

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

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

NOTICE OF ACCEPTANCE (NOA)

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 EMUA/GV, GVS and 103CAPASYB-2R Steel and Aluminum Gravity Vents

APPROVAL DOCUMENT: Drawing No. **GRAVITY Rev 2**, titled "Gravity Vents", sheets 1 through 12 of 12, dated 07/17/2015, with revision 2 dated 03/26/2019, 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; Indianapolis, IN, 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 renews NOA # 21-0318.07 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Hum

NOA No. 21-1007.01 Expiration Date: November 3, 2026 Approval Date: November 4, 2021 Page 1

- 1. Evidence submitted under previous NOA's
- A. DRAWINGS "Submitted under NOA # 14-1224.11"
 - Drawing No. **GRAVITY**, titled "Gravity Vents", sheets 1 through 11 of 11, dated 07/17/2015, prepared by CaptiveAire Systems, Inc, signed and sealed by L. David Rice, P.E. on 10/11/2016.
- B. TESTS "Submitted under NOA # 14-1224.11"
 - 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 Models EMUA/GV10 Gravity Vents, prepared by Intertek/ATI, Test Report No. **E1559.02-109-18**, dated 02/03/2016, with revision 1 dated 02/29/2016, 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 Models GV36, prepared by Intertek/ATI, Test Report No. **E6468.01-109-18**, dated 05/11/2015, with revision 1 dated 02/18/2016, signed and sealed by Joseph A. Reed, P.E.

- 3. 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 Models GVS 1113 Gravity Vents, prepared by Intertek/ATI, Test Report No. **F4045.01-109-18**, dated 02/18/2016, signed and sealed by Joseph A. Reed, P.E.

- 4. 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 Models GVS 36 Gravity Vents, prepared by Intertek/ATI, Test Report No. **E5134.02-109-18**, dated 02/17/2016, signed and sealed by Joseph A. Reed, P.E.

- 5. 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 Models 103CAPASYB08-2R Gravity Vents, prepared by Intertek/ATI, Test Report No. **E5136.02-109-18**, dated 02/17/2016, signed and sealed by Joseph A. Reed, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

B. TESTS (Continued) "Submitted under NOA # 14-1224.11"

- 6. 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 Models 103CAPASYB16-2R Gravity Vents, prepared by Intertek/ATI, Test Report No. **E5137.02-109-18**, dated 02/17/2016, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS "Submitted under NOA # 14-1224.11"

1. Anchor verification calculations prepared by Rice Engineering, dated 10/11/2016, 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 # 14-1224.11"

- 1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 10/11/2016, signed and sealed by L. David Rice, P.E.
- 2. Statement letters of no financial interest issued by Rice Engineering, dated 10/11/2016, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0118.10

A. DRAWINGS

Drawing No. **GRAVITY**, titled "Gravity Vents", sheets 1 through 11 of 11, dated 07/17/2015, with revision 1 dated 11/27/2017, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 12/13/2017.

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

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

- 3. Evidence submitted under NOA # 19-0717.05
- A. DRAWINGS
 - Drawing No. **GRAVITY**, titled "Gravity Vents", sheets 1 through 12 of 12, dated 07/17/2015, 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.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

4. Evidence submitted under NOA # 21-0318.07

A. DRAWINGS

1. Drawing No. **GRAVITY Rev 2**, titled "Gravity Vents", sheets 1 through 12 of 12, dated 07/17/2015 and last revised on MAR 10, 2021, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E. Note: This revision is for FBC 2020 (7th Edition) update only.

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. **OUALITY 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 7th Edition (2020), dated March 10, 2021, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

G. OTHER

1. This NOA revises NOA # 19-0717.05 for FBC 2020 update, expiring 11/03/21.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 5. New evidence submitted
- A. DRAWINGS
 - 1. None.
- 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 7th Edition (2020) of the FBC, issued by Rice Engineering, dated 09/09/2021, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 21-1007.01

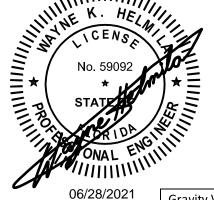
Dimensional Data - Gravity Vents

Miami-Dade Product Control

General Notes:

- 1. This approval is for the structural capacity and impact rating of the exterior housing only; it does not include any interior mechanisum or electrical part.
- 2. These fans have not been wind tested for Wind Driven Rain Test per Florida Building code, TA\$100 (A)-95.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0318.07 Expiration Date 11/03/2021 By | Shape | Change | Control



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

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

•Steel structure assumed to be Fy = 50 ksi, 12 ga thicknes

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.

6/28	/2021
COA:	9090

RICE

Wayne K. Helmila Registration No: 59092

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

Gravity Vent MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
EMUA10	9 3/4	18 5/16	19	28
EMUA12	10 1/4	20 5/16	19	30
EMUA14	12 5/8	27 5/16	21	33
EMUA18	14 3/8	33 9/16	26	43
GV10	9 3/4	18 5/16	19	28
GV12	10 1/4	20 5/16	19	30
GV14	12 5/8	27 5/16	21	33
GV18	14 3/8	33 9/16	26	43
GV20	15 1/8	38 15/16	28	62
GV24	16 3/4	43 7/16	33	74
GV30	18 7/8	52 13/16	40	157
GV36	22 3/8	63 5/16	44	162
GVS1113	15 3/8	23 1/4	21	9 1/2
GVS15	15 3/8	27	24 3/4	13
GVS1820	15 3/8	30 1/4	28	14
GVS24	15 3/8	35 1/4	33	15
GVS30	15 3/8	42 1/4	40	17
GVS36	15 3/8	46 1/4	44	23
103CAPASYB08-2R	14	18 1/4	19	8 1/2
103CAPASYB10-2R	14	18 1/4	19	8 1/2
103CAPASYB12-2R	14	20 1/4	19	9
103CAPASYB14-2R	14	22 1/4	21	9 1/2
103CAPASYB16-2R	14	26 1/4	26	13

SEE PAGE 12 FOR ALTERNATE BRANDS

Models EMUA/ GV, 103CAPASYB-2R

DESIGN PRESSURE: +150.0 / -150.0 PSF
LARGE MISSILE IMPACT RESISTANT

Notes:

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Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.

Tested for areas including high velocity hurricane zones.

