



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

Mulia, Inc.
16320 Bloomfield Avenue
Cerritos, CA 90703

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: Glass Block Window – N.I.

APPROVAL DOCUMENT: Drawing No. **04-03**, titled “Glass Block Panel Details”, sheets 1 and 2 of 2, dated 01/23/2004, with revision I dated 08/01/2023, 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: None

LABELING: Each glass block shall be permanently labeled with the manufacturer's name (MULIA) and (M) standing for Miami-Dade County.

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 # 20-0910.01** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



NOA No. 23-0803.12
Expiration Date: October 23, 2025
Approval Date: September 21, 2023
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS “Submitted under NOA #15-0916.12”

1. Drawing **04-03**, titled “Glass Block Panel Details”, sheets 1 and 2 of 2, dated 01/23/2004, with revision F dated 11/23/2015, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS “Submitted under NOA # 07-0417.02”

1. Test Report on Uniform Static Air Pressure Test per TAS 202 of “Hollow Glass Block Wall/Window”, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI 05-1452**, dated 05/16/2005 signed and sealed by Ivonne Ghia, P.E.
2. Test Report on Uniform Static Air Pressure Test per TAS 202 of Hollow Glass Block Wall/Window, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI 03-1790**, dated 02/28/2003 signed and sealed by R. Droz-Seda, P.E.

C. CALCULATIONS “Submitted under NOA #15-0916.12”

1. Anchor calculations prepared by Al-Farooq Corporation, dated 09/18/2015, signed and sealed by Javad Ahmad, P.E.

“Submitted under NOA # 10-0819.03”
2. Anchor calculations prepared by Al-Farooq Corporation, dated 08/05/2010, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS “Submitted under NOA #15-0916.12”

1. Statement letter of code conformance to the 5th edition (2014) FBC and no financial interest issued by Al-Farooq Corporation, dated 09/18/2015, signed and sealed by Javad Ahmad, P.E.

“Submitted under NOA # 12-0501.11”
2. Statement letter of code conformance to 2010 FBC and no financial interest, issued by Al-Farooq Corporation, dated 04/20/2012, signed and sealed by Javad Ahmad, P.E.

“Submitted under NOA # 10-0819.03”
3. Distributor agreement dated 10/10/2010.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0803.12

Expiration Date: October 23, 2025
Approval Date: September 21, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0129.17

A. DRAWINGS

1. Drawing **04-03**, titled “Glass Block Panel Details”, sheets 1 and 2 of 2, dated 01/23/2004, with revision G dated 01/10/2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 6th edition (2017) FBC and of no financial interest issued by Al-Farooq Corporation, dated 01/08/2018, signed and sealed by Javad Ahmad, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0803.12
Expiration Date: October 23, 2025
Approval Date: September 21, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 20-0910.01 and new

A. DRAWINGS

1. Drawing **04-03**, titled “Glass Block Panel Details”, sheets 1 and 2 of 2, dated 01/23/2004, with revision I dated 08/01/2023, 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

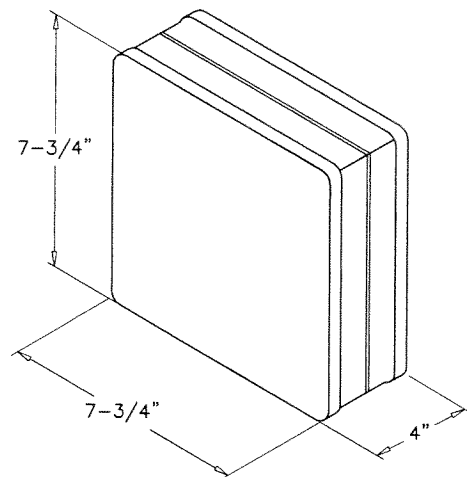
1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) and 8th edition (2023) of the FBC, and of no financial interest issued by Al-Farooq Corporation, dated 08/02/2023, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of code conformance to the 6th edition (2017) and 7th edition (2020) of the FBC and of no financial interest issued by Al-Farooq Corporation, dated 08/04/2020, signed and sealed by Jalal Farooq, P.E.

