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/building

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

NOTICE OF ACCEPTANCE (NOA)

EPIC Metals Corp.
11 Talbot Avenue
Rankin, PA 15104

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: EPIC Architectural & Sunscreen Perforated Steel Panels – N.I.

APPROVAL DOCUMENT: Drawing No. **23-616-Epic-NI-ER**, titled "EPIC EST4 & ESW Series Perforated Steel Sunscreen Panel System", sheets 1 through 12 of 12, dated 09/14/2023, prepared by CBuck, Inc., signed and sealed by James L. Buckner, 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 panel shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and 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 NOA No. 23-0523.03** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

EPIC Metals Corp.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA # 17-1221.25.

A. DRAWINGS

1. Drawing No. **16-148-ER-ES.1**, titled "EPIC Metals ESW & EST Series Perforated Steel Sunscreen Panel", sheets 1 through 13 of 13, dated 06/04/19, prepared by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

B. TESTS

	Test Report No.	Test Standard	Date	Signature
1.	T226-17	TAS 202-94	07/31/17	Daniel G. Farabaugh, P.E.
2.	T263-18	TAS 203-94	09/21/18	Daniel G. Farabaugh, P.E.
3.	T225-18	TAS 202-94	06/22/18	Daniel G. Farabaugh, P.E.
4.	T220-18 Rev	TAS 202-94	06/18/18	Daniel G. Farabaugh, P.E.
5.	T224-17	TAS 202-94	07/31/17	Daniel G. Farabaugh, P.E.
6.	T264-18	TAS 203-94	09/18/18	Daniel G. Farabaugh, P.E.
7.	T224-18	TAS 202-94	06/22/18	Daniel G. Farabaugh, P.E.
8.	T225-17	TAS 202-94	07/31/17	Daniel G. Farabaugh, P.E.
9.	T265-18	TAS 203-94	09/18/18	Daniel G. Farabaugh, P.E.
10.	T191-17	AISI S905-13	07/17/17	Daniel G. Farabaugh, P.E.

C. CALCULATION

1. Engineering analysis prepared by CBuck, Inc., dated 03/28/2019, signed and sealed by James L. Buckner, P.E.

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 the **FBC 6th Edition (2017)** and of no financial interest, dated 12/14/2017, issued by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 23-0926.11
Expiration Date: May 23, 2024
Approval Date: November 9, 2023

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

2. EVIDENCE SUBMITTED UNDER # 21-0830.03 AND NEW

A. DRAWINGS

1. Drawing No. **23-616-Epic-NI-ER**, titled "EPIC EST4 & ESW Series Perforated Steel Sunscreen Panel System", sheets 1 through 12 of 12, dated 09/14/2023, prepared by CBuck, Inc., signed and sealed by James L. Buckner, 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. Drawing statements of code conformance to the 8th edition (2023) of the FBC, issued by CBuck, Inc., dated 09/14/2023, signed and sealed by James L. Buckner, P.E.

2. Statement letter of code conformance to the FBC 7th Edition (2020) dated 03/11/2021, issued by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 23-0926.11
Expiration Date: May 23, 2024
Approval Date: November 9, 2023

Engineering Report & Drawings

Of

Epic Sunscreen Systems

EST 4
ESW 450
ESW 600
ESW 750

Perforated Sunscreen Panel System

For

Miami-Dade Notice of Acceptance (N.O.A.)

Category: **Panels**
Sub - Category: **Sun Shades**

Product Type: Perforated Sunscreen Panel System
Material: Steel

Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242

Report No.: 23-616-Epic-NonLMI-ER
Date: 9/14/2023

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PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0926.11
Expiration Date 05/23/2024
By _____
Miami-Dade Product Control

EPIC METALS™
MANUFACTURER:
Epic Metals Corporation
11 Talbot Ave
Rankin, PA 15104
www.epicmetals.com
(412) 351-3913

EPIC METALS "EST4 & ESW SERIES"
PERFORMED STEEL SUNSCREEN PANEL ENGINEERING REPORT

DATE:	9/14/23
PAGE #:	1 OF 12
REPORT#:	23-616-Epic-NonLMI-ER
REVISES#:	22-489-Epic-NonLMI-ER
PM:	DG
REVISIONS:	9/14/23

CBUCK Engineering
Specialty Structural Engineering
CBUCK, Inc. COA #8064
www.cbuckinc.net
(561) 491-9927
1374 Community Dr
Jupiter, FL 33458

