



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](http://www.miamidade.gov/economy)

**Drexel Metals Inc.**  
**1234 Gardiner Lane**  
**Louisville, KY 40213**

**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: Defend-R CI Foil, Coated Glass, and Class A Polyiso Sheathing Insulation**

**APPROVAL DOCUMENT:** Drawings No. **3q-CRL-DSINF**, titled "Defend-R CI Foil, Defend-R CI Foil Coated Glass, and Defend-R CI Foil (Class A), sheet 1 through 3 of 3, dated 02/08/2024, prepared by Nemo/etc., signed and sealed by Robert Nieminen, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Each board shall bear a permanent label with the manufacturer's name or logo, Lake City, FL or Smithfield, PA, model/series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted.

**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 consists of this page 1, evidence pages E-1, E-2, E-3 and E-4 as well as approval document mentioned above.

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



03/14/24

NOA No 23-1208.11  
Expiration Date: January 2, 2029  
Approval Date: March 21, 2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous NOA's**

**A. DRAWINGS “Submitted under NOA # 13-0916.07”**

1. Drawing No. **11\_27\_2013**, titled “Xci Foil, Xci CG and Xci Class A Polyiso Insulated Sheathing (Rigid Polyiso Wall Foam Board Insulation), sheet 1 through 3 of 3, dated 11/27/2013, prepared by Trinity ERD, signed and sealed by Robert Nieminen, P.E.

**B. TESTS “Submitted under NOA # 13-0916.07”**

	<b><u>Test Report No.</u></b>	<b><u>Test Standard</u></b>	<b><u>Date</u></b>	<b><u>Signature</u></b>
1.	C42950.09.13-1A	ASTM C1289	09/10/13	Robert Nieminen, P.E.
2.	C42950.09.13-1C	TAS 110	10/25/13	Robert Nieminen, P.E.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATION “Submitted under NOA # 13-0916.07”**

1. Test report on Flame Spread and Smoke Density per ASTM E84 of H-Shield Polyisocyanurate roof insulation core material, prepared by FM Approvals, Project ID **3018331**.
2. Test report on Flame Spread and Smoke Developed per UL723 of Xci-Class A, (BRYX.R27090) Foam Plastic, prepared by Underwriter Laboratories, Report No. **R27090**.

**F. STATEMENTS “Submitted under NOA # 14-0501.01”**

1. Statement letter of code conformance to 2014 (5<sup>th</sup> edition) FBC and no financial interest issued by Trinity ERD, dated 04/18/2014, signed and sealed by Robert Nieminen, P.E.

**“Submitted under NOA # 13-0916.07”**

2. Statement letter of code conformance to 2010 FBC and no financial interest issued by Trinity ERD, dated 11/18/2013, signed and sealed by Robert Nieminen, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No 23-1208.11**  
**Expiration Date: January 2, 2029**  
**Approval Date: March 21, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. Evidence submitted under NOA #18-1024.06**

**A. DRAWINGS**

1. Drawings **Xci Foil, Xci CG and Xci Foil (Class A)**, titled “Xci Foil, Xci CG and Xci Class A Polyiso Insulated Sheathing (Rigid Polyiso Wall Foam Board Insulation), sheet 1 through 3 of 3, dated 10/22/2018, prepared by Nemo/etc., signed and sealed by Robert Nieminen, 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 CERTIFICATION**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 6<sup>th</sup> edition (2017) FBC and no financial interest issued by Nemo/etc., dated 10/22/2018, signed and sealed by Robert Nieminen, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No 23-1208.11**  
**Expiration Date: January 2, 2029**  
**Approval Date: March 21, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under NOA # 19-0723.01**

**A. DRAWINGS**

1. Drawings **Xci Foil, Xci CG and Xci Foil (Class A)**, titled “Hunter Panels Polyisocyanurate Sheathing Insulation, sheet 1 through 3 of 3, dated 06/20/2019, prepared by Nemo/etc., signed and sealed by Robert Nieminen, 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 CERTIFICATION**