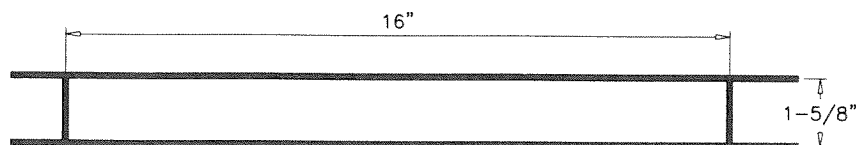


Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0803.12
Expiration Date: October 23, 2025
Approval Date: September 21, 2023



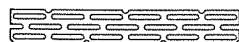
GLASS BLOCK

PARTIALLY EVACUATED HOLLOW UNITS
FORMED AND PERMANENTLY SEALED BY HEAT FUSING
TWO HALVES OF PRESSED GLASS TOGETHER
MANF. BY 'MULIAGLASS'
WALL THICKNESS VARIES DEPENDING ON GLASS PATTERN
MIN. THK. = .394 IN.



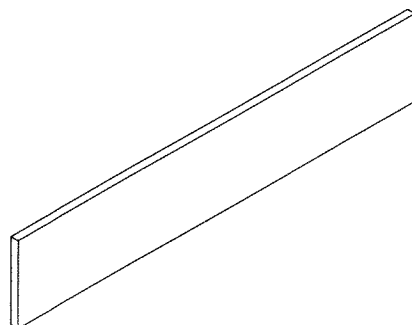
HORIZONTAL LADDER REINFORCING

1-5/8" W X 10' L
9 GAUGE GALVANIZED STEEL SIDE RODS &
CROSS RODS, CROSS RODS @ 16" O.C.



WALL TIES/ANCHOR STRAP

20 GA. GALVANIZED STEEL
12" LONG, 1-3/4" WIDE



EXPANSION STRIP
POLYETHYLENE PLASTIC
1/4" THICK X 3-1/2" WIDE

MAXIMUM DESIGN LOAD RATING = + 90.0 PSF
(FOR SIZE SHOWN ON SHEET 2 OR SMALLER) - 90.0 PSF

GLASS BLOCK PANELS

GLASS BLOCK PANELS NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE
USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES
COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET
THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA
BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

THE STRUCTURE AROUND GLASS MASONRY PANEL SHALL BE DESIGNED TO
SUSTAIN LOADS IMPOSED BY THE GLASS BLOCKS.

GLASS BLOCK STRUCTURES ARE NON-LOAD BEARING. ADEQUATE PROVISION
MUST BE MADE FOR SUPPORT OF CONSTRUCTION ABOVE GLASS BLOCK PANELS.

PROVISION FOR EXPANSION AND MOVEMENT MUST BE MADE AT JAMBS
AND HEADS OF ALL PANELS. MORTAR MUST NOT BRIDGE EXPANSION SPACES.
EXPANSION STRIPS SHALL BE POLYETHYLENE AS SHOWN HEREWITH.

PANEL REINFORCING SHALL BE OF GALVANIZED STEEL DOUBLE-WIRE
FORMED OF TWO PARALLEL 9-GAUGE WIRES 1-5/8" O.C. WITH ELECTRICALLY
WELDED CROSS WIRES AT REGULAR INTERVALS.

PANEL ANCHOR/WALL TIES SHALL BE 20-GAUGE PERFORATED STEEL STRIPS
12" LONG BY 1-3/4" WIDE GALVANIZED AFTER PERFORATING.

