



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)

**CaptiveAire Systems, Inc.**  
**4641 Paragon Park Road**  
**Raleigh, NC 27616**

**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: Series HREB Downblast Axial Steel Rooftop Fans**

**APPROVAL DOCUMENT:** Drawing No. **AXHREB**, titled "Axial HREB", sheets 1 through 7 of 7, dated 10/07/2015, with revision 2 dated 03/08/2021, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 06/28/2021, bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### **MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, one of the following manufacturing locations: Youngsville, NC; Muskogee, OK; Redding, CA; West Union, IA; Bedford, PA; Groveland, FL, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** These fans cannot be installed within the ridge area, FBC 1523.6.5.2.13.

**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 **renews NOA # 21-0318.11** and consists of this page 1 and 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.**



**NOA No. 22-0412.07**  
**Expiration Date: September 22, 2026**  
**Approval Date: May 12, 2022**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**A. DRAWINGS “Submitted under NOA # 16-0614.06”**

1. Drawing No. **AXHREB**, titled “Axial HREB”, sheets 1 through 6 of 6, dated 10/07/2015, prepared by CaptiveAire Systems, Inc., signed and sealed by L. David Rice, P.E. on 07/27/2016.

**B. TESTS “Submitted under NOA # 16-0614.06”**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of Model HREB24 Rooftop Prop Fan, prepared by Intertek/ATI, Test Report No. **E8479.01-109-18**, dated 03/29/2016, with revision 1 dated 04/07/2016, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of Model HREB42 Rooftop Prop Fan, prepared by Intertek/ATI, Test Report No. **F1379.01-109-18**, dated 04/06/2016, with revision 1 dated 04/07/2016, signed and sealed by Joseph A. Reed, P.E.

**C. CALCULATIONS “Submitted under NOA # 16-0614.06”**

1. Anchor verification calculations prepared by Rice Engineering, dated 07/27/2016, signed and sealed by L. David Rice, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS “Submitted under NOA # 16-0614.06”**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Rice Engineering, dated 07/27/2016, signed and sealed by L. David Rice, P.E.
2. Statement letters of no financial interest issued by Rice Engineering, dated 07/27/2016, signed and sealed by L. David Rice, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.07**  
**Expiration Date: September 22, 2026**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. Evidence submitted under NOA # 18-0118.14**

**A. DRAWINGS**

1. Drawing No. **AXHREB**, titled “Axial HREB”, sheets 1 through 6 of 6, dated 10/07/2015, with revision 1 dated 11/27/2017, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations prepared by Rice Engineering, dated 12/13/2017, signed and sealed by Wayne K. Helmila, P.E.

**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 **FBC 6<sup>th</sup> Edition (2017)**, dated December 12, 2017, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.07**  
**Expiration Date: September 22, 2026**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under NOA # 19-0717.10**

**A. DRAWINGS**

1. Drawing No. **AXHREB**, titled “Axial HREB”, sheets 1 through 7 of 7, dated 10/07/2015, with revision 2 dated 03/26/2019, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 06/06/2019.

**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. None.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.07**  
**Expiration Date: September 22, 2026**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Submitted under NOA # 21-0318.11 and new evidence**

**A. DRAWINGS**

1. Drawing No. **AXHREB**, titled “Axial HREB”, sheets 1 through 7 of 7, dated 10/07/2015, with revision 2 dated 03/08/2021, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 06/28/2021.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations prepared by Rice Engineering, dated 03/10/2021, signed and sealed by Wayne K. Helmila, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

