



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: 4" Thick Face Glass Block Panel -- L.M.I.

APPROVAL DOCUMENT: Drawing No. 1344, titled "4" Thick Face Block Large Missile Impact Panel", sheets 1 and 2 of 2, dated 05/17/2006, with revision B1 dated 04/16/2014, prepared by W.W. Schaefer Engineering Consultant P.A, signed and sealed by Warren W. Schaefer, 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: 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 # 11-1020.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



Handwritten signature and date: 09/11/2014

NOA No. 14-0423.10
Expiration Date: February 8, 2017
Approval Date: September 18, 2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **1344**, titled "4" Thick Face Block Large Missile Impact Panel", sheets 1 and 2 of 2, dated 05/17/2006, with revision B1 dated 04/16/2014, prepared by W.W. Schaefer Engineering Consultant P.A, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS "Submitted under NOA # 06-1005.09"

1. Test Report on Uniform Static Air Pressure Test per TAS 202 and Large Missile Impact & Cyclical Wind Pressure Tests per TAS 201 and TAS 203 respectively, prepared by Hurricane Engineering and Testing Inc., Test Report No. **HETI-04-1389**, dated 06/14/2004, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS "Submitted under NOA # 11-1020.02"

1. Anchor calculations prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/18/2011, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Test Report No. **46856** and **46857**, both issued to Royal Window & Door Profiles, Plant # 14 by Dallas Laboratories, Inc. for "PVC lineal profiles for AAMA Certification", signed by Kevan W. Jones and dated 05/05/2014.

F. STATEMENTS

1. Statement letter of code conformance to 5th edition (2014) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/10/2014, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA # 11-1020.02"

2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated 10/18/2011, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0423.10

Expiration Date: February 8, 2017
Approval Date: September 18, 2014

GENERAL NOTES:

1. THESE GLASS BLOCK PANEL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE GLASS BLOCK PANEL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE GLASS BLOCK PANEL SYSTEMS.
7. ALL ANCHORS SECURING FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

CORNER CONSTRUCTION

FRAME CORNERS: BUTTED & MECHANICALLY JOINED FRAME CORNERS ARE REINFORCED WITH A 2" X 2" X 1/8" THICK X 3.85" LONG ALUMINUM ANGLE MOUNTED TO ONE FRAME MEMBER WITH (2) #6 X 1/2" SMS SCREWS. ONE LEG OF THE ANGLE IS ATTACHED TO THE SUBSTRATE WITH 2 FRAME ANCHORS.