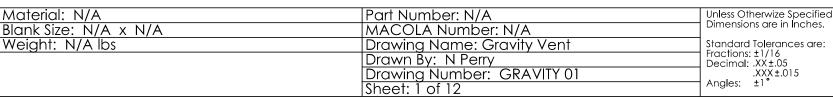
3. Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

Models GVS

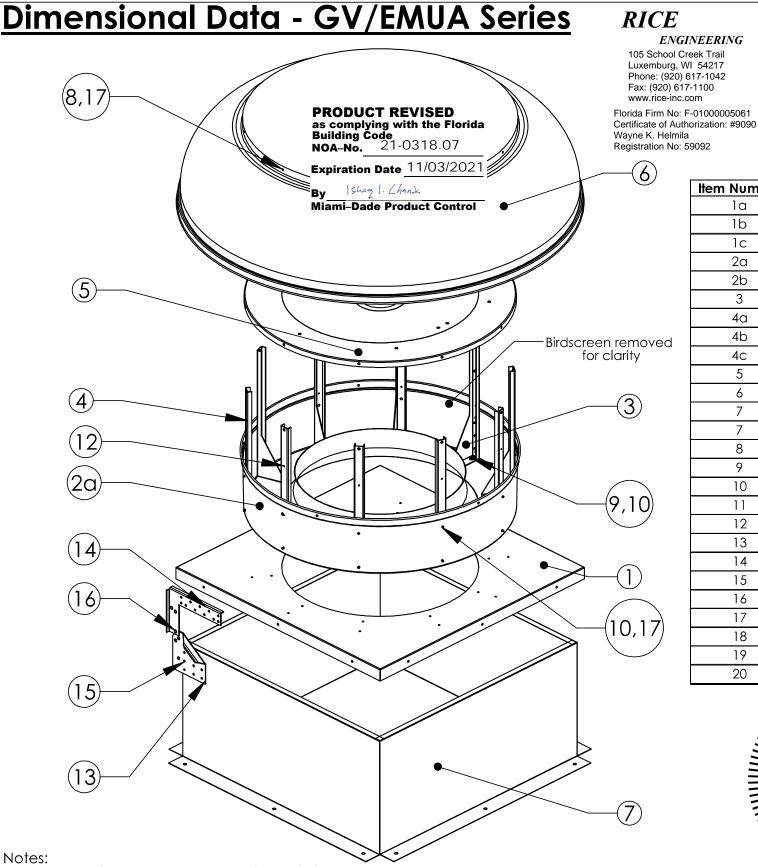
DESIGN PRESSURE: +100.0 / -100.0 PSF

LARGE MISSILE IMPACT RESISTANT

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







Revision History				
#	Description	ECN#	Date	
0	Open Gravity Vent NOA	J Hess	2740	7/27/15
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

Base (sizes 10-14) Base (sizes 18-24) Base (sizes 30-36) Baffle / Wrapper Airshaft (EMUA/GV10 not shown) Gusset (size 36 only) Vertical Support (sizes 10-14) Vertical Support (sizes 18-24) Vertical Support (sizes 30-36)	20 Ga. Galvanized G90 18 Ga. Galvanized G90 16 Ga. Galvanized G90 .080 Aluminum 1100-0 18 Ga. Galvanized G90 12 Ga. Galvanized G90 14 Ga. Galvanized G90 14 Ga. Galvanized G90
Base (sizes 30-36) Baffle / Wrapper Airshaft (EMUA/GV10 not shown) Gusset (size 36 only) Vertical Support (sizes 10-14) Vertical Support (sizes 18-24)	16 Ga. Galvanized G90 .080 Aluminum 1100-0 18 Ga. Galvanized G90 12 Ga. Galvanized G90 14 Ga. Galvanized G90
Baffle / Wrapper Airshaft (EMUA/GV10 not shown) Gusset (size 36 only) Vertical Support (sizes 10-14) Vertical Support (sizes 18-24)	.080 Aluminum 1100-0 18 Ga. Galvanized G90 12 Ga. Galvanized G90 14 Ga. Galvanized G90
Airshaft (EMUA/GV10 not shown) Gusset (size 36 only) Vertical Support (sizes 10-14) Vertical Support (sizes 18-24)	18 Ga. Galvanized G90 12 Ga. Galvanized G90 14 Ga. Galvanized G90
Gusset (size 36 only) Vertical Support (sizes 10-14) Vertical Support (sizes 18-24)	12 Ga. Galvanized G90 14 Ga. Galvanized G90
Vertical Support (sizes 10-14) Vertical Support (sizes 18-24)	14 Ga. Galvanized G90
Vertical Support (sizes 18-24)	
	14 Ga. Galvanized G90
Vertical Support (sizes 30-36)	
	12 Ga. Galvanized G90
Top Plate	16 Ga. Galvanized G90
Vent Hood	.090 Aluminum 1100-0
Curb (Up to 20" Height)	20 Ga. Aluminized / Galv. Steel
Curb (20+" to 42" Height)	18 Ga. Aluminized / Galv. Steel
#8 x 1/2 Self Tapping Screws (Not Shown)	Zinc Coated Steel
1/4" - 20 X 1" Whiz Bolt	Zinc Coated Steel
1/4" - 20Whiz Nut	Zinc Coated Steel
1/4" - 20 Acorn Nuts (Not Shown)	Zinc Coated Steel
1/4" X 1-1/2" Self Tap Screw / Nylon Washer	Zinc Coated Steel / Nylon
Curb Plate Left/ Right (Hinge Kit)	10 Ga. Galvanized G90
Fan Plate Left / Right (Hinge Kit)	10 Ga. Galvanized G90
1/4" - 20 x 3/4" hex head bolts	Zinc Coated Steel
3/8" - 16 x 1-1/2" bolt	Zinc Coated Steel
1/4" - 20 x 3/4" PEM studs	Zinc Coated Steel
3/16" Rivet	Zinc Coated Steel
1/4" - 20 X 1-1/8" Standoff	Zinc Coated Steel
1/4" Steel Washer	Zinc Coated Steel
	Vent Hood Curb (Up to 20" Height) Curb (20+" to 42" Height) #8 x 1/2 Self Tapping Screws (Not Shown) 1/4" - 20 X 1" Whiz Bolt 1/4" - 20 Whiz Nut 1/4" - 20 Acorn Nuts (Not Shown) 1/4" X 1-1/2" Self Tap Screw / Nylon Washer Curb Plate Left / Right (Hinge Kit) Fan Plate Left / Right (Hinge Kit) 1/4" - 20 x 3/4" hex head bolts 3/8" - 16 x 1-1/2" bolt 1/4" - 20 x 3/4" PEM studs 3/16" Rivet 1/4" - 20 X 1-1/8" Standoff

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PRODUCT RENEWED as complying with the Florida Building Code 21-1007.01 NOA-No.

