



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Mulia, Inc.
9300 Flair Drive Suite #107
El Monte ,CA 91731

Your application for Notice of Acceptance (NOA) of:

Mulia Glass Masonry Products

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0709.05
EXPIRES: 10/23/2005

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/02/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This revises the Notice of Acceptance No. 00-1006.01, which was issued on 12/07/2000. It approves Mulia Glass Blocks as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, (SFBC) for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the design pressure rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Mulia Glass Blocks** shall be fabricated and used in strict compliance with the following documents: Drawing #97-18, titled "Glass Block Panel Details", prepared by Al-Farooq Corporation, dated 04/12/97, with latest revision on 11/04/00 sheet 1 of 1. They bear 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. These documents shall hereinafter be referred to as approved drawings.

3. LIMITATIONS

3.1 The Glass Blocks are for use as non-load bearing walls.

4. INSTALLATION

4.1 The Mulia Glass Blocks shall be installed in strict compliance with the approved drawings.

4.2 The installation of this product up to 30 feet above grade **will require** a Hurricane Protection System, but for installations over 30 feet above grade it **will not require** a Hurricane Protection System.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for Building Permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the SFBC in order to properly evaluate the installation of this product.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

Mulia, Inc.

ACCEPTANCE NO.: 01-0709.05

APPROVED: AUG 02 2001

EXPIRES: 10/23/2005

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Candido Font PE, Sr. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

Mulia, Inc.

ACCEPTANCE NO: 01-0709.05

APPROVED: AUG 02 2001

EXPIRES: 10/23/2005

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA)

A DRAWINGS

1. Drawing prepared by Al-Farooq Corporation, titled "Glass Block Panel Details", drawing # 97-18, dated 04/12/97, with latest revision on 11/04/00, Sheet 1 of 1 signed and sealed by H. Farooq, PE

B TEST

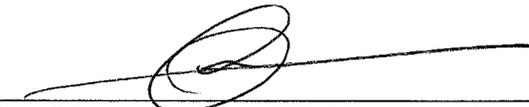
1. Test Report on Uniform Static Air Pressure Test on "Hollow Glass Block Wall/Window" prepared by Hurricane Engineering & Testing, Inc., Report # HETI 97-1090, dated 03/11/97 signed and sealed by H. M. Medina, PE
2. Test Report on Small Missile Impact Test and Cyclic Wind Pressure Test, on "Hollow Glass Block Wall/Window", prepared by Hurricane Engineering & Testing, Inc., Report # HETI 97-606, dated on 03/27/97 signed and sealed by H. M. Medina, PE

C CALCULATIONS

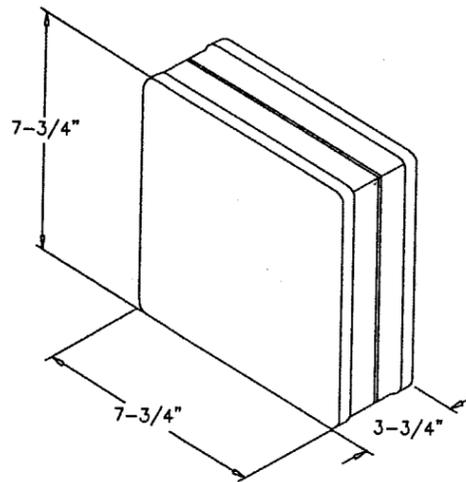
1. Anchor calculations dated 05/27/97; pages 1 to 3 of 3, prepared by Al-Farooq Corporation, signed and sealed by H. Farooq, PE.

D STATEMENTS

1. Letter of Engineering Continuity, prepared by Al-Farooq Corporation on 10/02/200, signed and sealed by H. Farooq, PE.
2. Letter of Code Compliance, prepared by Al-Farooq Corporation on 06/27/1997, signed and sealed by H. Farooq, PE.
3. Letter of No Financial Interest, prepared by Al-Farooq Corporation on 06/27/1997, signed and sealed by H. Farooq, PE.
3. Letter requesting change of permanent label issue by Mulia, Inc. received by this office on 07/09/01.

