



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 EGV/ IGV and LGVN/ LGVX Aluminum Gravity Vents

**APPROVAL DOCUMENT:** Drawing No. **VENTS**, titled "LP Vents", sheets 1 through 29 of 29, dated 06/29/2015, 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, 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 # 21-0318.08** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, and E-5, as well as approval document mentioned above.

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



**NOA No. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**A. DRAWINGS “Submitted under NOA # 16-1108.01”**

1. Drawing No. **VENTS**, titled “LP Vents”, sheets 1 through 28 of 28, dated 06/29/2015, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E. on 04/25/2017.

**B. TESTS “Submitted under NOA # 16-1108.01”**

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 EGV/IGV 54x54 Gravity Vent with 20” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-1**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, 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 EGV/IGV 54x54 Gravity Vent with 42” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-2**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, 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 Model EGV/IGV 12x12 Gravity Vent with 20” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-1**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, 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 Model EGV/IGV 12x12 Gravity Vent with 42” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-4**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, 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 Model LGVN/LGVX 60x60-9 Gravity Vent with 20” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-5**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (Continued) “Submitted under NOA # 16-1108.01”**

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 Model EGV/IGV 60x60-9 Gravity Vent with 42” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-1**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, P.E.
7. 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 LGVN/LGVX 12x12-5 Gravity Vent with 20” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-7**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, P.E.
8. 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 LGVN/LGVX 12x12-5 Gravity Vent with 42” Curb, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-18860-1**, dated 04/29/2016, revised on 02/17/2017, signed and sealed by Harold E. Rupp, P.E.

**C. CALCULATIONS “Submitted under NOA # 16-1108.01”**

1. Anchor verification calculations prepared by Rice Engineering, dated 04/19/2017, 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 “Submitted under NOA # 16-1108.01”**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Rice Engineering, dated 01/05/2017, signed and sealed by L. David Rice, P.E.
2. Statement letters of no financial interest issued by Rice Engineering, dated 01/05/2017, signed and sealed by L. David Rice, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. Evidence submitted under NOA # 18-0118.13**

**A. DRAWINGS**

1. Drawing No. **VENTS**, titled “LP Vents”, sheets 1 through 28 of 28, dated 06/29/2015, 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. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under NOA # 19-0717.06**

**A. DRAWINGS**

1. Drawing No. **VENTS**, titled “LP Vents”, sheets 1 through 29 of 29, dated 06/29/2015, 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. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Submitted under NOA # 21-0318.08 and new evidence**

**A. DRAWINGS**

1. Drawing No. **VENTS**, titled “LP Vents”, sheets 1 through 29 of 29, dated 06/29/2015, 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.

**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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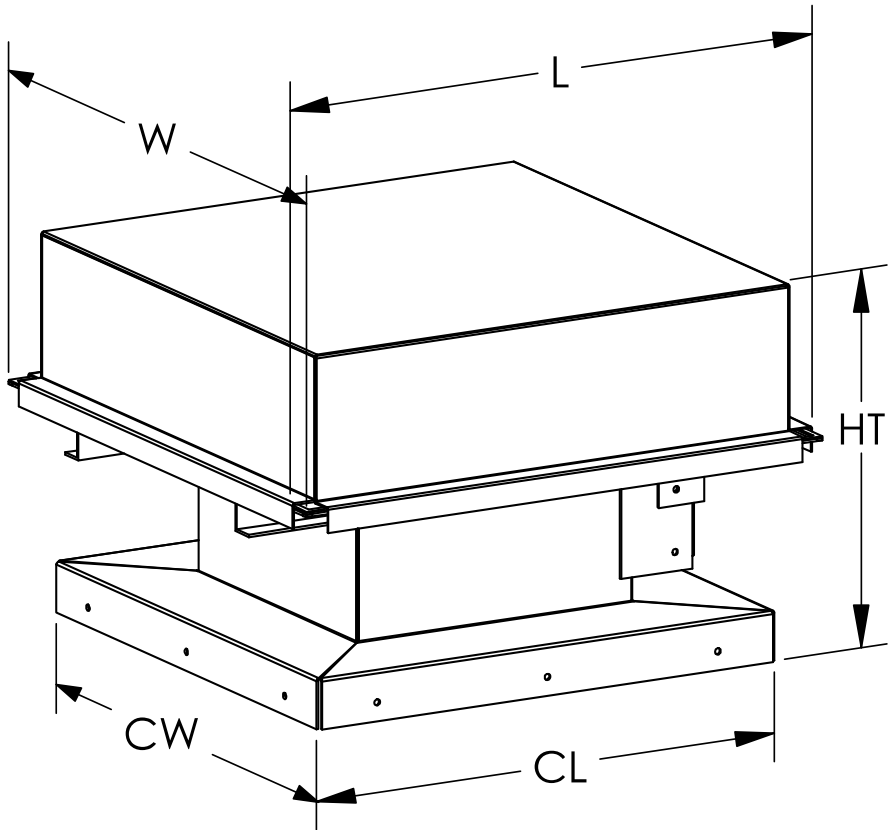
**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 22-0412.06**  
**Expiration Date: June 8, 2027**  
**Approval Date: May 12, 2022**



Dimensional Data - EGV/ IGV

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.



MODEL	HT (in)	W (in)	L (in.)	CW (in.)	CL (in.)	WT (lbs)		MODEL	HT (in)	W (in)	L (in.)	CW (in.)	CL (in.)	WT (lbs)
EGV12x12	14	20	20	20	20	25		IGV12x12	14	23	23	20	20	28
EGV12x24	14	22	34	20	32	38		IGV12x22	14	26	36	20	30	44
EGV12x54	14	24	66	20	62	55		IGV12x42	14	31	61	20	50	62
EGV14x14	14	22	22	22	22	28		IGV14x14	15	27	27	22	22	32
EGV14x30	14	25	41	22	38	49		IGV14x22	15	30	40	22	30	52
EGV16x16	14	25	25	24	24	34		IGV16x16	16	30	30	24	24	40
EGV16x36	14	28	48	24	44	59		IGV16x30	16	34	48	24	38	62
EGV18x18	15	28	28	26	26	40		IGV18x18	17	34	34	26	26	47
EGV18x42	15	31	55	26	50	72		IGV18x30	17	38	50	26	38	67
EGV20x20	16	31	31	28	28	48		IGV20x20	18	37	37	28	28	56
EGV20x48	16	35	63	28	56	99		IGV20x42	18	43	65	28	50	99
EGV22x22	16	34	34	30	30	53		IGV22x22	18	41	41	30	30	62
EGV22x48	16	37	63	30	56	115		IGV22x42	18	47	67	30	50	114
EGV24x24	18	36	36	32	32	63		IGV24x24	18	44	44	32	32	74
EGV24x54	18	41	71	32	62	155		IGV24x48	18	51	75	32	56	153
EGV28x28	20	42	42	36	36	82		IGV28x28	20	53	53	36	36	99
EGV28x54	20	47	72	36	62	160		IGV28x54	20	58	54	36	62	200
EGV30x30	20	45	45	38	38	96		IGV30x30	20	55	55	38	38	112
EGV30x54	20	49	73	38	62	206		IGV30x54	20	62	86	38	62	210
EGV36x36	22	54	54	44	44	114		IGV36x36	22	65	65	44	44	136
EGV36x54	22	57	75	44	62	206		IGV40x40	24	72	72	48	48	161
EGV40x42	22	59	61	48	50	180		IGV42x42	25	76	76	50	50	212
EGV42x42	22	61	61	50	50	180		IGV48x48	27	86	86	56	56	270
EGV48x48	24	70	70	56	56	228		IGV54x54	30	97	97	62	62	342
EGV54x54	26	79	79	62	62	290								

SEE PAGE 29 FOR ALTERNATE BRANDS

DESIGN PRESSURE: +60.0 / -120.0 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

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified
Blank Size: N/A x N/A	MACOLA Number: N/A	Dimensions are in Inches.
Weight: N/A lbs	Drawing Name: LP VENTS	Standard Tolerances are:
	Drawn By: J HESS	Fractions: ±1/16
	Drawing Number: VENTS01	Decimal: .XX±.05
	Sheet: 1 of 29	.XXX±.015
		Angles: ±1°

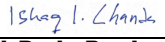
Revision History				
#	Description	Revised by	ECN#	Date
0	Open Gravity Vent NOA	J Hess	2740	6/29/15
1	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
2	Added Alternate Brands to Drawings	JJH	3061	3/26/19

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By   
Miami-Dade Product Control

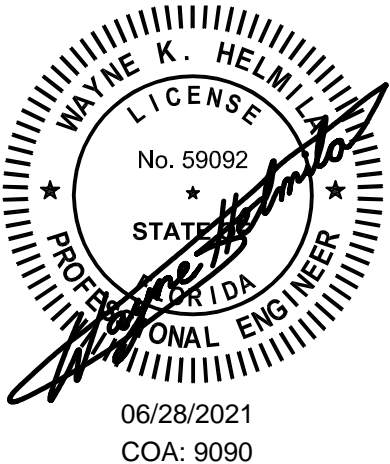
**RICE**  
ENGINEERING

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.

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

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By   
Miami-Dade Product Control

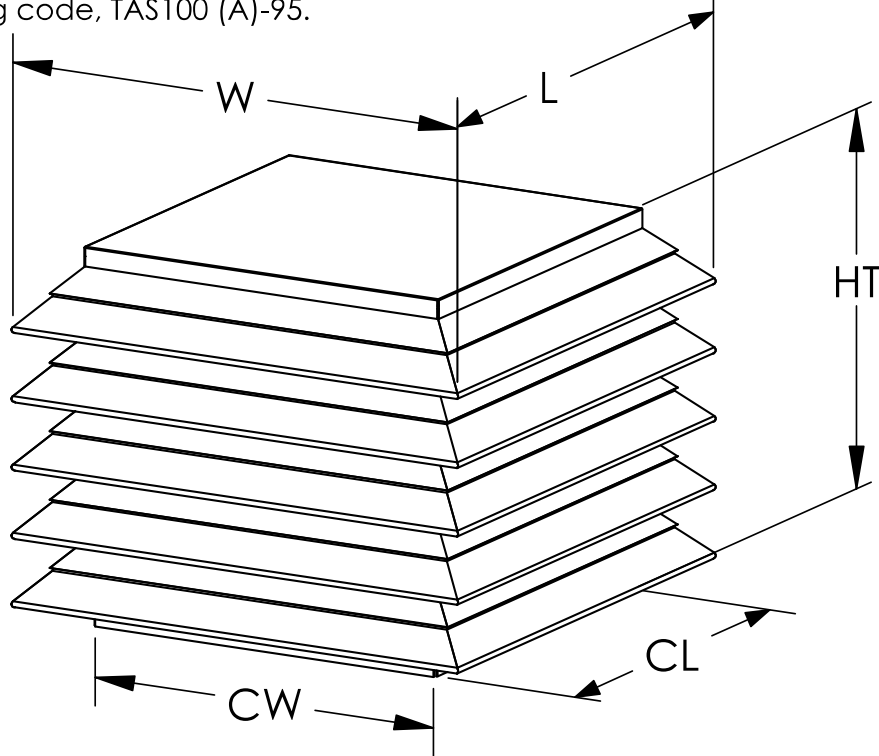
RICE  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



Dimensional Data - LGVN / LGVX

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.