Expiration Date 11/03/2026

Miami-Dade Product Control

Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
Tested for areas including high velocity hurricane zones.
Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

06/28/2021 COA: 9090 aptiveAire, Inc. commercial kitchen ventilation 4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925 | F 919.227.5994

,		-
Material: N/A	Part Number: N/A	Ţ
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: Gravity Vent	S
-	Drawn By: N Perry	
	Drawing Number: GRAVITY 02	
	Sheet: 2 of 12	

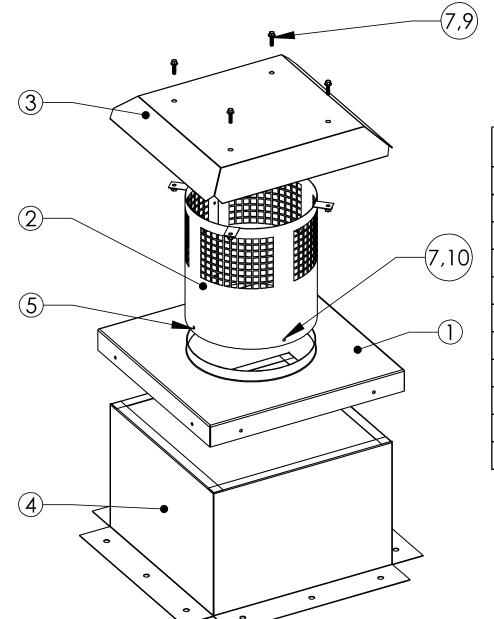
Unless Otherwize Specified Dimensions are in Inches.

Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015
Angles: ±1°



<u>Dimensional Data - 103CAPASYB-2R Series</u>

	Revision History			
#	Description	Revised by	ECN#	Date
0	Open Gravity Vent NOA	J Hess	2740	7/27/15
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



PRODUCT REVISED as complying with the Florida
Building Code
NOA-No. 21-0318.07

Expiration Date 11/03/2021

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Miami-Dade Product Control

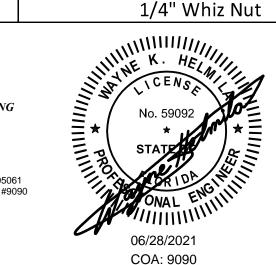
Item Number	Description Of Part	Material
1	Base	20 Ga. 430 SS
2	Baffle / Wrapper	20 Ga. 430 SS
3	Steel Vent Hood	20 Ga. 430 SS
4	Curb (Up to 20" Height)	20 Ga. Aluminized / Galv. Steel
4	Curb (20+" to 42" Height)	18 Ga. Aluminized / Galv. Steel
5	3/16" Rivet	Zinc Coated Steel
6	Silco 400 Deg. Sealant (Not Shown)	Silver Silicone
7	1/4"-20 X 1" Whiz Bolt	Zinc Coated Steel
8	1/4"-20 Rivsert	Zinc Coated Steel
9	1/4" Washer	Zinc Coated Steel
10	1/4" Whiz Nut	Zinc Coated Steel

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



PRODUCT RENEWED as complying with the Florida Building Code 21-1007.01 NOA-No.

Expiration Date 11/03/2026

Miami-Dade Product Control

Notes:

Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.

Tested for areas including high velocity hurricane zones.
Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

Part Number: See Above

Material: N/A Blank Size: N/A x N/A Weight: N/A lbs MACOLA Number: N/A Drawing Name: Gravity Vent Drawn By: N Perry
Drawing Number: GRAVITY 03
Sheet: 3 of 12 .XXX±.015
Angles: ±1°

Unless Otherwize Specified Dimensions are in İnches.

Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05

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



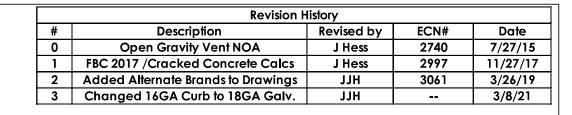
Dimensional Data - GVS Series

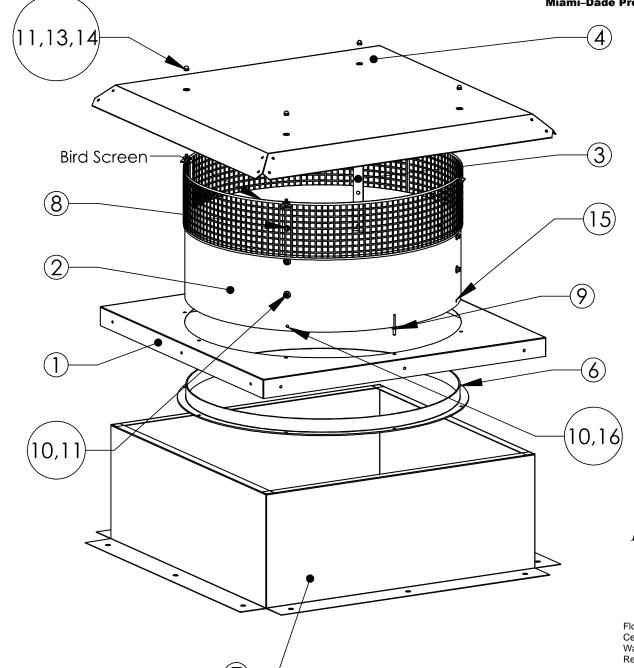
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0318.07

Expiration Date 11/03/2021

By | Shag |. Chank

Miami-Dade Product Control





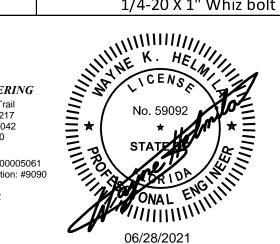
Item Number	Description Of Part	Material
1	Base	20 Ga. Galvanized G90
2	Baffle / Wrapper	20 Ga. Galvanized G90
3	Vertical Support	14 Ga. Galvanized G90
4	Steel Vent Hood	20 Ga. Galvanized G90
5	Vent Hood Corner (not shown)	20 Ga. Galvanized G90
6	Ring	1/8 x 1 x 1" Alum. Angle
7	Curb (Up to 20" Height)	20 Ga. Aluminized / Galv. Steel
7	Curb (20+" to 42" Height)	18 Ga. Aluminized / Galv. Steel
8	1/4"-20 X 1-1/2" Self Tapping Hex Screw	Zinc Coated Steel
9	1/4" SSPI Rivet	Zinc Coated Steel
10	1/4"-20 Whiz Nuts	Zinc Coated Steel
11	1/4"-20 X 3/4" PEM Stud	Zinc Coated Steel
12	Silco 400 Deg. Sealant (Not Shown)	Silver Silicone
13	1/4"-20 Acorn Nut	Zinc Coated Steel
14	1/4" Washer	Zinc Coated Steel
15	3/16" Rivet	Zinc Coated Steel
16	1/4-20 X 1" Whiz bolt	Zinc Coated Steel

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



COA: 9090

PRODUCT RENEWED
as complying with the Florida
Building Code

21-1007.01 NOA-No.

