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Product Approval
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FL #	FL16585-R3
Application Type	Revision
Code Version	2017
Application Status	Approved
	*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Mulia, INC (FL)
Address/Phone/Email	100 Business Center DR. Unit 12 Ormond Beach, FL 32174 (386) 676-0770 nicksgbs@gmail.com
Authorized Signature	Nick Sforza nicksgbs@gmail.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Panel Walls
Subcategory	Glass Block
Compliance Method	
	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute
Validated By	National Accreditation & Management Institute
Referenced Standard and Year (of Standard)	Standard AAMA/WDMA/CSA 101/I.S.2/A440
	Year 2011
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A

Glass Block Supply, LLC.
Phone: (386) 676-0770
Fax: (386) 676-0787
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Date Submitted 04/17/2018
Date Validated 04/19/2018
Date Pending FBC Approval
Date Approved 04/24/2018

Summary of Products

FL #	Model, Number or Name	Description
16585.1	LW Glass Block Vinyl Framed Window	Non Impact Resistant Glass Block Vinyl Framed Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +110/-110 Other: See drawing MUL0001 for installation details.		Certification Agency Certificate FL16585_R3_C_CAC_NI011669-R3_05-31-2020.pdf Quality Assurance Contract Expiration Date 05/31/2020 Installation Instructions FL16585_R3_IL_MUL0001_Rev0_ss.pdf Verified By: Robert J. Amoruso, PE FL PE No. 49752 Created by Independent Third Party: Yes Evaluation Reports FL16585_R3_AE_PER_2529_Rev0_417-1012_Mulia-LW-GlassBlock-Fixed-Window_ss.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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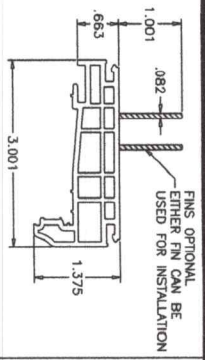
Product Approval Accepts:



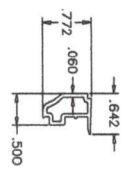
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SECURITYMETRICS

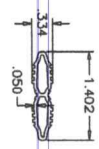
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1 FRAME HEAD/SILL/JAMB



2 GLAZING BEAD



3 SPACER

WINDOWS NOT RATED FOR IMPACT.
 INSTALLATION OF THIS SYSTEM OUTSIDE THE HMZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

1.1/2" GLASS BLOCK VINYL FRAMED WINDOWS

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULTIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULTION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

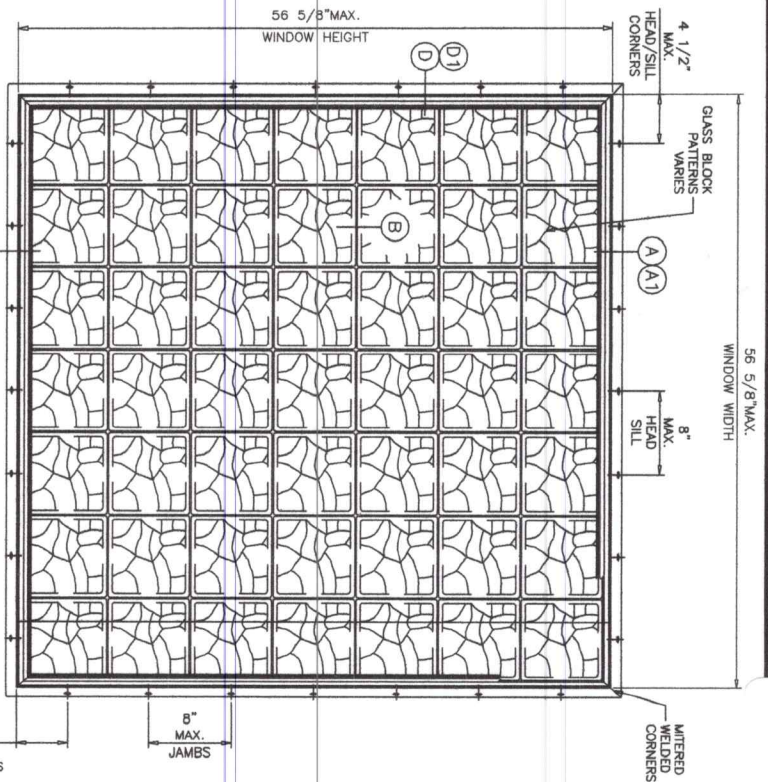
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EXCLUDING HIGH VELOCITY HURRICANE ZONE (HMZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.