JAMES L. BUCKNER
LICENSE
No.31242
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Date: 9/14/23

1.0 Product:

1.1 **Manufacturer:** Epic Metals Corp.
1.2 **Product Name:** "EST4 & ESW Series" Perforated Steel Sunscreen Panel
1.3 **Category:** Panels
1.4 **Subcategory:** Sun Shades

2.0 Evaluation Scope:

2.1 **Evaluation Criteria:**

2.1.1 Florida Building Code (FBC) 8th Edition (2023)
2.1.2 Code Section: High Velocity Hurricane Zone (HVHZ)
2.1.3 Miami-Dade Department Of Regulatory And Economic Resources, Product Control Section Checklist # 0250

2.2 **Properties Evaluated:**

2.2.1 Structural Resistance Properties
2.2.1.1 Uniform Static Air Pressure per TAS 202
2.2.1.2 Cyclic Wind Pressure Loading per TAS 203

2.2.2 Material Properties
2.2.2.1 Tensile Strength per ASTM E8

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2.3 **Limits of Evaluation:**

This product is limited to compliance with the criteria in section 2.1 and properties in Section 2.2 of this report.

3.0 Evaluated Uses:

Epic Metals "EST4 & ESW Series" Perforated Steel Sunscreen Panels are evaluated for use as exterior Sunshades. They are attached to steel girts as exterior cladding.

4.0 Assembly Description:

4.1 **General:**

EST4, ESW450, ESW600 and ESW750 panels are made from steel conforming to ASTM A653 SS grade 40, with a minimum G90 galvanized steel with coating designation per section 12.0. As an option, the panels can be coated with an Epishield paint on all surfaces. The EST4 panels are made from 16 or 20 gage steel. The ESW450, ESW600 and ESW750 panels are made from 14 or 18 gage steel.

1. EST4: 4-inch deep panel, 24-inch width with perforations in the widest flange.
2. ESW450: 4.5-inch deep panel, 18-inch width with perforations in the widest flange and webs.
3. ESW600: 6.0-inch deep panel, 18-inch width with perforations in the widest flange and webs.
4. ESW750: 7.5-inch deep panel, 18-inch width with perforations in the widest flange and webs.

The standard perforation pattern contains 3/8-inch diameter round holes on a 1/2-inch staggered pattern. The perforation pattern is designated by the Industrial Perforators Association as pattern # 124. The percent open area is 51%. The load tables are valid for other perforation pattern configurations provided that the round hole diameter, spacing and percent open are less than the standard. Solid panels without perforations are acceptable.

4.2 **Panel Dimensions:**

4.2.1 Refer to panel drawings.

4.3 **Section Properties**

Deck Type	Gage	Weight (psf)	Moment of Inertia, I (in^4/ft)	Section Modulus, S (in^3/ft)
EST4	20	2.5	1.28	0.42
	16	4.3	2.13	0.75
ESW450	18	2.5	1.52	0.38
	14	3.9	2.49	0.75
ESW600	18	2.7	2.77	0.48
	14	4.3	5.09	1.10
ESW750	18	3.0	4.19	0.56
	14	4.7	8.80	1.39

Note: Values based on a steel yield strength of 40,000 psi

5.0 Support:

The Support assembly is designed by others and shall have the following minimum Characteristics:

5.1 Type: Horizontal or Vertical framing members

5.2 Material: Steel

5.3 Thickness: 3/16 in. Minimum Structural Steel (Flange Thickness)

5.4 Yield Strength: 46 ksi Minimum

5.5 Support Spacing: Refer to Table Below

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6.0 Performance:

6.1 Span Tables:

6.1.1 Table 2-1: EST 4 Uniform Allowable Design Pressures – (PSF)

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)						
				8	**10**	**12**	**14**	**16**	**18**	**19**
EST4	Simple or Multiple	20	1	105	85	65	46	26	-	-
		16	1						42	27
		20	2	105	85	65	46	26	-	-
		16	2						42	27

6.1.2 Table 2-2: ESW 450 Uniform Allowable Design Pressures – (PSF)

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)						
				8	**10**	**12**	**14**	**16**	**18**	**20**
ESW450	Simple or Multiple	18	1	67	53	44	31	-	-	-
		14	1	-	-	-	-	-	-	27
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