Expiration Date 11/03/2026

Miami-Dade Product Control

Notes:

- Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
- 2. 3.
- Tested for areas including high velocity hurricane zones.
 Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

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

Material: N/A	Part Number: See Above	Unless Otherwize Specifi
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inche
Weight: N/A	Drawing Name: Gravity Vent	Standard Tolerances are
	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05
	Drawing Number: GRAVITY 04	.XXX±.015
	Sheet: 4 of 12	Angles: ±1°



Dimensional Data - Gravity Vents

Description Revised by ECN# Date **Open Gravity Vent NOA** J Hess 2740 7/27/15 FBC 2017 /Cracked Concrete Calcs J Hess 2997 11/27/17 Added Alternate Brands to Drawings JJH 3061 3/26/19 Changes to Full Curb Corners JJH 3/8/21

Revision History

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0318.07

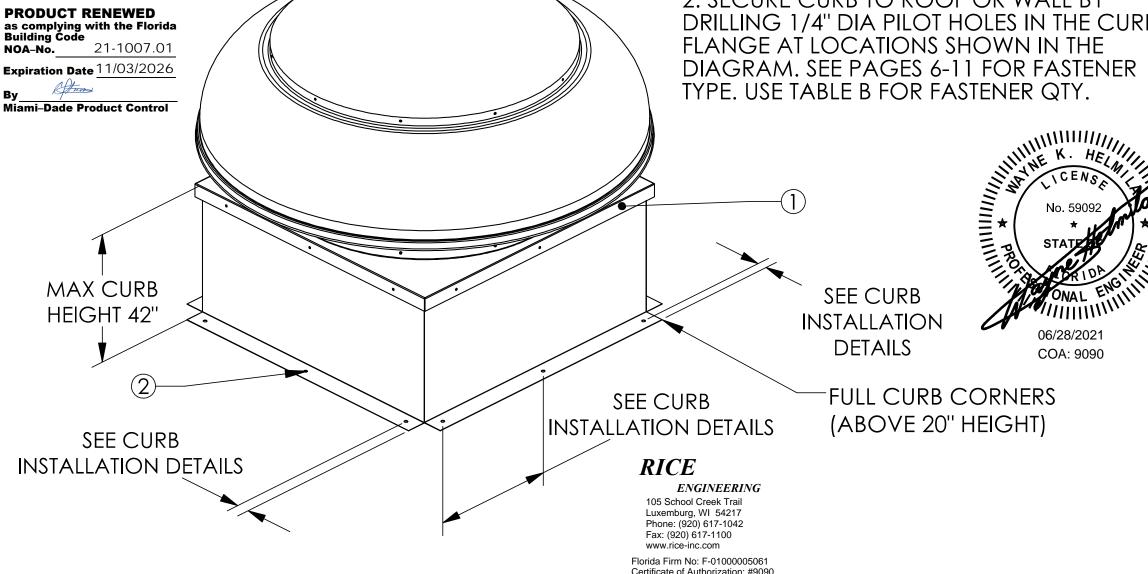
Expiration Date 11/03/2021

Ishag 1. Chands

Miami-Dade Product Control

1. SECURE FAN BASE TO CURB USING 5/16"-18 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 6-11 FOR QTY).

2. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB



Wavne K. Helmila

Registration No: 59092

Notes:

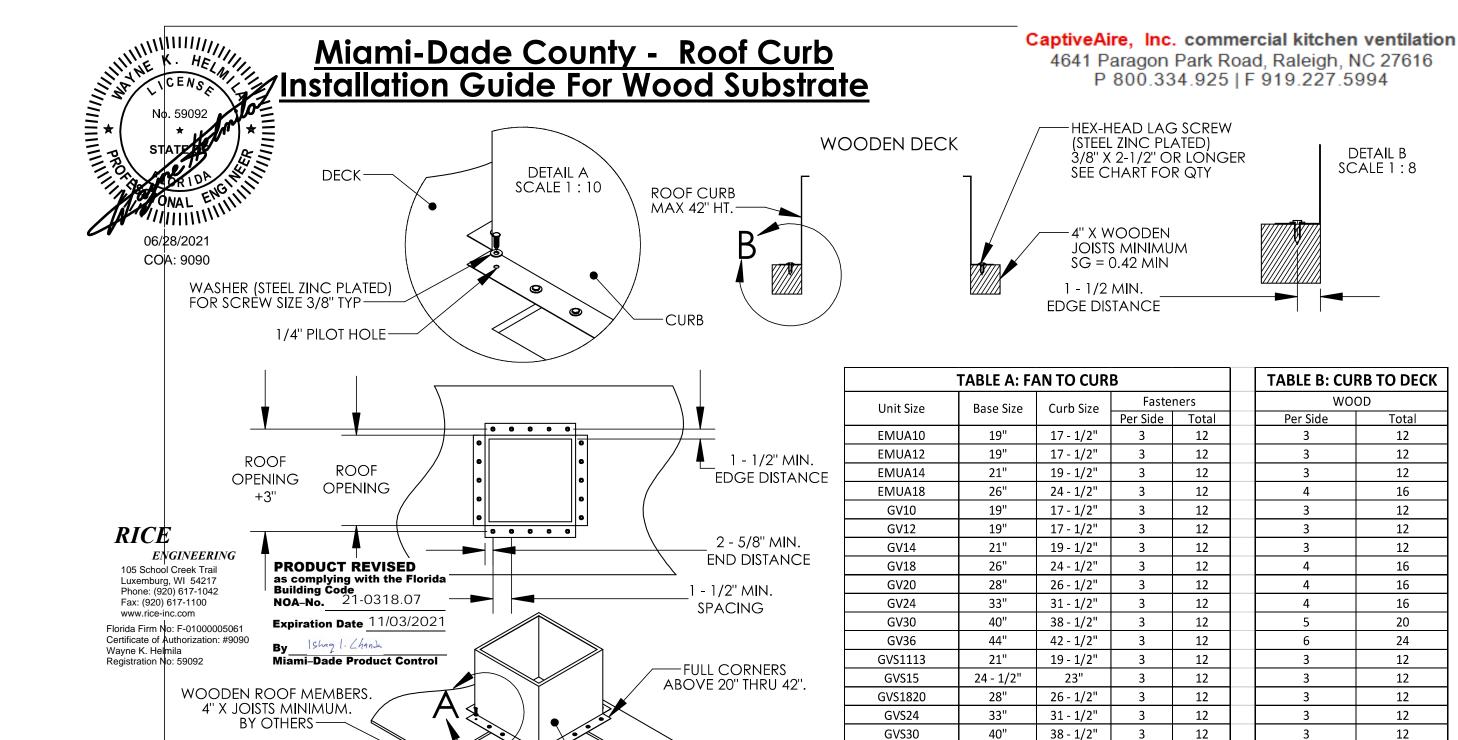
- Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
- Tested for areas including high velocity hurricane zones.
- Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

