



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Mesocore, LLC
3715 Fiscal Court
Riviera Beach, FL 33404

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: Modular Building Wall Sandwich Panel

APPROVAL DOCUMENT: Drawing No. 1947 Rev A, titled "Modular Building Wall Sandwich Panel" sheets 1 through 3 of 3, dated May 21, 2019 and last revised on March 01, 2024, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal 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 and the following statement: "Miami-Dade County Product Control Approved", 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 & renews** NOA # 23-0713.23 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

Ishaq I. Chanda



NOA No. 24-0319.01
Expiration Date: 10/17/2029
Approval Date: 05/02/2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL 19-0723.03

A. DRAWINGS

1. *Drawing No. 1947, titled "Modular Building Wall Sandwich Panel" sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., on May 21, 2019.*

B. TESTS

1. *Test report on Large Missile Impact, Cyclic Wind Pressure and Uniform Static Air Pressure Tests on Modular Building Wall Sandwich Panel, prepared by Intertek, Report No. J3970.01-450-18 R0, dated 06/07/19, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Technical data and specifications.*

F. STATEMENTS

1. *FBC, 2017 Edition Compliance Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 03/21/2019, signed & sealed by Warren W. Schaefer, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL 20-0622.10

A. DRAWINGS

1. *None.*

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. *FBC, 2020 Edition Compliance Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 06/04/2020, signed & sealed by Warren W. Schaefer, P.E.*

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0319.01
Expiration Date: 10/17/2029
Approval Date: 05/02/2024

Mesocore, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. *None.*

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. *FBC, 2020 Edition and 2023 Edition Compliance Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/2023, signed & sealed by Warren W. Schaefer, P.E.*

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0319.01
Expiration Date: 10/17/2029
Approval Date: 05/02/2024

Mesocore, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 1947 Rev A, titled “Modular Building Wall Sandwich Panel” sheets 1 through 3 of 3, dated May 21, 2019 and last revised on March 01, 2024, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, 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 conformance to FBC 2023 (**8th Edition**) and letter of no financial interest, W. W. Schaefer Engineering & Consulting, P.A., dated 03/08/24, signed and sealed by Warren W. Schaefer, P.E.
2. Statement Letter of Renewal w/ No change, dated 03/04/24, prepared by Mesocore, LLC, signed by Kevin Eliguwe, Gen. Manager.

