

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

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

# NOTICE OF ACCEPTANCE (NOA)

GFRC 360, LLC; dba GFRC Cladding 118 North Shiloh Road Garland, Texas 75042

#### 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:** "Class 2" Glass Fiber Reinforced Concrete Wall Panels

**APPROVAL DOCUMENT:** Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision D1 dated September 02, 2025, signed and sealed by Warren W. Schaefer, P.E., on Sept. 02, 2025, bearing 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 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 and renews NOA #23-0713.22 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 & E-6 as well as approval document mentioned above.

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

(MIAMI-DADE COUNTY)
| APPROVED

Help. M. lo 10/02/25

NOA No. 25-0908.03 Expiration Date: 05/31/2031 Approval Date: 10/02/2025

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## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0216.05

#### A. DRAWINGS

1. Drawing No. 1037, sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated January 29, 2001, signed and sealed by Warren W. Schaefer, P.E. on May 1, 2001.

#### B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on GFRC Glass Fiber Reinforced Concrete Wall Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0250-1203-00, dated February 14, 2001, signed and sealed by Vinu J. Abraham, P.E.

## C. CALCULATIONS

1. Calculations, dated February 2, 2001, 3 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on February 5, 2001.

## D. MATERIAL CERTIFICATIONS

- 1. Daracem ML 500 Superplasticizer ASTM Type A and Type F by Grace Construction Products.
- 2. Technical data and specifications.

# 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0901.03

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/29/2001, signed and sealed by Warren W. Schaefer, P.E. on 08/17/2005.

## B. TESTS

1. None.

#### C. CALCULATIONS

1. None.

#### D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., stating that he is still in the engineering business, dated January 13, 2006.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

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## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0513.03

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision B1 dated 05/11/2011, signed and sealed by Warren W. Schaefer, P.E.

#### B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on GFRC Glass Fiber Reinforced Concrete Wall Panel, prepared by Hurricane Test Laboratory, Inc., Report No. T250-0401-11, dated May 09, 2011, signed and sealed by Vinu J. Abraham, P.E.

#### C. CALCULATIONS

1. None.

## D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance department.

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated May 11, 2011, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2007 Edition.

#### 4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-1110.07

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision B1 dated 05/11/11, signed & sealed by Warren W. Schaefer, P.E., 02/06/12.

## B. TESTS

1. None.

#### C. CALCULATIONS

1. None.

#### D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

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# E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 11/04/11, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2007 & 2010 Editions.

## 5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-0423.08

#### 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. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 04/14/14, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2014 Edition.

#### 6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 16-0209.12

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision C1 dated February 03, 2016, signed and sealed by Warren W. Schaefer, P.E.

## B. TESTS

None.

## C. CALCULATIONS

None.

#### D. QUALITY ASSURANCE

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

## E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor NOA No. 25-0908.03

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## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 17-0712.08
- 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. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 07/06/17, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2017 Edition.
- 8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 20-0622.09
- 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. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 06/04/20, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2020 Edition.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

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## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 21-0219.01

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision C1 dated February 03, 2016, signed and sealed by Warren W. Schaefer, P.E., on Feb. 11, 2021.

#### 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. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 06/04/20, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2020 Edition.

## 10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-0713.22

#### A. DRAWINGS

1. None.

# B. TESTS

1. None.

## C. CALCULATIONS

1. None.

#### D. OUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

1. None.

#### F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/23, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2020 Edition and 2023 Edition.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 25-0908.03

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# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 11. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision D1 dated September 02, 2025, signed and sealed by Warren W. Schaefer, P.E., on Sept. 02, 2025.