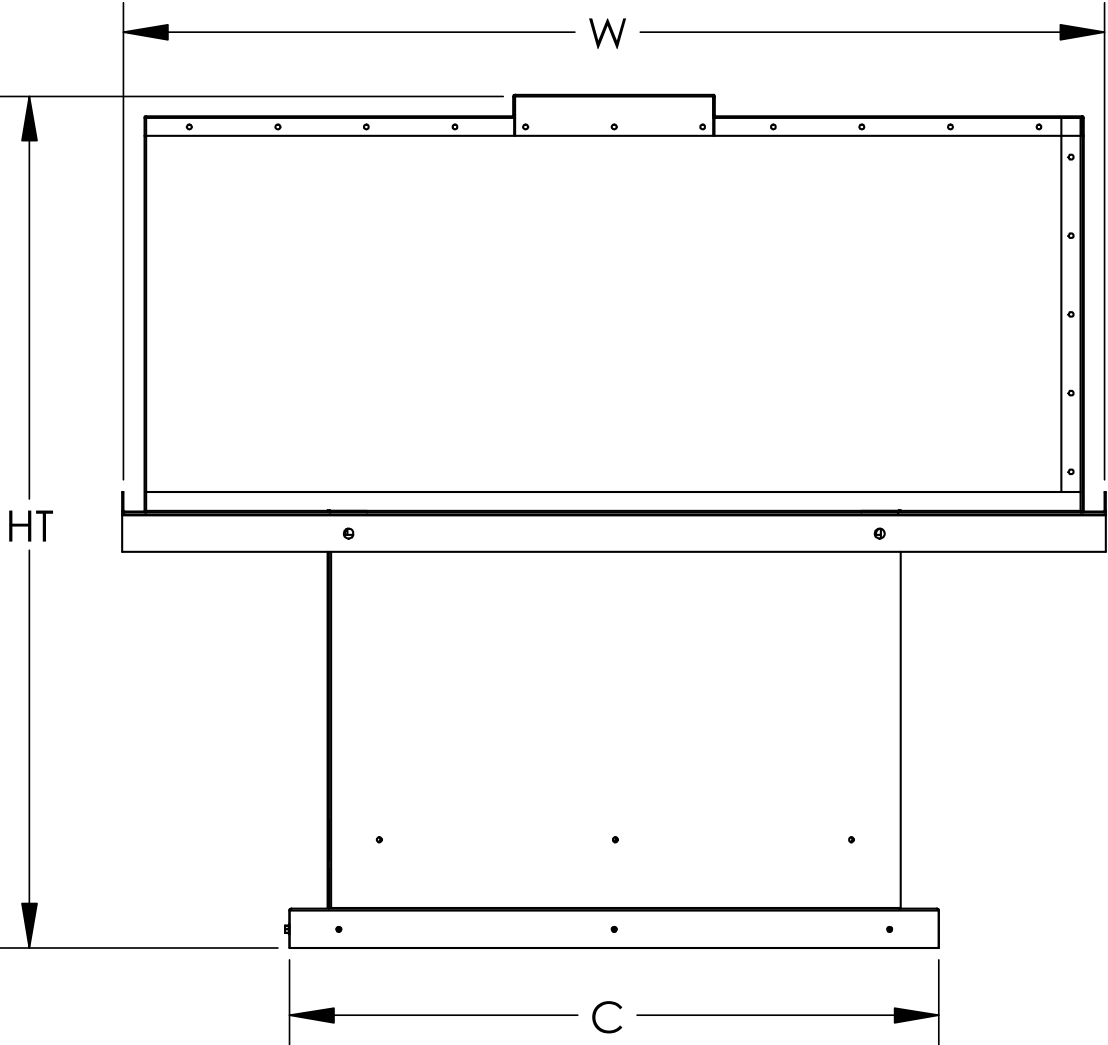
1. Statement letter of code conformance to **FBC 7<sup>th</sup> Edition (2020)**, dated 04/05 2022, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.07**  
**Expiration Date: September 22, 2026**  
**Approval Date: May 12, 2022**

Dimensional Data - Axial HREB



DESIGN PRESSURE: +80.0 / -80.0 PSF  
LARGE MISSILE IMPACT RESISTANT

- Notes:
- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number ATI 15036 and 15066.

Material: N/A	Part Number: N/A	Unless Otherwise Specified	<div>CAPTIVEAIRE</div> <div>THE PERFORMANCE COMPANY</div>
Blank Size: N/A	MACOLA Number: N/A	Dimensions are in Inches.	
Weight: N/A	Drawing Name: AXIAL HREB	Standard Tolerances are:	
	Drawn By: J Hess	Fractions: ±1/16	
	Drawing Number: AXHREB01	Decimal: .XX±.05	
	Sheet: 1 of 7	Angles: ±1°	

Revision History				
#	Description	Revised by	ECN#	Date
0	Open Axial HREB NOA	J Hess	2740	10/7/15
1	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
2	Added Alternate Brands to Drawings	JJH	3061	3/26/19

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.11  
Expiration Date 09/22/2021  
By Ishay I. Chandra  
Miami-Dade Product Control

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.07  
Expiration Date 09/22/2026  
By [Signature]  
Miami-Dade Product Control

FAN MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
HREB24	47	58	35	425
HREB30	47	66	41	550
HREB36	47	78	47	700
HREB42	54	87	53	800

SEE PAGE 7 FOR ALTERNATE BRANDS

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Notes:  
•Steel structure assumed to be Fy = 50 ksi, 12 ga thickness minimum.  
•Reference testing reports for unit design. RICE Engineering Inc. is responsible for anchoring of units to structure.  
•All non-stainless steel fasteners/anchors must be sealed with Prosoco Liquid Flashing if exposed to exterior conditions.