6.1.3 Table 2-3: ESW 600 Uniform Allowable Design Pressures – (PSF)

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)						
				8	**10**	**12**	**14**	**16**	**18**	**20**
ESW600	Simple or Multiple	18	1	67	53	44	38	-	-	-
		14	1	-	-	-	-	-	-	29
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

6.1.4 Table 2-4: ESW 750 Uniform Allowable Design Pressures – (PSF)

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)								
				14	**16**	**18**	**19**	**20**	**22**	**24**	**26**	**27.5**
ESW750	Simple or Multiple	18	1	38	33	29	25	-	-	-	-	-
		14	1	-	-	-	-	29	27	24	22	21
		18	2	46	38	29	25	-	-	-	-	-
		14	2	-	-	-	-	58	53	49	39	30

Notes for Tables 2-1 thru 2-4:
1. Design Pressures are based on ASD design.
2. See Table 2-5 for the allowable loads for fastening the panels to the steel supports.
3. Use linear interpolation to obtain load values for unlisted spans within ranges provided in above tables.
4. Not rated for Large Missile Impact

JAMES L. BUCKNER
LICENSE
No.31242
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Date: 9/14/23

6.1.5 **Table 2-5: Design Loads for Fasteners Through Solid Material (lbs)**

	Substrate	
	3/16" Structural Steel	
Deck Gauge	R_n/Ω	Screw = 12-24 x 1-1/2" Elco Part# EAJ320 Bi-Flex w/ 9/16" outside diameter & neoprene-backed washer. Note: Ω = 3.0 (Per AISI for pullout in steel)
20	710	
18	795	
16	796	
14	871	

Tension Capacity values for connections based on FET Test T191-17
Assumes panel properties of Fy = 40 ksi, Fu = 55 ksi.

7.0 Installation:

7.1 Attaching to Structural Steel Substrate: Each panel is fastened at each end to steel supports with (1) or (2) #12-24 X 1-1/2" ELCO Bi-Flex 300 Series SS Self Drilling Fasteners (P/N EAJ 320 Bi-Flex) w/ 9/16" diameter neoprene-backed washers per Tables 2-1 thru 2-4. Connection patterns are shown on pages 10-13.

8.0 Limitations of Use:

8.1 The panel supports shall be 3/16" thick minimum structural steel.
8.2 Maximum support spacing shall not be exceeded.
8.3 The panels shall be supported by structural framing members complying with the The Florida Building Code, Chapter 22, including Florida High velocity zone.
8.4 Panel shall not be used as axial load bearing components and shall not be intended / designed to act as a diaphragm.
8.5 The engineer of record or architect shall verify that the supporting structure is capable of resisting the superimposed loads from the wall panel system and that the supporting structure is capable of providing lateral stability to carry the wind loads to the building foundation.

9.0 Code Compliance

9.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code, 8th Edition (2023) for the properties evaluated.

10.0 Identification:

10.1 Each Panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state and the statement reading "Miami-Dade County Product Control Approved" is to be located on each panel.

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as complying with the Florida Building Code
NOA–No. 23–0926.11
Expiration Date 05/23/2024
By
Miami–Dade Product Control

JAMES L. BUCKNER LICENSE No.31242 STATE OF FLORIDA PROFESSIONAL ENGINEER
Date: 9/14/23

``

11.0 Reference Data:

11.1 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T224-17 Report Date: 7/31/17
By: Farabaugh Engineering & Testing, Inc.

11.2 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T225-17 Report Date: 7/31/17
By: Farabaugh Engineering & Testing, Inc.

11.3 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T226-17 Report Date: 7/31/17
By: Farabaugh Engineering & Testing, Inc.

11.4 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T194-18 Report Date: 5/25/18
By: Farabaugh Engineering & Testing, Inc.

11.5 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T220-18Rev Report Date: 10/26/18
By: Farabaugh Engineering & Testing, Inc.

11.6 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T224-18 Report Date: 6/22/18
By: Farabaugh Engineering & Testing, Inc.

11.7 TAS 202 – Uniform Static Air Pressure Test.
Report No.: T225-18 Report Date: 6/22/18
By: Farabaugh Engineering & Testing, Inc.

11.8 TAS 203 – Cyclic Wind Pressure Loading Test
Report No.: T263-18 Report Date: 12/06/18
By: Farabaugh Engineering & Testing, Inc.

11.9 TAS 203 – Cyclic Wind Pressure Loading Test
Report No.: T264-18 Report Date: 10/31/18
By: Farabaugh Engineering & Testing, Inc.