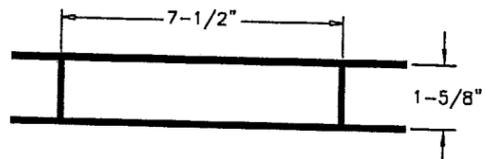


Candido Font PE, Sr. Product Control Examiner
Product Control Division



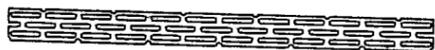
GLASS BLOCK

PARTIALLY EVACUATED HOLLOW UNITS FORMED AND PERMANENTLY SEALED BY HEAT FUSING TWO HALVES OF PRESSED GLASS TOGETHER



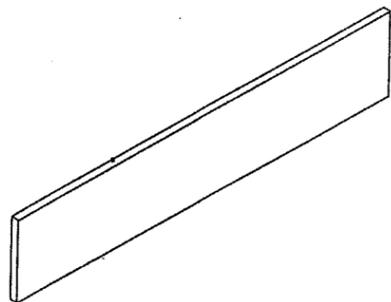
HORIZONTAL LADDER REINFORCING

1-5/8" W X 10' L
9 GAUGE GALVANIZED STEEL SIDE RODS & CROSS RODS, CROSS RODS @ 7-1/2" O.C.

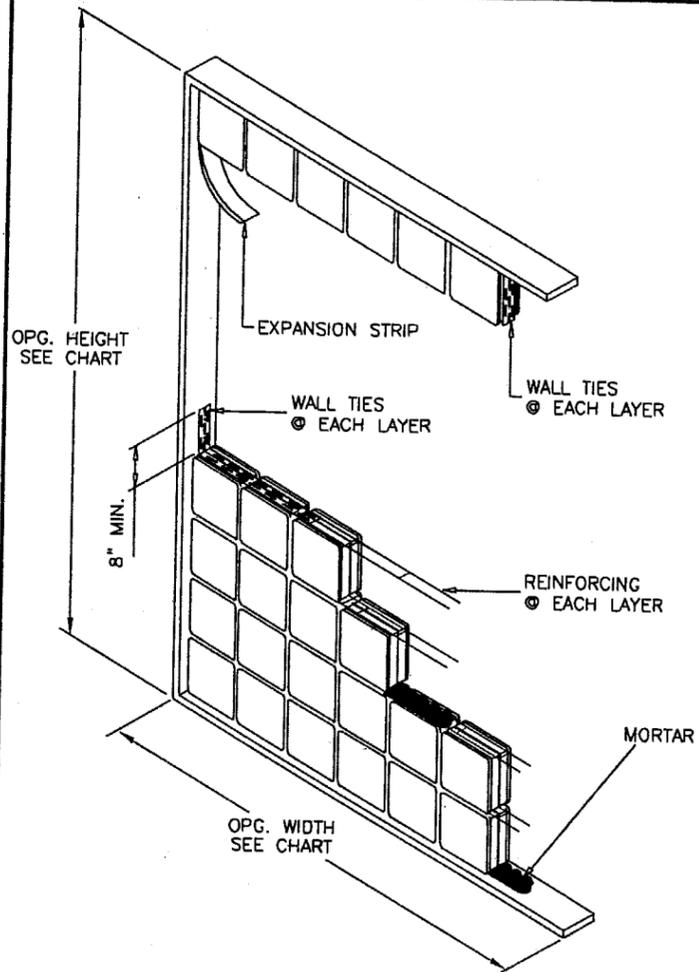


WALL TIES/PANEL ANCHORS

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



EXPANSION STRIP
POLYETHYLENE PLASTIC
3/8" THICK, 24" LONG, 3-1/2" WIDE



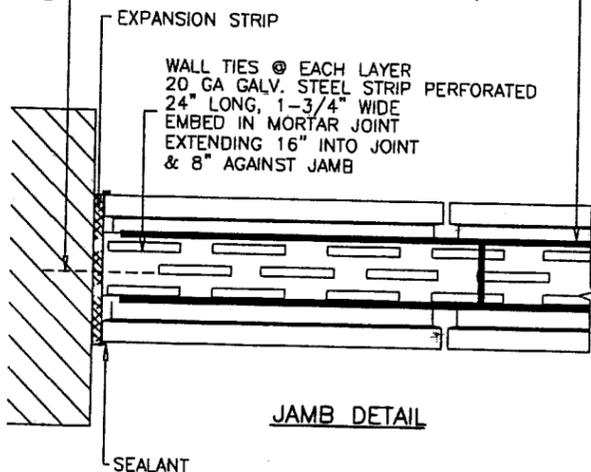
OPG. HEIGHT SEE CHART

8" MIN.

