



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Exolon Group Inc.
203 N LaSalle Street-Suite 2550
Chicago, IL 60601

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 16MM Polycarbonate Storm Panel Shutter

APPROVAL DOCUMENT: Drawing No. EXN0001, titled "16MM Polycarbonate Storm Panels-HVHZ", sheets 1 through 3 of 3, prepared by PTC Product Design Group, LLC, dated January 13, 2023, last revision #A dated 06/18/24, signed and sealed by Robert J. Amoruso, P.E., on 06/18/24, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

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 #23-0615.01 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
06/27/24

NOA No. 23-1207.05
Expiration Date: 09/07/2028
Approval Date: 06/27/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-0615.01

A. DRAWINGS

1. Drawing No. **EXN0001**, titled “**16MM Polycarbonate Storm Panels-HVHZ**”, sheets 1 through 3 of 3, prepared by PTC Product Design Group, LLC, dated January 13, 2023, signed and sealed by Robert J. Amoruso, P.E., on August 02, 2023.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
2) Cyclic Wind Pressure Loading per TAS 203-94
3) Large Missile Impact Test per TAS 201-94
along with marked-up drawings and installation diagram of a polycarbonate Storm Panel Shutter, prepared by QAI Laboratories, Test Report No. 13219, dated 10/21/2022, signed & sealed by Idalmis Ortega, P.E., on 11/29/2022.
2. Test reports on 1) Self-Ignition Temp. per ASTM D1929
2) Rate of Burning per ASTM D635
3) Smoke Density per ASTM D2843
along with marked-up drawings and installation diagram of a polycarbonate Storm Panel Shutter, prepared by QAI Laboratories, Test Report No. 13190, dated 11/11/2022, signed & sealed by Idalmis Ortega, P.E., on 11/14/2022.
3. Test reports on 1) Tensile test per ASTM D638
along with marked-up drawings and installation diagram of a polycarbonate Storm Panel Shutter, prepared by QAI Laboratories, Test Report No. 13189, dated 03/30/2023, signed & sealed by Idalmis Ortega, P.E., on 04/04/2023.

C. CALCULATIONS

1. Comparative Analysis and Anchor Calculations, 11 sheets, prepared by PTC Product Design Group, LLC, dated January 13, 2023, signed and sealed by Robert J. Amoruso, P.E., on March 27, 2023.

D. QUALITY ASSURANCE


1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Florida Building Code, 2020 Edition Compliance Letter prepared by PTC Product Design Group, LLC, dated March 29, 2023, signed and sealed by Robert J. Amoruso, P.E., on August 02, 2023.



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1207.05
Expiration Date: 09/07/2028
Approval Date: 06/27/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. EXN0001, titled "16MM Polycarbonate Storm Panels-HVHZ ", sheets 1 through 3 of 3, prepared by PTC Product Design Group, LLC, dated January 13, 2023, last revision #A dated 06/18/24, signed and sealed by Robert J. Amoruso, P.E., on 06/18/24.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Florida Building Code, 2023 Edition Compliance Letter prepared by PTC Product Design Group, LLC, dated June 18, 2024, signed and sealed by Robert J. Amoruso, P.E., on June 18, 2024.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1207.05
Expiration Date: 09/07/2028
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GENERAL NOTES:

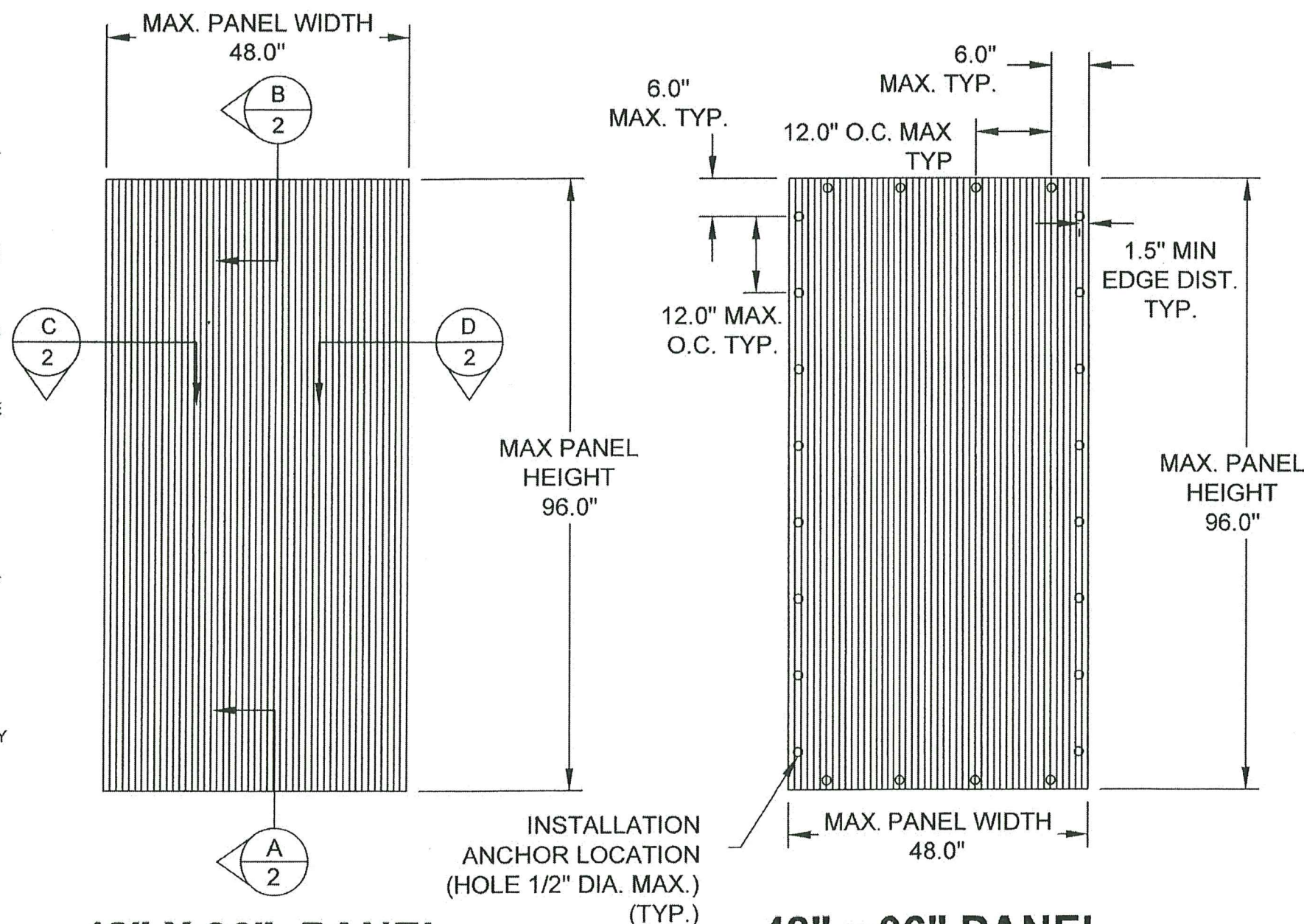
1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE INCLUDING (HVHZ) HIGH VELOCITY HURRICANE ZONE.
2. THE DESIGN BASIS FOR THE PRODUCT SHOWN HEREIN IS DERIVED FROM TEST REPORT 13219, DATED 10/21/22 BY QAI LABORATORIES.
3. PANEL FRAME MATERIAL: EXOLON MULTI UV 5X/16-25 POLYCARBONATE 16MM (5/8").
4. MAXIMUM PANEL SIZE: 48" X 96".
5. PANELS MAY BE MOUNTED VERTICALLY (AS SHOWN ON THIS SHEET) OR HORIZONTALLY.
6. DETAILS A, B, C AND D ON SHEET 2 DEPICT TYPICAL CONCRETE / MASONRY AND WOOD ANCHORAGE CONNECTIONS, RESPECTIVELY THESE DETAILS MAY BE USED INTERCHANGEABLY AS FIELD CONDITIONS DICTATE.
7. DETAILS A, B, C AND D ON SHEET 2 DEPICT INSTALLATION USING THE PANELMATE OR STORM GUARD TYPE INSTALLATION ANCHOR. PANELMATE INSERT IS ALSO APPROVED FOR USE. SEE INSTALLATION ANCHOR SCHEDULE AND NOTES ON SHEET 3.
8. A MINIMUM REQUIRED SEPARATION OF 6.21 INCHES BETWEEN POLYCARBONATE STORM PANELS AND FENESTRATION GLAZING OR FRAMING MEMBERS IS REQUIRED.
9. CONCRETE / MASONRY OPENING AND 2X BUCKS ARE TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. CONCRETE / MASONRY OPENING AND 2X BUCKS ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
10. PRODUCTS SHOWN HEREIN ARE APPROVED FOR USE WHERE LARGE MISSILE IMPACT RESISTANCE IS REQUIRED.
11. SEE DESIGN PRESSURE RATINGS ON THIS SHEET.
12. ALL INSTALLATION ANCHORS AND ASSOCIATE HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
13. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:

