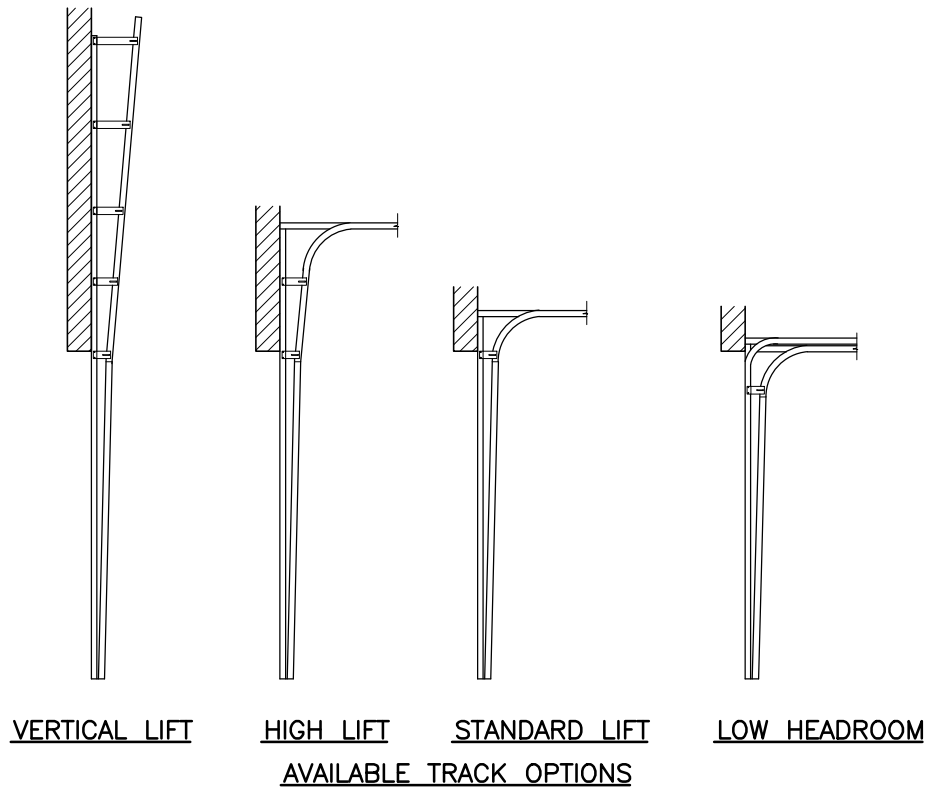
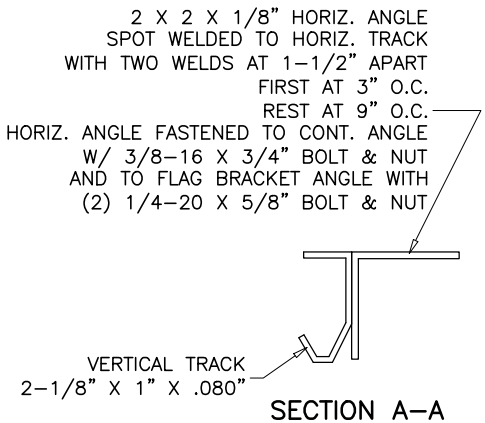
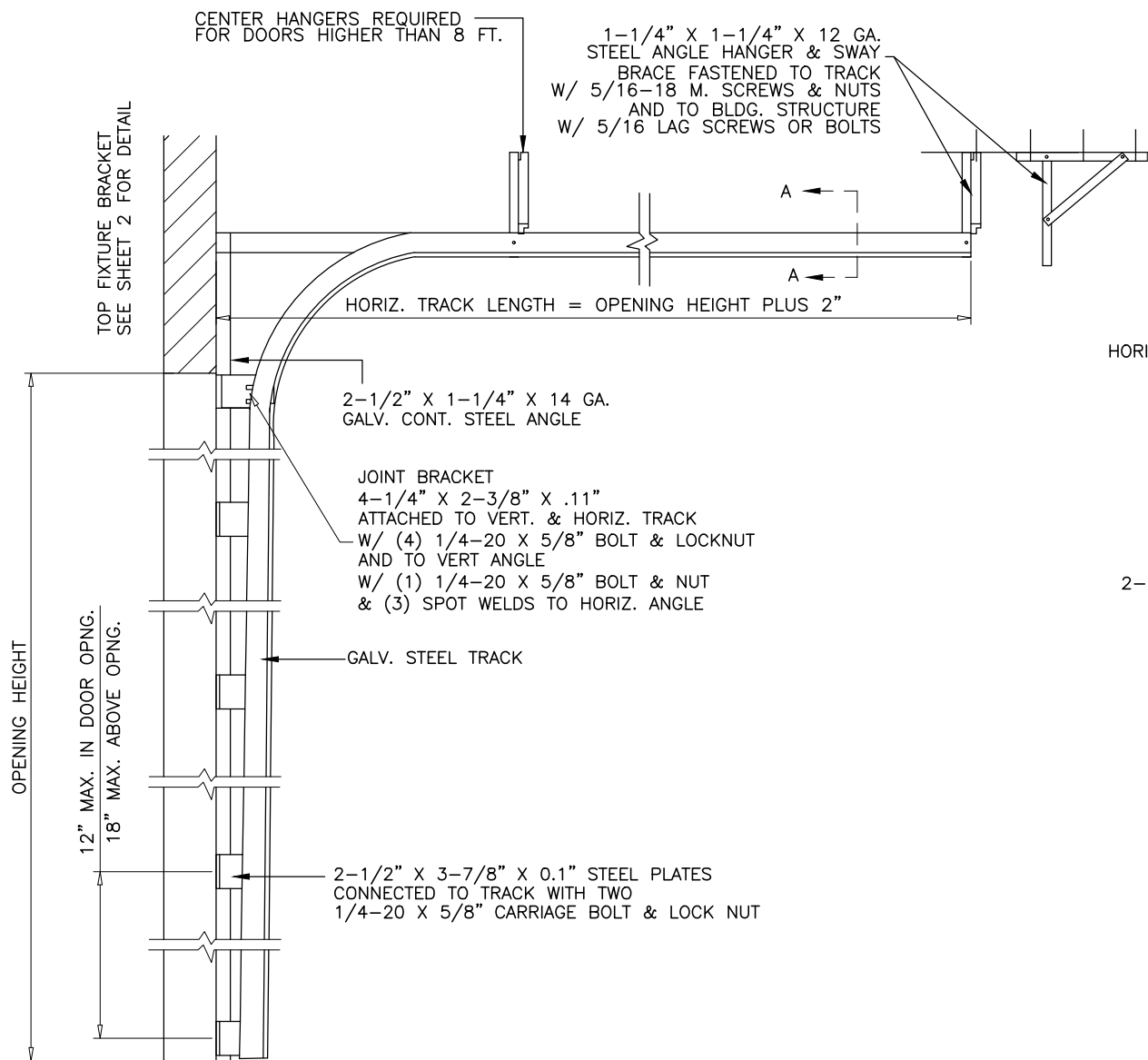
date: 10-31-96	scale: NONE	dr. by: TARIQ	chk. by:	
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drawing no.  
**96-46**