CaptiveAire, Inc. commercial kitchen ventilation 4641 Paragon Park Road, Raleigh, NC 27616

P 800.334.925 | F 919.227.5994

Material: N/A Part Number: N/A Unless Otherwize Specified Dimensions are in Inches Blank Size: N/A x N/A MACOLA Number: N/A Weight: N/A lbs Standard Tolerances are: Fractions: ±1/16 Drawina Name: Gravity Vent Drawn By: N Perry Decimal: .XX±.05 Drawing Number: GRAVITY 05 .XXX±.015 Angles: ±1° Sheet: 5 of 12





ROOF OPENING.	
	CURB
1/2" WOODEN ROOF DECKING.	20" HIGH & LESS = 20 Ga. STEEL
MINIMUM.	20+" to 42" HIGH = 18 Ga. STEEL
Notes:	

SEE PAGE 12 FOR ALTERNATE BRANDS

GVS36

103CAPASYB08-2R

103CAPASYB10-2R

103CAPASYB12-2R 103CAPASYB14-2R

103CAPASYB16-2R

44"

19"

19"

19"

21"

26"

PRODUCT RENEWED as complying with the Florida Building Code

3

3

3

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12

12

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Expiration Date 11/03/2026 Stun

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NOIC			
1.	Tested in accordance to	Florida Buildina Code test	protocol TAS-201, TAS-202, TAS203.

Tested for areas including high velocity hurricane zones. Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

	<u> </u>	
Material: N/A	Part Number: N/A	Unless Otherwize Specified
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.
Weight: N/A lbs	Drawing Name: Gravity Vent	Standard Tolerances are:
-	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05
	Drawing Number: GRAVITY 06	.XXX±.015
	Shoot: 4 of 12	Angles: ±1°

Sheet: 6 of 12

42 - 1/2"

17 - 1/2"

17 - 1/2"

17 - 1/2"

19 - 1/2"

24 - 1/2"

3

3

3

3

3

3



<u>Miami-Dade County - Roof Curb</u> <u>Installation Guide For Concrete Substrate</u>

-0 0 0 0

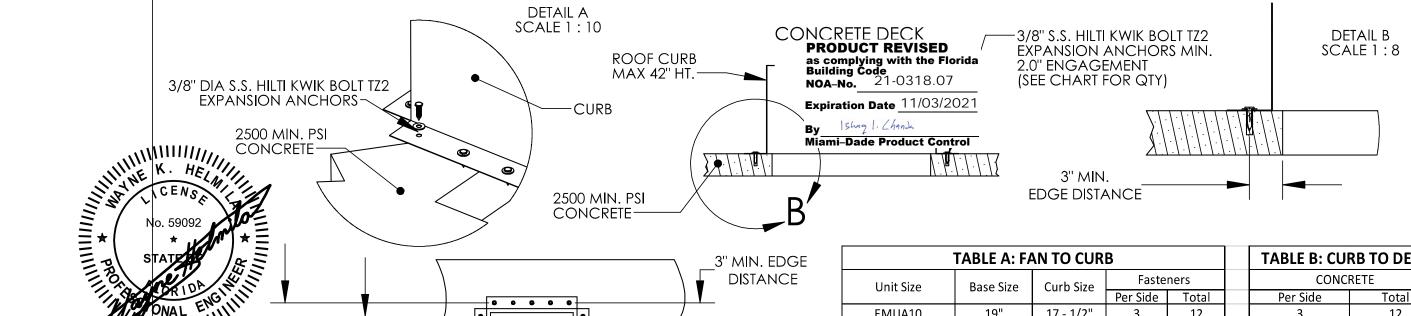
• • • • •

5" MIN.

SPACING

CaptiveAire, Inc. commercial kitchen ventilation

4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925 | F 919.227.5994



DISTANCE

3" MIN. **END DISTANCE**

-FULL CORNERS

ABOVE 20" THRU 42".

PRODUCT RENEWED

Expiration Date 11/03/2026 Altun Miami-Dade Product Control

-CURB 20" HIGH & LESS = 20 Ga. STEEL

20+" to 42" HIGH = 18 Ga. STEEL

21-1007.01

7	TABLE A: F	AN TO CUR	В		TABLE B: CUF	RB TO DECK	
Unit Size	ze Base Size Curb Size		Fasteners		CONCRETE		
Offic Size	base size	Curb Size	Per Side	Total	Per Side	Total	
EMUA10	19"	17 - 1/2"	3	12	3	12	
EMUA12	19"	17 - 1/2"	3	12	3	12	
EMUA14	21"	19 - 1/2"	3	12	3	12	
EMUA18	26"	24 - 1/2"	3	12	3	12	
GV10	19"	17 - 1/2"	3	12	3	12	
GV12	19"	17 - 1/2"	3	12	3	12	
GV14	21"	19 - 1/2"	3	12	3	12	
GV18	26"	24 - 1/2"	3	12	3	12	
GV20	28"	26 - 1/2"	3	12	4	16	
GV24	33"	31 - 1/2"	3	12	4	16	
GV30	40"	38 - 1/2"	3	12	4	16	
GV36	44"	42 - 1/2"	3	12	5	20	
GVS1113	21"	19 - 1/2"	3	12	3	12	
GVS15	24 - 1/2"	23"	3	12	3	12	
GVS1820	28"	26 - 1/2"	3	12	3	12	
GVS24	33"	31 - 1/2"	3	12	3	12	
GVS30	40"	38 - 1/2"	3	12	3	12	
GVS36	44"	42 - 1/2"	3	12	3	12	
103CAPASYB08-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB10-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB12-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB14-2R	21"	19 - 1/2"	3	12	3	12	
103CAPASYB16-2R	26"	24 - 1/2"	3	12	3	12	

Notes:

06/28/2021

СФА: 9090

ROOF

OPENING

RICE

Wayne K. Helmila Registration No: 59092

ENGINEERING

105 School Creek Trail

Luxemburg, WI 54217 Phone: (920) 617-1042

Florida Firm No: F-01000005061 Certificate of Authorization: #9090

> 2500 MIN. PSI CONCRETE:

ROOF OPENING.