1. None.

**F. STATEMENTS**

1. Statement letter issued by Hunter Panels, LLC stating the following: a) They have legally sold all assets to Carlisle Construction Materials, LLC, b) Requesting the existing NOA to be rescinded, c) They no longer manufacture the product under the existing NOA, d) They have given up all the rights to the existing NOA, and e) All the necessary machinery, equipment, and know-how used in the fabrication of the product used for the tests, which were the basis for obtaining the NOA are being sold to Carlisle Construction Materials, LLC, dated 06/17/2019, signed by Joseph A. Malpezzi.
2. Certificate of merger between Hunter Panels, LLC and Carlisle Construction Materials, LLC, dated 01/01/2016.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No 23-1208.11**  
**Expiration Date: January 2, 2029**  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted under NOA # 21-0406.02, # 23-1205.01 and new**

**A. DRAWINGS**

1. Drawings No. **3q-CRL-DSINF**, titled “Defend-R CI Foil, Defend-R CI Foil Coated Glass, and Defend-R CI Foil (Class A), sheet 1 through 3 of 3, dated 02/08/2024, prepared by Nemo/etc., signed and sealed by Robert Nieminen, 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 CERTIFICATION**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 8<sup>th</sup> edition (2023) of the FBC, issued by Nemo/etc., dated 11/30/2023, signed and sealed by Robert Nieminen, P.E.
2. Statement letter of code conformance to 7<sup>th</sup> edition (2020) of the FBC issued by Nemo/etc., dated 03/29/2021, signed and sealed by Robert Nieminen, P.E.
3. Private label agreement dated 01/30/2024.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No 23-1208.11**  
**Expiration Date: January 2, 2029**  
**Approval Date: March 21, 2024**

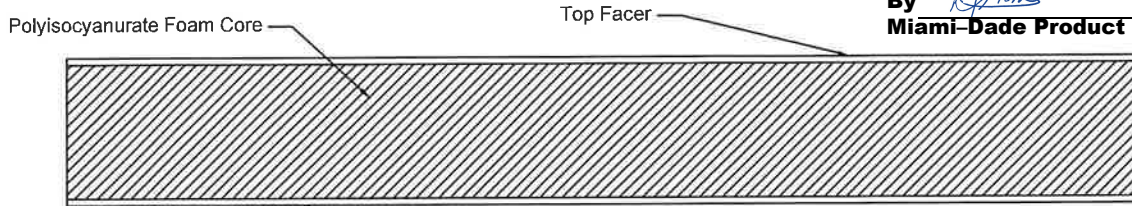
**PRODUCT APPROVED**  
 as complying with the Florida  
 Building Code

NOA-No. 23-1208.11

**PRODUCT ENGINEERING DATA**

Approval Date 03/21/2024

By   
 Miami-Dade Product Control



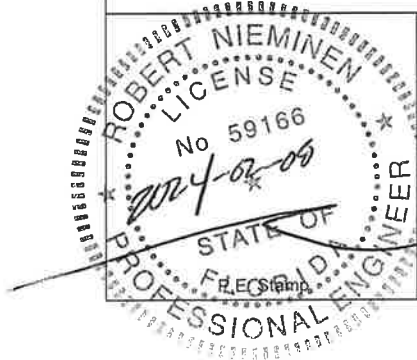
Bottom Facer — Defend-R CI Foil POLYISO FOAM CONSISTS OF FOIL FACERS ON BOTH SIDES

Defend-R CI Foil Polyiso Insulated Sheathing

Property	Test	Results	
Density, lb/ft <sup>3</sup>	ASTM D1622	3.6	
Compressive Strength, psi	ASTM D1621	21.7	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 1" thick @ 75° F	ASTM C518	N/A	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 2" thick @ 75° F	ASTM C518	12.1	
Water Absorption, 2-hour, volume %	ASTM C209	0.11	
Water Vapor Permeance, perms	ASTM E96 (A)	0.0	
Dimensional Stability		Length	Width
@ -40° F, amb. RH, %	ASTM D2126	0.0	0.0
@ 158° F, amb. RH, %		0.0	0.1
@ 200° F, amb. RH, %		0.1	0.0
Flame Spread	ASTM E84	50 or less	
Smoke Developed	ASTM E84	450 or less	