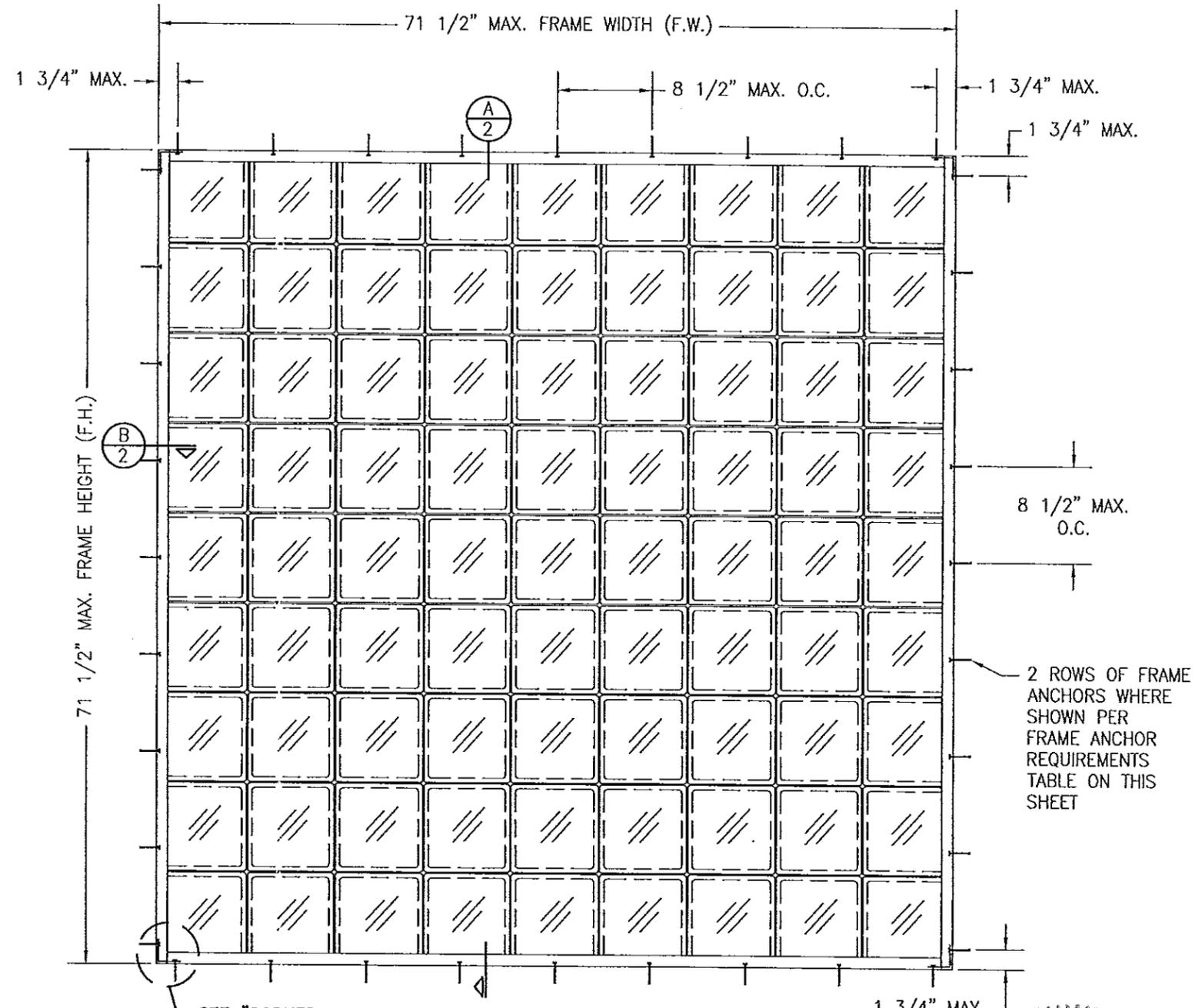
PRODUCT REVISED

as complying with the Florida Building Code
 Acceptance No. 14-0423.10
 Expiration Date 02/08/2017

By *[Signature]*
 Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY:	K.P.S.	CHECKED BY:	W.W.S.
DATE:	10/18/11	DATE:	05/17/06
REVISION	DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.R.M.	10/18/11
B1	UPDATED MULLA ADDRESS	W.W.S.	04/16/14



SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

**EXTERIOR ELEVATION
 GLASS BLOCK WINDOW**

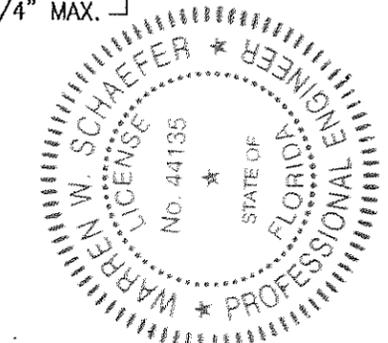
SCALE: N.T.S.

ALLOWABLE DESIGN PRESSURE
+60/-65 PSF

FRAME ANCHOR REQUIREMENTS TABLE

FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).