**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

WAYNE K. HELMILA  
LICENSE  
No. 59092  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

06/28/2021  
COA: 9090

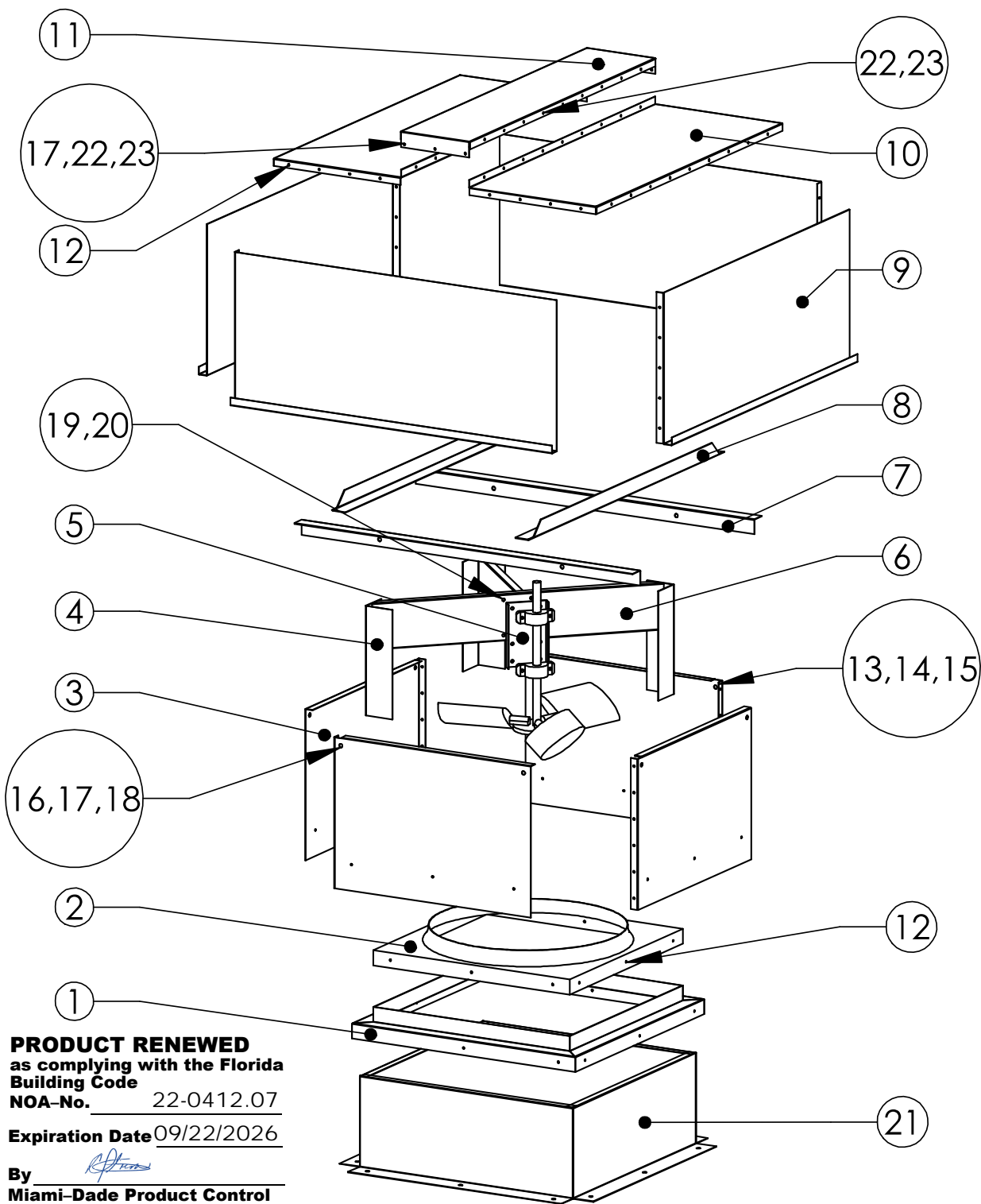
- General Notes:
- 1. This approval is for the structural capacity and impact rating of the exterior housing only; it does not include any interior mechanism or electrical part.
  - 2. These fans have not been wind tested for Wind Driven Rain Test per Florida Building code, TAS100 (A)-95.

CaptiveAire, Inc. commercial kitchen ventilation  
4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994





Dimensional Data - Axial HREB



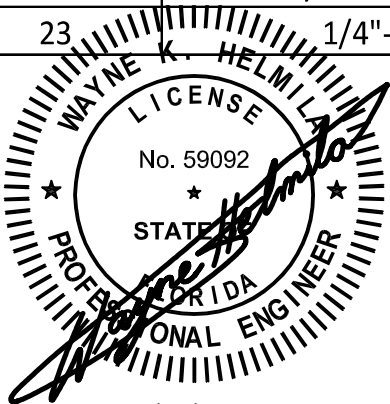
PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.07  
Expiration Date 09/22/2026  
By *[Signature]*  
Miami-Dade Product Control

- Notes:
- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number ATI 15036 and 15066.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°
Blank Size: N/A	MACOLA Number: N/A	
Weight: N/A	Drawing Name: AXIAL HREB	
	Drawn By: J Hess	
	Drawing Number: AXHREB 02	
	Sheet: 2 of 7	

Revision History				
#	Description	Revised by	ECN#	Date
0	Open Axial HREB NOA	J Hess	2740	10/7/15
1	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
2	Added Alternate Brands to Drawings	JJH	3061	3/26/19
3	Changed 16GA Curb to 18GA Galv.	JJH	--	3/8/21