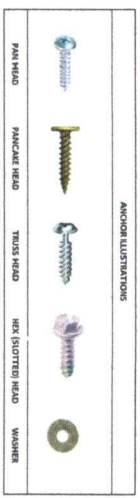
TYPICAL ELEVATION

MAXIMUM DESIGN LOAD RATING = + 110.0 PSF
 (SEE SIZE SHOWN ABOVE OR SMALLER)

INSTALLATION ANCHOR QUANTITY - SEE ELEVATION THIS SHEET (Note 1)

INSTALLATION TYPE	ANCHOR TYPE	WASHER OR FASTENER HEAD DIAMETER (in)	Max. Edge Distance (in)	On-Center Spacing (in)	Anchor Qty
Part Head w/ Washer		0.50"	4.5	8	7
Part Head		0.45"	4.5	6 13/16	8
Truss Head		0.433"	4.5	6	9
Hex (Slotted Hex) Head		0.393"	4.5	5 5/16	10
Part Head		0.365"	4.5	4 13/16	11

- A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FROM A SITE SPECIFIC PROJECT, I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION ON THIS DOCUMENT.
- C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



Digitally signed by Robert J Amoruso
 Date: 2018.04.16 08:54:27 -04'00'

Robert J. Amoruso, P.E.
 Florida P.E. No. 48752

MULIA, INC. 100 BUSINESS CENTER DR., UNIT 12 ORMOND BEACH, FL 32174		PROJECT # 417-1012	
TITLE: LW GLASS BLOCK VINYL FRAMED WINDOW WINDOW ELEVATION/FIN FRAME ANCHORING LAYOUT		DRAWN BY: DAS DATE: 03/10/18 SCALE: N.T.S. SHEET: 2 OF 4	
PREPARED BY: PTC PTC PRODUCT DESIGN GROUP, LLC PO BOX 920775 LONDON, ONT. L6C 9C8A 32752 FBPE C.A. NO. 25935		REV: -	
REV	DESCRIPTION	DATE	BY

MULIA, INC.

LW Glass Block Vinyl Framed Window INSTALLATION ANCHORAGE DETAILS

Glass Block Supply, LLC.
 Phone: (386) 676-0770
 Fax: (386) 676-0787
 www.GlassBlockSupplyLLC.com

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. TESTING WAS CONDUCTED IN ACCORDANCE WITH AAMA WDMA/CSA 101/1.5.2/44-0-11.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. C7461.01-401-44 AND ASSOCIATED LABORATORY DRAWINGS BY ARCHITECTURAL TESTING, INC.
3. THIS PRODUCT EVALUATION DOCUMENT IS NOT FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4. ADEQUACY OF THE EXISTING STRUCTURAL SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS, TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. WOOD BUCKS AND METAL STRUCTURE (MULLIONS) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE SUPPORTING SUBSTRATE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION. MULLIONS SHALL BE FLORIDA BUILDING CODE APPROVED.
6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST THIS PRODUCT REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. WINDOW FRAME MATERIAL: VINYL (PVC).
9. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 3 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - 2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - 2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 3 AND 4 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 2 ELEVATION.
- 4.1. INSTALLATION ANCHORAGE CAPACITY IS GOVERNED BY PULL-OVER OF THE VINYL FIN FRAME OVER THE ANCHOR HEAD.
- 4.2. ELEVATION ON SHEET 2 ANCHORAGE SPACING BASED ON A FASTENER HEAD DIAMETER OF 1/2" (COMMONLY A NO. 10 WASHER USED WITH A PAN HEAD SCREW).
- 4.3. INSTALLATION ANCHOR QUANTITY TABLE ON SHEET 2 PROVIDES JAMB, HEAD AND SILL ANCHORAGE REQUIREMENTS FOR VARIOUS HEAD TYPES AND DIAMETERS.
5. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
 - 5.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH THE ELEVATION ON SHEET 2.
 - 5.2. END DISTANCES AND ON CENTER (O.C.) SPACING LESS THAN THAT SHOWN IN THE ELEVATION ON SHEET 2 ARE ACCEPTABLE.
 - 5.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
 - 5.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 3.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES, TABLE OF CONTENTS
2	WINDOW ELEVATION/FIN FRAME ANCHORING LAYOUT
3	VERTICAL & HORIZONTAL CROSS SECTION - NAILING FIN INSTALLATION 1
4	VERTICAL & HORIZONTAL CROSS SECTION - NAILING FIN INSTALLATION 2

PERFORMANCE RATING		
MAXIMUM WINDOW SIZE	DESIGN PRESSURE (PSF)	IMPACT RATING
NOMINAL 57" x 57"	+/- 110	NONE (SEE GENERAL NOTE 6)



Digitally
 signed by
 Robert J
 Amoruso
 Date:
 2018.04.16
 08:54:02
 -04'00"

Robert J. Amoruso, P.E.
 Florida P.E. No. 49752

MULIA, INC. 100 BUSINESS CENTER DR., UNIT 12 ORMOND BEACH, FL 32174		PROJECT # 417-1012	
TITLE: LW GLASS BLOCK VINYL FRAMED WINDOW GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS			
PREPARED BY: PTC	DRAWN BY: DAS	DATE: 03/10/18	
SCALE: N.T.S.	DRAWING NO: MUL0001		
REV: -	SHEET: 1 OF 4		
PTC PRODUCT DESIGN GROUP, LLC PO BOX 52077 LONGWOOD, FL 32604-32752 FBPE C.A. NO. 28835		Phone: 321.660.1788 Fax: 321.660.1788 Email: info@ptc-corp.com	

www.GlassBlockSupplyLLC.com



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