Fax: (920) 617-1100 www.rice-inc.com

ROOF

OPENING

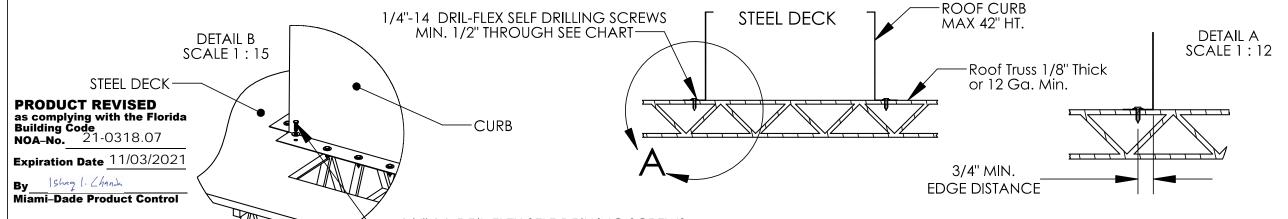
- Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
- Tested for areas including high velocity hurricane zones.
- Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

Material: N/A	Part Number: N/A	Unless Otherwize Specified	
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.	~
Weight: N/A lbs	Drawing Name: Gravity Vent	Standard Tolerances are:	
	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05	
	Drawing Number: GRAVITY 07	.XXX±.015	THE DEDECTMANIOE COMPANY
	Sheet: 7 of 12	Angles: ±1°	THE PERFORMANCE COMPANY

<u>Miami-Dade County - Roof Curb</u> <u>Installation Guide For Steel Substrate</u>

CaptiveAire, Inc. commercial kitchen ventilation

4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925 | F 919.227.5994



12 GA. MIN STEEL ROOF TRUSS—	1/4"-14 MII	DRIL-FLEX SELF DRILLING SCREWS N. 1/2" THROUGH SEE CHART
RICE		
105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 PENING	OOF NING	3/4" MIN. EDGE DISTANCE
Wayne K. Helmila Registration No: 59092		3/4" MIN. END DISTANCE 3/4" MIN.
No. 59092 * STATE OF THE STATE	B	SPACING FULL CORNERS ABOVE 20" THRU 42".
ONAL ENGINEERS OF STEEL DE COA: 9090 STEEL ROOM	MIN	CURB 20" HIGH & LESS = 20 Ga. STEEL
Notes:	Ψ	20+" to 42" HIGH = 18 Ga. STEEL

TABLE A: FAN TO CURB						TABLE B: CURB TO DECK		
Unit Size	nit Size Base Size Curb Size Fasteners			STE	EL			
Offic Size	Dase Size	Cui b Size	Per Side	Total		Per Side	Total	
EMUA10	19"	17 - 1/2"	3	12		3	12	
EMUA12	19"	17 - 1/2"	3	12		3	12	
EMUA14	21"	19 - 1/2"	3	12		3	12	
EMUA18	26"	24 - 1/2"	3	12		3	12	
GV10	19"	17 - 1/2"	3	12		3	12	
GV12	19"	17 - 1/2"	3	12		3	12	
GV14	21"	19 - 1/2"	3	12		3	12	
GV18	26"	24 - 1/2"	3	12		3	12	
GV20	28"	26 - 1/2"	3	12		4	16	
GV24	33"	31 - 1/2"	3	12		4	16	
GV30	40"	38 - 1/2"	3	12		4	16	
GV36	44"	42 - 1/2"	3	12		5	20	
GVS1113	21"	19 - 1/2"	3	12		3	12	
GVS15	24 - 1/2"	23"	3	12		3	12	
GVS1820	28"	26 - 1/2"	3	12		3	12	
GVS24	33"	31 - 1/2"	3	12		3	12	
GVS30	40"	38 - 1/2"	3	12		3	12	
GVS36	44"	42 - 1/2"	3	12		3	12	
103CAPASYB08-2R	19"	17 - 1/2"	3	12		3	12	
103CAPASYB10-2R	19"	17 - 1/2"	3	12		3	12	
103CAPASYB12-2R	19"	17 - 1/2"	3	12		3	12	
103CAPASYB14-2R	21"	19 - 1/2"	3	12		3	12	
103CAPASYB16-2R	26"	24 - 1/2"	3	12		3	12	

SEE PAGE 12 FOR ALTERNATE BRANDS

PRODUCT RENEWED as complying with the Florida Building Code 21-1007.01

Expiration Date 11/03/2026

Miami-Dade Product Control

Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.

2.

Tested for areas including high velocity hurricane zones.
Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

	•	
Material: N/A	Part Number: N/A	Unless Otherwize Specified
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.
Weight: N/A lbs	Drawing Name: Gravity Vent	Standard Tolerances are:
	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05
	Drawing Number: GRAVITY 08	.XXX±.015
	Sheet: 8 of 12	Angles: ±1°

Tolerances are: : ±1/16 .XX±.05 .XXX±.015



<u>Miami-Dade County - Wall Curb</u> <u>Installation Guide For Wood Construction</u>