EXOLON GROUP, STRADA DI VAGNO 15/A - 05035, NERA MONTORO (TR), ITALY
MIAMI-DADE NOTICE OF ACCEPTANCE (NOA) NUMBER
TAS 201-94, TAS 202-94 AND TAS 203-94

INSTALLATION NOTES:

1. ONE (1) ANCHOR IS REQUIRED AT EACH INSTALLATION ANCHOR LOCATION SHOWN.
2. SPACE INSTALLATION ANCHORS 6" FROM EACH CORNER AND 12" O.C. MAXIMUM. MINIMUM ANCHOR SPACING OF 6".
3. FOR CONCRETE / MASONRY INSTALLATION USE 1/4" ELCO PANELMATE OR ITW TAPCON SG W/ WASHERED WING NUTS WITH 1/4" x 1 1/2" O.D. STEEL FLAT WASHER AND 1/4" x 1 1/2" O.D. EDPM FLAT WASHER. MINIMUM EMBEDMENT AND EDGE DISTANCE AS SHOWN IN TABLE ON SHEET 3. 1/4" ELCO PANELMATE INSERT ALSO APPROVED (SEE SHEET 3).
4. FOR WOOD FRAMING INSTALLATION USE 1/4" ELCO PANELMATE W/ WASHERED WING NUTS, 1/4" x 1 1/2" O.D. STEEL FLAT WASHER AND 1/4" x 1 1/2" O.D. EDPM FLAT WASHER. MINIMUM EMBEDMENT AND EDGE DISTANCE AS SHOWN IN TABLE ON SHEET 3. 1/4" ELCO PANELMATE INSERTS ALSO APPROVED (SEE SHEET 3).

EXOLON GROUP 16MM POLYCARBONTE STORM PANELS - HVHZ INSTALLATION ANCHORAGE DETAILS



48" X 96" PANEL
EXTERIOR ELEVATION

PERFORMANCE RATING TABLE

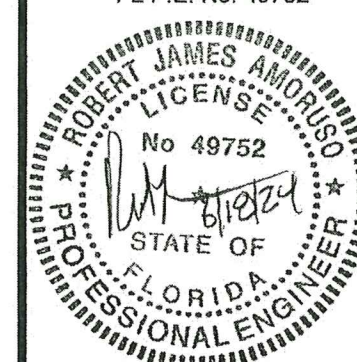
DESIGN PRESSURE RATING (PSF)	IMPACT RATING
+/-60 PSF	HVHZ LARGE MISSILE IMPACT

48" x 96" PANEL
ANCHOR LAYOUT

TABLE OF CONTENTS

SHEET	SHEET DESCRIPTION
1	ELEVATIONS, ANCHOR LAYOUT, & NOTES
2	CROSS SECTIONS & DETAILS
3	BILL OF MATERIALS & COMPONENTS

Robert J. Amoroso, P.E.
FL P.E. No. 49752



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1207.05
Expiration Date 09/07/2028
By: [Signature]
Miami Code Product Control