sheet 3 of 5





DOOR TRACK AS VIEWED  
FROM CENTER OF OPENING

DOOR HEIGHT	NO. OF TRUSSES	SECTION HEIGHTS *								
		1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH
7'-0"	8	21"	21"	21"	21"	N/A	N/A	N/A	N/A	N/A
8'-0"	8	24"	24"	24"	24"	N/A	N/A	N/A	N/A	N/A
9'-0"	10	24"	21"	21"	21"	21"	N/A	N/A	N/A	N/A
10'-0"	10	24"	24"	24"	24"	24"	N/A	N/A	N/A	N/A
11'-0"	12	24"	24"	21"	21"	21"	21"	N/A	N/A	N/A
12'-0"	12	24"	24"	24"	24"	24"	24"	N/A	N/A	N/A
13'-0"	14	24"	24"	24"	21"	21"	21"	21"	N/A	N/A
14'-0"	14	24"	24"	24"	24"	24"	24"	24"	N/A	N/A
15'-0"	16	24"	24"	24"	24"	21"	21"	21"	21"	N/A
16'-0"	16	24"	24"	24"	24"	24"	24"	24"	24"	N/A
17'-0"	18	24"	24"	24"	24"	24"	21"	21"	21"	21"
18'-0"	18	24"	24"	24"	24"	24"	24"	24"	24"	24"

\*-SECTIONS ARE NUMBERED STARTING AT THE BOTTOM

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
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Expiration Date 10/16/2025  
By *[Signature]*  
Miami-Dade Product Control



Sealed: 8/13/20

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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date: 10-31-96	scale: NONE	dr. by: TARIQ	chk. by:
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drawing no.  
**96-46**  
sheet 4 of 5

GARAGE\96-46JB

WOOD FRAME BUILDINGS

STUD WALLS OR DOOR OPENING (NOT BY J.B. DOORS)  
SHALL BE FRAMED SOLID BY NOT LESS THAN  
(3) 2X6 PRESSURE TREATED GRADE 2 SYP OR BETTER  
WOOD STUDS.  
STUD WALLS TO BE CONT. FROM FOOTING TO TIE BEAM.  
ENGINEER OF RECORD TO VERIFY ADEQUACY OF THE  
SUPPORTING STRUCTURE.