Item Number	Description Of Part	Material
1	Curb Cap	16 Gauge Galv. Steel
2	Panel Assembly	16 Gauge Galv. Steel
3	Access Panel	18 Gauge Galv. Steel
4	Panel Support	12 Gauge Galv. Steel
5	Bearing Plate	12 Gauge Galv. Steel
6	Bearing Cross Member	12 Gauge Galv. Steel
7	Lower Hood Angle	10 Gauge Galv. Steel
8	Upper Hood Angle	10 Gauge Galv. Steel
9	Hood Side Panel	18 Gauge Galv. Steel
10	Hood Top Panel	18 Gauge Galv. Steel
11	Hood Center Panel	12 Gauge Galv. Steel
12	#14 X 1/2" Sheet Screw	Zinc-plated Steel
13	5/16-18 X 1" Hex Cap Screw	Zinc-plated Steel
14	5/16" Flat Washer	Zinc-plated Steel
15	5/16" Flange Nut	Zinc-plated Steel
16	1/4"-20 X 3/4" Hex Screw	Zinc-plated Steel
17	1/4" Flat Washer	Zinc-plated Steel
18	1/4"-20 Rivsert	Zinc-plated Steel
19	3/8-16 X 1" Hex Cap Screw	Zinc-plated Steel
20	3/8" Hex Nut	Stainless Steel
21a	Curb (Up to 20" Height)	20 Gauge Aluminized / Galv. Steel
21b	Curb (20+'' to 42" Height)	18 Gauge Aluminized / Galv. Steel
22	1/4"-20 X 1" Bolt	Zinc-plated Steel
23	1/4"-20 Nut	Zinc-plated Steel



06/28/2021  
COA: 9090

PRODUCT REVISED  
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By *[Signature]*  
Miami-Dade Product Control

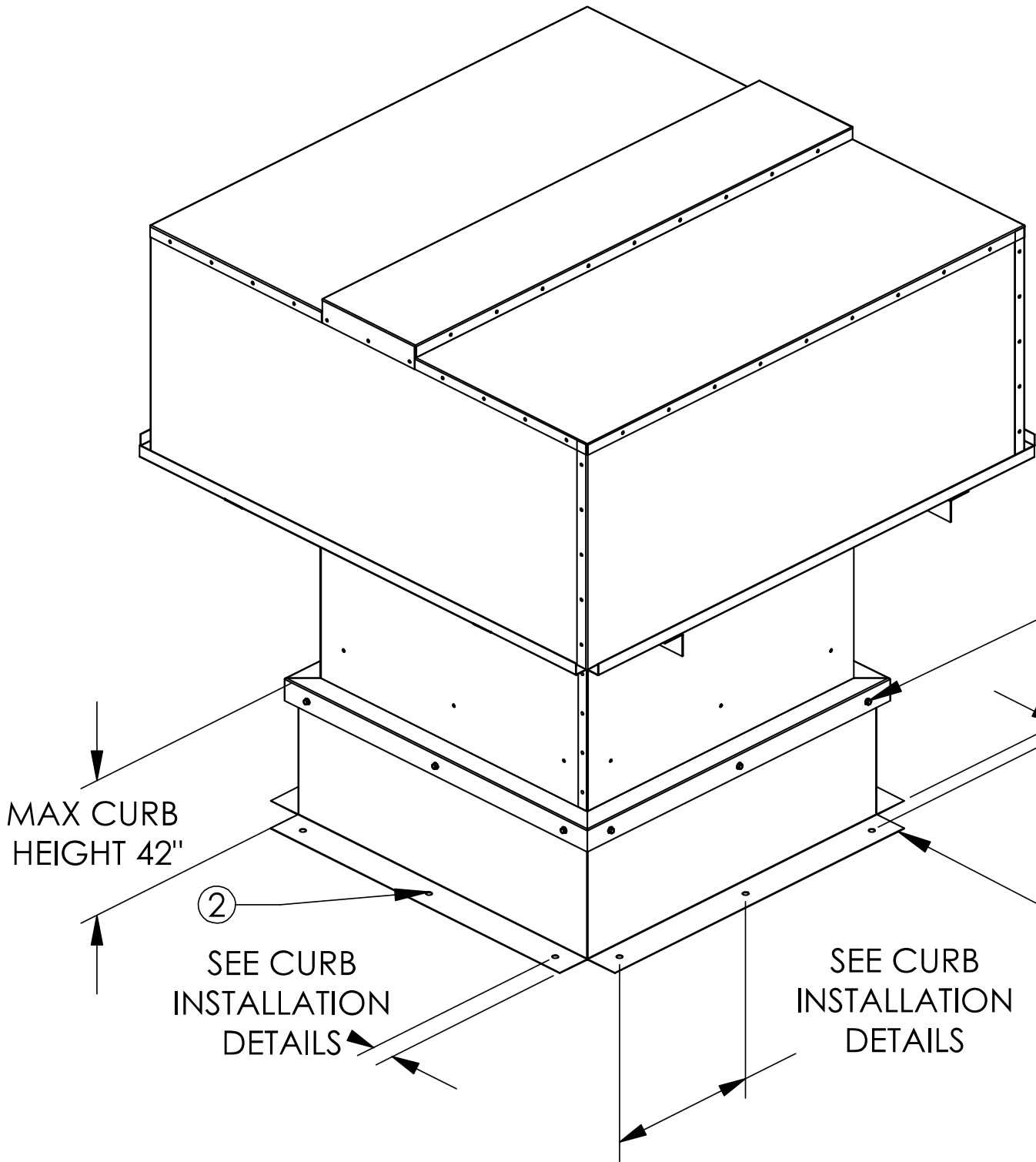
RICE  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