G. OTHER

1. This NOA **revises & renews NOA # 23-0713.23, expiring 10/17/29.**

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 24-0319.01
Expiration Date: 10/17/2029
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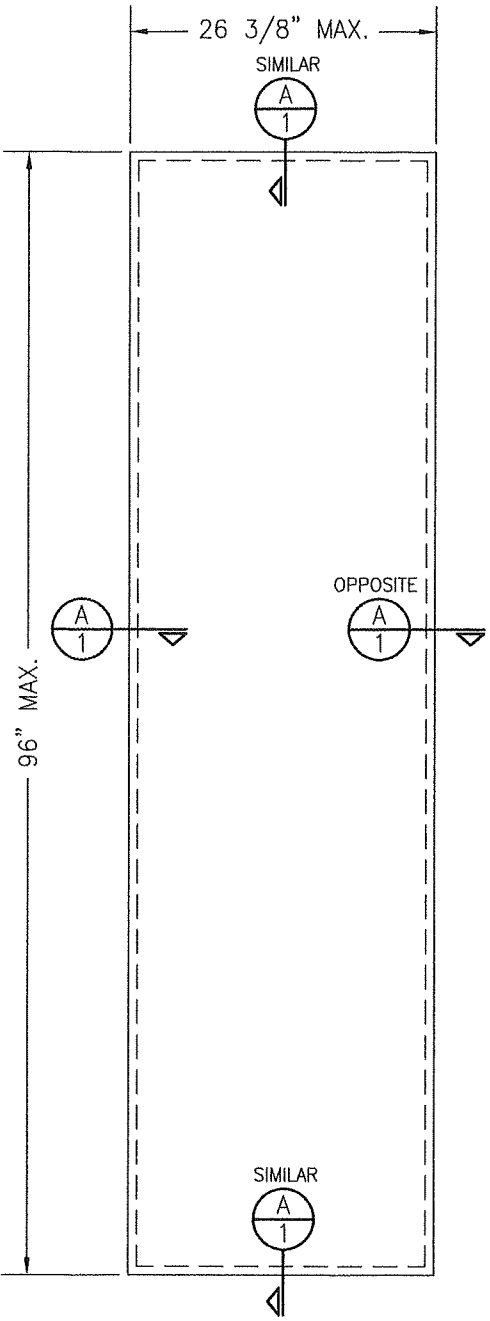
GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF ALL STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE PANELS.
3. ONLY THE PANELS ARE PART OF THIS APPROVAL. ALL SUPPORTING FRAMING MEMBERS & OTHER BUILDING COMPONENTS ARE NOT PART OF THIS APPROVAL AND SHALL BE DESIGNED UNDER SEPARATE CERTIFICATION AND/OR APPROVAL.
4. ALL SUPPORT FRAMING SHALL BE MIN. 1.75" X 1.75" STEEL TUBES WITH MINIMUM WALL THICKNESS OF 0.083" (Fy = MIN. 36 KSI).
5. MAXIMUM ALLOWABLE DEFLECTION FOR THE WALL ASSEMBLY SHALL BE L/240.
6. DETAILS HERE-IN SHOW INTENT TO PREVENT WATER INFILTRATION INTO & BEHIND THE SYSTEM. IT SHALL BE THE INSTALLERS RESPONSIBILITY TO INSURE THAT THE SYSTEM IS WATER TIGHT.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCT TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE & SMALL MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THE WALL PANEL SECTIONS ARE NOT MEANT TO SUPPORT DIAPHRAGM ACTION OF THE WALL ASSEMBLY/SYSTEM. THE STRUCTURAL FRAMING AND MAIN BODY CONTAINER OF THE MODULAR BUILDING SHALL BE CAPABLE OF FULLY SUPPORTING DIAPHRAGM ACTION WITHOUT ASSISTANCE FROM THE WALL PANELS.
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 Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. INDIVIDUAL PANEL SIZES ARE LIMITED AS SHOWN HERE-IN. ANY INCREASE IN PANEL DIMENSIONS GREATER THAN THOSE SHOWN SHALL BE SUBJECT TO SEPARATE JOB SPECIFIC REVIEW AND CERTIFICATION.
10. ONCE MODULAR BUILDING INSTALLATION IS COMPLETE, THE WALL SURFACE SHALL BE FINISH PAINTED INSIDE & OUT WITH A COATING AS REQUIRED TO FORM A PERMANENT SEAL. COATINGS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE MAG. BOARD SPECIFICATIONS.

PANEL SECTION CONSTRUCTION

1. FOAM IS CUT AND ROUTED AS REQUIRED TO FIT STRUCTURAL FRAMING OPENINGS.
2. AT EACH THE INTERIOR & EXTERIOR, MIN. 1/16" THICK FIBERGLASS SCRIM MADE UP OF MIN. 1 LAYER OF 20 OZ. 0.035" FIBERS WITH A 1/4" SQUARE GRID PATTERN IS ADHERED TO THE EPS FOAM AND MAG. BOARD WITH MOISTURE CURE POLYURETHANE GLUE.
3. AT EACH THE INTERIOR & EXTERIOR, MAGNESIUM OXIDE BOARD (MAG. BOARD) IS APPLIED TO THE FIBERGLASS SCRIM PER NO. 2 ABOVE.