WOOD BUCK CONNECTION TO MASONRY

TRACK SHALL BE SECURED WITH CONT. STEEL ANGLE TO PRESSURE  
TREATED 2X6 SYP WOOD JAMBS WHICH SHALL BE ANCHORED TO  
GROUTED REINFORCED MASONRY BLOCK WALL OR CONC. COLUMN WITH

1/4" ULTRACON+ BY 'DEWALT' WITH SPACING OF  
8" O.C. INTO GROUT FILLED BLOCK WALL, WITH 2-1/4" MIN. EMBED  
9" O.C. INTO 3000 PSI CONCRETE, WITH 1-3/4" MIN. EMBED  
2-1/2" MIN. EDGE DISTANCE

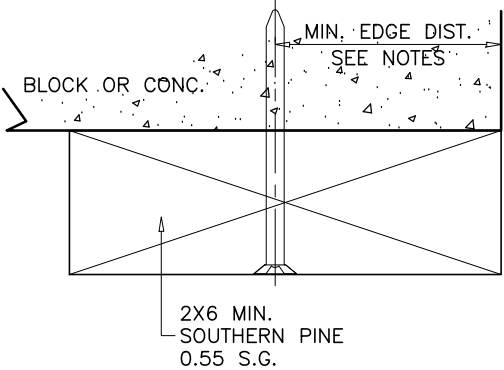
1/4" TAPPER BY 'POWERS' WITH SPACING OF  
6" O.C. INTO GROUT FILLED BLOCK WALL, WITH 1-1/2" MIN. EMBED  
7" O.C. INTO 3000 PSI CONCRETE, WITH 1-3/4" MIN. EMBED  
3" MIN. EDGE DISTANCE

3/8" CONFLEX BY 'DEWALT' OR  
3/8" LDT BY 'ITW' WITH SPACING OF  
15" O.C. INTO 3000 PSI CONCRETE, WITH 2-1/2" MIN. EMBED  
3" MIN. EDGE DISTANCE

3/8" HLC SLEEVE BY 'HILTI' WITH SPACING OF  
9" O.C. INTO 3000 PSI CONCRETE, WITH 1-1/4" MIN. EMBED AND  
2-1/2" MIN. EDGE DISTANCE

THE BLOCK WALL CELLS SHALL BE GROUT FILLED AND REINFORCED  
WITH FOUR # 5 BARS EXTENDING INTO FOOTING AND INTO TIE BEAMS  
ALL BARS SHALL BE CONTINUOUS FROM TIE BEAMS TO FOOTING.

PREPARATION OF JAMBS BY OTHERS



STEEL STRUCTURE BY OTHERS  
MUST SUPPORT THE LOADS IMPOSED  
BY DOOR SYSTEM

5/16" DIA. BOLTS  
WITH WASHER & NUT  
AT 12" O.C. MAX.


1-1/4" X 2-1/2" X 14 GA  
CONT. STEEL ANGLE

0.10" THK. GALV. STEEL FLAT  
BRACKETS ±3-7/8" LONG  
AT 12" O.C. IN DOOR OPNG.  
AT 18" O.C. ABOVE DOOR OPNG.  
CONNECTED TO CONT. ANGLE  
W/ (3) SPOT WELDS

ANCHOR SPACING				
ANCHORS	STRUCTURE	EMBED	SPACING	EDGE DIST.
3/8" HLC SLEEVE BY 'HILTI'	CONC.	1-1/4"	8-1/2"	2"
3/8" CONFLEX BY 'DEWALT'	FILLED BLOCK	2"	8-1/2"	3-3/4"
3/8" DYNABOLT BY 'ITW'	CONC.	1-1/2"	8-1/2"	3"
3/8" POWER-BOLT BY 'POWERS'	CONC.	2"	8-1/2"	1-7/8"
3/8" SLEEVE-ALL BY 'SIMPSONS'	CONC.	1-1/2"	8-1/2"	3"

CONCRETE f'c = 3000 PSI MIN.  
C-90 GROUT FILLED BLOCK f'm = 2000 PSI MIN.

TRACK INSTALLATION

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0819.09  
Expiration Date 10/16/2025  
By   
Miami-Dade Product Control



Sealed: 8/13/20

a f c

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978 FAX. (305) 262-6978  
(C.A.N. 3538)

GARAGE\96-46JB

STEEL OVERHEAD GARAGE DOOR

**J.B. Garage Doors Inc.**

12195 N.W. 98th Ave.  
Hialeah Gardens, Fl. 33018  
Tel: (305) 822-7870 Fax: (305) 362-9272

revisions:		description	
no	date	by	description
F	01.06.10		ENGR. NAME CHANGED
G	11.21.11		NO CHANGE THIS SHEET
H	07.21.14		UPDATED TO 2014 FBC
I	10.05.17		UPDATED TO 2017 FBC
J	07.10.20		UPDATED TO 2020 FBC

date: 10-31-96	scale: NONE	dr. by: TARIQ	chk. by:
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drawing no.  
**96-46**  
sheet 5 of 5