DESIGN PRESSURE: +60.0 / -120.0 PSF  
LARGE MISSILE IMPACT RESISTANT

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By [Signature]  
Miami-Dade Product Control

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

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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

Part Number: N/A  
MACOLA Number: N/A  
Drawing Name: LP VENTS  
Drawn By: J HESS  
Drawing Number: VENTS02  
Sheet: 2 of 29

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



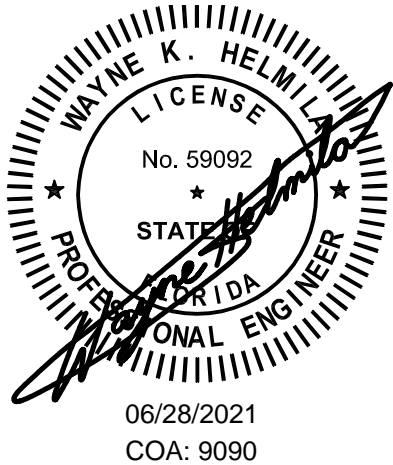
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#	Description	Revised by	ECN#	Date
0	Open Gravity Vent NOA	J Hess	2740	6/29/15
1	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
2	Added Alternate Brands to Drawings	JJH	3061	3/26/19

Gravity Vent MODEL	HT (in)	CL (in.)	CW (in)	L (in)	W (in.)	WEIGHT (lbs)
LGVN/LGVX12x12-5	19 1/2	20	20	25 3/4	25 3/4	52
LGVN/LGVX12x18-5	19 1/2	20	26	25 3/4	31 3/4	56
LGVN/LGVX12x30-5	19 1/2	20	38	25 3/4	43 3/4	70
LGVN/LGVX12x48-5	19 1/2	20	56	25 3/4	61 3/4	91
LGVN/LGVX14x14-6	23	22	22	27 3/4	27 3/4	60
LGVN/LGVX14x24-6	23	22	32	27 3/4	37 3/4	74
LGVN/LGVX14x36-6	23	22	44	27 3/4	49 3/4	90
LGVN/LGVX14x48-6	23	22	56	27 3/4	61 3/4	106
LGVN/LGVX16x16-6	23	24	24	29 3/4	29 3/4	63
LGVN/LGVX16x24-6	23	24	32	29 3/4	37 3/4	72
LGVN/LGVX16x36-6	23	24	44	29 3/4	49 3/4	90
LGVN/LGVX16x48-6	23	24	56	29 3/4	61 3/4	106
LGVN/LGVX18x18-7	26 1/2	26	26	31 3/4	31 3/4	75
LGVN/LGVX18x24-7	26 1/2	26	32	31 3/4	37 3/4	87
LGVN/LGVX18x42-7	26 1/2	26	50	31 3/4	55 3/4	112
LGVN/LGVX18x54-7	26 1/2	26	62	31 3/4	67 3/4	130
LGVN/LGVX20x20-8	30	28	28	33 3/4	33 3/4	88
LGVN/LGVX20x30-8	30	28	38	33 3/4	43 3/4	110
LGVN/LGVX20x42-8	30	28	50	33 3/4	55 3/4	129
LGVN/LGVX20x54-8	30	28	62	33 3/4	67 3/4	151
LGVN/LGVX24x24-9	33.5	32	32	37 3/4	37 3/4	113
LGVN/LGVX24x36-9	33.5	32	44	37 3/4	49 3/4	134
LGVN/LGVX24x48-9	33.5	32	56	37 3/4	61 3/4	155
LGVN/LGVX24x60-9	33.5	32	68	37 3/4	73 3/4	179

SEE PAGE 29 FOR ALTERNATE BRANDS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By [Signature]  
Miami-Dade Product Control

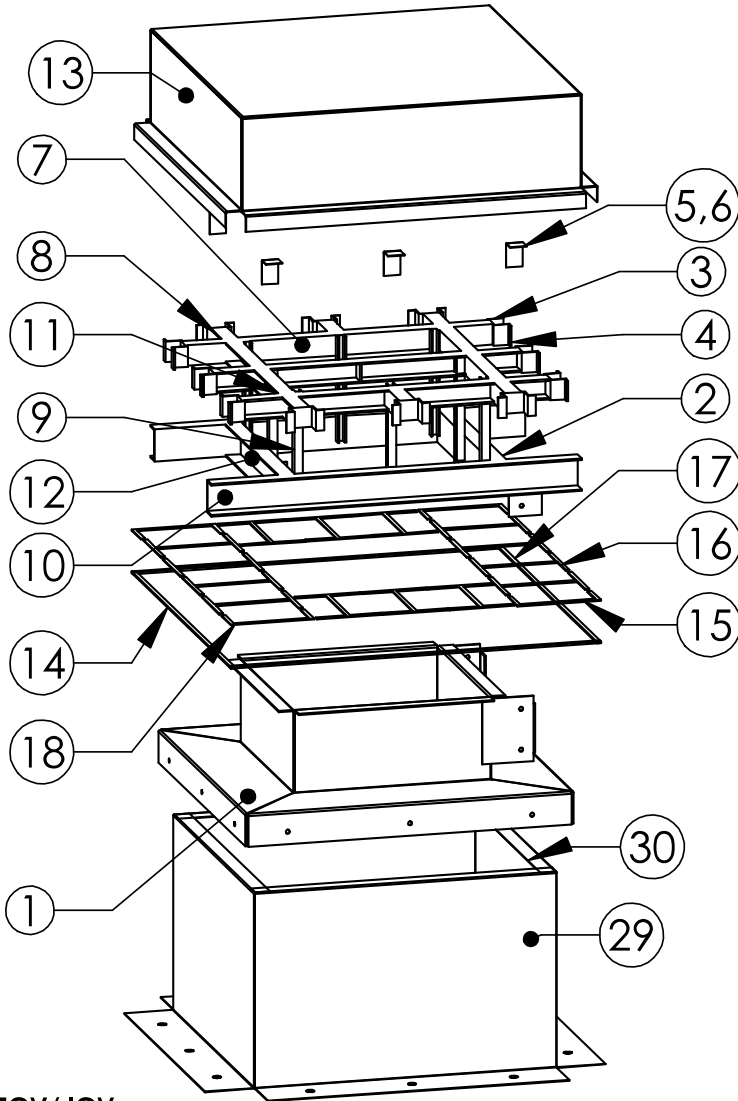
RICE  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092





Exploded Material View - EGV/IGV & LGVN/LGVX

EGV/IGV SERIES



EGV/ IGV:

The Hood Vertical Uprights are welded to the Hood Structure and Base Side Braces.  
The Cross Ties are welded to the Cross Braces and Vertical Uprights.  
The Side Brace Gusset Plates are welded to the Full Length Cross Braces and Cross Ties.  
The Perimeter Hat Channels are welded to the Side Brace Gusset Plates.  
The Side Braces and Throat Channels are stitch welded to the BS Assembly.  
The Base Assembly is fully welded on all (4) corners.

LGVN/LGVX:

The Corner Uprights and Side Uprights are welded to the Base Assembly and Cap Assembly.  
The Main Upright Brace Assembly is welded to the Cross Brace Assembly and Side Uprights.  
Inside and Outside Uplift tabs are welded to the Main Cross Brace Assembly, Top Blade, and Cap.  
The Blade Assemblies are welded to the Uprights and fully welded in the corners.

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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

Part Number: N/A  
MACOLA Number: N/A  
Drawing Name: LP VENTS  
Drawn By: J HESS  
Drawing Number: VENTS03  
Sheet: 3 of 29

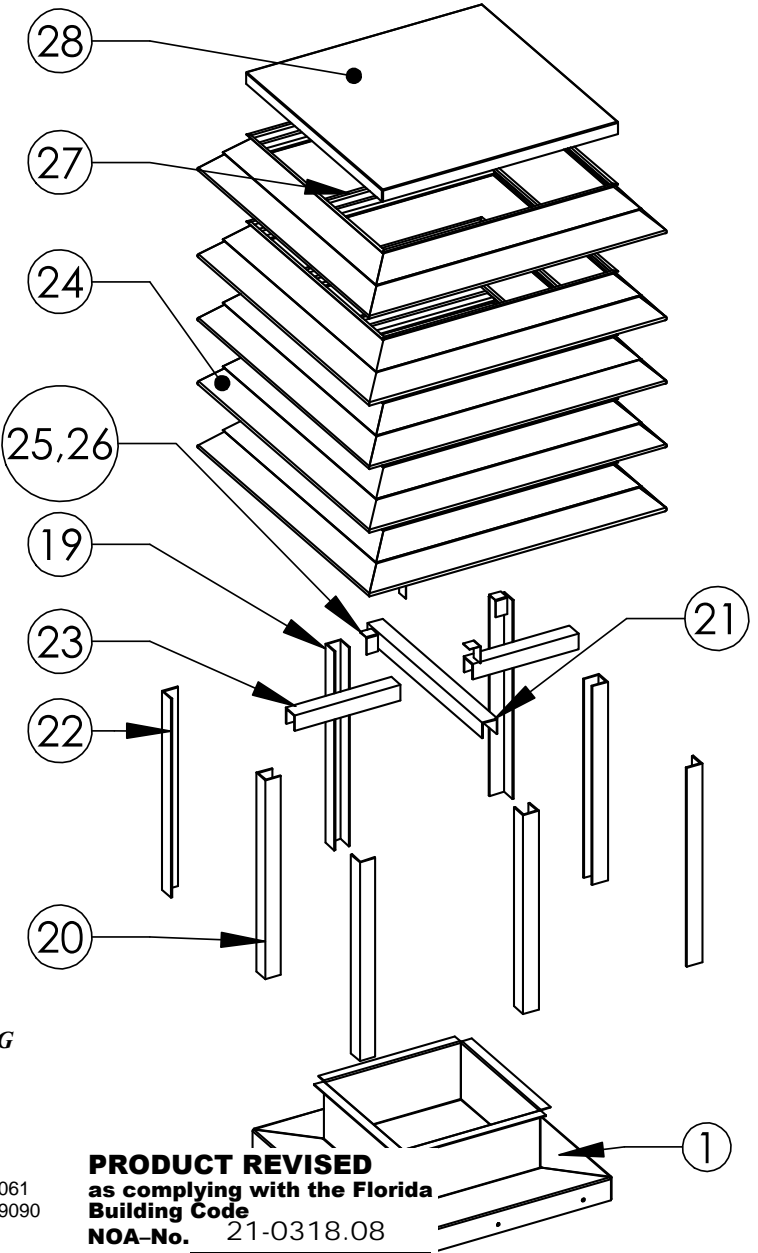
Unless Otherwise Specified  
Dimensions are in Inches.

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

Revision History				
#	Description	Revised by	ECN#	Date
0	Open Gravity Vent NOA	J Hess	2740	6/29/15
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	JJH	--	3/8/21

Item	Description Of Part	Material
1	Base Assembly	3003H14 .080 Alum.
2	Hood Structure	3003H14 .080 Alum.
3	Side Brace Gusset Plate	3003H14 .063 Alum.
4	Perimeter Hat Channel	3003H14 .080 Alum.
5	Hood Up-lift Tab (short)	3003H14 .080 Alum.
6	Hood Up-lift tab (long)	3003H14 .080 Alum.
7	Full Length Cross Braces	3003H14 .080 Alum.
8	Cross Ties	3003H14 .080 Alum.
9	Hood Vertical Uprights	3003H14 .080 Alum.
10	Side Brace	3003H14 .080 Alum.
11	Butt Plate	3003H14 .080 Alum.
12	Throat Channel	6063T5 .125 Alum.
13	Hood Assembly	3003H14 .063 Alum.
14	M-D BS Backing Plate	3003H14 .080 Alum.
15	M-D BS End Strap	3003H14 .080 Alum.
16	M-D BS Strap	3003H14 .080 Alum.
17	BS Assy.	Galv. Hardware Cloth 1/2 x 1/2
18	#10 x 3/4 SMS	Galv. Steel
19	Side Upright Extruded Channel 2 x 1 x 1/8	6065-T5 Alum.
20	Main Upright Assembly	5052H32 .125 Alum.
21	Main Cross Brace Assembly	5052H32 .125 Alum.
22	Corner Upright - Extruded Angle 1 1/4 x 1 1/4 x 1/8	6063T5 Alum.
23	Cross Brace Assembly- Extruded Channel 2 x 1 x 1/8	6063T5 .125 Alum.
24	6060 Beveled Blade Assembly	3003H14 .080 Alum.
25	Inside Uplift Tabs	3003H14 .080 Alum.
26	Outside uplift tabs	3003H14 .080 Alum.
27	Screen Assembly	3003H14 .063 Alum.
28	6060 Cap Assembly	3003H14 .063 Alum.
29a	Curb (Up to 20" Height)	20 Ga. Steel
29b	Curb (Above 20" Up to 42" Height)	18 Ga. Steel
30	Foam Sealing Gasket	Closed Cell Foam Gasket

LGVN/LGVX SERIES



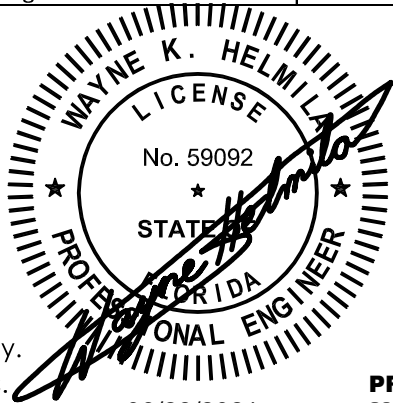
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08