CaptiveAire, Inc. commercial kitchen ventilation  
4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994



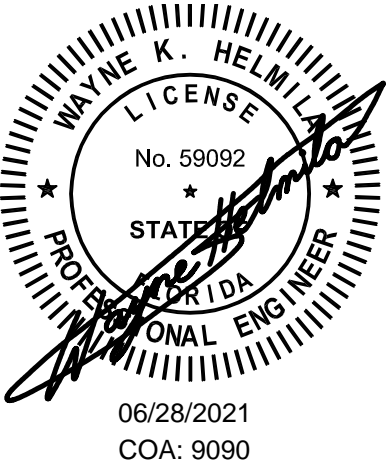
Dimensional Data - Axial HREB

Revision History				
#	Description	Revised by	ECN#	Date
0	Open Axial HREB NOA	J Hess	2740	10/7/15
1	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
2	Added Alternate Brands to Drawings	JJH	3061	3/26/19
3	Changed to Full Curb Corners	JJH	--	3/8/21



1. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" ZINC PLATED STEEL SELF DRILLING SCREWS (ELCO DRIL-FLEX OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE A ON PAGES 3-6 FOR QTY).
2. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE PAGES 3-6 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

**RICE**  
ENGINEERING  
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**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.07  
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By *[Signature]*  
Miami-Dade Product Control

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NOA-No. 21-0318.11  
Expiration Date 09/22/2021  
By *[Signature]*  
Miami-Dade Product Control

- Notes:
- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number ATI 15036 and 15066.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Blank Size: N/A	MACOLA Number: N/A	
Weight: N/A	Drawing Name: AXIAL HREB	
	Drawn By: J Hess	
	Drawing Number: AXHREB 03	
	Sheet: 3 of 7	
<div>CaptiveAire, Inc. commercial kitchen ventilation 4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925   F 919.227.5994</div> <div><b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY</div>		



Miami-Dade County - Roof Curb  
Installation Guide For Wood Substrate

CaptiveAire, Inc. commercial kitchen ventilation  
4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994