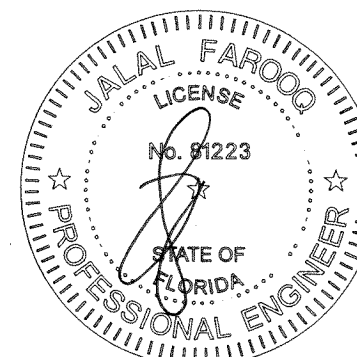
GLASS BLOCK SHALL BE LAID IN ONLY TYPE 'M' OR 'S' MORTAR OR EQUIVALENT
APPROVED MATERIAL. BOTH VERTICAL AND HORIZONTAL MORTAR JOINTS
SHALL BE AT LEAST ONE-EIGHTH AND NOT MORE THAN THREE-EIGHTHS
INCH THICK AND SHALL BE COMPLETELY FILLED.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0803.12

Expiration Date 10/23/2025

By 
Miami-Dade Product Control

AUG 02 2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 353B)

GLASS BLOCK PANEL DETAILS

MULIA INC.

16320 BLOOMFIELD AVE.

CERRITOS, CA. 90703

TEL. (562) 345-2777 FAX (562) 345-2776

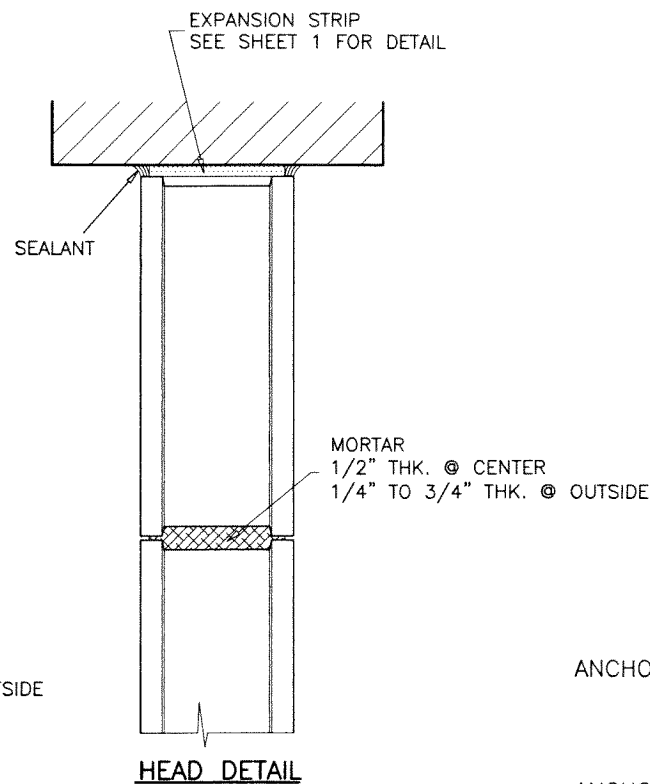
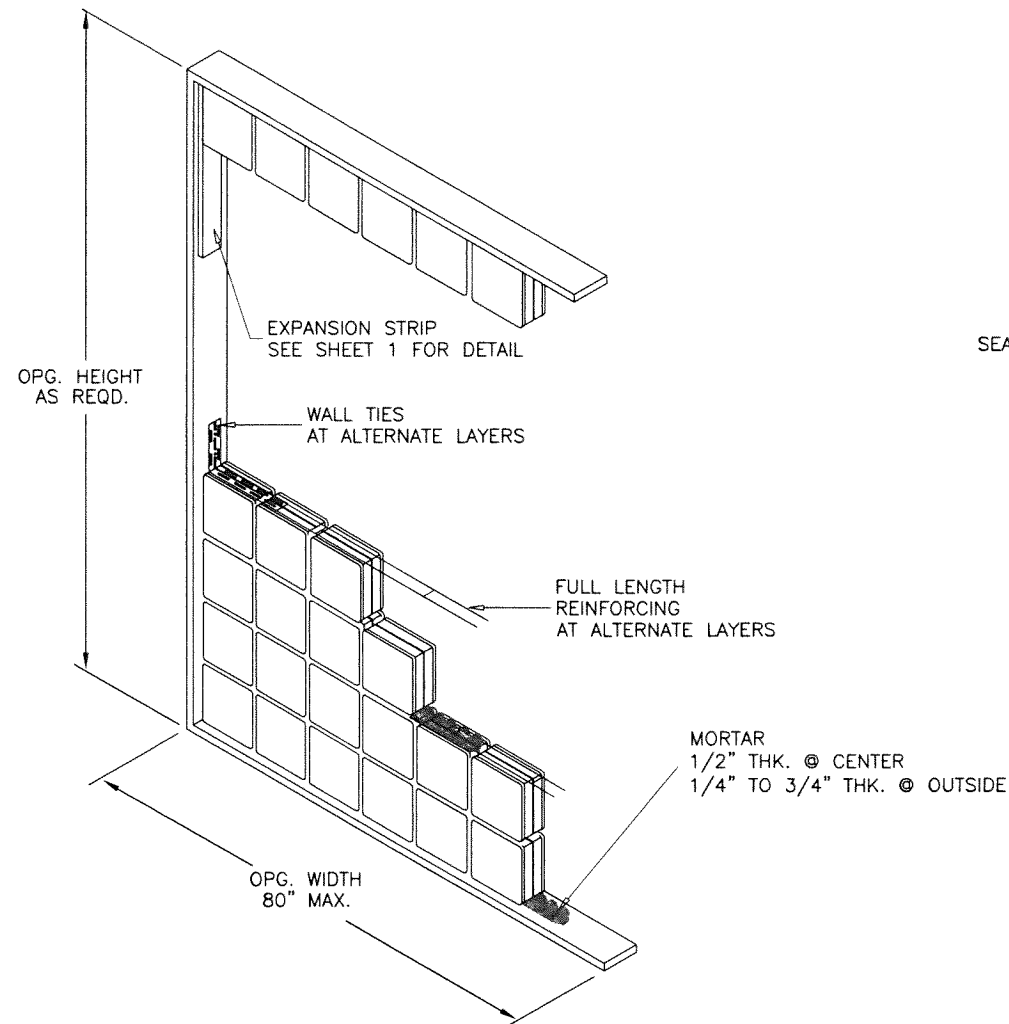
revisions:	no	date	by	description
	F	11.23.15		REV. PER RER COMMENTS
	G	01.10.18		UPDATED TO 2017 FBC
	H	08.20.20		UPDATED TO 2020 FBC
	I	08.01.23		UPDATED TO 2023 FBC