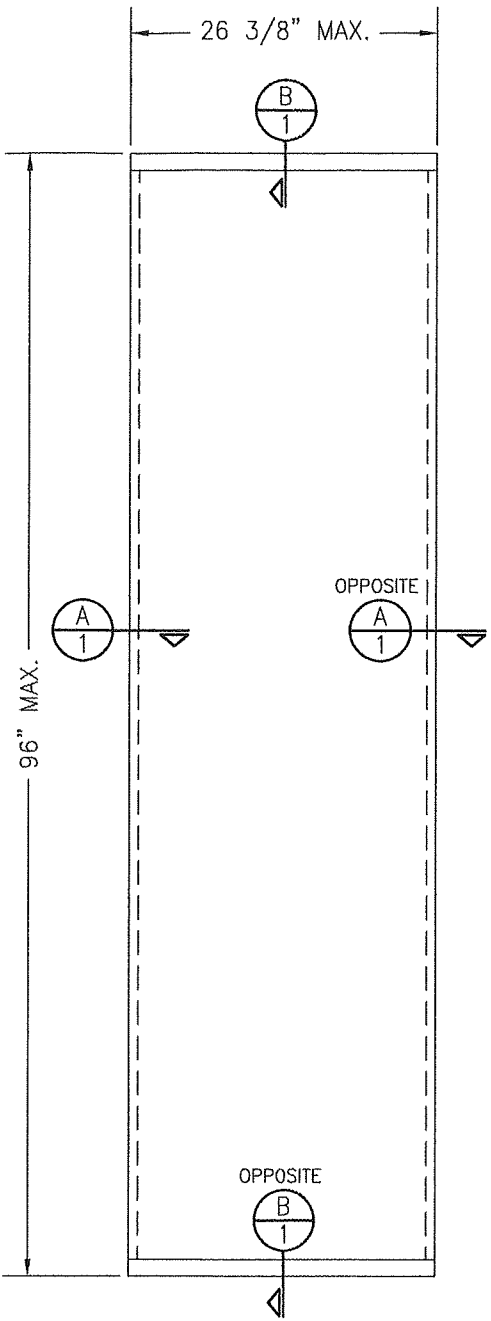
FOR ALL PANEL INSTALLATION DETAILS, SEE OTHER DRAWING SHEETS.



TYPICAL PANEL SECTION
WHEN ALL EDGES ARE
TRAPPED WITHIN STEEL TUBE
FRAMING

SCALE: 3/4" = 1'-0"
NOTE: PANEL LONG DIMENSION MAY BE
HORIZONTAL OR VERTICAL.

ALLOWABLE PANEL DESIGN PRESSURE
+70/-70 PSF

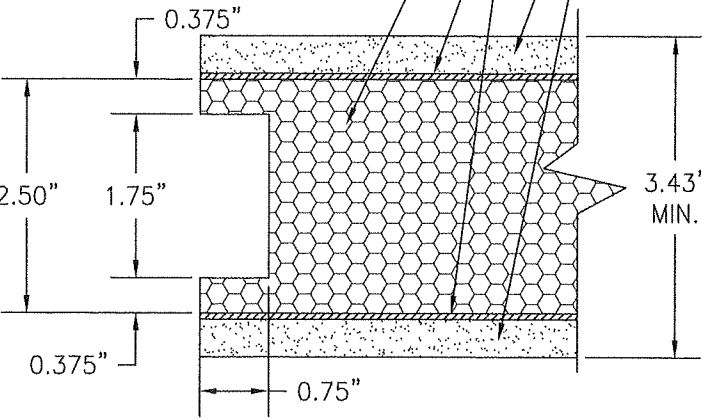


TYPICAL PANEL SECTION WHEN
TOP &/OR BOTTOM EDGE IS
TRAPPED WITHIN EXTRUDED
ALUMINUM CHANNEL

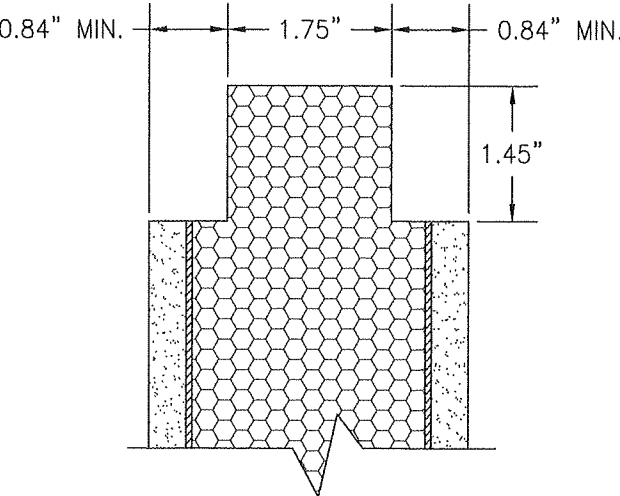
SCALE: 3/4" = 1'-0"
NOTE: PANEL LONG DIMENSION MAY BE
HORIZONTAL OR VERTICAL.