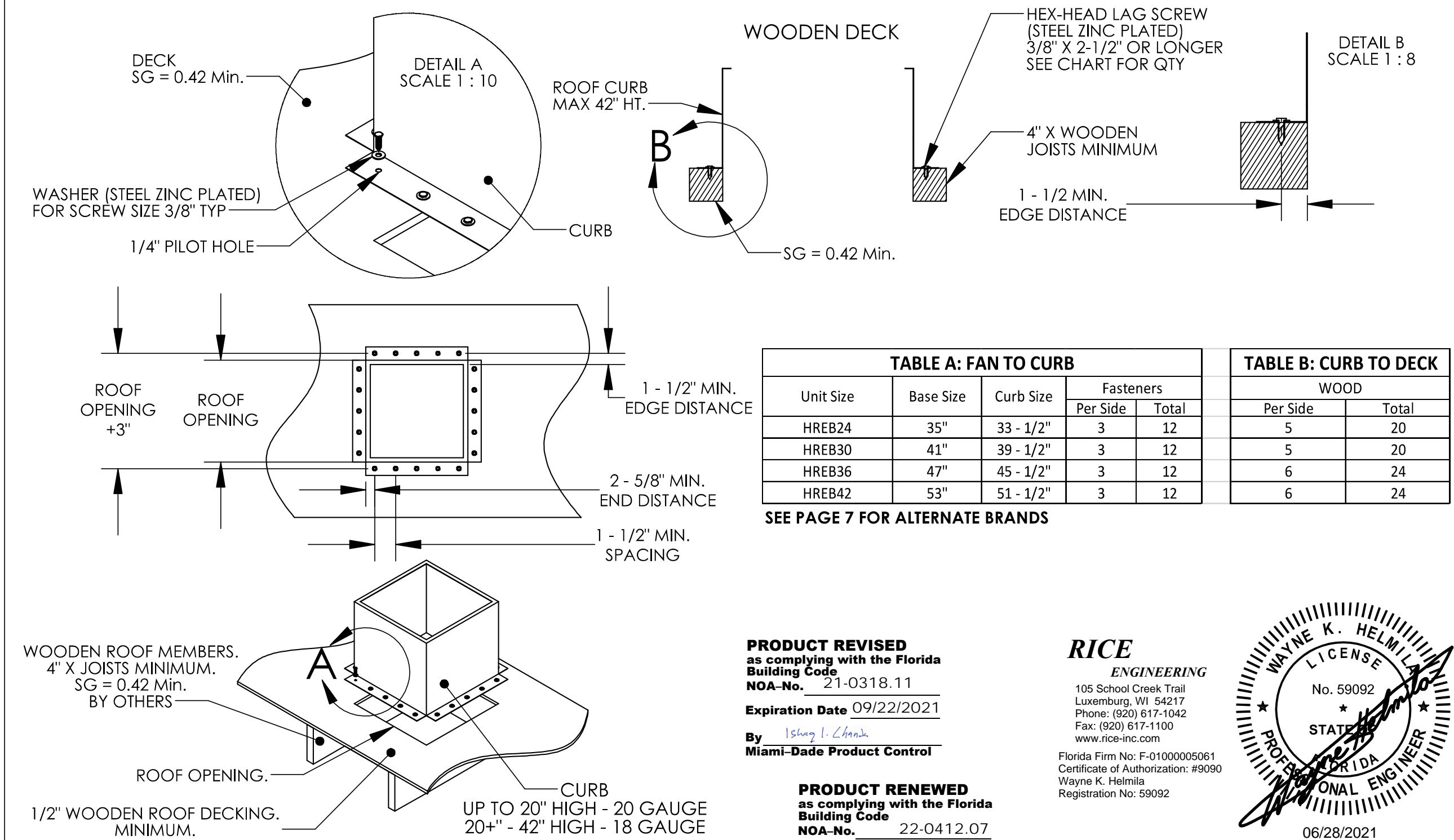


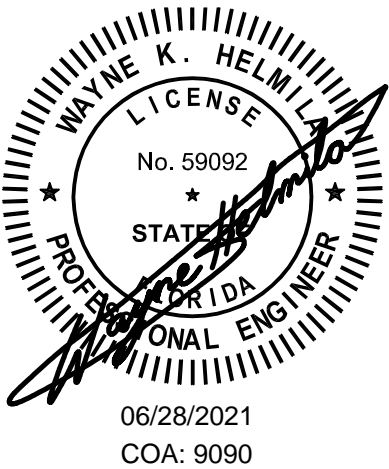
TABLE A: FAN TO CURB					TABLE B: CURB TO DECK	
Unit Size	Base Size	Curb Size	Fasteners		WOOD	
			Per Side	Total	Per Side	Total
HREB24	35"	33 - 1/2"	3	12	5	20
HREB30	41"	39 - 1/2"	3	12	5	20
HREB36	47"	45 - 1/2"	3	12	6	24
HREB42	53"	51 - 1/2"	3	12	6	24

SEE PAGE 7 FOR ALTERNATE BRANDS

PRODUCT REVISED  
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Building Code  
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By Ishay L. Chandra  
Miami-Dade Product Control

PRODUCT RENEWED  
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NOA-No. 22-0412.07  
Expiration Date 09/22/2026  
By R. P. Thomas  
Miami-Dade Product Control

RICE  
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105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
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Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



- Notes:
- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number ATI 15036 and 15066.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Blank Size: N/A	MACOLA Number: N/A	
Weight: N/A	Drawing Name: AXIAL HREB	
	Drawn By: J Hess	
	Drawing Number: AXHREB 04	
	Sheet: 4 of 7	