Expiration Date 06/08/2022

By Ishaq I. Chande  
Miami-Dade Product Control

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

**CAPTIVEAIRE**  
THE PERFORMANCE COMPANY



**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

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NOA-No. 22-0412.06

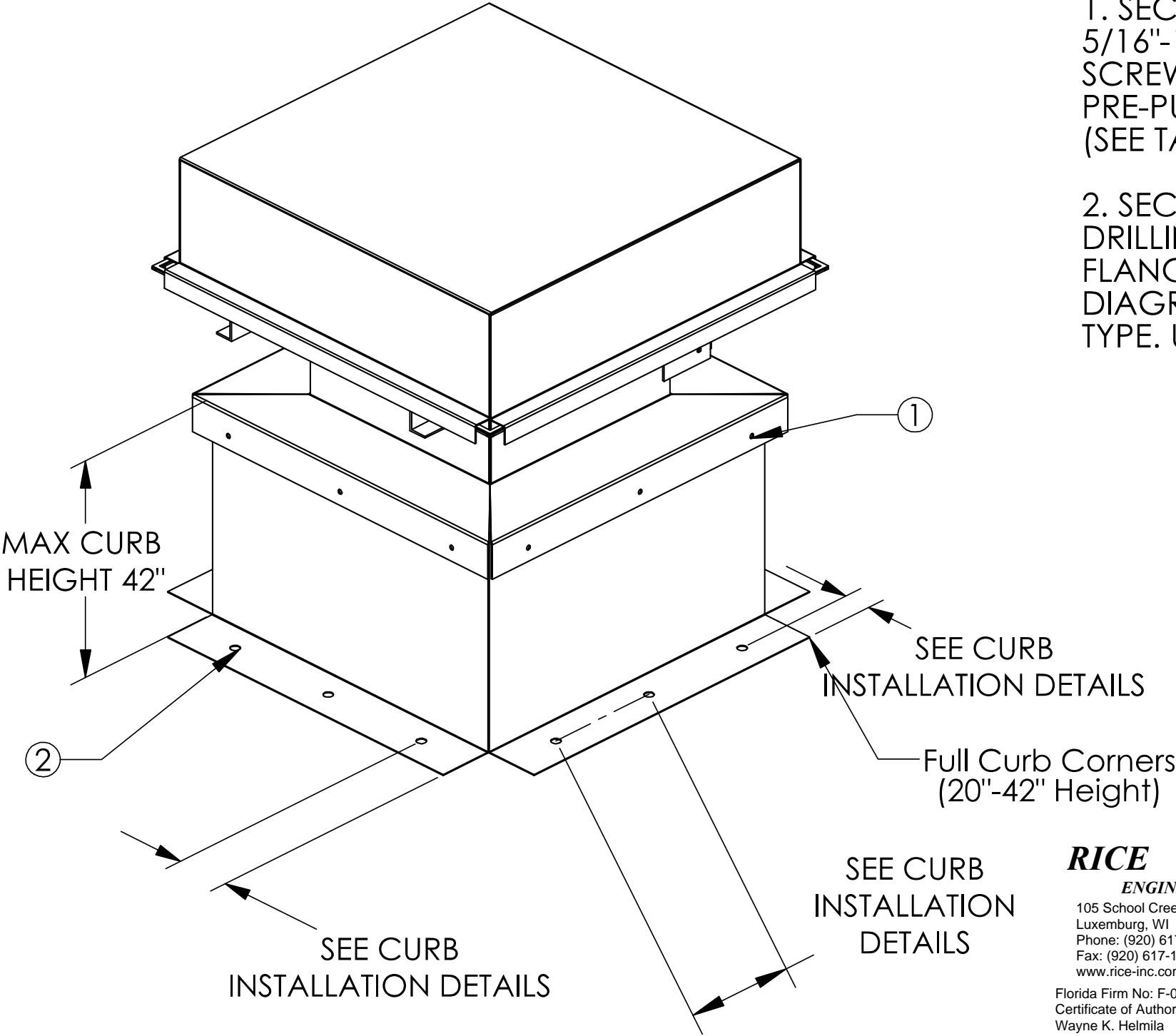
Expiration Date 06/08/2027

By [Signature]  
Miami-Dade Product Control

06/28/2021  
COA: 9090

Installation - EGV/IGV & LGVN/LGVX

Revision History				
#	Description	Revised by	ECN#	Date
0	Open Gravity Vent NOA	J Hess	2740	6/29/15
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 GRAVITY VENT 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 GRAVITY VENT BASE. (SEE TABLE A ON PAGES 6-28 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 6-28 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

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NOA-No. 22-0412.06  
Expiration Date 06/08/2027

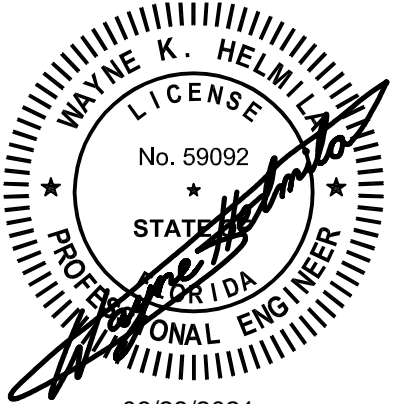
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as complying with the Florida  
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By Ishag I. Chande  
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06/28/2021  
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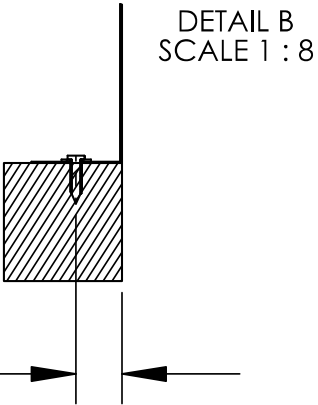
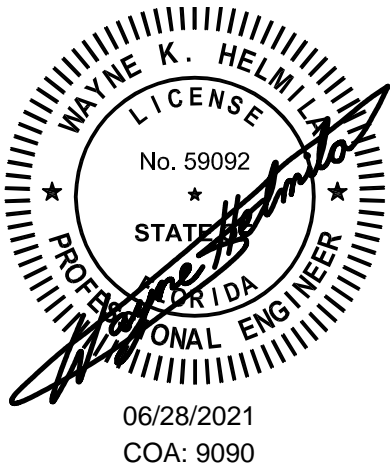
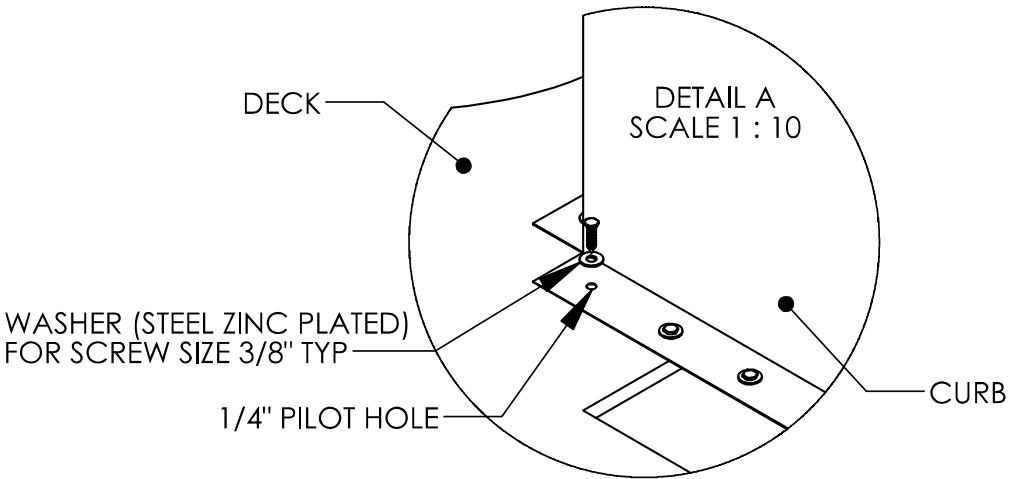
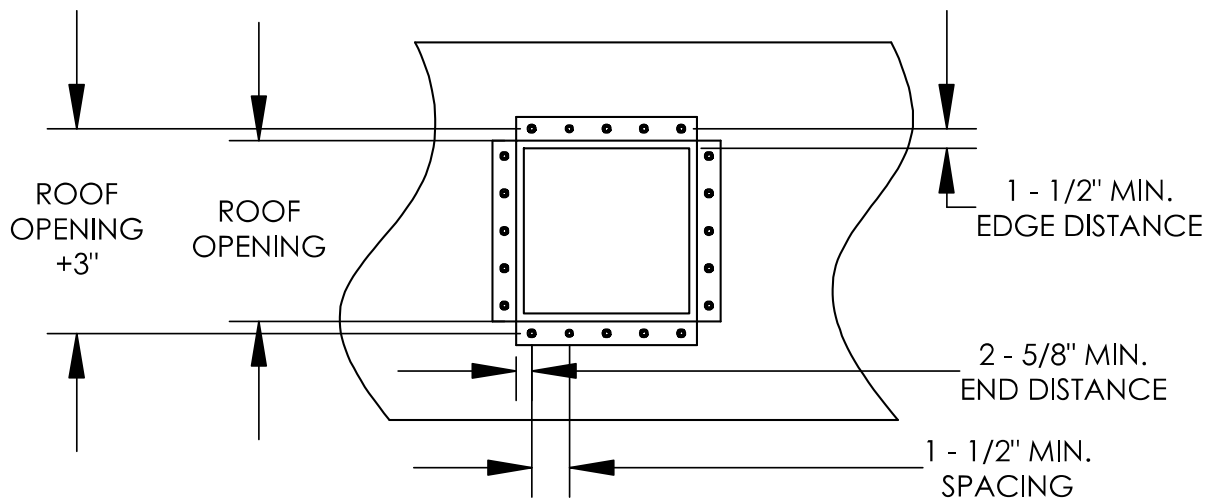
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4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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°
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Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENTS04	
	Sheet: 4 of 29	

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

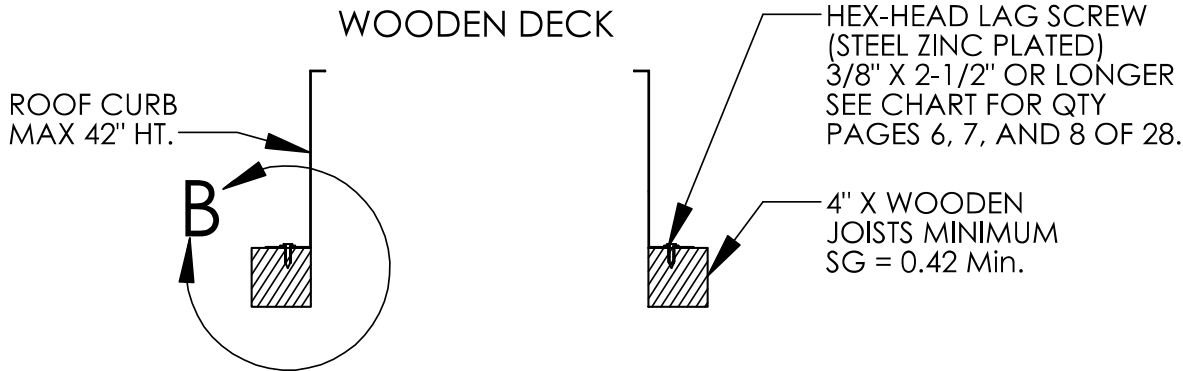
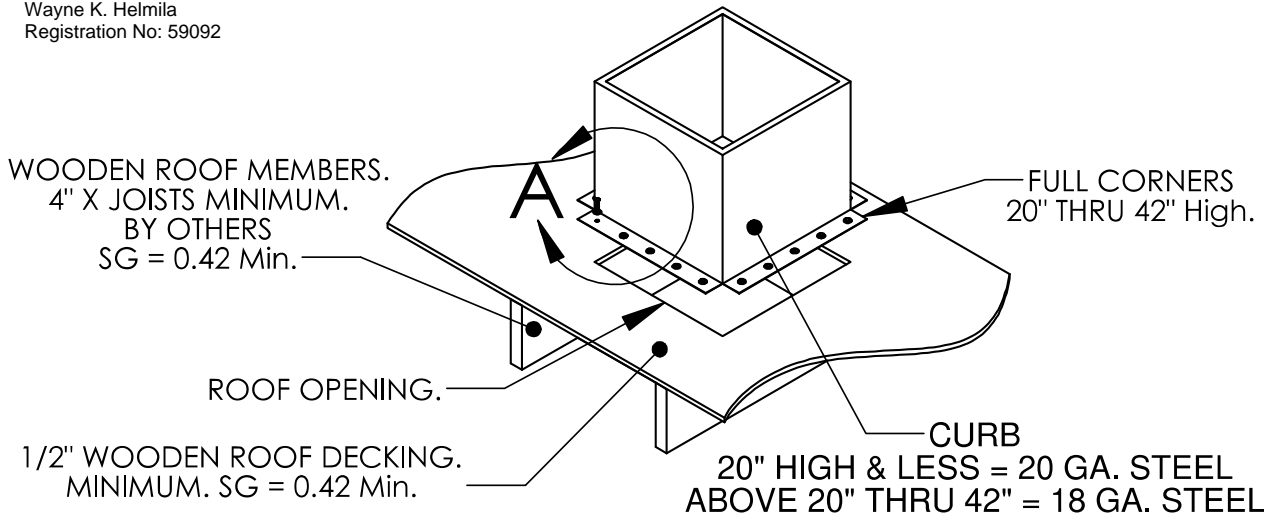
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By *[Signature]*  
Miami-Dade Product Control