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

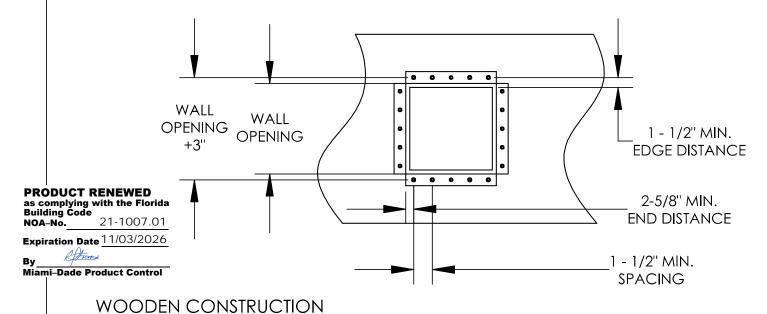


TABLE A: FAN TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Faste	ners	WOO	DD D	
Offic Size	base size	Curb Size	Per Side	Total	Per Side	Total	
EMUA10	19"	17 - 1/2"	3	12	3	12	
EMUA12	19"	17 - 1/2"	3	12	3	12	
EMUA14	21"	19 - 1/2"	3	12	4	16	
EMUA18	26"	24 - 1/2"	3	12	4	16	
GV10	19"	17 - 1/2"	3	12	3	12	
GV12	19"	17 - 1/2"	3	12	3	12	
GV14	21"	19 - 1/2"	3	12	4	16	
GV18	26"	24 - 1/2"	3	12	4	16	
GV20	28"	26 - 1/2"	3	12	4	16	
GV24	33"	31 - 1/2"	3	12	5	20	
GV30	40"	38 - 1/2"	N/	'A	N/A	4	
GV36	44"	42 - 1/2"	N/	'A	N/A	Δ	
GVS1113	21"	19 - 1/2"	3	12	3	12	
GVS15	24 - 1/2"	23"	3	12	3	12	
GVS1820	28"	26 - 1/2"	3	12	3	12	
GVS24	33"	31 - 1/2"	3	12	3	12	
GVS30	40"	38 - 1/2"	N/A		N/A		
GVS36	44"	42 - 1/2"	N/	'A	N/A	4	
103CAPASYB08-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB10-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB12-2R	19"	17 - 1/2"	3	12	3	12	
103CAPASYB14-2R	21"	19 - 1/2"	3	12	3	12	
103CAPASYB16-2R	26"	24 - 1/2"	3	12	3	12	

WASHER (STEEL ZINC PLATED) FOR SCRÈW SIZE 3/8" TYP 7 1 - 1/2" MIN. **CURB MAX EDGE DISTANCE FULL CORNERS** 42" HT. ABOVE 20" THRU 42".-DETAIL A SCALE 1:8 **PRODUCT REVISED** - as complying with the Florida Building Code NOA-No. 21-0318.07 Expiration Date 11/03/2021 Ishaq 1. Chank Miami-Dade Product Control WALL OPENING WALL WOODEN ROOF MEMBERS. -CURB 4" X STUDS MINIMUM. 20" HIGH & LESS = 20 Ga. STEEL **BY OTHERS** 20+" to 42" HIGH = 18 Ga. STEEL SG = 0.42 MIN

1/4" PILOT HOLE

HEX-HEAD LAG SCREW (STEEL ZINC PLATED) 3/8" X 2-1/2" OR LONGER SEE CHART FOR QTY

RICE ENGINEERING

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100

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



Notes:

Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.

Tested for areas including high velocity hurricane zones.

3. Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

Material: N/A	Part Number: N/A	Unless
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimer
Weight: N/A lbs	Drawing Name: Gravity Vent	Stand
The state of the s	Drawn By: N Perry	Fraction Decim
	Drawing Number: GRAVITY 09	
	Sheet: 9 of 12	Angle

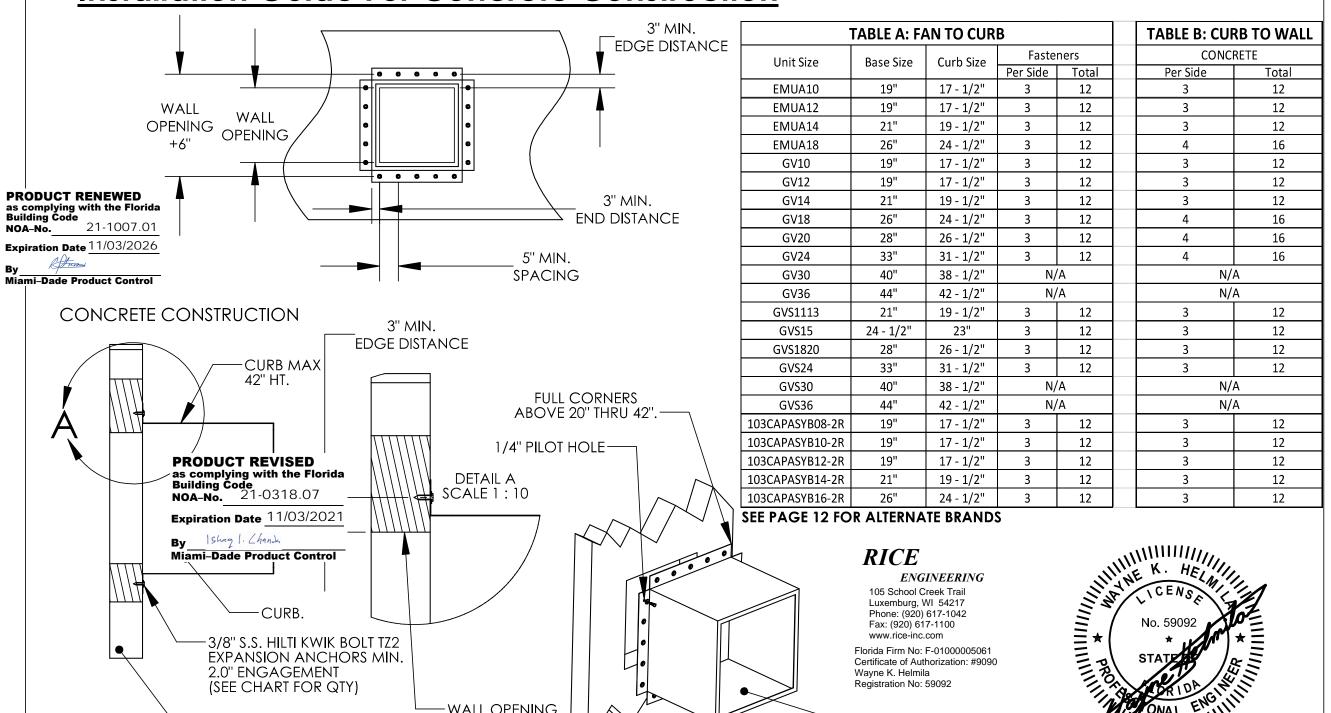
ss Otherwize Specified ensions are in Inches.

Standard Tolerances are:
Fractions: ±1/16
Decimal: .XX±.05
.XXX±.015
Angles: ±1°



<u>Miami-Dade County - Wall Curb</u> <u>Installation Guide For Concrete Construction</u>

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



Notes:

- Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
- Tested for areas including high velocity hurricane zones.

2500 MIN. PSI

CONCRETE

2.0" ENGAGEMENT

(SEE CHART FOR QTY)

Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

WALL OPENING.