Exolon Group Inc.
203 N LaSalle Street - Suite 2550
Chicago, IL 60601

TITLE: 16MM POLYCARBONTE STORM PANELS - HVHZ

ELEVATIONS, ANCHOR LAYOUT & NOTES

PREPARED BY: RJA DATE: 1/13/2023

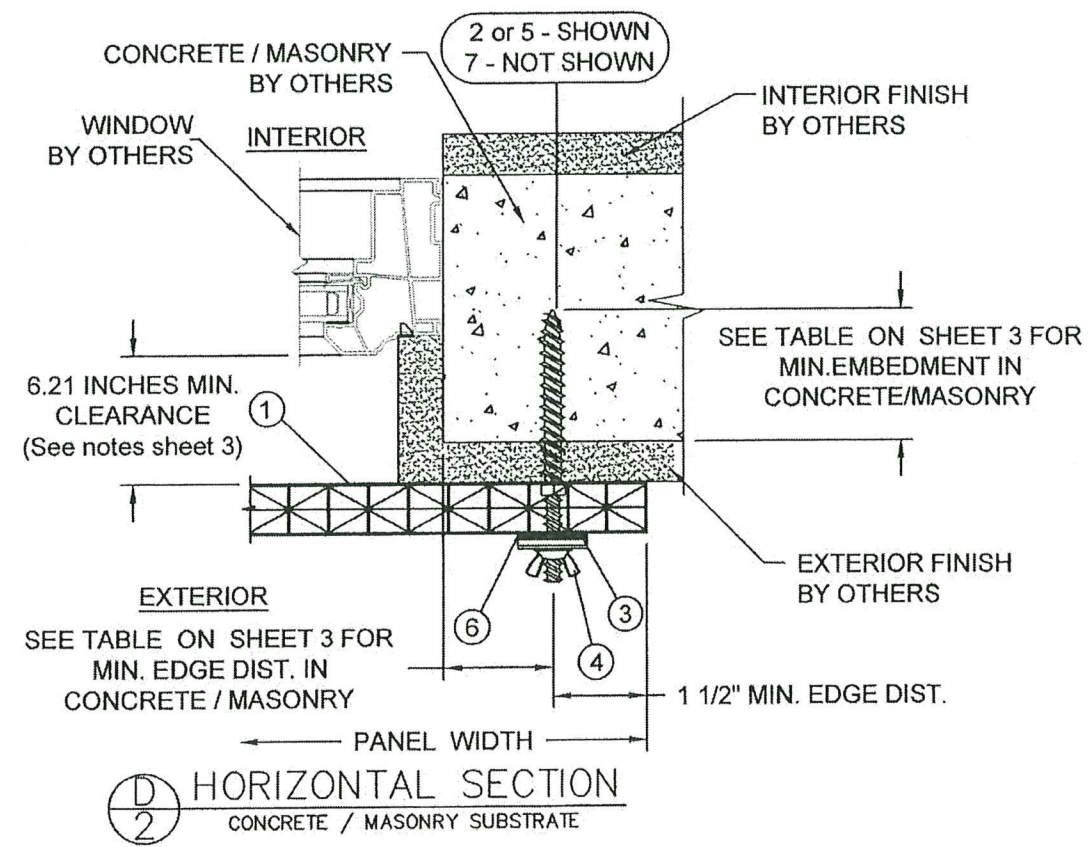
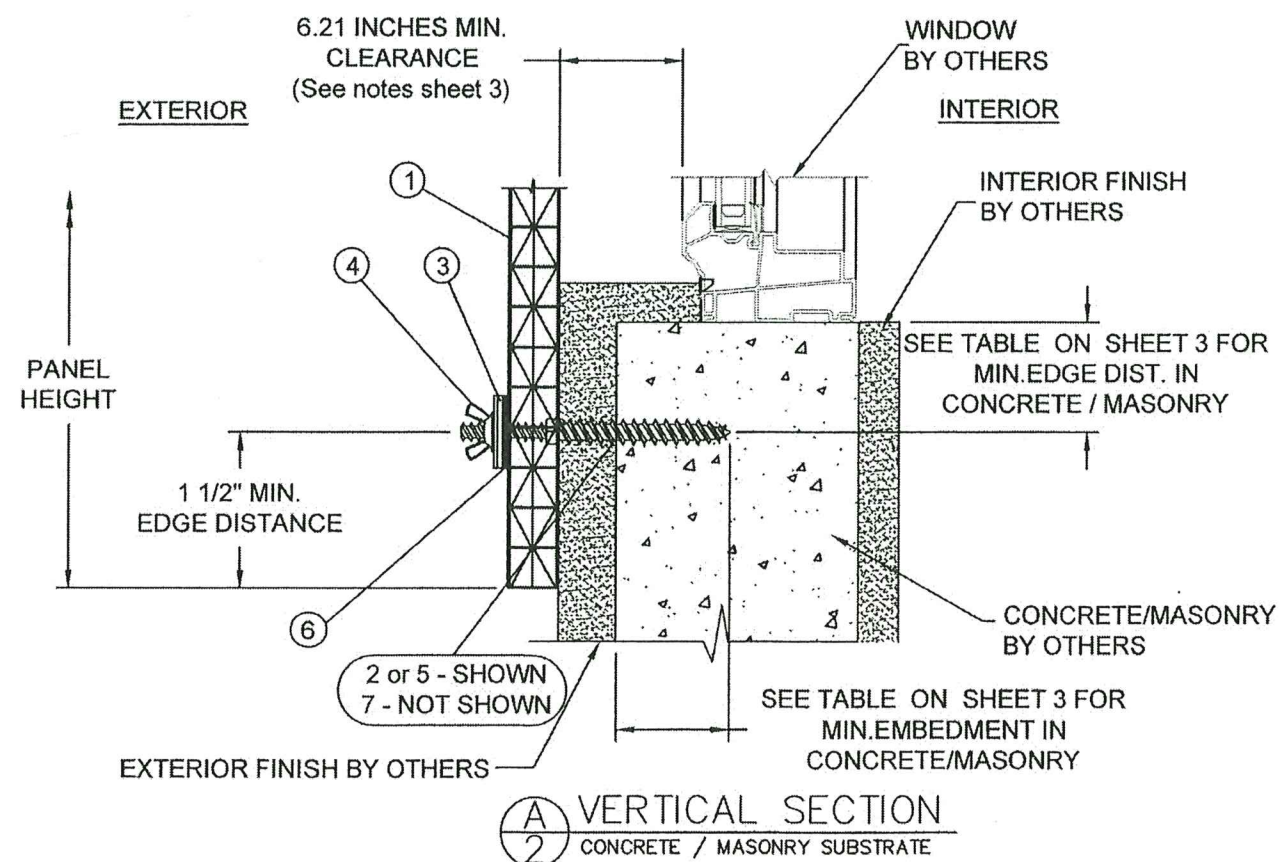