11.10 TAS 203 – Cyclic Wind Pressure Loading Test
Report No.: T265-18 Report Date: 9/18/18
By: Farabaugh Engineering & Testing, Inc.

11.11 ASTM-E8-09 – Tensile Test
Report No.: T246-18 Report Date: 7/24/18
By: Farabaugh Engineering & Testing, Inc.

11.12 Engineering Analysis/Calculations
Report Number: 16-148-EA Report Date: 3/28/19
By: James L Buckner, P.E.

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12.0 Product Components:

12.1 **EST 4 Series Perforated Steel Sunscreen Panel**

The panel is a 4" deep perforated steel panel.

Material:	Steel
Thickness:	16 Gauge Max - 20 Gauge Min (t = 0.0600 in Max. – t = 0.0358 in Min)
Yield Strength:	40.0 ksi Minimum
Corrosion Resistance:	Galvanized Steel per ASTM A653 G-90

12.2 **ESW 450 Series Perforated Steel Sunscreen Panel**

The panel is a 4.5" deep perforated steel panel.

Material:	Steel
Thickness:	14 Gauge Max - 18 Gauge Min (t = 0.0747 in Max. – t = 0.0474 in Min)
Yield Strength:	40.0 ksi Minimum
Corrosion Resistance:	Galvanized Steel per ASTM A653 G-90

12.3 **ESW 600 Series Perforated Steel Sunscreen Panel**

The panel is a 6" deep perforated steel panel.

Material:	Steel
Thickness:	14 Gauge Max - 18 Gauge Min (t = 0.0747 in Max. – t = 0.0474 in Min)
Ultimate Yield Strength:	40.0 ksi Minimum
Corrosion Resistance:	Galvanized Steel per ASTM A653 G-90

12.4 **ESW 750 Series Perforated Steel Sunscreen Panel**

The panel is a 7.5" deep perforated steel panel.

Material:	Steel
Thickness:	14 Gauge Max - 18 Gauge Min (t = 0.0747 in Max. – t = 0.0474 in Min)
Yield Strength:	40.0 ksi Minimum
Corrosion Resistance:	Galvanized Steel per ASTM A653 G-90

12.5 **Fasteners:**

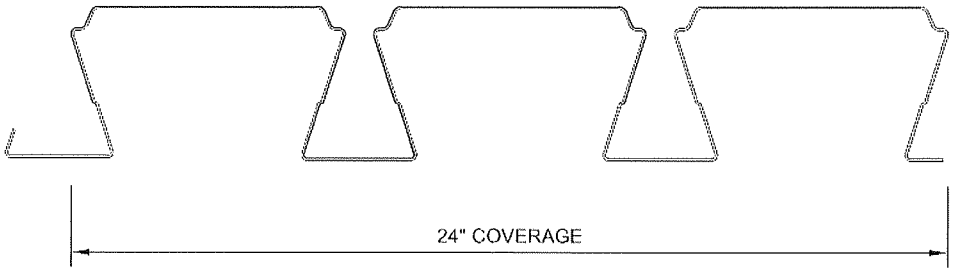
Specification/standard for fasteners to be used at intermediate and end steel supports.

Material:	Stainless Steel
Name:	ELCO Bi-Flex 300 Series SS Self Drilling Fasteners
Type:	ELCO P/N EAJ 320 Bi-Flex
Diameter:	Fastener: #12-24 Washer: 9/16" diameter
Length:	1-1/2" minimum (Must penetrate steel support min 3/4")
Corrosion Resistance:	Stainless Steel per ASTM A240

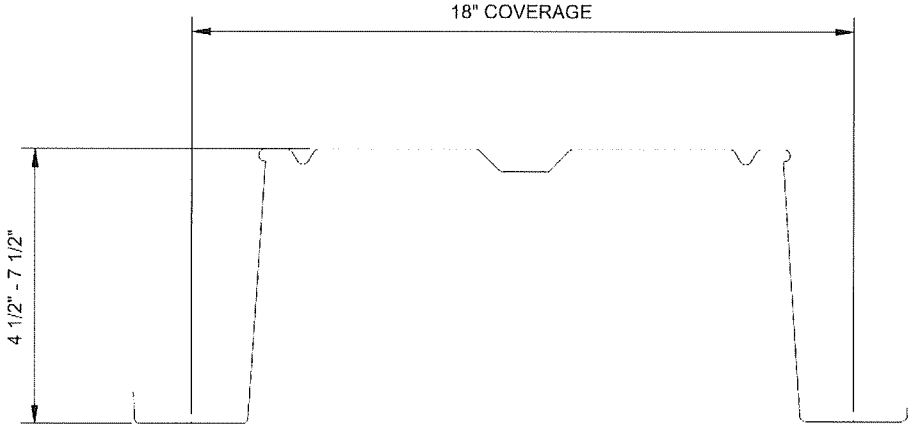
JAMES L. BUCKNER LICENSE No.31242 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date: 9/14/23