MIN. 0.40" (10mm) THICK MAGNESIUM OXIDE
BOARD (JET PRODUCTS JETBOARD SHEATHING
OR MAGNUM BOARD PRODUCTS MAGNUM BOARD)

MIN. 0.065" THICK 20 OZ WEIGHT
FIBERGLASS SCRIM
2.5" THICK 2 LB. EXPANDED
POLYSTYRENE EPS FOAM



SECTION A
SCALE: 1/2 FULL



SECTION B
SCALE: 1/2 FULL
(FOR ALL PANEL DIMENSIONING &
INFORMATION NOT SHOWN, SEE SECTION A/1)

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 24-0319.01
Expiration Date 10/17/2029
By Isaac I. Chande
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: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 03/18/19
DATE: 03/08/24	
BY: W.W.S.	
REVISION DESCRIPTION	
NO. A1	UPDATED ENGINEERS ADDRESS
MODULAR BUILDING WALL SANDWICH PANEL	
MESOCORE, LLC 3715 FISCAL COURT RIVIERA BEACH, FL 33404 561-881-9552	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	
W. W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1947	REV. A
SHEET NO. 1	OF 3

COMPOUND.

STEEL TUBE

FRAMING UNDER SEPARATE APPROVAL OR CERTIFICATION

SANDWICH PANEL

1/4"

MOISTURE CURE URETHANE ADHESIVE/SEALANT

BACKER ROD

EXTERIOR

FILL AND FINISH JOINT OFF WITH DAP-FLEXALL ELASTOMERIC JOINT COMPOUND AND FIBERGLASS MESH TAPE.

OSB CLOSURE WHEN REQUIRED (NOT PART OF THIS APPROVAL)

ALUMINUM CLOSURE BAR AS REQUIRED

SUPPORTING SUBSTRATE/MEMBER AND ANCHOR UNDER SEPARATE APPROVAL OR CERTIFICATION

EXTRUDED ALUMINUM CHANNEL

MAG BOARD SOFFIT (NOT PART OF THIS APPROVAL)

SANDWICH PANEL

SEALANT OR JOINT COMPOUND BY INSTALLER

EXTERIOR

OSB CLOSURE WHEN REQUIRED (NOT PART OF THIS APPROVAL)

SUPPORTING SUBSTRATE/MEMBER UNDER SEPARATE APPROVAL OR CERTIFICATION

STEEL TUBE FRAMING & ITS ATTACHMENT UNDER SEPARATE APPROVAL OR CERTIFICATION

MAG BOARD SOFFIT (NOT PART OF THIS APPROVAL)

SANDWICH PANEL

EXTERIOR

SEALANT OR JOINT COMPOUND BY INSTALLER

Diagram illustrating the cross-section of a sandwich panel installation. The diagram shows the sandwich panel, sealant between the bottom edge of the panel and flashing, 10-24 X 1/2" SS MS 12" O.C., 0.02" thick aluminum flashing, extruded aluminum channel, and the substrate and anchor under separate approval.

FRAMING MEMBER SURROUNDING WINDOW/DOOR OPENING UNDER SEPARATE APPROVAL OR CERTIFICATION

3/4" MIN.