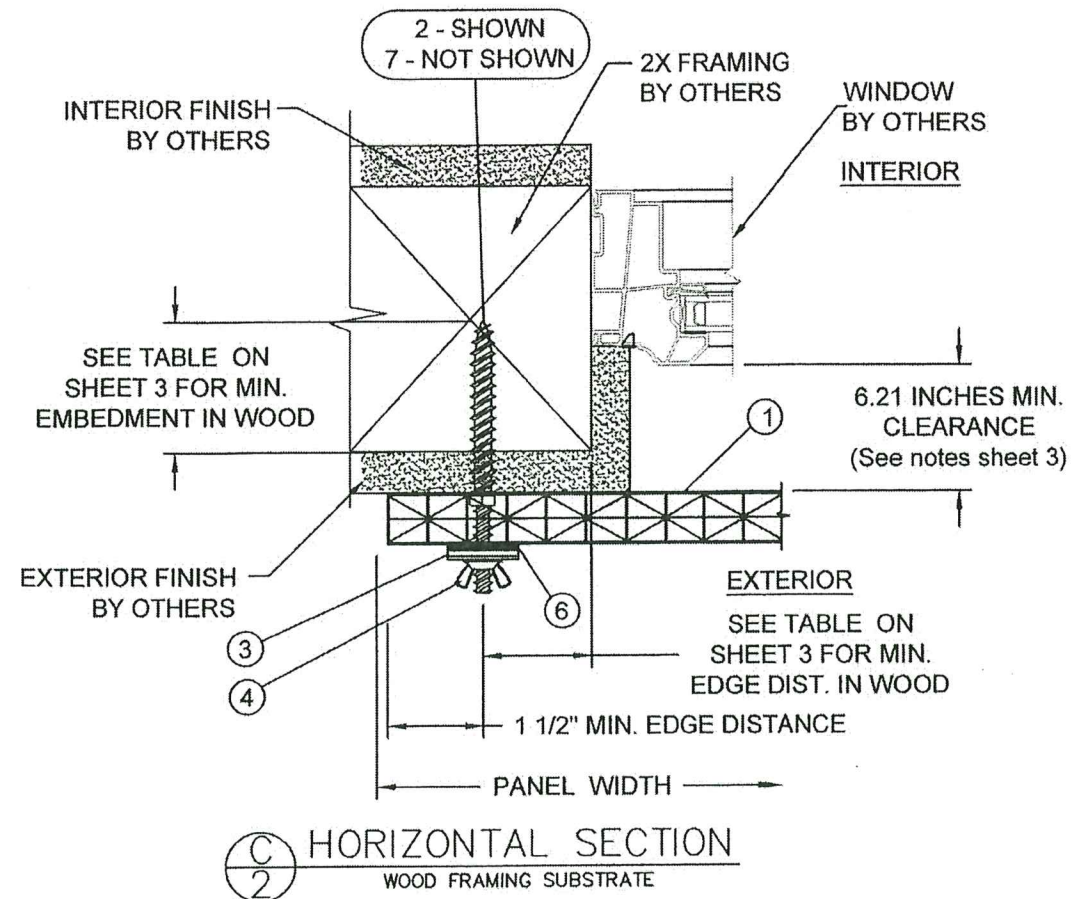
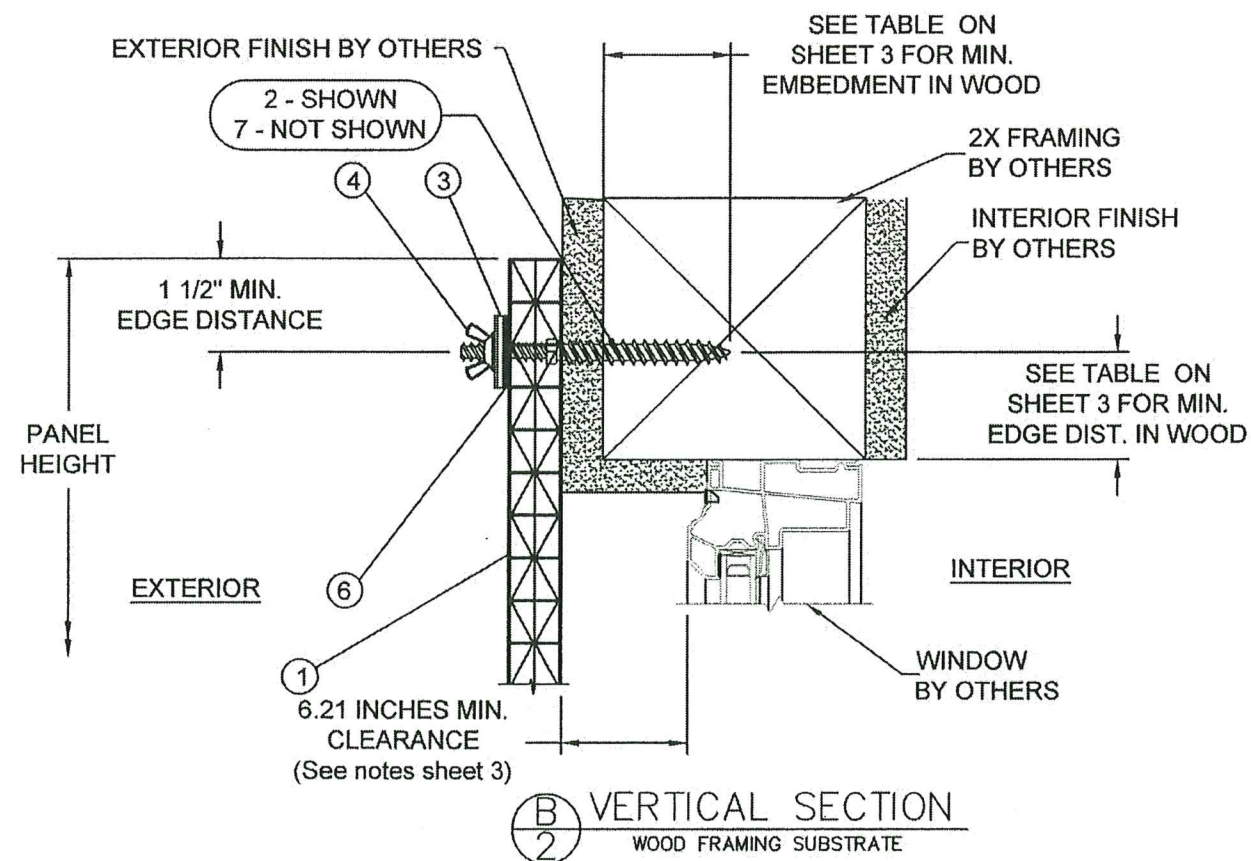
SCALE: N.T.S. DRAWING NO: EXN0001