#### B. TESTS

1. Sales Acknowledgement from O'Neal Steel The Metals Company dated 08/21/2025, for the 3/8" Round Steel Rod.

# C. CALCULATIONS

1. None.

#### D. QUALITY ASSURANCE

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

#### E. MATERIAL CERTIFICATIONS

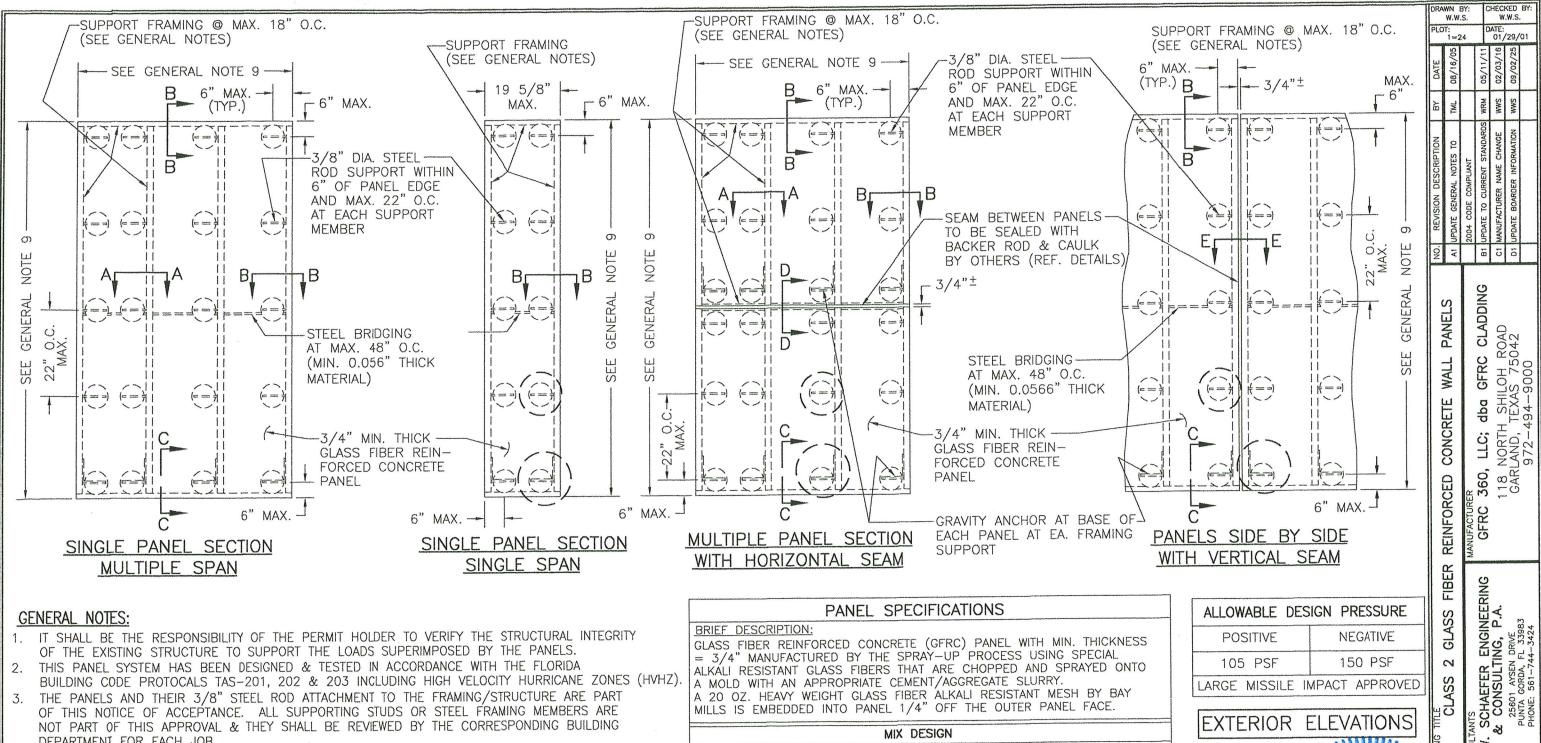
1. None.

