



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

Formative Linear Systems, LLC
14310 SW 8th Street #1387
Miami, FL 33184

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: Woodn Plastic Composite Material

APPROVAL DOCUMENT: Drawing No. **23-259**, titled "Woodn Material", sheet 1 of 1, dated 12/12/2023, prepared by Tillit Testing & Engineering Company, signed and sealed by Walter A. Tillit, Jr., 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: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", or MDCPCA. Also each package shall bear a traceable marking to the production lot.

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 # 22-0202.04** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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




02/26/24

NOA No. 24-0105.03
Expiration Date: February 2, 2027
Approval Date: March 7, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under NOA #16-0421.09

A. DRAWINGS

1. Drawing No. **16-046**, titled “Woodn Material”, sheet 1 of 1, dated 04/19/2016, with revision 1 dated 12/21/2016, prepared by Tillit Testing & Engineering Company, signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

	Test report	Standard	Date	Signature
1.	BT-FLS-15-002	ASTM G155-05a	09/2216	Yamil G. Kuri, P.E.
2.	BT-FLS-15-002	ASTM D638-10	09/2216	Yamil G. Kuri, P.E.
3.	GZIN1408025309PS	ASTM E84-14	10/15/14	Eleain Fan
4.	101867354MID-001a	ASTM D1929-13a	10/23/14	Bryan Bowman
5.	P20164566	ASTM D635-14	12/12/16	Kevin E. Schuman

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 code conformance to the 5th edition (2014) FBC issued by Tillit Testing & Engineering Company, dated 04/19/2016, signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of no financial interest issued by Tillit Testing & Engineering Company, dated 04/19/2016, signed and sealed by Walter A. Tillit, Jr., P.E.
3. Distributor agreement dated 03/30/2016.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0105.03
Expiration Date: February 2, 2027
Approval Date: March 7, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 17-1016.30

A. DRAWINGS

1. Drawing No. **17-255**, titled “Woodn Material”, sheet 1 of 1, dated 08/30/2017, prepared by Tillit Testing & Engineering Company, signed and sealed by Walter A. Tillit, Jr., 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 code conformance to the 6th edition (2017) FBC issued by Tillit Testing & Engineering Company, dated 08/30/2017, signed and sealed by Walter A. Tillit, Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0105.03
Expiration Date: February 2, 2027
Approval Date: March 7, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-0722.06 and new

A. DRAWINGS

1. Drawing No. **23-259**, titled “Woodn Material”, sheet 1 of 1, dated 12/12/2023, prepared by Tillit Testing & Engineering Company, signed and sealed by Walter A. Tillit, Jr., 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 code conformance to the 8th edition (2023) of the FBC, issued by Tillit Testing & Engineering Company, dated 12/12/2023, signed and sealed by Walter A. Tillit, Jr., P.E.

“Submitted under NOA # 21-0722.06”

2. Drawing No. **21-104** statement of code conformance to the 7th edition (2020) of the FBC issued by Tillit Testing & Engineering Company, dated 07/16/2021, signed and sealed by Walter A. Tillit, Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0105.03
Expiration Date: February 2, 2027
Approval Date: March 7, 2024

GENERAL NOTES

1. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) FOR WOODN MATERIAL, INDICATED AND SPECIFIED ON THIS DRAWING, HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. MINIMUM THICKNESS QUALIFIED IS 0.125".
THIS IS A COMPONENT APPROVAL AND DOES NOT INCLUDE AN EVALUATION OF STRUCTURAL PERFORMANCE OF THIS COMPONENT. SYSTEMS INCORPORATING THIS COMPONENT SHALL APPLY FOR A NOA TO THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION AND SHALL SUBMIT TEST REPORTS AND OTHER REQUIRED DOCUMENTS SHOWING THAT THE SYSTEM USING THIS COMPONENT WILL RESIST THE LOADS ACCORDING TO CHAPTER 16 OF THE FLORIDA BUILDING CODE.
2. WOODN MATERIAL ADEQUACY FOR FIRE BURNING CHARACTERISTICS HAS BEEN VERIFIED BY INTERTEK LABORATORIES REPORT #101867354MID-001a, P20164566 AND SGS REPORT #GZIN1408025309PS, IN ACCORDANCE W/ CHAPTER 26 OF THE FLORIDA BUILDING CODE, FOR ASTM D-1929, ASTM D635 AND ASTM E-84 STANDARDS RESPECTIVELY.
WEATHERING FOR OUT DOOR EXPOSURE OF PLASTICS WITH TENSILE TEST AFTER ASTM G 155 HAS BEEN VERIFIED AS PER BLACKWATER TESTING INC. REPORT #BT-FLS-15-002 PER ASTM G155, ASTM D638: 9.62%, AT 4500 HOURS.
3. COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON THIS SHEET.
4. WOODN IS A TECHNOLOGICAL WOOD MATERIAL COMPOSED OF THE COMBINATION OF A PVC COMPONENT AND WOOD FIBERS TO CREATE A MATERIAL WITH A DIMENSIONAL STABILITY THAT IS MUCH GREATER THAN BOTH TRADITIONAL WPC AND WOOD ITSELF (SEE NOTE 5).
WOODN HAS NO PROBLEM RESISTING WATER BECAUSE 80% OF THE WOOD FIBERS ARE COATED BY THE POLYMERIC COMPONENT (PVC AND OTHER ELEMENTS IN THE FORMULA). CONTAINS NO TOXIC MATERIALS, IS LEED COMPLAINT (SUSTAINABILITY) AND IS NOT SUBJECT TO THE DESTRUCTIVE ACTION OF WOODWORM, FUNGI AND PARASITES.
5. ADDITIONAL TESTING PERFORMED ON WOODN MATERIAL:

<u>PHYSICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>TEST RESULT</u>
BENDING STRENGTH	ISO 178 (73.4°F)	4786 psi
BENDING MODULUS	ISO 178 (73.4°F)	300,228 psi
COEFFICIENT OF LINEAR THERMAL EXPANSION	ASTM E-831	26.1in/in*(3mm/m=0.039"/FT)
WATER ABSORPTION AND HUMIDITY	ASTM D 1037	LITTLE UP TO NO WATER ABSORPTION(0.07%)
FLAME SPREAD INDEX	ASTM E 84	INDEX 0
IGNITION TEMPERATURE OF PLASTIC	ASTM D 1929	890° F
SMOKE DEVELOPED/INDEX	ASTM E 84	250
RATE OF BURNING	ASTM D635	0.0
6. (a) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.A.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(b) THIS P.A.D. WILL BE CONSIDERED INVALID IF MODIFIED.

(c) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
7. A PERMANENT PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE PROFILE. LABEL SHALL READ AS FOLLOWS:
WOODN MATERIAL
FORMATIVE LINEAR SYSTEMS LLC
MIAMI, FL 33184
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 24-0105.03

Expiration Date 02/02/2027

By 
Miami-Dade Product Control

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th, St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

WOODN MATERIAL

FORMATIVE LINEAR SYSTEMS LLC

14310 SW 8TH STREET # 1387
MIAMI, FL 33184
(786) 264-1044

W.H.
DRAWN BY:

12/12/2023
DATE:

23-259

DRAWING No.

SHEET 1 OF 1

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 21-104	12/12/23	3	-	-
2	-	-	4	-	-

P.E. SEAL/SIGNATURE/DATE