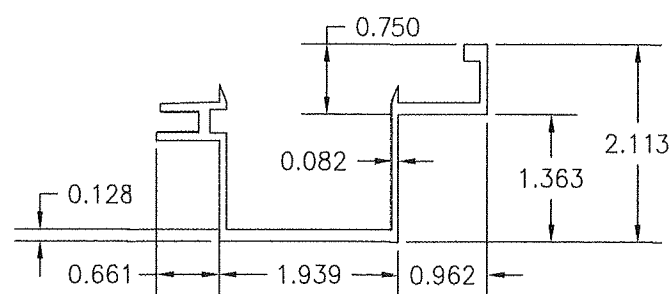
EXTERIOR

SANDWICH PANEL

The diagram shows a cross-section of a sandwich panel with a honeycomb core. A rectangular framing member is positioned around a central opening. A vertical dimension line on the right indicates a minimum thickness of 3/4 inch for the panel. A label 'EXTERIOR' is in a box on the left, and an arrow points to the honeycomb core from the label 'SANDWICH PANEL'.

(WINDOW SILL IS SHOWN. JAMBS & HEAD OF WINDOW/DOOR OPENING ARE THE SAME)

WINDOW/DOOR OPENING NOTE:
INSTALLATION OF WINDOWS AND DOORS IS NOT PART OF THIS APPROVAL. WINDOW AND DOOR INSTALLATION AND ALL METHODS OF FINISHING AROUND WINDOWS AND DOORS SHALL BE PART OF THE MODULAR BUILDING APPROVAL/CERTIFICATION OR BE SUBJECT TO JOB SPECIFIC REVIEW AND CERTIFICATION. IT SHALL BE NOTED THAT IN ALL FBC REQUIRED IMPACT ZONES, ALL WINDOWS AND DOORS SHALL EITHER BE FBC IMPACT APPROVED OR PROTECTED BY FBC IMPACT APPROVED SHUTTERS. WHETHER IMPACT OR NON-IMPACT, ALL WINDOWS AND DOORS SHALL HOLD AN APPLICABLE FLORIDA APPROVAL OR DADE COUNTY NOA.