EPIC METALS CORP.
"EST4 & ESW SERIES" PROFILE DRAWINGS



"EST 4" TYPICAL PANEL PROFILE



"ESW 450", "ESW 600" AND "ESW 750" TYPICAL PANEL PROFILES

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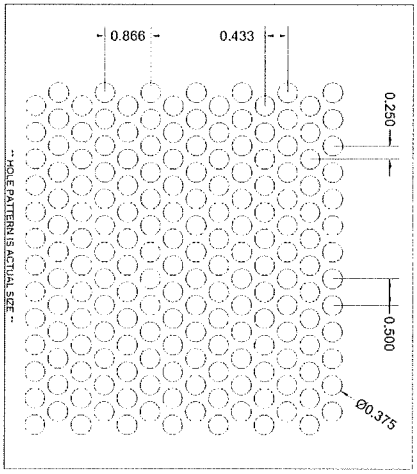

STANDARD PERFORATED PATTERN (PATTERN #124) - ROUND HOLE 3/8" DIAMETER (1/2" STAGGERED)

EPIC METALS™
MANUFACTURER:
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EPIC METALS "EST4 & ESW SERIES"
PERFORATED STEEL SUNSCREEN PANEL ENGINEERING REPORT

DATE:	9/14/23
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JAMES L. BUCKNER
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EPIC METALS CORP.
"EST 4" INSTALLATON DRAWINGS

PRODUCT REVISED
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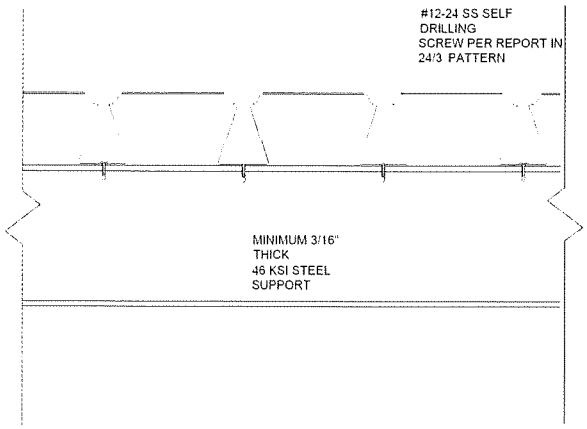
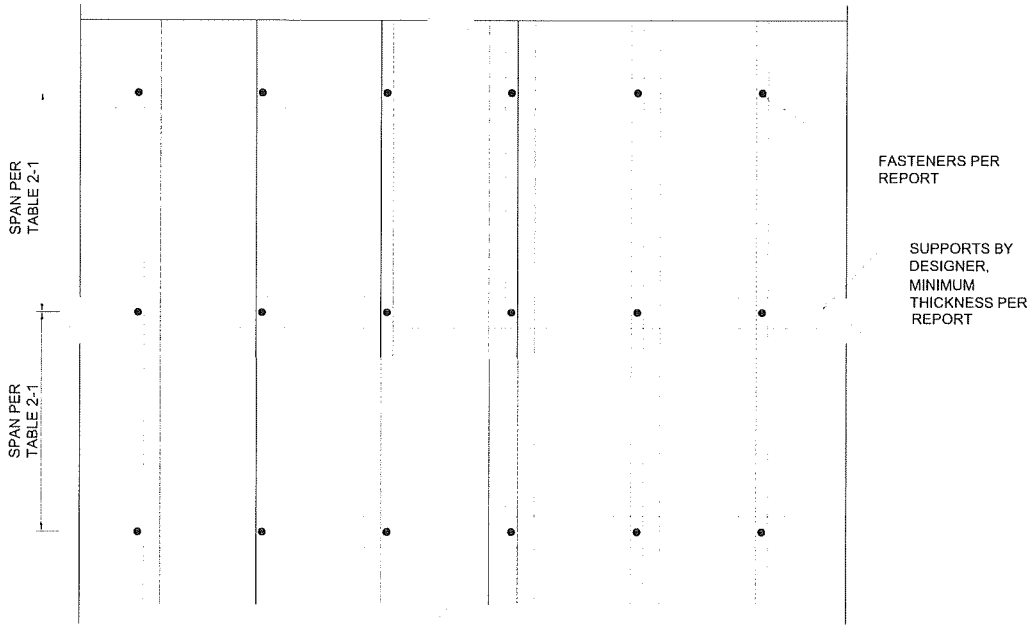