date: 01-23-04	scale: NONE	dr. by: TARIQ	chk. by:
----------------	-------------	---------------	----------

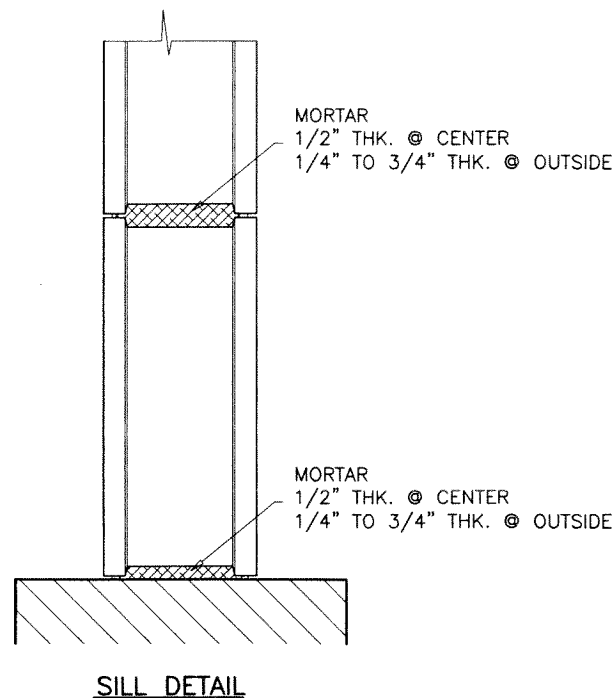
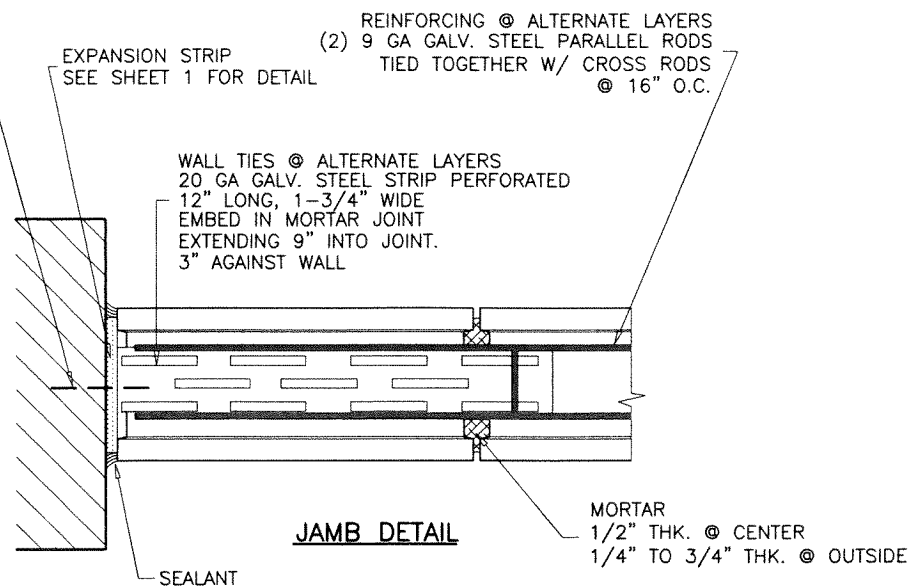
drawing no.
04-03

sheet 1 of 2

BLOCKS\04-03MI



ANCHOR TYPE	CONNECTION CAPACITY - PSF					
	ONE ANCHOR PER STRAP			TWO ANCHORS PER STRAP		
	CONC	BLK.	WOOD	CONC	BLK.	WOOD
A	88.0	34.0	—	90.0	68.0	—
B	—	—	43.0	—	—	86.0



TYPICAL ANCHORS:

- ANCHOR (A) = 1/4" DIA. HEX FLANGE HEAD ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
1-3/4" EMBEDMENT INTO CONCRETE
1-1/4" EMBEDMENT INTO MASONRY BLOCK
- ANCHOR (B) = #14 SMS (GRADE 2 CRS) WITH 3/4" MIN. STEEL WASHER
1-1/2" MIN PENETRATION INTO WOOD

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPICAL C/C SPACING

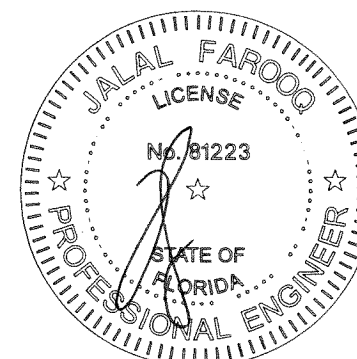
INTO CONCRETE AND MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 1" MIN.

WOOD SG = 0.55 MIN.
CONCRETE f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

NOTE:
ANCHORS EMBEDMENT SHOWN IS BEYOND WALL & FLOOR
COVERINGS (STUCCO, TILES, ETC.)

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-0803.12
Expiration Date 10/23/2025
By *[Signature]*
Miami-Dade Product Control

AUG 02 2023



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

GLASS BLOCK PANEL DETAILS

MULIA INC.
16320 BLOOMFIELD AVE.
CERRITOS, CA. 90703
TEL. (562) 345-2777 FAX (562) 345-2776

revisions:	no	date	by	description
	F	11.23.15		REV. PER PER COMMENTS
	G	01.10.18		UPDATED TO 2017 FBC
	H	08.20.20		UPDATED TO 2020 FBC
	I	08.01.23		NO CHANGE THIS SHEET

date: 01-23-04	scale: NONE	dr. by: TARIQ	chk. by:
drawing no. 04-03	sheet 2 of 2		

BLOCKS 04-03MI