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Miami-Dade Product Control




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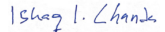
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	<b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are:	
Weight: N/A lbs	Drawing Name: LP VENTS	Fractions: ±1/16	
	Drawn By: J HESS	Decimal: .XX±.05	
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Miami-Dade County - Roof Curb  
Installation Guide For Wood Substrate - Fasteners  
Page 6 of 28

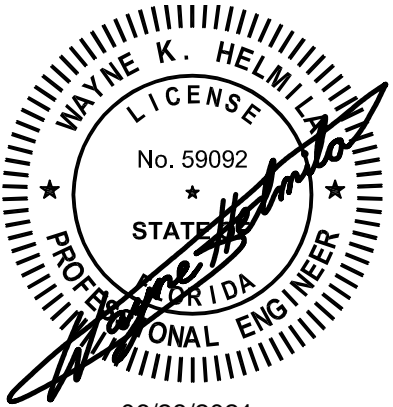
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	5	3	16
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	10	3	26
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	5	3	16
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
EGV16x36	24 X 44"	22.5 X 42.5"	3	12	5	3	16
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	6	3	18
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	6	3	18
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	6	3	18
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	7	4	22
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	7	4	22
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	6	4	20
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	6	4	20
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	5	4	18
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	5	5	20
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	5	5	20
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	6	6	24

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06/28/2021  
COA: 9090

SEE PAGE 29 FOR ALTERNATE BRANDS

Notes:

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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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 x N/A	MACOLA Number: N/A	
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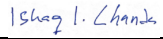
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Miami-Dade County - Roof Curb  
Installation Guide For Wood Substrate - Fasteners  
Page 7 of 28

TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	5	3	16
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	8	3	22
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	4	3	14
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
IGV16x30	24 X 38"	22.5 x 36.5"	3	12	5	3	16
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	5	3	16
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	4	4	16
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	6	3	18
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	4	4	16
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	6	3	18
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	4	4	16
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	7	4	22
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	4	20
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	7	4	22
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	5	5	20
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	5	5	20
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	6	6	24
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	6	6	24
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	7	7	28

SEE PAGE 29 FOR ALTERNATE BRANDS

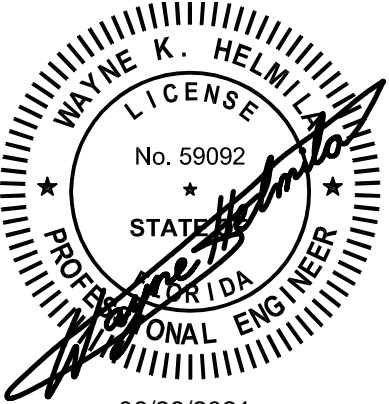
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Miami-Dade Product Control

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06/28/2021  
COA: 9090

Notes:

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	Drawn By: J HESS	
	Drawing Number: VENT07	
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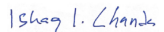


Miami-Dade County - Roof Curb  
Installation Guide For Wood Substrate - Fasteners  
Page 8 of 28

TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	3	3	12
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	4	3	14
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	6	3	18
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	9	3	24
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	4	4	16
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	5	3	16
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	7	3	20
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	9	3	24
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	4	4	16
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	5	4	18
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	7	4	22
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	9	4	26
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	4	4	16
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	5	4	18
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	8	4	24
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	10	4	28
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	5	5	20
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	6	4	20
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	8	4	24
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	10	4	28
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	5	5	20
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	7	5	24
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	9	5	5
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	11	5	32

SEE PAGE 29 FOR ALTERNATE BRANDS

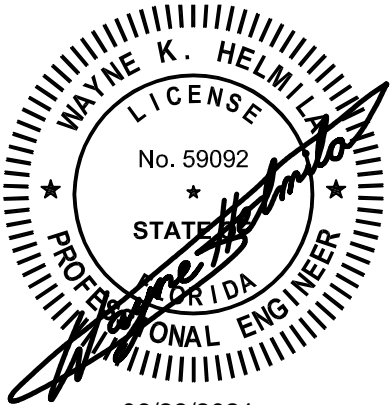
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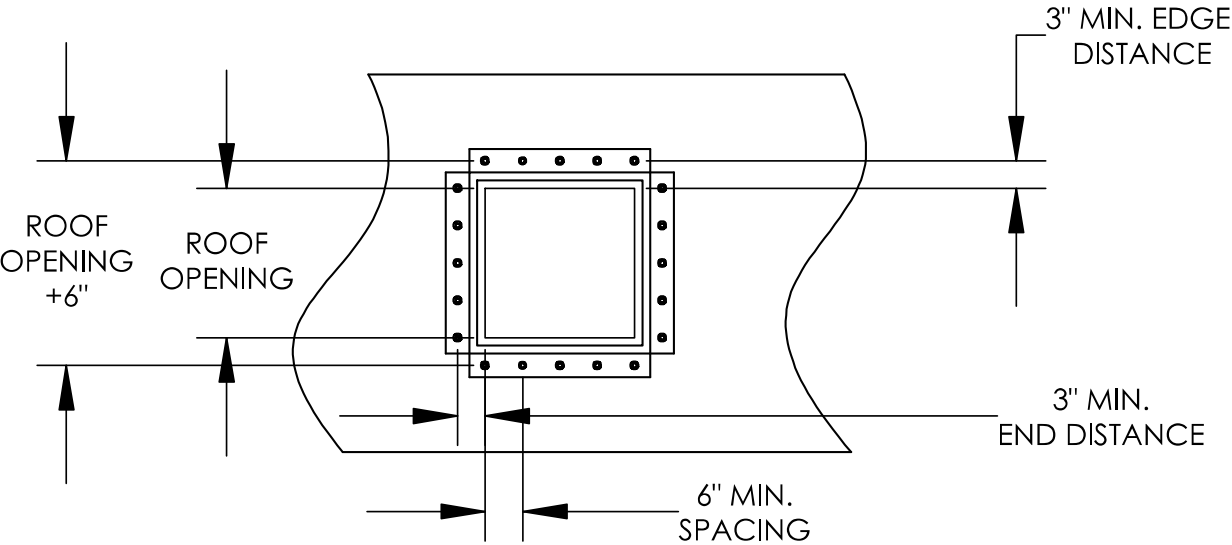
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Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT08	
	Sheet: 8 of 29	



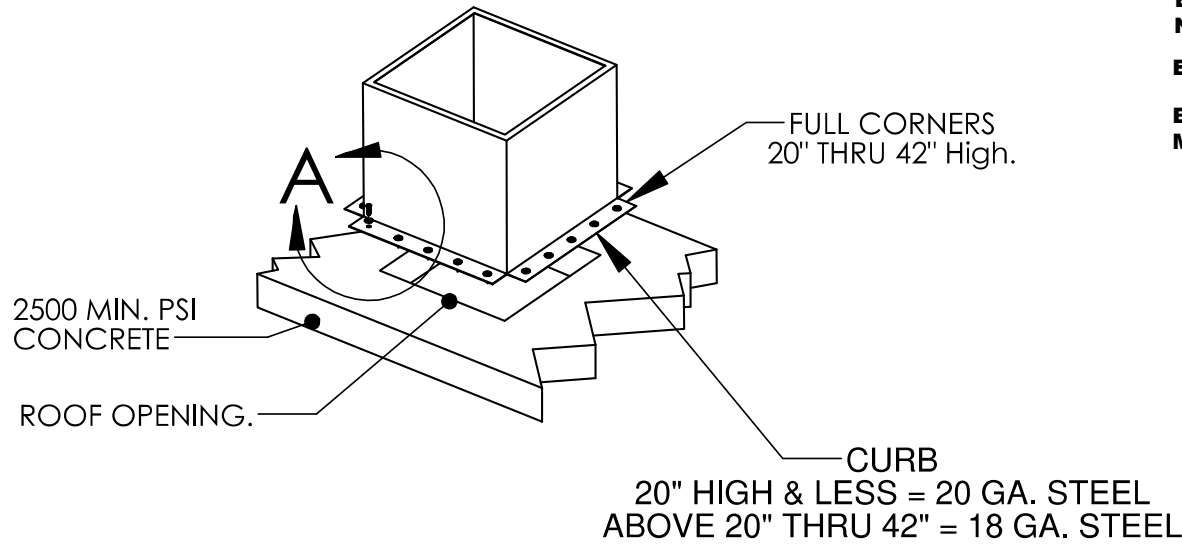
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4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994

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

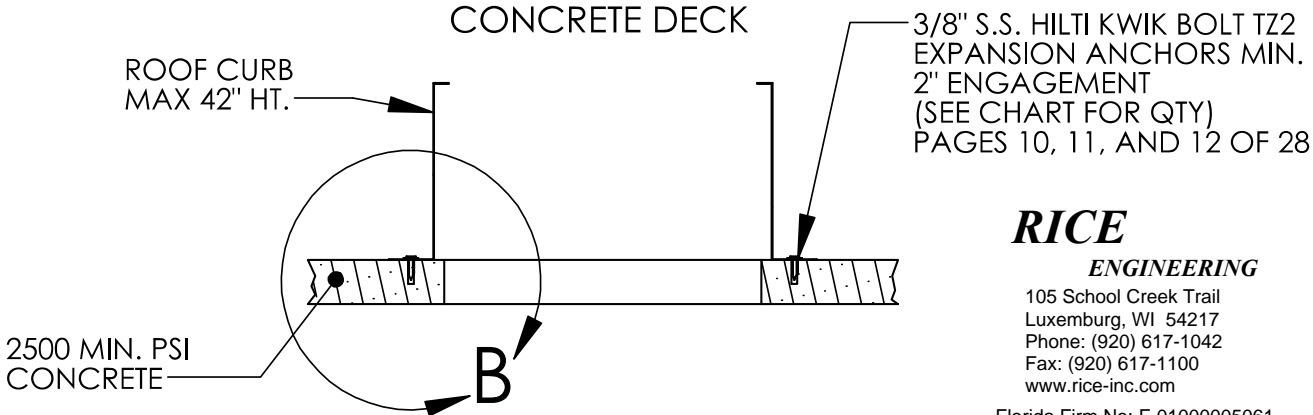
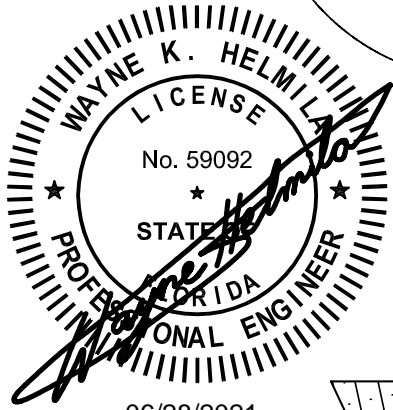
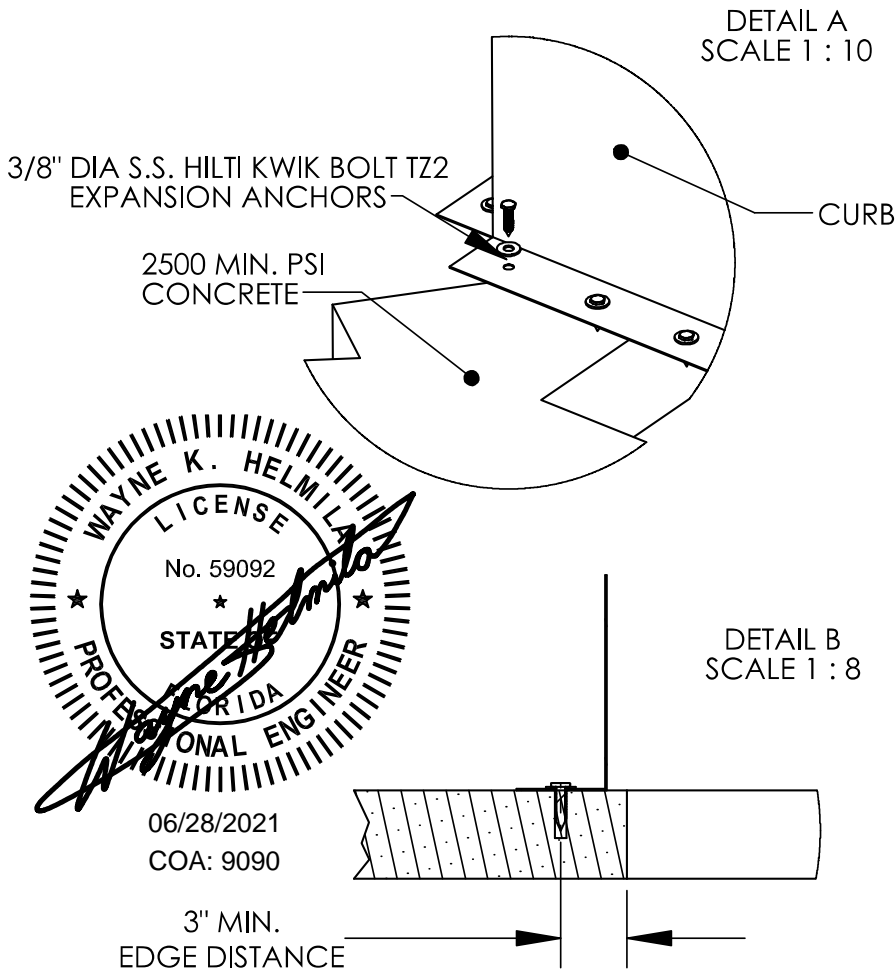
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**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By *R. J. [Signature]*  
Miami-Dade Product Control