"EST 4" ATTACHMENT WITH ONE (1) FASTENER PER FLUTE



"EST 4" ELEVATION WITH ONE (1) FASTENER PER FLUTE

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)						
				8	**10**	**12**	**14**	**16**	**18**	**19**
EST4	Simple or Multiple	20	1	105	85	65	46	26	-	-
		16	1						42	27
		20	2	105	85	65	46	26	-	-
		16	2						42	27

Notes: 1. Design Pressures are based on ASD design.
2. See Table 2-5 for the allowable loads for fastening the panels to the steel supports.
3. Use linear interpolation to obtain load values for unlisted spans within ranges provided in above tables.
4. Not rated for Large Missile Impact

TABLE 2-1: EST 4 UNIFORM ALLOWABLE DESIGN PRESSURES – (PSF)

EPIC METALS™
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EPIC METALS "EST4 & ESW SERIES"
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PROFESSIONAL ENGINEER

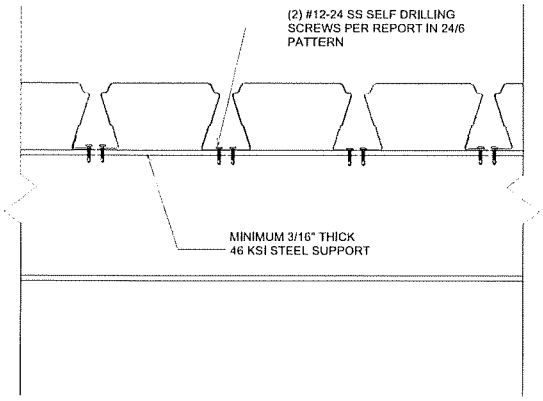
Date: 9/14/23

EPIC METALS CORP.
"EST 4" INSTALLATON DRAWINGS

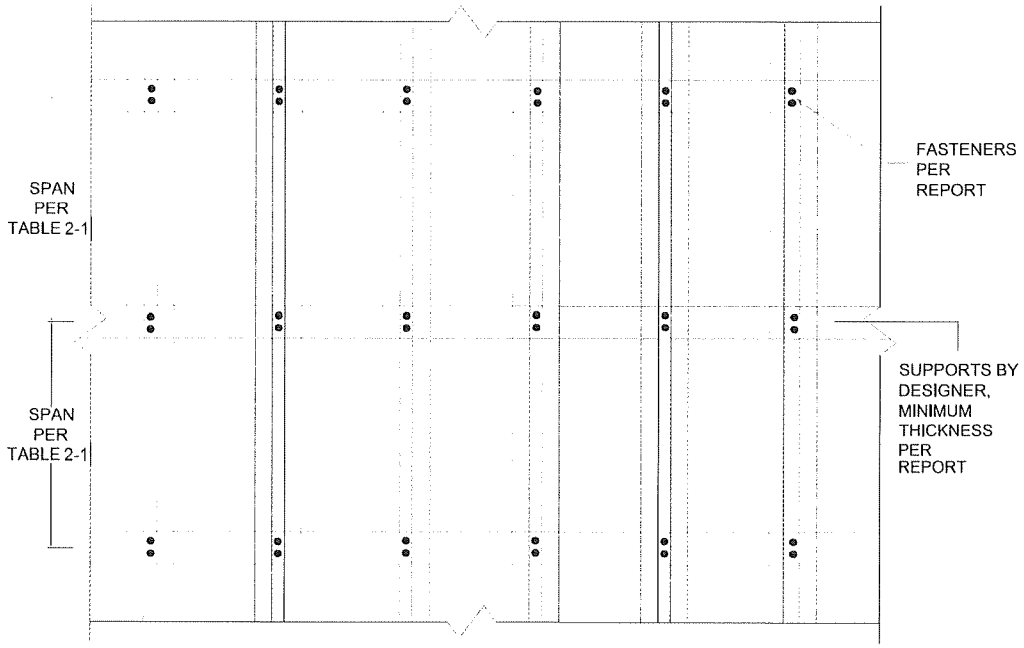
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 23-0926.11