Miami-Dade County - Roof Curb
Installation Guide For Concrete Substrate

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

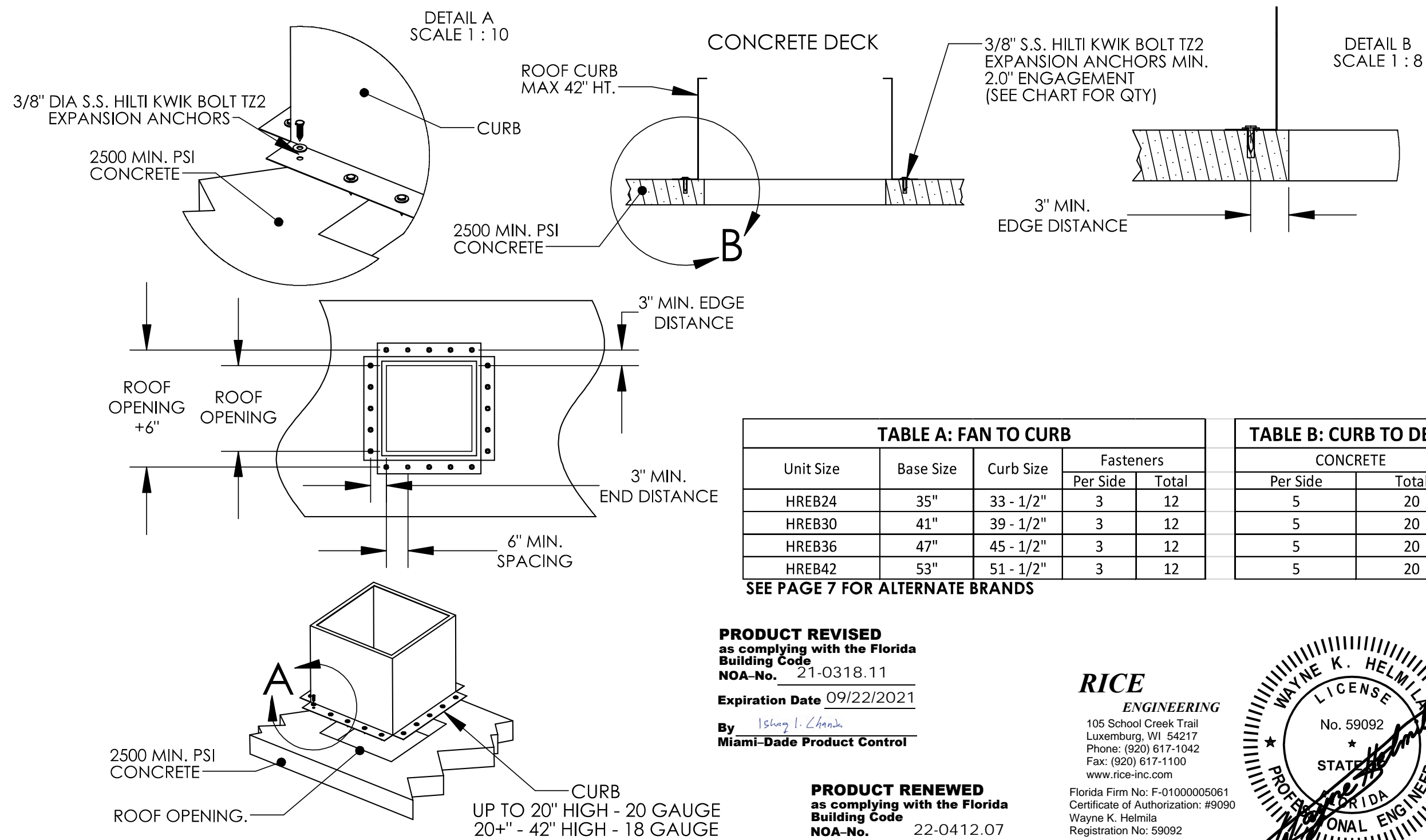


TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
HREB24	35"	33 - 1/2"	3	12
HREB30	41"	39 - 1/2"	3	12
HREB36	47"	45 - 1/2"	3	12
HREB42	53"	51 - 1/2"	3	12

TABLE B: CURB TO DECK

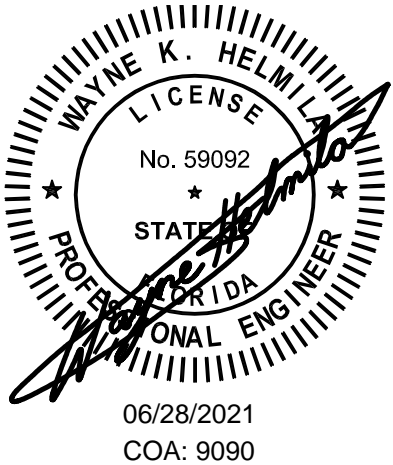
CONCRETE	
Per Side	Total
5	20
5	20
5	20
5	20

SEE PAGE 7 FOR ALTERNATE BRANDS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0318.11
Expiration Date 09/22/2021
By Ishag I. Chanku
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0412.07
Expiration Date 09/22/2026
By [Signature]
Miami-Dade Product Control