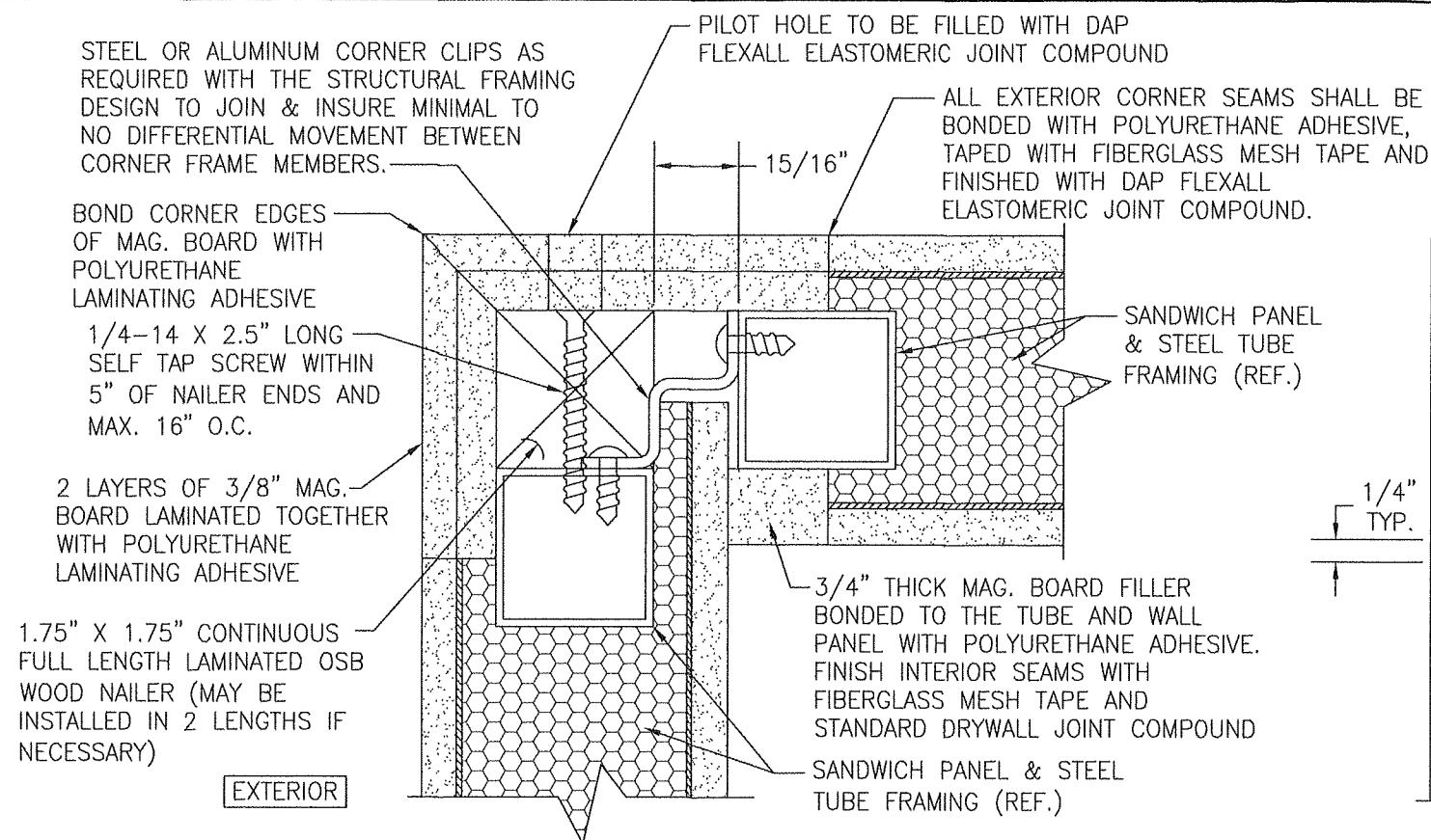
PRODUCT RENEWED
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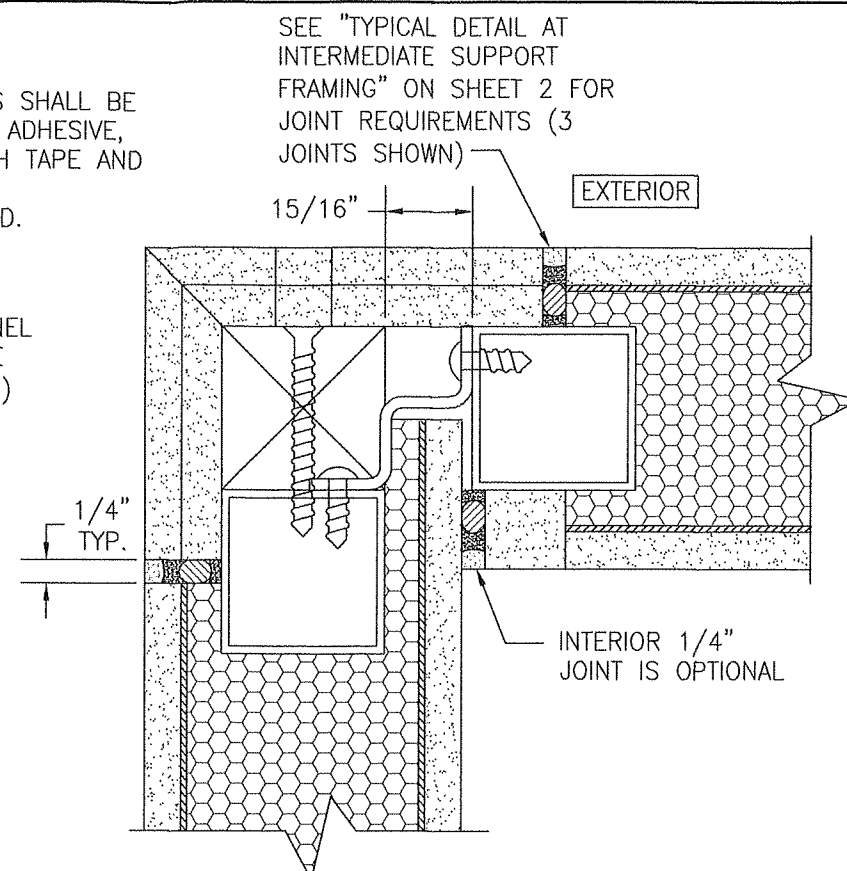
By Ishaq I. Chande
Miami-Dade Product Control