General Notes:

- Defend-R CI Foil is manufactured to meet the physical property requirements of ASTM C1289, Type 1, Class 1 Grade 2 (20 psi).
- Application of product shall comply with all pertinent sections of the Florida Building Code.
- Installations using this product must be fully protected on the interior side of walls by a maximum ½ inch gypsum board or other suitable thermal barrier.
- Defend-R CI Foil has not been evaluated for outdoor exposure. It is designed to be protected from the elements at all times.



TITLE: Defend-R CI Foil



353 Christian Street, Unit #13  
 Oxford, CT 06478  
 TEL: 203 262 9245  
 FAX: 203 262 9243  
 WWW.NEMOETC.COM



Drexel Metals, Inc.  
 1234 Gardiner Lane  
 Louisville, KY 40213

NEMO ETC	
Date:	2024-02-08
Page:	1 of 3
Project #:	3q-CRL-DSINF
Drawn By:	Jacob Marganski
Scale:	Not to Scale
Facility:	Lake City, FL

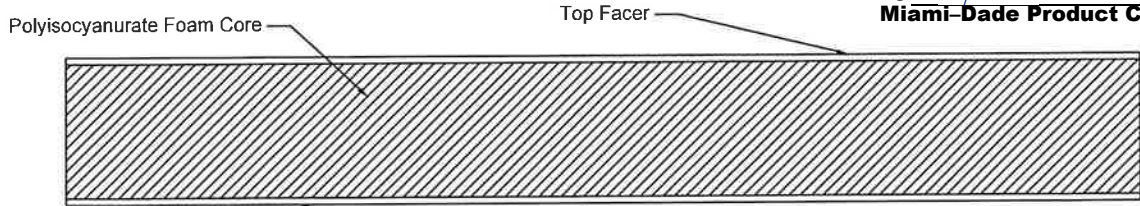
**PRODUCT APPROVED**  
as complying with the Florida  
Building Code

NOA-No. 23-1208.11

PRODUCT ENGINEERING DATA

Approval Date 03/21/2024

By   
Miami-Dade Product Control



Bottom Facer Defend-R CI Coated Glass POLYISO FOAM CONSISTS OF COATED GLASS FACERS ON BOTH SIDES

Defend-R CI Coated Glass Polyiso Insulated Sheathing

Property	Test	Results	
Density, lb/ft <sup>3</sup>	ASTM D1622	3.3	
Compressive Strength, psi	ASTM D1621	21.7	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 1" thick @ 75° F	ASTM C518	N/A	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 2" thick @ 75° F	ASTM C518	12.1	
Water Absorption, 2-hour, volume %	ASTM C209	0.6	
Water Vapor Permeance, perms	ASTM E96 (A)	1.8	
Dimensional Stability		Length	Width
@ -40° F, amb. RH, %	ASTM D2126	0.2	0.0
@ 158° F, amb. RH, %		0.3	0.3
@ 200° F, amb. RH, %		0.0	0.1
Flame Spread	ASTM E84	50 or less	
Smoke Developed	ASTM E84	450 or less	

General Notes:

- Defend-R CI Coated Glass is manufactured to meet the physical property requirements of ASTM C1289, Type 2, Class 2 Grade 2 (20 psi)
- Application of product shall comply with all pertinent sections of the Florida Building Code
- Installations using this product must be fully protected on the interior side of walls by a maximum 1/2 inch gypsum board or other suitable thermal barrier
- Defend-R CI Coated Glass has not been evaluated for outdoor exposure. It is designed to be protected from the elements at all times.
- Manufacturing Location 1: Lake City, FL
- Manufacturing Location 2: Smithfield, PA