Material: N/A	Part Number: N/A	Unless Otherwize Specified	
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.	
Weight: N/A lbs	Drawing Name: Gravity Vent	Standard Tolerances are:	
	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05	
	Drawing Number: GRAVITY 10	.XXX±.015	THE DEDECTMANOE
	Sheet: 10 of 12	Angles: ±1°	THE PERFORMANCE



06/28/2021

COA: 9090

Wayne K. Helmila Registration No: 59092

-CURB

20" HIGH & LESS = 20 Ga. STEEL

20+" to 42" HIGH = 18 Ga. STEEL

<u>Miami-Dade County - Wall Curb</u> <u>Installation Guide For Steel Construction</u>

CaptiveAire, Inc. commercial kitchen ventilation

4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925 | F 919.227.5994

TABLE B: CURB TO WALL

PRODUCT RENEWED as complying with the Florida Building Code

21-1007.01 NOA-No. ration Date 11/03/2026

mi-Dade Product Control

TABLE A: FAN TO CURB

Stuns

3/4" MIN. EDGE DISTAN	NOA-N Expira CE By Miami-
WALL OPENING OPENING OPENING OPENING OPENING OPENING	Unit Size
ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com END DISTANCE	EMUA12 EMUA14 EMUA18
Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092 SPACING	GV10 GV12 GV14
STEEL CONSTRUCTION 3/4" MIN. EDGE DISTANCE PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0318.07	GV18 GV20 GV24
Expiration Date 11/03/2021 42" HT. By Ishan L. Chan L. Miami-Dade Product Control	GV30 GV36 GVS1113
FULL CORNERS ABOVE 20" THRU 42".	GVS15 GVS1820

DETAIL A SCALE 1:8

WALL OPENING.

-CURB

20" HIGH & LESS = 20 Ga. STEEL 20+" to 42" HIGH = 18 Ga. STEEL

	Unit Size	Base Size	Size Curb Size Fasteners		ners		STEEL		
	01110 5120	Dasc Size	Curb Size	Per Side	Total		Per Side	Total	
	EMUA10	19"	17 - 1/2"	3	12		3	12	
	EMUA12	19"	17 - 1/2"	3	12		3	12	
	EMUA14	21"	19 - 1/2"	3	12		3	12	
=	EMUA18	26"	24 - 1/2"	3	12		3	12	
	GV10	19"	17 - 1/2"	3	12		3	12	
	GV12	19"	17 - 1/2"	3	12		3	12	
	GV14	21"	19 - 1/2"	3	12		3	12	
	GV18	26"	24 - 1/2"	3	12		3	12	
	GV20	28"	26 - 1/2"	3	12		4	16	
	GV24	33"	31 - 1/2"	3	12		4	16	
	GV30	40"	38 - 1/2"	N/	Ά		N/A	4	
	GV36	44"	42 - 1/2"	N/	Ά		N/A	4	
	GVS1113	21"	19 - 1/2"	3	12		3	12	
	GVS15	24 - 1/2"	23"	3	12		3	12	
	GVS1820	28"	26 - 1/2"	3	12		3	12	
	GVS24	33"	31 - 1/2"	3	12		3	12	
	GVS30	40"	38 - 1/2"	N/	Ά		N/A	4	
	GVS36	44"	42 - 1/2"	N/	Ά		N/	4	
	103CAPASYB08-2R	19"	17 - 1/2"	3	12		3	12	
	103CAPASYB10-2R	19"	17 - 1/2"	3	12		3	12	
•	103CAPASYB12-2R	19"	17 - 1/2"	3	12		3	12	
	103CAPASYB14-2R	21"	19 - 1/2"	3	12		3	12	
•	103CAPASYB16-2R	26"	24 - 1/2"	3	12		3	12	

SEE PAGE 12 FOR ALTERNATE BRANDS

1/4"-14 DRIL-FLEX SELF DRILLING SCREWS MIN. 1/2" THROUGH SEE CHART

STEEL STUDS 1/8" Thick or 12 Ga. Min.

Notes:

STEEL WALL

or 12 Ga. Min.

-STEEL STUDS 1/8" Thick

. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203. Tested for areas including high velocity hurricane zones. Tested under Miami-Dade County Notification number ATI 15086, 15028, 15084, 15085, 15082, 15083.

o. Tested offder Milatti Bade	Coomy Nonneamon Homber 711 13000, 13020, 13004, 130	00, 10002, 10000.
Material: N/A	Part Number: N/A	Unless Otherwize Specifie
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.
Weight: N/A lbs	Drawing Name: Gravity Vent	Standard Tolerances are
	Drawn By: N Perry	Fractions: ±1/16 Decimal: .XX±.05
	Drawing Number: GRAVITY 11	.XXX±.015
	Sheet: 11 of 12	Angles: ±1°



06/28/2021 COA: 9090

ALTERNATE BRANDS

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0318.07

Expiration Date 11/03/2021

By Shaq I. Chank
Miami-Dade Product Control

as complying with the Florida Building Code NOA-No. 21-1007.01

Expiration Date 11/03/2026

Miami-Dade Product Control

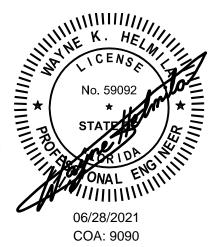
GRAVITY VENTS			
CAS FAN MODEL	RUPP FAN MODEL		
EMUA10	EMUA10-RA		
EMUA12	EMUA12-RA		
EMUA14	EMUA14-RA		
EMUA18	EMUA18-RA		
GV10	GV10-RA		
GV12	GV12-RA		
GV14	GV14-RA		
GV18	GV18-RA		
GV20	GV20-RA		
GV24	GV24-RA		
GV30	GV30-RA		
GV36	GV36-RA		
GVS1113	GVS1113-RA		
GVS15	GVS15-RA		
GVS1820	GVS1820-RA		
GVS24	GVS24-RA		
GVS30	GVS30-RA		
GVS36	GVS36-RA		
103CAPASYB08-2R	103CAPASYB08-2R-RA		
103CAPASYB10-2R	103CAPASYB10-2R-RA		
103CAPASYB12-2R	103CAPASYB12-2R-RA		
103CAPASYB14-2R	103CAPASYB14-2R-RA		
103CAPASYB16-2R	103CAPASYB16-2R-RA		

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-0100005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092



CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616

4641 Paragon Park Road, Raleigh, NC 27616 P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwize Specified
slank Size: N/A	MACOLA/AX Number: N/A	Dimensions are in Inches.
Veight: N/A	Drawing Name: Gravity Vent	Standard Tolerances are:
	Drawn By: JJH	Fractions: ±1/16 Decimal: .XX±.05
$(() \mathbf{N} \mathbf{H}) \mathbf{H} \mathbf{N} \mathbf{H} \mathbf{A} \mathbf{I}$	Parent Assembly: GRAVITY 12	.XXX±.015
	Sheet: 12 of 12	Angles: ±1°