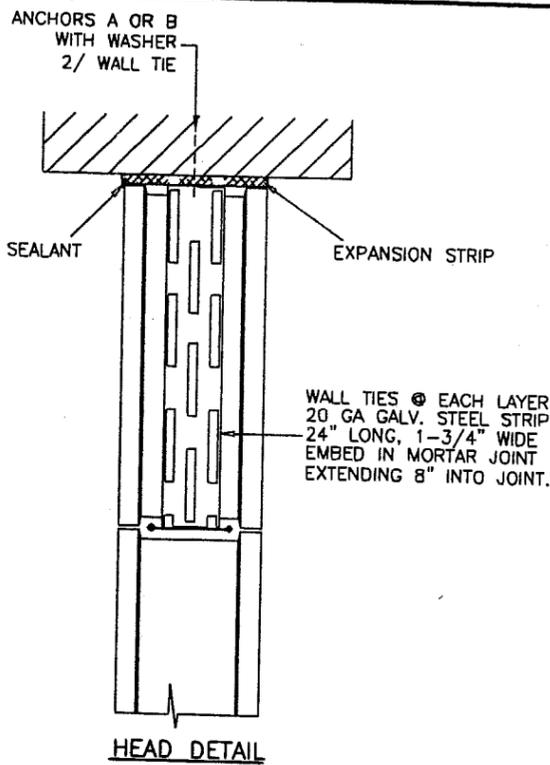
OPG. WIDTH SEE CHART

ANCHORS A OR B WITH WASHER 2/ WALL TIE

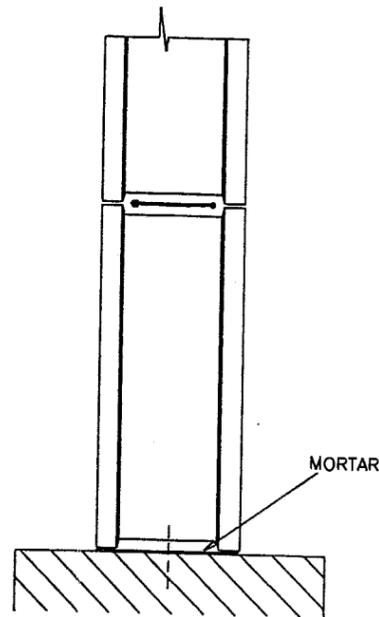
REINFORCING @ EACH LAYER
(2) 9 GA GALV. STEEL PARALLEL RODS TIED TOGETHER W/ CROSS RODS @ 7-1/2" O.C.



JAMB DETAIL



HEAD DETAIL



SILL DETAIL

ANCHOR DESCRIPTION

ANCHOR (A) = 1/4" TAPCON 1-3/4" EMBEDMENT TO CONCRETE
1-1/4" EMBEDMENT TO BLOCK
ANCHOR (B) = #14 S.M.S. OR 1/4" DIA. LAG SCREWS INTO WOOD (S.G. = 0.47)
1-1/2" MIN. PENETRATION

NOTE: ANCHORS, USE FULL EMBEDMENT IN CONCRETE BEYOND THE COVERING (STUCCO, TILES, ETC.)

GENERAL NOTES

1. THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
2. GLASS BLOCK STRUCTURES ARE NON-LOAD BEARING. ADEQUATE PROVISION MUST BE MADE FOR SUPPORT OF CONSTRUCTION ABOVE GLASS BLOCK PANELS.
3. 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.
4. 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.
5. PANEL ANCHOR/WALL TIES SHALL BE 20-GAUGE PERFORATED STEEL STRIPS 24" LONG BY 1-3/4" WIDE GALVANIZED AFTER PERFORATING.
6. GLASS BLOCK SHALL BE LAID IN ONLY TYPE 'M' OR 'S' MORTAR PER ASTM C-270 OR EQUIVALENT APPROVED MATERIAL. BOTH VERTICAL AND HORIZONTAL MORTAR JOINTS SHALL BE AT LEAST ONE-QUARTER AND NOT MORE THAN THREE-EIGHTHS INCH THICK AND SHALL BE COMPLETELY FILLED.

PRESSURE	SPAN	HEIGHT	REINFORCEMENT	ANCHOR
50 PSF	6'-0"	8'-0"	EVERY HORIZONTAL JOINT	3 SIDES RIGHT, LEFT & HEAD
30 PSF	8'-0"	8'-0"	EVERY HORIZONTAL JOINT	3 SIDES RIGHT, LEFT & HEAD

PRODUCT REVISED
ACCEPTANCE NO. 01-0709.05
EXPIRATION DATE 10/23/2005
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE DECEMBER 7, 2000
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1006.01

GLASS BLOCK PANEL IS DESIGNED TO BE USED
a: WITH IMPACT RESISTANT SHUTTERS BELOW 30 FT. ELEVATION.
b: WITHOUT SHUTTERS ABOVE 30 FT. ELEVATION.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557.

DEC 18 2000

ALFC

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
(305) 264-8100

MULIA INC.
800 East Colorado, Suite 530
Pasadena, California 91101
(818) 844 - 8900

revisions:

no	date	by	description
A	11.04.00		REV. PER BECCO COMMENTS

date: 04-12-97
scale: NONE
dr. by: HAMID
chk. by:

drawing no.

97-18

sheet 1 of 1

BLOCKS\97-18MI