DRAWING TITLE
 4" THICK FACE BLOCK LARGE MISSILE IMPACT PANEL

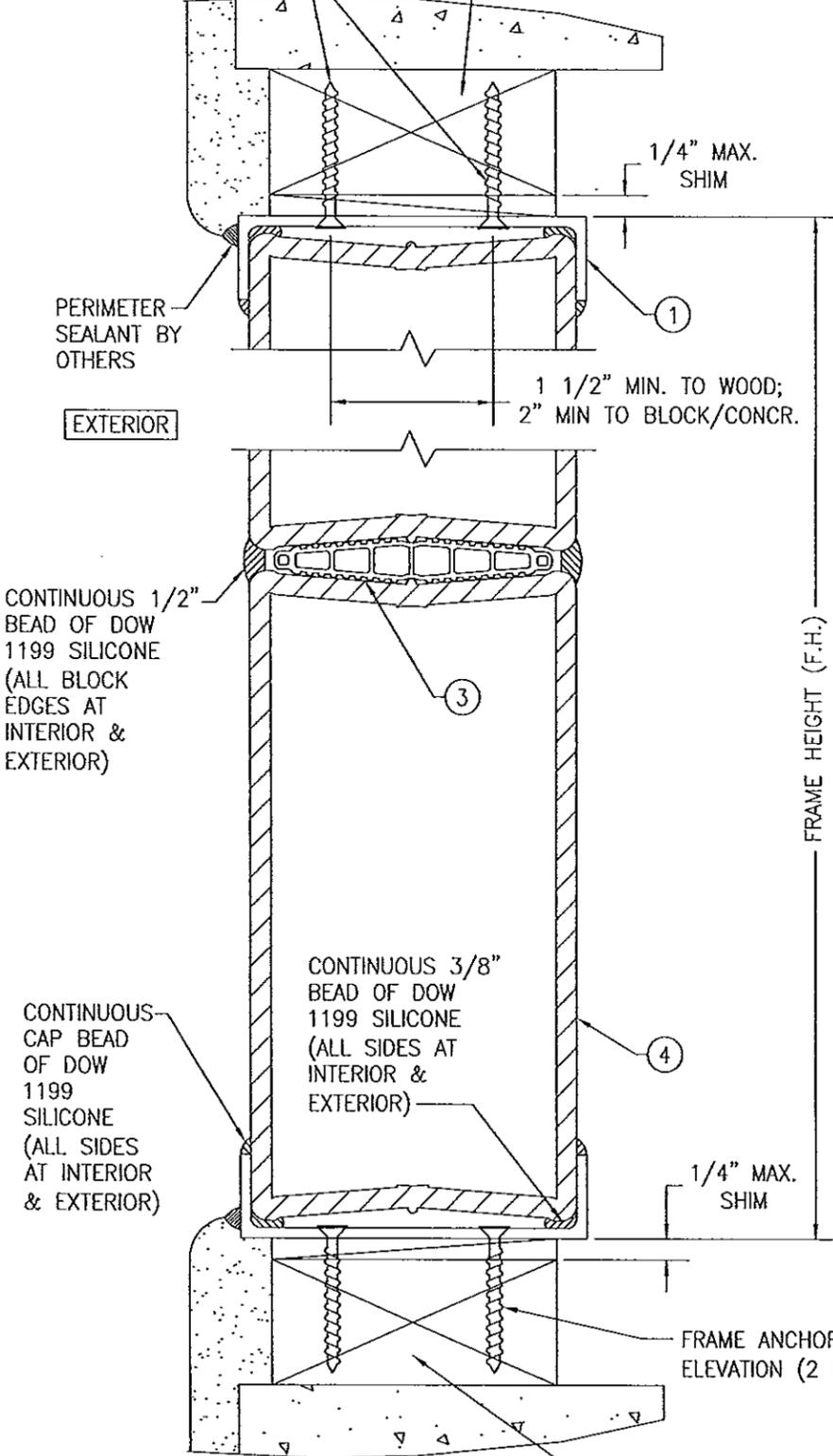
MANUFACTURER
 MULLA INC.
 16320 BLOOMFIELD AVE.
 CERRITOS, CA 90703
 562-345-2788

CONSULTANTS
 W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

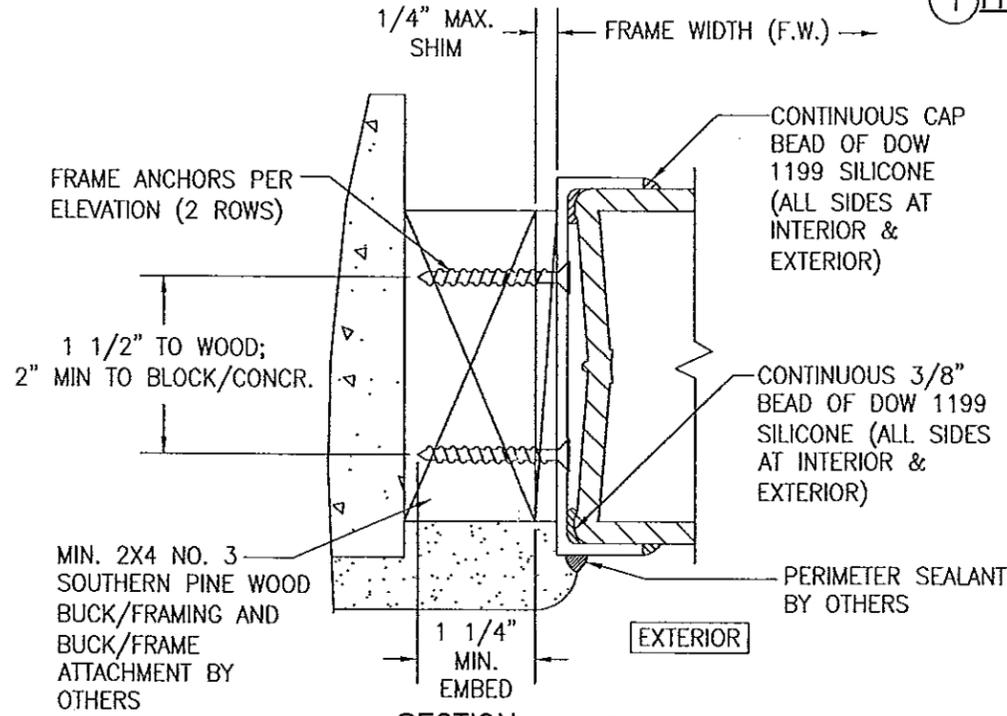
CERTIFICATION	APR 16 2014	WARREN W. SCHAEFER, P.E.
DRAWING NO.	1344	REV.
SHEET NO.	1	of 2