TITLE: Defend-R CI Coated Glass

NEMO|ETC

Date: 2024-02-08

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Project #: 3q-CRL-DSINF

Drawn By: Jacob Marganski

Scale: Not to Scale



353 Christian Street, Unit #13  
Oxford, CT 06478

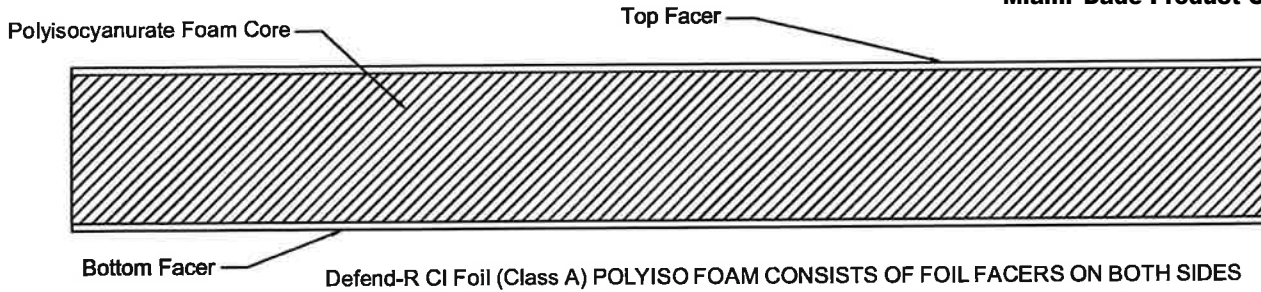
TEL: 203 262 9245  
FAX: 203 262 9243  
WWW.NEMOETC.COM



Drexel Metals, Inc.  
1234 Gardiner Lane  
Louisville, KY 40213



## PRODUCT ENGINEERING DATA

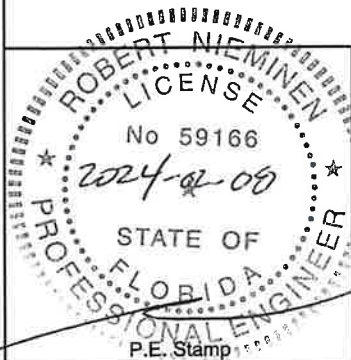


### Defend-R CI Foil (Class A) Polyiso Insulated Sheathing

Property	Test	Results	
Density, lb/ft <sup>3</sup>	ASTM D1622	2.7	
Compressive Strength, psi	ASTM D1621	37.4	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 1" thick @ 75° F	ASTM C518	5.4	
Thermal Resistance F-hr-ft <sup>2</sup> / BTU 2" thick @ 75° F	ASTM C518	11.5	
Water Absorption, 2-hour, volume %	ASTM C209	0.2	
Water Vapor Permeance, perms	ASTM E96 (A)	0.0	
Dimensional Stability		Length	Width
@ -40° F, amb. RH, %	ASTM D2126	0.1	0.1
@ 158° F, amb. RH, %		0.3	0.3
@ 200° F, amb. RH, %		0.0	0.2
Flame Spread	ASTM E84	25	
Smoke Developed	ASTM E84	250	

General Notes:

1. Defend-R CI Foil (Class A) is manufactured to meet the physical property requirements of ASTM C1289, Type 1, Class 1 Grade 3 (25 psi)
2. Application of product shall comply with all pertinent sections of the Florida Building Code
3. Installations using this product must be fully protected on the interior side of walls by a maximum ½ inch gypsum board or other suitable thermal barrier
4. Defend-R CI Foil (Class A) has not been evaluated for outdoor exposure. It is designed to be protected from the elements at all times.



TITLE: Defend-R CI Foil (Class A)

  
**NEMO|etc.**  
ENGINEER | EVALUATE | TEST | CONSULT  
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Oxford, CT 06478  
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Roofing Systems + Custom Fabrication  
CARLISLE COMPANY  
Drexel Metals, Inc.  
1234 Gardiner Lane  
Louisville, KY 40213

NEMO ETC	
Date:	2024-02-08
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