## F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 09/02/25, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2023 Edition.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor NOA No. 25-0908.03

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ONTO THE MOLD.

- BUILDING CODE PROTOCALS TAS-201, 202 & 203 INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ)
- THE PANELS AND THEIR 3/8" STEEL ROD ATTACHMENT TO THE FRAMING/STRUCTURE ARE PART OF THIS NOTICE OF ACCEPTANCE. ALL SUPPORTING STUDS OR STEEL FRAMING MEMBERS ARE NOT PART OF THIS APPROVAL & THEY SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT FOR EACH JOB.
- 4. ALL SUPPORT FRAMING SHALL BE MIN. 4" X 0.056" THK. (Fy = 50 ksi.) STUDS WITH 1 5/8" FLANGES & 1/2" RETURNS AND MIN. 4" X 0.056" THK. TRACK WITH 1 1/4" FLANGES.
- MAXIMUM ALLOWABLE DEFLECTION FOR THIS ASSEMBLY SHALL BE L/360.
- DETAILS ON SHEETS 2 THROUGH 4 ARE TYPICAL AND SHOW INTENT TO PREVENT WATER INFILTRATION INTO AND BEHIND THE SYSTEM.
- THIS SYSTEM IS A LARGE MISSILE IMPACT APPROVED SYSTEM.
- THIS WALL PANEL SYSTEM SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAM ACTION OF WALL TO STRUCTURE.
- 9. PANEL SIZES ARE LIMITED BY SHIPPING & HANDLING REQUIREMENTS (TYPICALLY LIMITED TO 12 FT. IN ONE DIRECTION) AND/OR JOB REQUIREMENTS ONLY AND ARE NOT LIMITED TO THE PRODUCT REVISED 55 5/8" X 96" SIZES TESTED.

as complying with the Florida ance No 25-0908.03 GLASS FIBER REINFORCED CONCRETE (GFRC) PANEL WITH MIN. THICKNESS = 3/4" MANUFACTURED BY THE SPRAY-UP PROCESS USING SPECIAL ALKALI RESISTANT GLASS FIBERS THAT ARE CHOPPED AND SPRAYED ONTO A MOLD WITH AN APPROPRIATE CEMENT/AGGREGATE SLURRY. A 20 OZ. HEAVY WEIGHT GLASS FIBER ALKALI RESISTANT MESH BY BAY MILLS IS EMBEDDED INTO PANEL 1/4" OFF THE OUTER PANEL FACE.

MIX DESIGN						
MATERIAL	AMOUNT					
TYPE I PORTLAND CEMENT	94 LBS					
SAND (1:1 RATIO TO CEMENT)	94 LBS					
WATER	26 LBS					
COPOLYMER DISPERSION COMPOUND BY BALL CONSULTING, LTD.	11 LBS					
ALKALI RESISTANT GLASS FIBER BY NIPPON ELECTRIC GLASS AMERICA, INC.	4.5% BY WEIGHT MIN. OF TOTAL MIX					
WR GRACE DURACEM ML500 PLASTICIZER	0-8 OZ. AS REQ'D TO OBTAIN CORRECT SLUMP TO PUMP					
THE CEMENT AND THE SAND AGGREGATE ARE COMBINED WITH WATER AND THE THEROMPLASTIC COPOLYMER DISPERSION AGENT IN A HIGH SHEAR MIXER						

AFTER MIXING, SLURRY IS PUMPED THROUGH A HOSE TO A CONCENTRIC

SPRAY GUN, WHERE THE CHOPPED GLASS FIBER IS ADDED & SPRAYED

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.

	ALLOWABLE	DES	IGN PRESSURE		RESSURE
	POSITIVE 105 PSF		NEGATIVE		
			150 PSF		
	LARGE MISSIL	EIN	MPAC	T	APPROVED

CLASS EXTERIOR ELEVATIONS ₹ 5 CHAEFER \* Ś ≥ LICENS

D 1037 SHEET NO. OF