FRAME ANCHORS PER ELEVATION (2 ROWS)

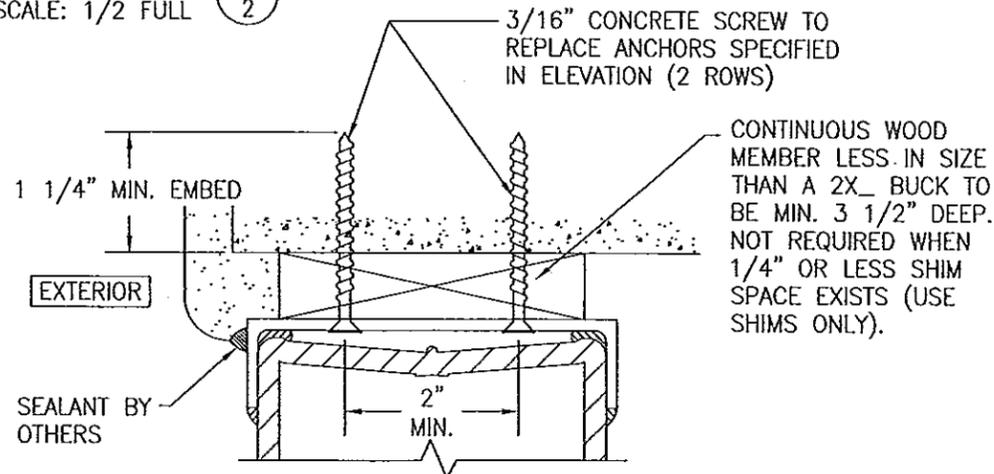
MIN. 2X4 NO. 3 SOUTHERN PINE WOOD BUCK/FRAMING AND BUCK/FRAME ATTACHMENT BY OTHERS



SECTION A
SCALE: 1/2 FULL

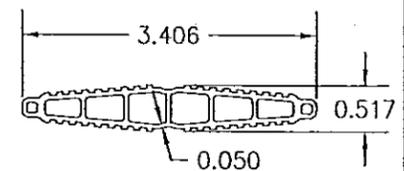
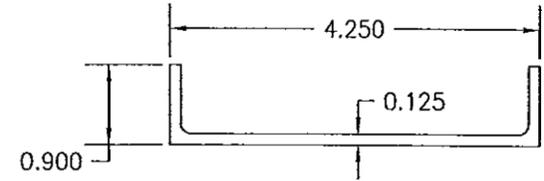


SECTION B
SCALE: 1/2 FULL

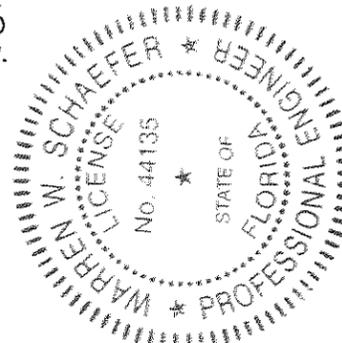


DIRECT MOUNT DETAIL IN BLOCK
HEAD DETAIL SHOWN; OTHER JAMBS SIMILAR. SEE SECTIONS FOR DETAIL NOT SHOWN

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME CHANNEL (4.25" X 0.9" X 0.125")	6063-T5 ALUMINUM
2	REINF. ANGLE (2" X 2" X 3.85" LONG)	1/8" THICK 6063-T5 ALUMINUM
3	SPACER BY ROYAL SIERRA EXTRUSIONS	RIGID PVC (CONTINUOUS HORIZONTAL; SECTIONED VERTICAL)
4	GLASS BLOCK (7 3/4" X 7 3/4" X 4")	0.79" AVERAGE WALL THICKNESS



PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 14-0423.10
Expiration Date 02/08/2017
By *[Signature]*
Miami Dale Product Control



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/17/06
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: 4" THICK FACE BLOCK LARGE MISSILE IMPACT PANEL	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER: MULLA INC. 16320 BLOOMFIELD AVE. CERRITOS, CA 90703 562-345-2788
CERTIFICATION: APR 16 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1344	REV. B
SHEET NO. 2 OF 2	