RICE ENGINEERING
105 School Creek Trail
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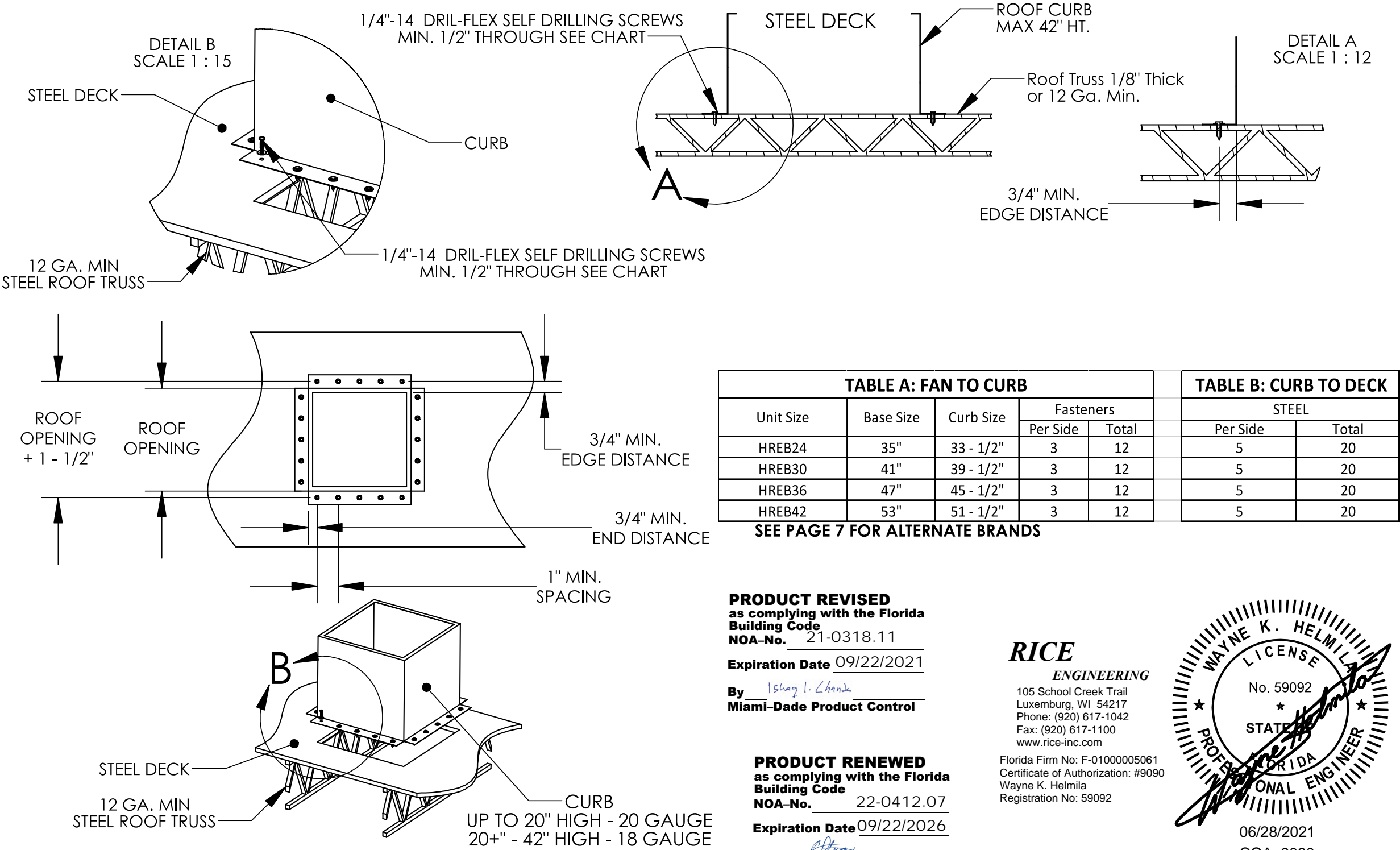
- Notes:
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Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Blank Size: N/A	MACOLA Number: N/A	
Weight: N/A	Drawing Name: AXIAL HREB	
	Drawn By: J Hess	
	Drawing Number: AXHREB 05	
	Sheet: 5 of 7	

CAPTIVEAIRE  
THE PERFORMANCE COMPANY

Miami-Dade County - Roof Curb  
Installation Guide For Steel Substrate

CaptiveAire, Inc. commercial kitchen ventilation  
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Material: N/A	Part Number: N/A	Unless Otherwise Specified	<b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY
Blank Size: N/A	MACOLA Number: N/A	Dimensions are in Inches.	
Weight: N/A	Drawing Name: AXIAL HREB	Standard Tolerances are:	
	Drawn By: J Hess	Fractions: ±1/16	
	Drawing Number: AXHREB 06	Decimal: .XX±.05	
	Sheet: 6 of 7	Angles: ±1°	

ALTERNATE BRANDS

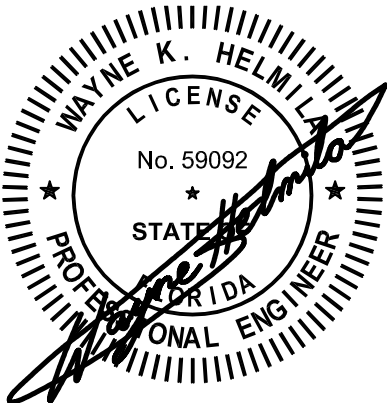
AXIAL PRVS	
CAS FAN MODEL	RUPP FAN MODEL
HREB24	HREB24-RA
HREB30	HREB30-RA
HREB36	HREB36-RA
HREB42	HREB42-RA

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.11  
Expiration Date 09/22/2021  
By Isheq I. Chande  
Miami-Dade Product Control

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.07  
Expiration Date 09/22/2026  
By R. P. Thomas  
Miami-Dade Product Control

RICE  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



06/28/2021  
COA: 9090

CaptiveAire, Inc. commercial kitchen ventilation  
4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994

Material: N/A  
Blank Size: N/A  
Weight: N/A

CONFIDENTIAL

Part Number: N/A  
MACOLA/AX Number: N/A  
Drawing Name: AXIAL HREB  
Drawn By: JJH  
Parent Assembly: AXHREB 07  
Sheet: 7 of 7

Unless Otherwise Specified  
Dimensions are in Inches.  
Standard Tolerances are:  
Fractions: ±1/16  
Decimal: .XX±.05  
.XXX±.015  
Angles: ±1°