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By *Ishaq I. Chanda*  
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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

**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


Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: $\pm 1/16$ Decimal: $.XX \pm .05$ $.XXX \pm .015$ Angles: $\pm 1^\circ$
Weight: N/A lbs	Drawing Name: LP VENT	
	Drawn By: J HESS	
	Drawing Number: VENT09	
	Sheet: 9 of 29	

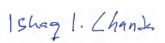


Miami-Dade County - Roof Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 10 of 28

TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	5	3	16
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	10	3	26
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	5	3	16
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
EGV16x36	24 X 44"	22.5 x 42.5"	3	12	5	3	16
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	6	3	18
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	6	3	18
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	5	3	16
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	6	3	18
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	3	3	12
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	3	18
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	3	3	12
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	6	3	18
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	5	4	18
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	4	4	16
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	4	4	16
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	4	4	16
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	5	5	20

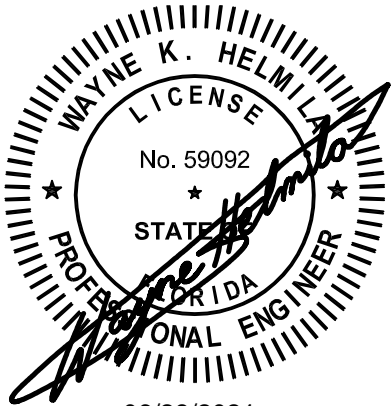
SEE PAGE 29 FOR ALTERNATE BRANDS

**PRODUCT RENEWED**  
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Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By   
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By   
Miami-Dade Product Control

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
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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

Notes:

- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
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- 3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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 x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT10	
	Sheet: 10 of 29	





Miami-Dade County - Roof Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 11 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	5	3	16
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	8	3	22
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	4	3	14
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
IGV16x30	24 X 38"	22.5 x 36.5"	3	12	4	3	14
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	4	3	14
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	5	3	16
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	5	3	16
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	6	3	18
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	5	3	16
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	6	3	18
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	4	4	16
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	5	5	20
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	5	5	20
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	6	6	24

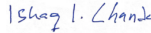
SEE PAGE 29 FOR ALTERNATE BRANDS

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2. Tested for areas including high velocity hurricane zones.
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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 x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT11	
	Sheet: 11 of 29	

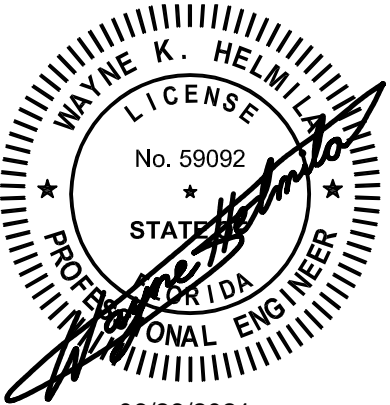
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Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By   
Miami-Dade Product Control

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Building Code  
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By   
Miami-Dade Product Control

**RICE**  
ENGINEERING

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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

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Miami-Dade County - Roof Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 12 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	3	3	12
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	4	3	14
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	6	3	18
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	9	3	24
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	3	3	12
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	4	3	14
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	6	3	18
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	8	3	22
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	3	3	12
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	4	3	14
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	6	3	18
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	7	3	20
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	4	4	16
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	4	3	14
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	7	3	20
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	8	3	22
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	4	4	16
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	5	4	18
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	7	4	22
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	8	4	24
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	4	4	16
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	6	4	20
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	7	4	22
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	9	4	26

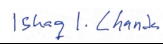
SEE PAGE 29 FOR ALTERNATE BRANDS

Notes:

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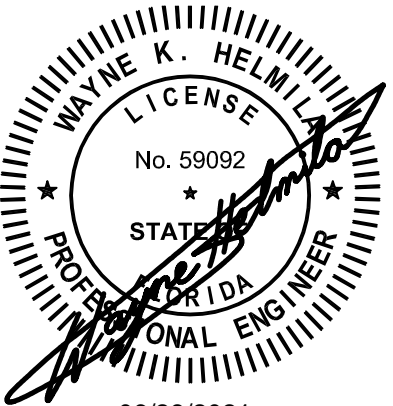
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°
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Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT12	
	Sheet: 12 of 29	

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Miami-Dade Product Control

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as complying with the Florida  
Building Code  
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Expiration Date 06/08/2022  
By   
Miami-Dade Product Control

**RICE**  
ENGINEERING

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Registration No: 59092



06/28/2021  
COA: 9090

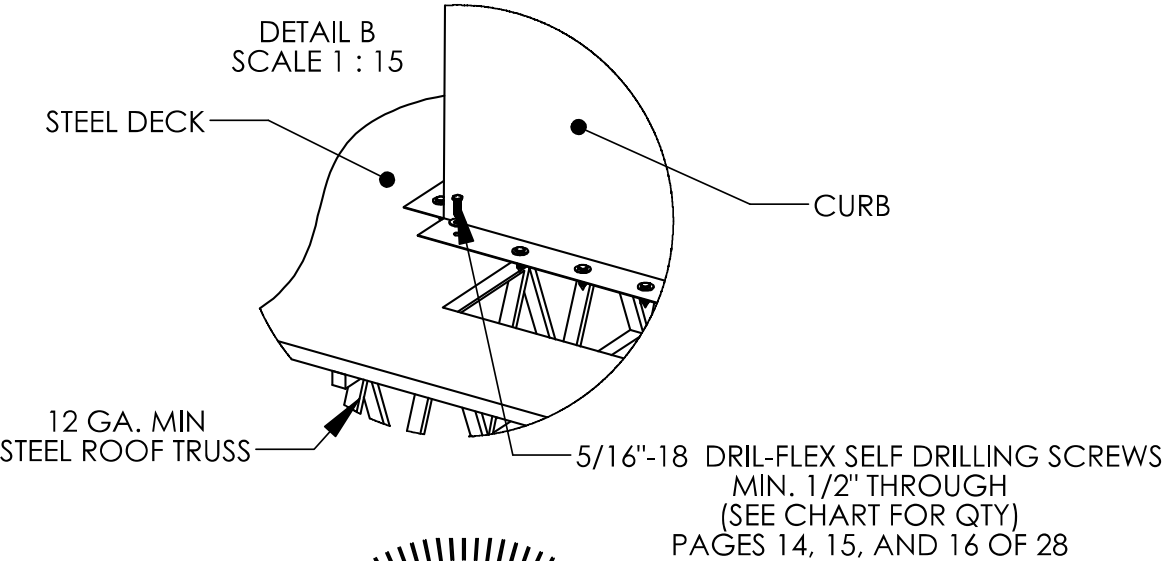
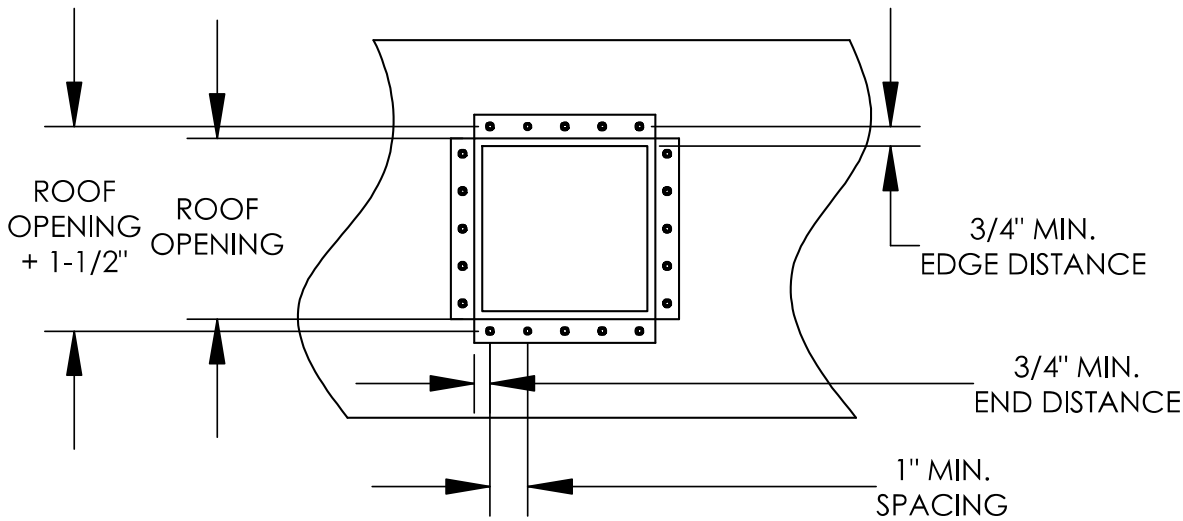
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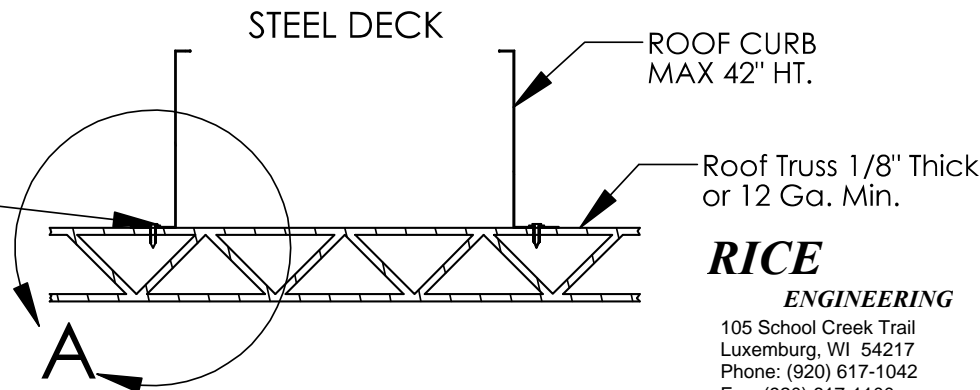
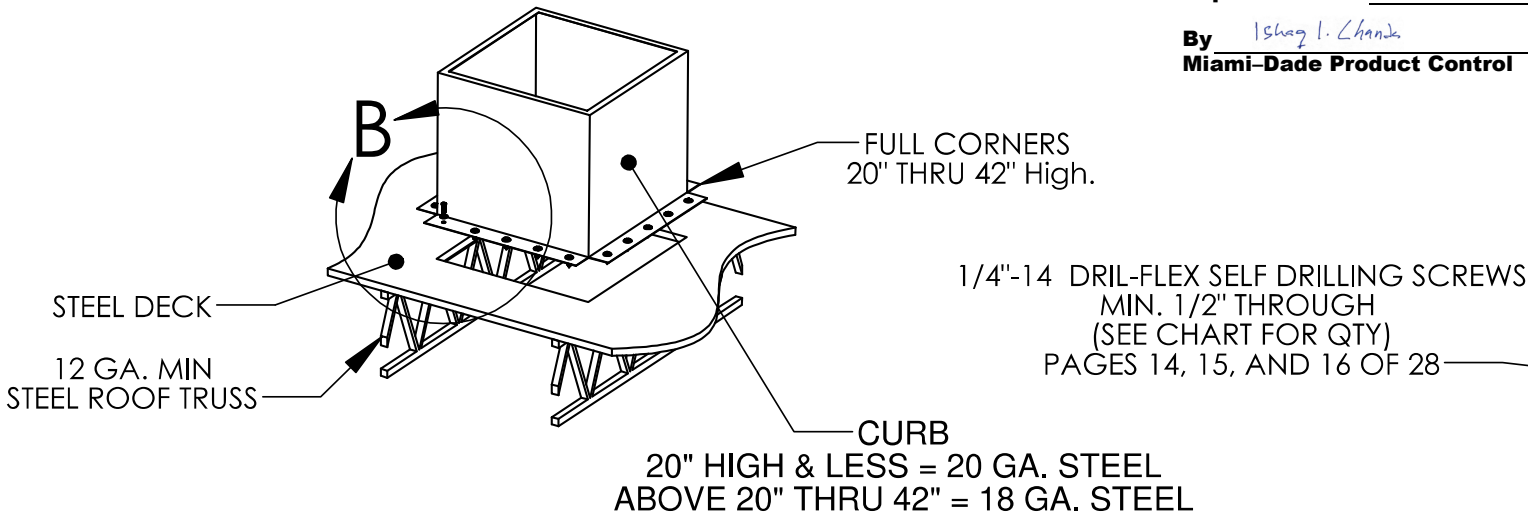
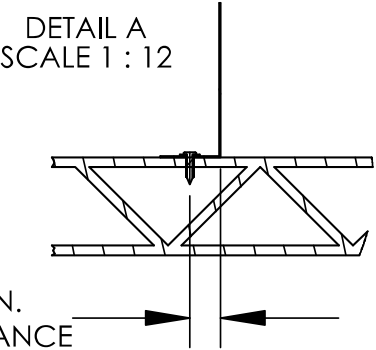
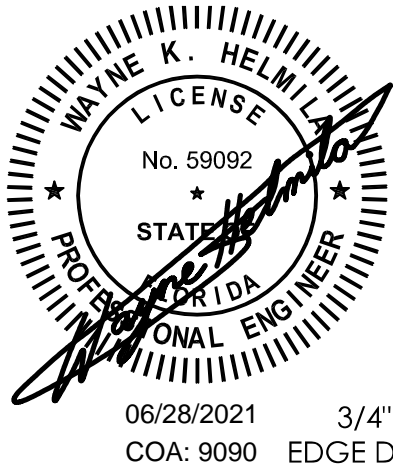
Miami-Dade County - Roof Curb  
Installation Guide For Steel Substrate