Expiration Date 05/23/2024

By
Miami-Dade Product Control



"EST 4" ATTACHMENT WITH TWO (2) FASTENERS PER FLUTE



"EST 4" ELEVATION WITH TWO (2) FASTENERS PER FLUTE

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF Span Length, Center to Center of Supports (ft.)						
				8	10	12	14	16	18	19
EST4	Simple or Multiple	20	1	105	85	65	46	26	-	-
		16	1						42	27
		20	2	105	85	65	46	26	-	-
		16	2						42	27

Notes: 1. Design Pressures are based on ASD design.
2. See Table 2-5 for the allowable loads for fastening the panels to the steel supports.
3. Use linear interpolation to obtain load values for unlisted spans within ranges provided in above tables.
4. Not rated for Large Missile Impact

TABLE 2-1: EST 4 UNIFORM ALLOWABLE DESIGN PRESSURES – (PSF)

EPIC METALS™

MANUFACTURER:
Epic Metals Corporation
11 Talbot Ave
Rankin, PA 15104
www.epicmetals.com
(412) 351-3913

EPIC METALS "EST4 & ESW SERIES"
PERFORMED STEEL SUNSCREEN PANEL ENGINEERING REPORT

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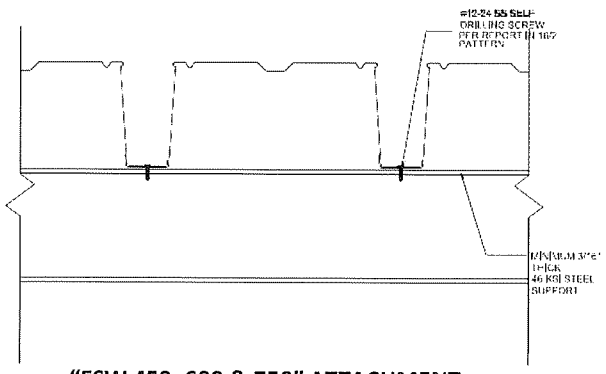
1374 Community Dr
Jupiter, FL 33458

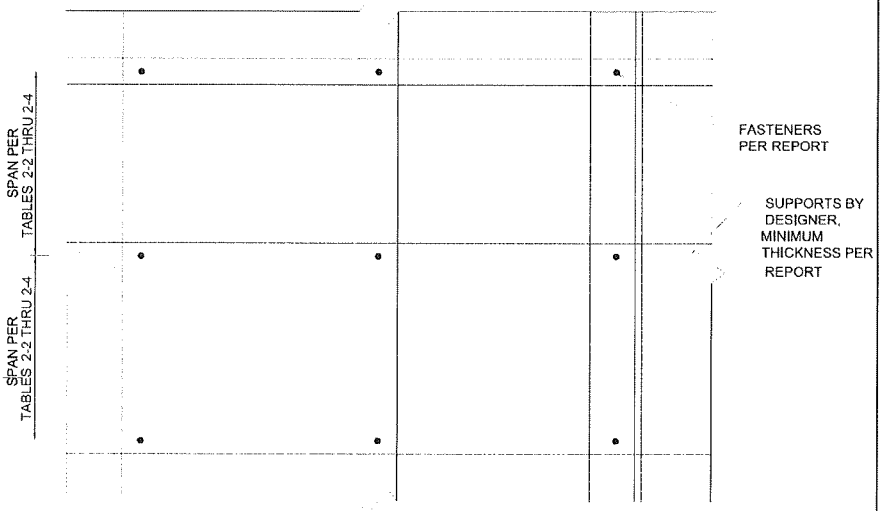
JAMES L. BUCKNER
LICENSE
No.31242
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Date: 9/14/23

EPIC METALS CORP.
"ESW Series" INSTALLATON DRAWINGS



"ESW 450, 600 & 750" ATTACHMENT
WITH ONE (1) FASTENER PER FLUTE



"ESW 450, 600 & 750" ELEVATION
WITH ONE (1) FASTENER PER FLUTE

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF						
				Span Length, Center to Center of Supports (ft.)						
				8	10	12	14	16	18	20
ESW450	Simple or Multiple	18	1	67	53	44	31	-	-	-
		14	1	-	-	-	-	-	-	27
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