DRAWING NO. 1947	REV. A	SHEET NO. 2 OF 3	CERTIFICATION <div>MAR 12 2024</div> <div>WARREN W. SCHAEFER, P.E. P.E. NO. 14115</div>	DRAWING TITLE MODULAR BUILDING WALL SANDWICH PANEL	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER MESOCORE, LLC 3715 FISCAL COURT RIVIERA BEACH, FL 33404 561-881-9552		NO.	REVISION DESCRIPTION	BY	DATE	PLOT: 1=2	DATE: 03/18/19	DRAWN BY: W.W.S.	CHECKED BY: W.W.S.

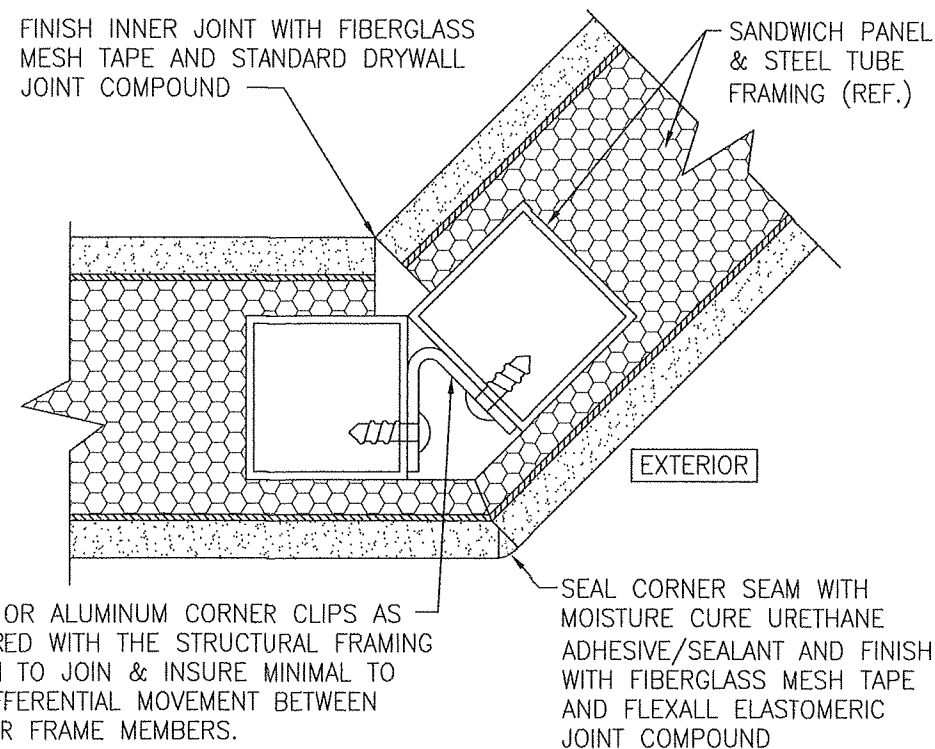


**TYPICAL 90 DEG. CORNER DETAIL
(OPTION 1 WITH NO SEALANT JOINTS)**

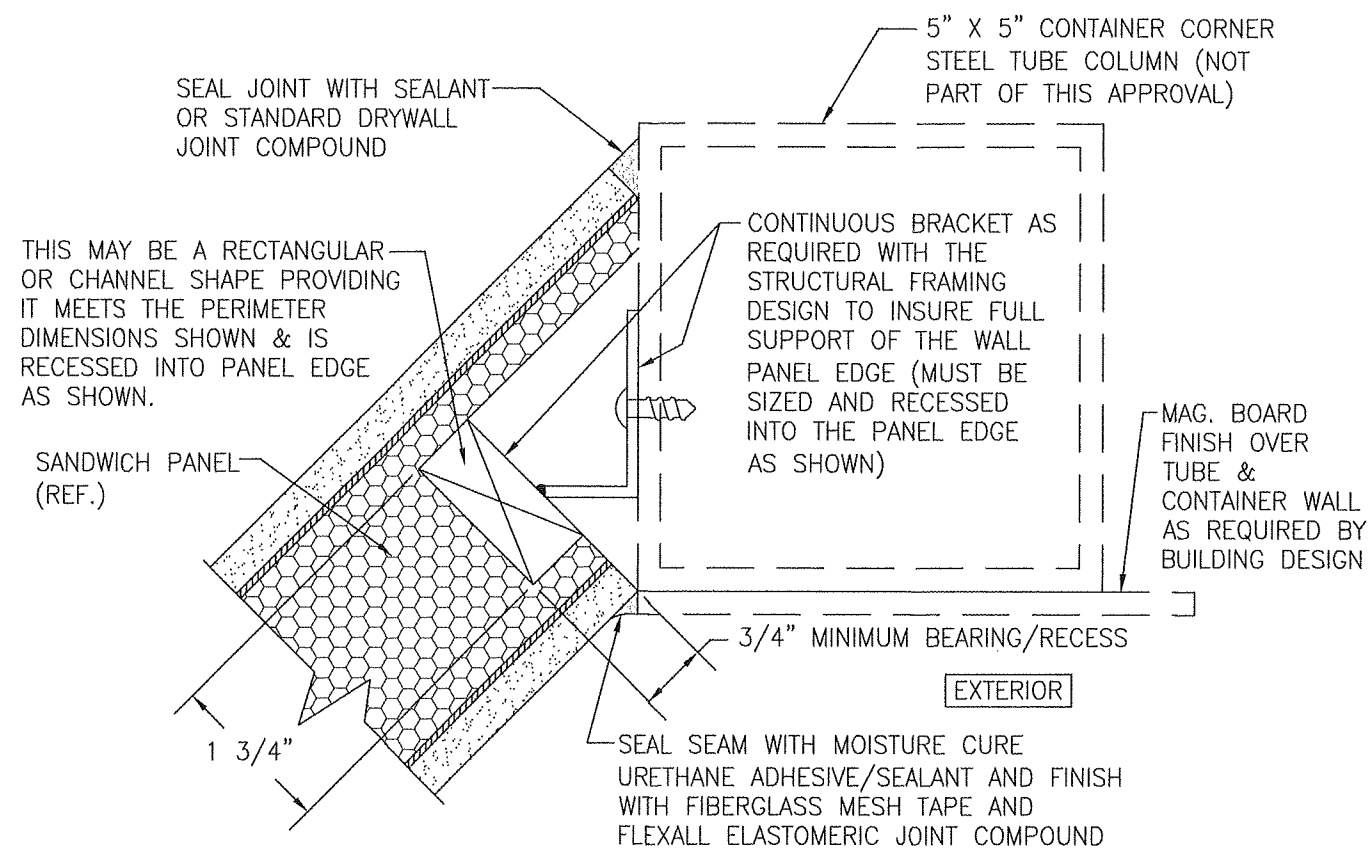


**TYPICAL 90 DEG. CORNER DETAIL
(OPTION 2 WITH SEALANT JOINTS)**
(FOR DETAIL NOT SHOWN, SEE OTHER 90 DEG. CORNER DETAIL ON THIS SHEET.)

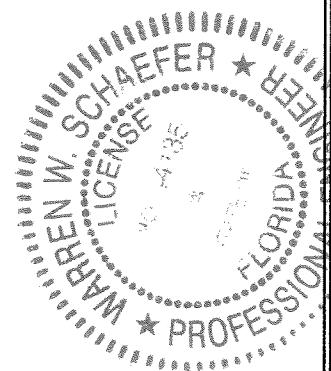
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Miami-Dade Product Control



45 DEG. OUTER CORNER DETAIL



45 DEG. INNER CORNER DETAIL



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PLOT: 1=2	DATE: 03/18/19
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE MODULAR BUILDING WALL SANDWICH PANEL	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER MESOCORE, LLC 3715 FISCAL COURT RIVIERA BEACH, FL 33404 561-881-9552
CERTIFICATION MAR 12 2024 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1947 REV. A SHEET NO. 3 OF 3