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Building Code  
NOA-No. 22-0412.06  
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By *R. J. Jones*  
Miami-Dade Product Control

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Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By *Ishaq I. Chank*  
Miami-Dade Product Control



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Registration No: 59092

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	<b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are:	
Weight: N/A lbs	Drawing Name: LP VENT	Fractions: ±1/16	
	Drawn By: J HESS	Decimal: .XX±.05	
	Drawing Number: VENT13	Angles: ±1°	
	Sheet: 13 of 29		


Miami-Dade County - Roof Curb  
Installation Guide For Steel Substrate - Fasteners  
Page 14 of 28

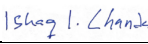
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		Steel		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	5	3	16
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	10	3	26
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	5	3	16
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
EGV16x36	24 X 44"	22.5 x 42.5"	3	12	5	3	16
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	6	3	18
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	6	3	18
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	5	3	16
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	6	3	18
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	3	3	12
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	3	18
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	3	3	12
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	5	3	16
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	3	3	12
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	5	3	16
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	4	4	16
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	3	3	12
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	4	4	16
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	4	4	16

SEE PAGE 29 FOR ALTERNATE BRANDS

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  - 3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

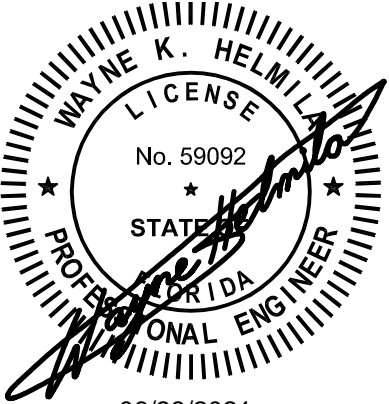
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT14	
	Sheet: 14 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°

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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  
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Miami-Dade County - Roof Curb  
Installation Guide For Steel Substrate - Fasteners  
Page 15 of 28

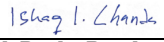
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK			
Unit Size	Base Size	Curb Size	Fasteners		Steel			
			Per Side	Total	Per Long Side	Per Short Side	Total	
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12	
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	5	3	16	
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	8	3	22	
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12	
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	4	3	14	
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12	
IGV16x30	24 X 38"	22.5 x 36.5"	3	12	5	3	16	
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12	
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	4	3	14	
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12	
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	6	3	18	
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12	
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	5	3	16	
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12	
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	5	3	16	
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16	
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	5	3	16	
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16	
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	5	3	16	
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16	
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	4	4	16	
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	4	4	16	
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	5	5	20	
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	5	5	20	

SEE PAGE 29 FOR ALTERNATE BRANDS

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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 x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT15	
	Sheet: 15 of 29	

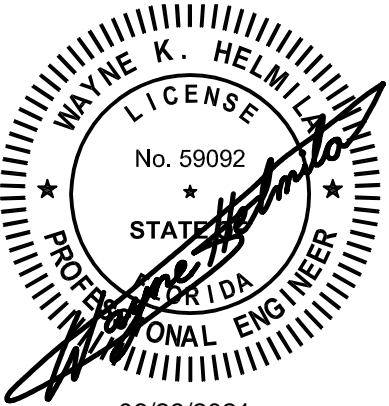
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Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
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Registration No: 59092



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# Miami-Dade County - Roof Curb

## Installation Guide For Steel Substrate - Fasteners

### Page 16 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO DECK		
Unit Size	Base Size	Curb Size	Fasteners		Steel		
			Per Side	Total	Per Long Side	Per Short Side	Total
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	3	3	12
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	4	3	14
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	6	3	18
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	9	3	24
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	4	4	16
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	5	3	16
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	7	3	20
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	8	3	22
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	3	3	12
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	4	3	14
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	6	3	18
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	7	3	20
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	4	4	16
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	5	4	18
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	7	3	20
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	8	3	22
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	4	4	16
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	5	4	18
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	7	4	22
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	8	4	24
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	5	5	20
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	6	4	20
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	7	4	22
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	9	4	26

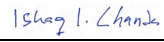
SEE PAGE 29 FOR ALTERNATE BRANDS

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT16	
	Sheet: 16 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°

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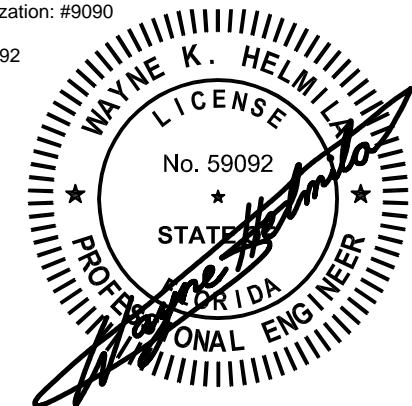
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NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
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Wayne K. Helmila  
Registration No: 59092



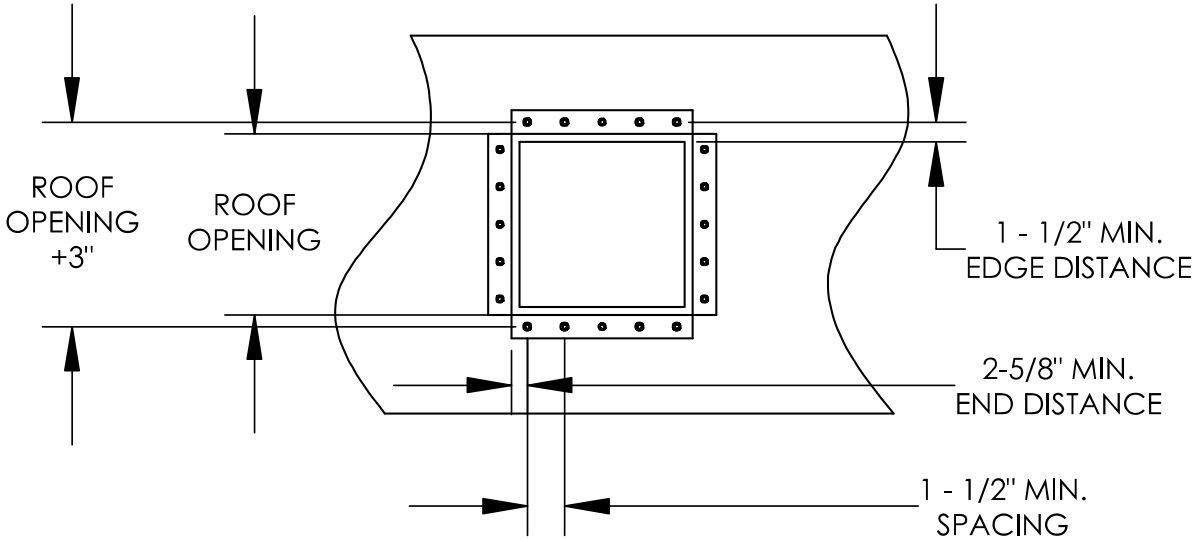
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COA: 9090

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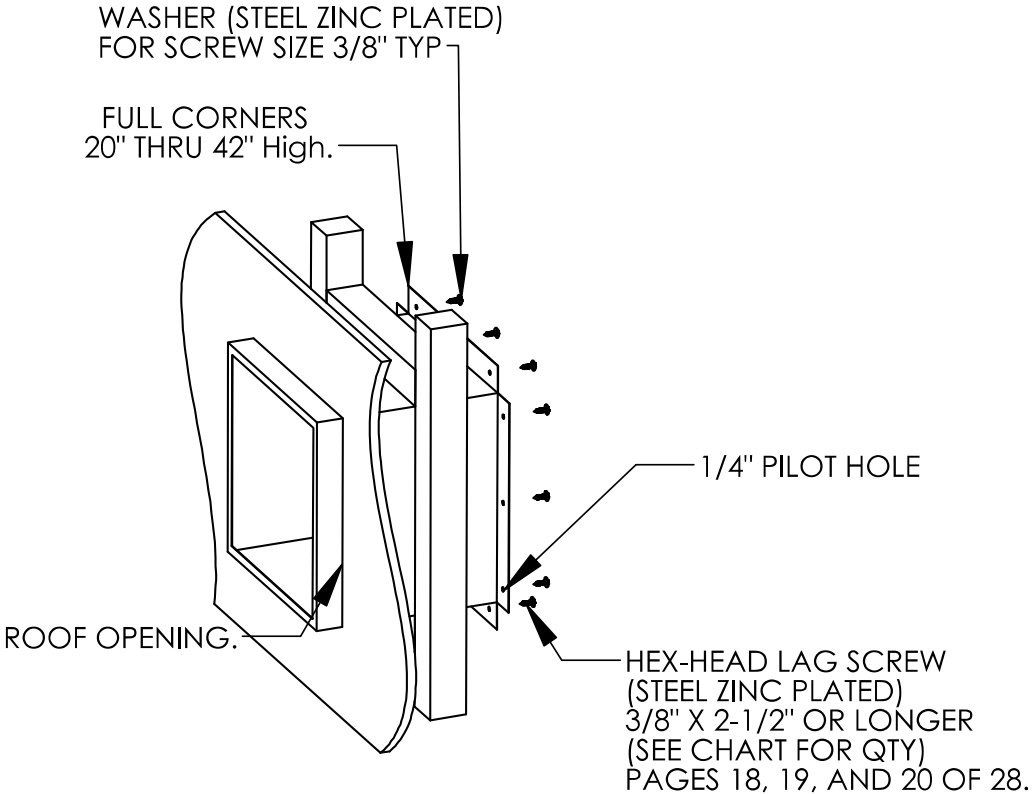
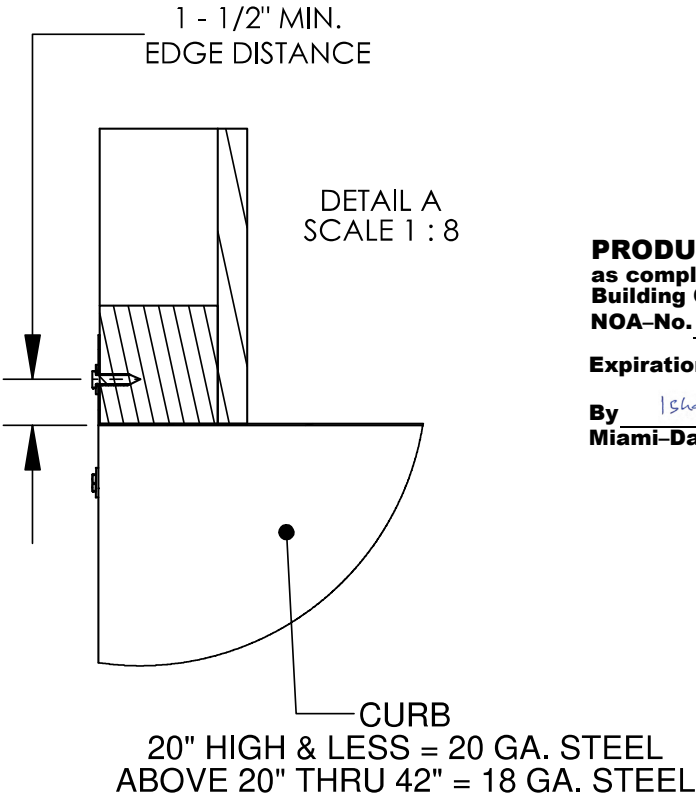
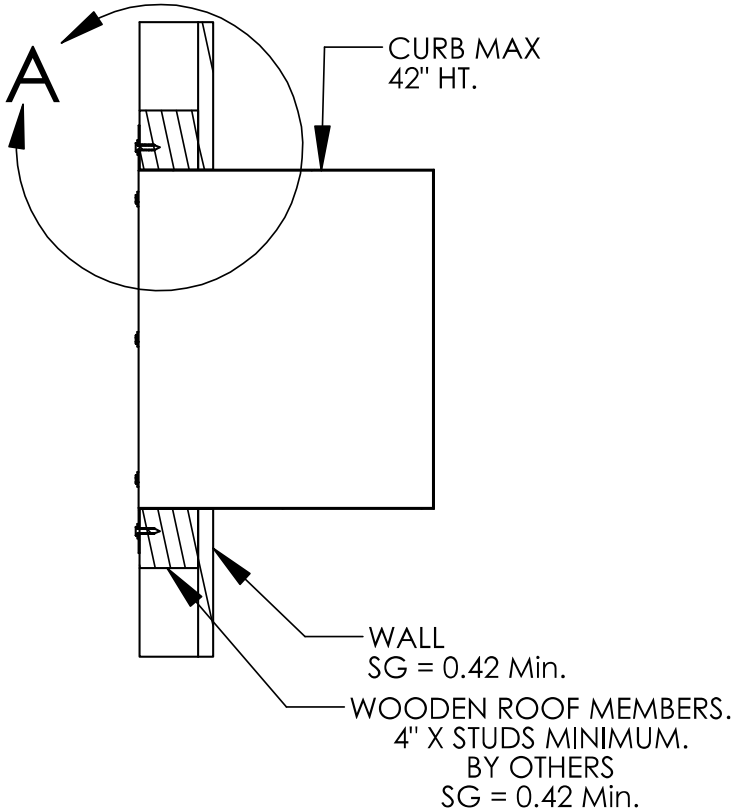