TABLE 2-2: ESW 450 UNIFORM ALLOWABLE DESIGN PRESSURES – (PSF)

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF						
				Span Length, Center to Center of Supports (ft.)						
				8	10	12	14	16	18	20
ESW600	Simple or Multiple	18	1	67	53	44	38	-	-	-
		14	1	-	-	-	-	-	-	29
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

TABLE 2-3: ESW 600 UNIFORM ALLOWABLE DESIGN PRESSURES – (PSF)

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Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF								
				Span Length, Center to Center of Supports (ft.)								
				14	16	18	19	20	22	24	26	27.5
ESW750	Simple or Multiple	18	1	38	33	29	25	-	-	-	-	-
		14	1	-	-	-	-	29	27	24	22	21
		18	2	46	38	29	25	-	-	-	-	-
		14	2	-	-	-	-	58	53	49	39	30

TABLE 2-4: ESW 750 UNIFORM ALLOWABLE DESIGN PRESSURES – (PSF)

Notes for Tables 2-2 through 2-4
: 1. Design Pressures are based on ASD design.
2. See Table 2-5 for the allowable loads for fastening the panels to the steel supports.
3. Use linear interpolation to obtain load values for unlisted spans within ranges provided in above tables.
4. Not rated for Large Missile Impact

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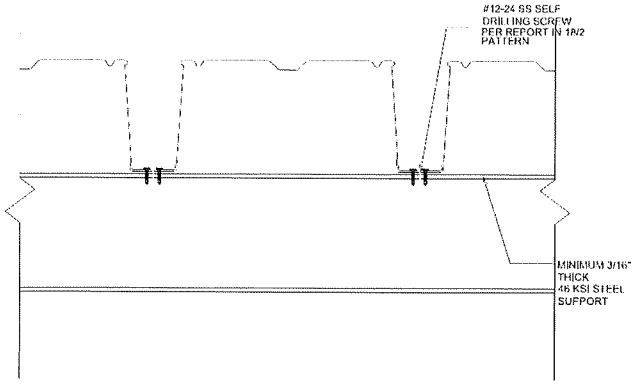
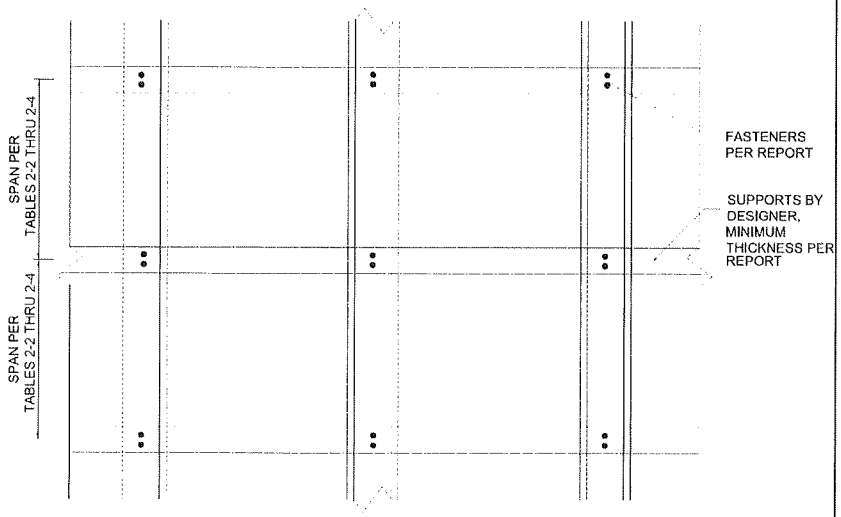
"ESW Series" INSTALLATON DRAWINGS



"ESW 450, 600 & 750" ATTACHMENT
WITH ONE (2) FASTENERS PER FLUTE



"ESW 450, 600 & 750" ELEVATION
WITH ONE (2) FASTENERS PER FLUTE

Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF						
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		14	1	-	-	-	-	-	-	27
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

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Sunscreen Panel Model	Panel Span Condition	Sunscreen Panel Gage	Number of Fasteners Per Panel Flute Per Support	Uniform Allowable Design Pressures, PSF						
				Span Length, Center to Center of Supports (ft.)						
				8	10	12	14	16	18	20
ESW600	Simple or Multiple	18	1	67	53	44	38	-	-	-
		14	1	-	-	-	-	-	-	29
		18	2	95	74	52	31	-	-	-
		14	2	-	-	-	-	-	-	27

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