REV: A SHEET: 1 OF 3

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 1000
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

PROJECT NUMBER: 423-0901

REV	DESCRIPTION	DATE	BY
A	UPDATED TO 2023 FBC	6/18/24	RJA



SECTION VIEWS ABOVE SHOW INSTALLATION USING PANELMATE OR STORM GUARD TYPE ANCHORS.
PANELMATE INSERTS ALSO ALLOWED. SEE SHEET 3 FOR EDGE DISTANCE AND EMBEDMENT REQUIREMENTS.

PROJECT NUMBER: 423-0901		DATE: 6/18/24		BY: RJA
DESCRIPTION: UPDATED TO 2023 FBC		REV: A		DATE: 6/18/24
TITLE: 16MM POLYCARBONATE STORM PANELS - HVHZ		DRAWING NO: EXN0001		REV: A
CROSS SECTIONS & DETAILS		DATE: 9/9/2022		SHEET: 2 OF 3
DRAWN BY: RJA		SCALE: N.T.S.		REV: A
PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC		PO BOX 520773		LONG BEACH, CA 90805
PHONE: 321.690.1788		FAX: 321.690.1783		EMAIL: info@ptc-sorp.com

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1207.05
Expiration Date 09/07/2024
By: *[Signature]*
Miami Dade Product Control

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