Miami-Dade County - Wall Curb  
Installation Guide For Wood Construction

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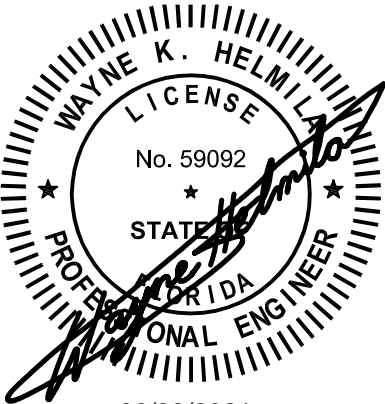
WOODEN CONSTRUCTION



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By Ishag I. Chande  
Miami-Dade Product Control

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06/28/2021  
COA: 9090

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are:	
Weight: N/A lbs	Drawing Name: LP VENT	Fractions: ±1/16	
	Drawn By: J HESS	Decimal: .XX±.05	
	Drawing Number: VENT17	.XX±.015	
	Sheet: 17 of 29	Angles: ±1°	




Miami-Dade County - Wall Curb  
Installation Guide For Wood Substrate - Fasteners  
Page 18 of 28

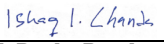
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	4	4	16
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	6	4	20
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	12	4	32
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	4	4	16
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	6	3	18
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	4	4	16
EGV16x36	24 X 44"	22.5 x 42.5"	3	12	7	4	22
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	4	4	16
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	8	4	24
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	4	4	16
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	9	4	26
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	4	4	16
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	8	4	24
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	5	5	20
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	10	5	30
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	5	5	20
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	10	6	32
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	5	5	20
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	10	6	32
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	6	6	24
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	10	7	34
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	6	6	24
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	6	6	24
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	7	7	28
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	8	8	32

SEE PAGE 29 FOR ALTERNATE BRANDS

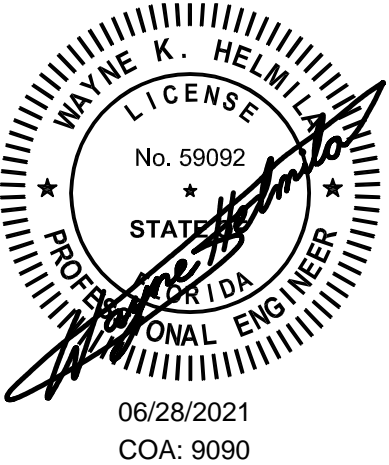
- Notes:
- 1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT18	
	Sheet: 18 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°

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Miami-Dade County - Wall Curb  
Installation Guide For Wood Substrate - Fasteners  
Page 19 of 28

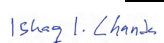
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	4	4	16
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	6	4	20
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	10	4	28
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	4	4	16
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	6	4	20
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	4	4	16
IGV16x30	24 X 38"	22.5 x 36.5"	3	12	7	4	22
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	5	5	20
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	7	5	24
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	5	5	20
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	10	5	30
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	5	5	20
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	8	5	26
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	5	5	20
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	9	5	28
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	6	6	24
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	10	6	32
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	6	6	24
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	10	6	32
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	6	6	24
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	8	8	32
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	8	8	32
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	8	8	32
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	10	10	40

SEE PAGE 29 FOR ALTERNATE BRANDS

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

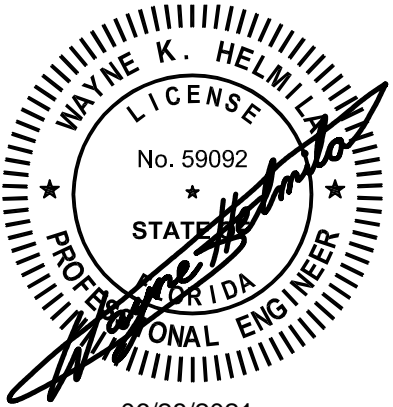
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: $\pm 1/16$ Decimal: $.XX \pm .05$ $.XX\bar{X} \pm .015$ Angles: $\pm 1^\circ$
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT19	
	Sheet: 19 of 29	

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# Miami-Dade County - Wall Curb

## Installation Guide For Wood Substrate - Fasteners

### Page 20 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		WOOD		
			Per Side	Total	Per Long Side	Per Short Side	Total
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	5	5	20
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	6	5	22
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	9	5	28
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	14	5	38
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	5	5	20
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	8	5	26
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	11	5	32
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	14	5	38
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	6	6	24
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	8	6	28
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	11	6	34
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	14	6	40
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	6	6	24
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	8	6	28
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	12	6	36
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	15	6	42
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	7	7	28
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	9	7	32
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	12	7	38
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	15	7	44
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	8	8	32
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	11	8	38
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	14	8	44
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	17	8	50

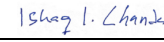
SEE PAGE 29 FOR ALTERNATE BRANDS

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

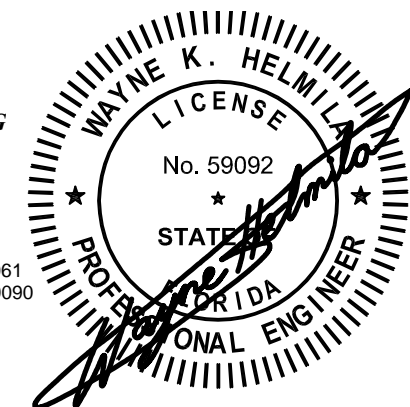
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.  Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT20	
	Sheet: 20 of 29	

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NOA-No. 21-0318.08  
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**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

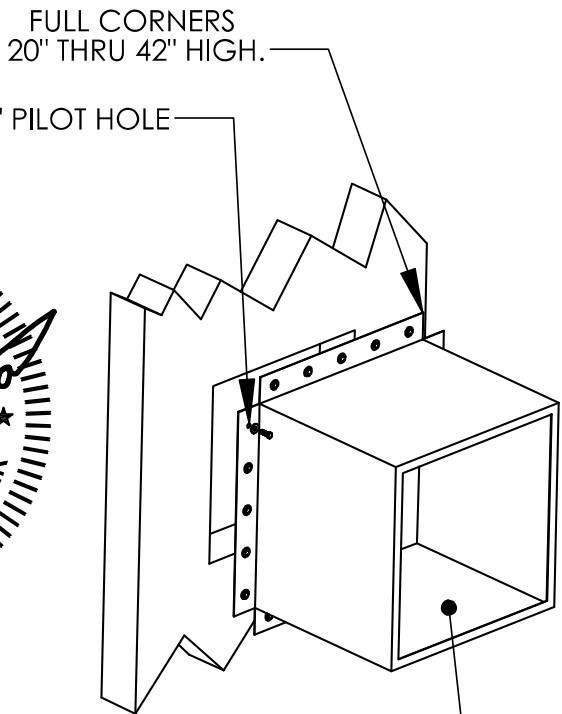
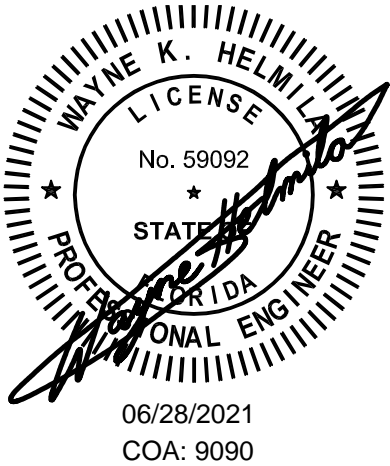
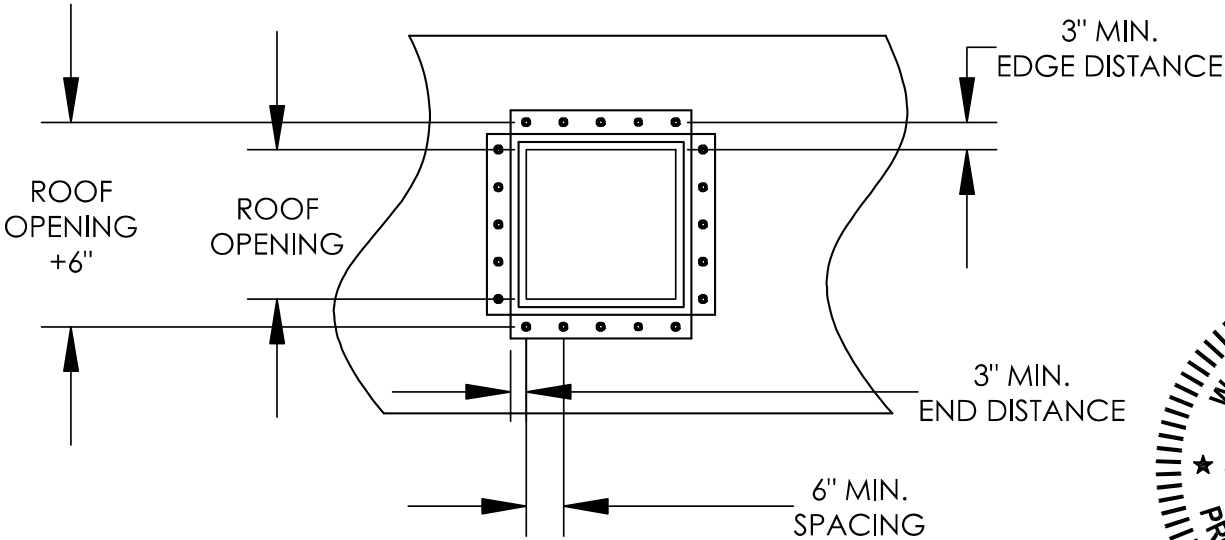
**CaptiveAire, Inc. commercial kitchen ventilation**  
4641 Paragon Park Road, Raleigh, NC 27616  
P 800.334.925 | F 919.227.5994

**CAPTIVEAIRE**  
THE PERFORMANCE COMPANY



# Miami-Dade County - Wall Curb Installation Guide For Concrete Construction

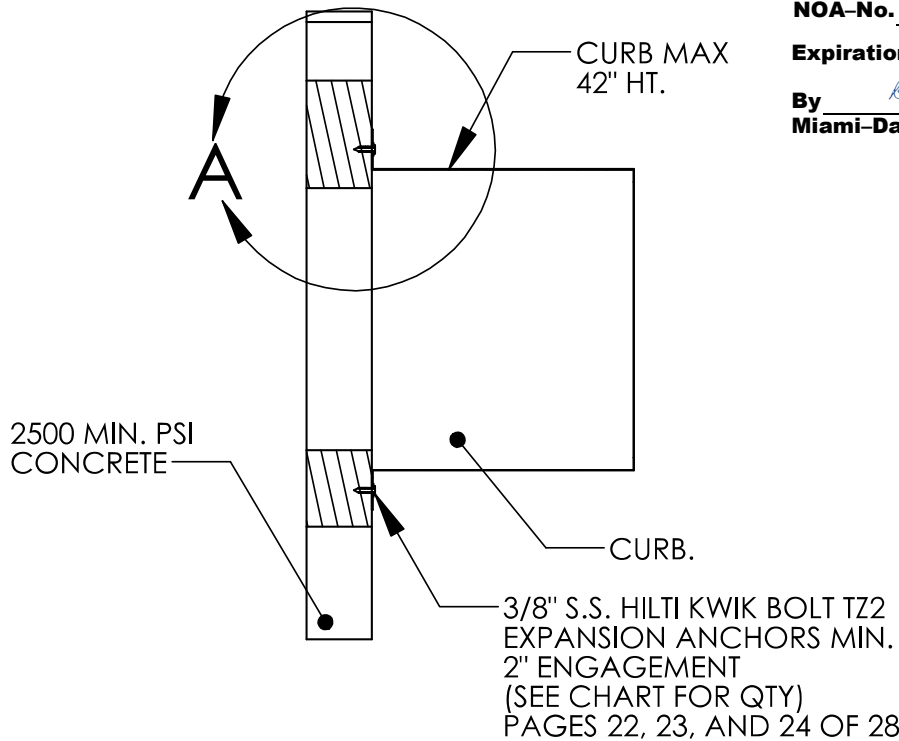
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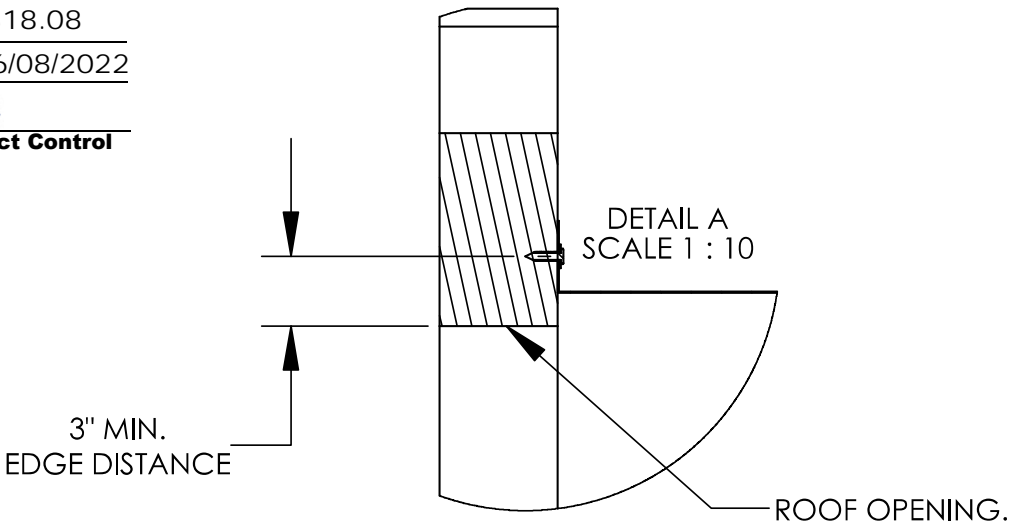
20" HIGH & LESS = 20 GA. STEEL  
ABOVE 20" THRU 42" = 18 GA. STEEL

## CONCRETE CONSTRUCTION



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Miami-Dade Product Control

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Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By *[Signature]*  
Miami-Dade Product Control



- Notes:
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  3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	<b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are:	
Weight: N/A lbs	Drawing Name: LP VENT	Fractions: $\pm 1/16$	
	Drawn By: J HESS	Decimal: $.XX \pm .05$	
	Drawing Number: VENT21	$.XXX \pm .015$	
	Sheet: 21 of 29	Angles: $\pm 1^\circ$	

Miami-Dade County - Wall Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 22 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	5	3	16
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	10	3	26
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	5	3	16
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
EGV16x36	24 X 44"	22.5 X 42.5"	3	12	5	3	16
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	6	3	18
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	6	3	18
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	5	3	16
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	6	3	18
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	3	3	12
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	3	18
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	6	3	18
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	6	4	20
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	4	4	16
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	4	4	16
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	5	5	20
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	5	5	20

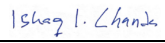
SEE PAGE 29 FOR ALTERNATE BRANDS

Notes:

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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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 x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT22	
	Sheet: 22 of 29	

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Miami-Dade Product Control

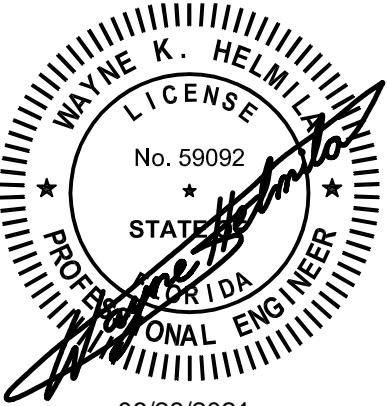
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as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By   
Miami-Dade Product Control

**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

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Miami-Dade County - Wall Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 23 of 28

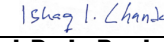
TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	5	3	16
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	8	3	22
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	4	3	14
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
IGV16x30	24 X 38"	22.5 X 36.5"	3	12	4	3	14
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	4	3	14
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	6	3	18
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	6	3	18
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	6	3	18
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	3	18
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	6	4	20
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	5	5	20
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	5	5	20
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	6	6	24
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	7	7	28

SEE PAGE 29 FOR ALTERNATE BRANDS

- Notes:
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  - 2. Tested for areas including high velocity hurricane zones.
  - 3. Tested under Miami-Dade County Notification number NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

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 x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT23	
	Sheet: 23 of 29	

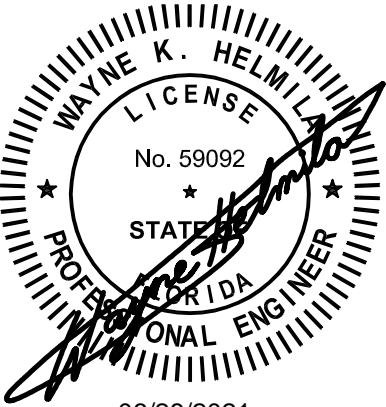
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Expiration Date 06/08/2027  
By   
Miami-Dade Product Control

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NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
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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

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



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COA: 9090

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Miami-Dade County - Wall Curb  
Installation Guide For Concrete Substrate - Fasteners  
Page 24 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		Concrete		
			Per Side	Total	Per Long Side	Per Short Side	Total
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	3	3	12
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	4	3	14
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	6	3	18
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	9	3	24
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	3	3	12
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	5	3	16
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	6	3	18
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	8	3	22
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	3	3	12
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	4	3	14
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	6	3	18
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	8	3	22
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	4	4	16
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	5	4	18
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	7	3	20
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	10	4	28
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	4	4	16
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	5	4	18
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	7	4	22
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	10	4	28
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	5	5	20
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	5	4	18
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	5	3	16
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	6	3	18

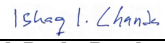
SEE PAGE 29 FOR ALTERNATE BRANDS

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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 .XX±.015 Angles: ±1°
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Weight: N/A lbs	Drawing Name: LP VENTS	
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	Drawing Number: VENT24	
	Sheet: 24 of 29	

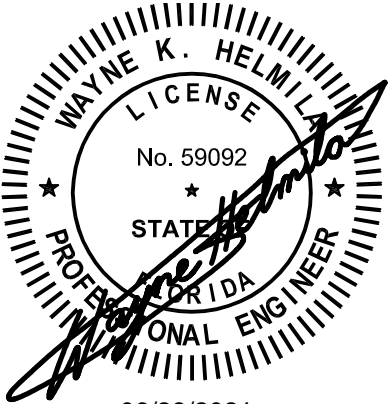
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By   
Miami-Dade Product Control

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**RICE**  
ENGINEERING

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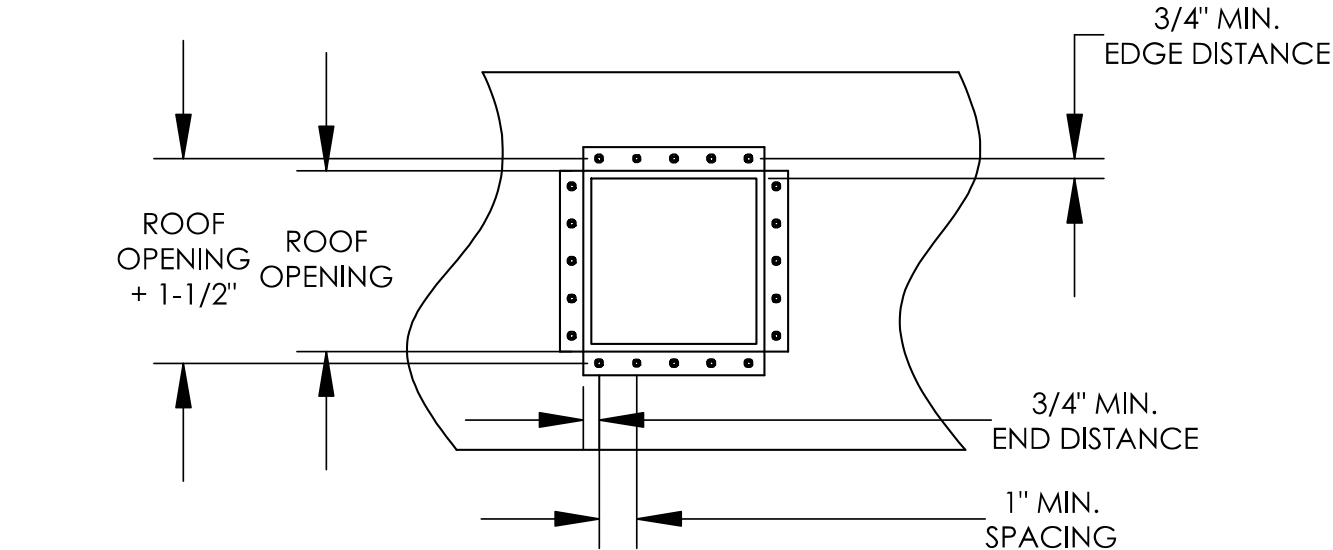
06/28/2021  
COA: 9090

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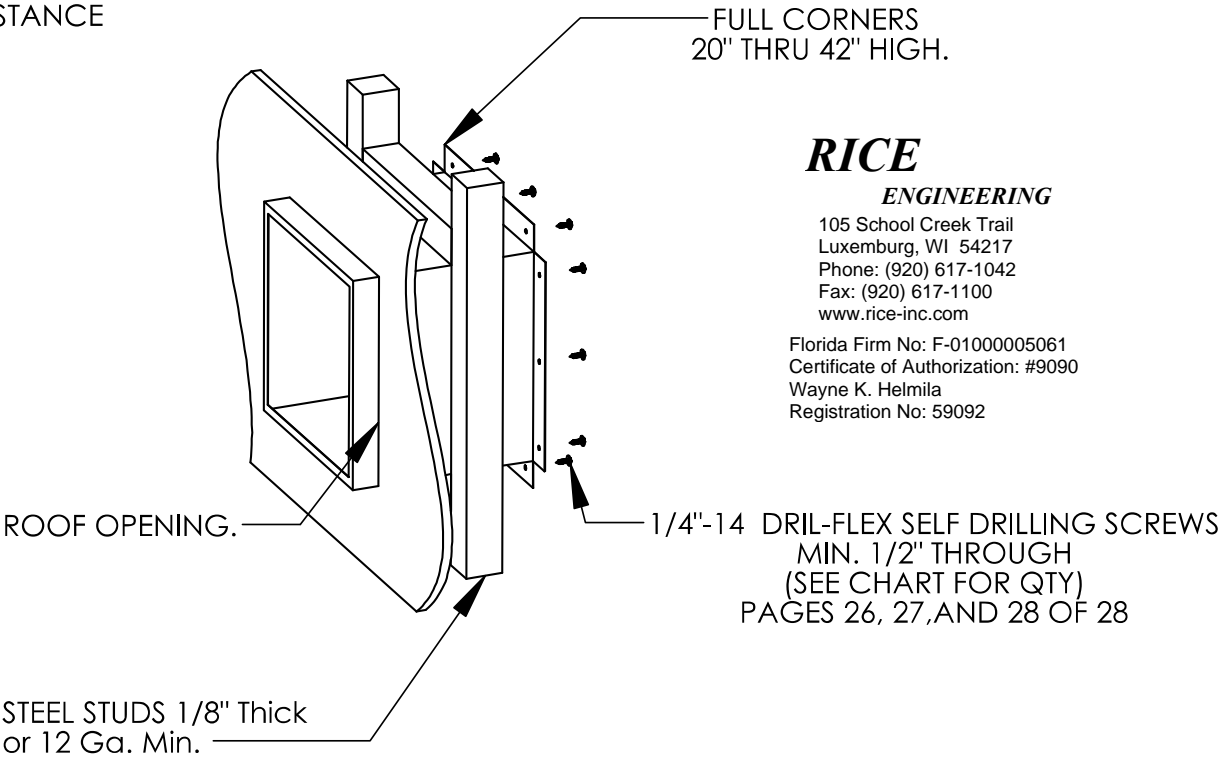
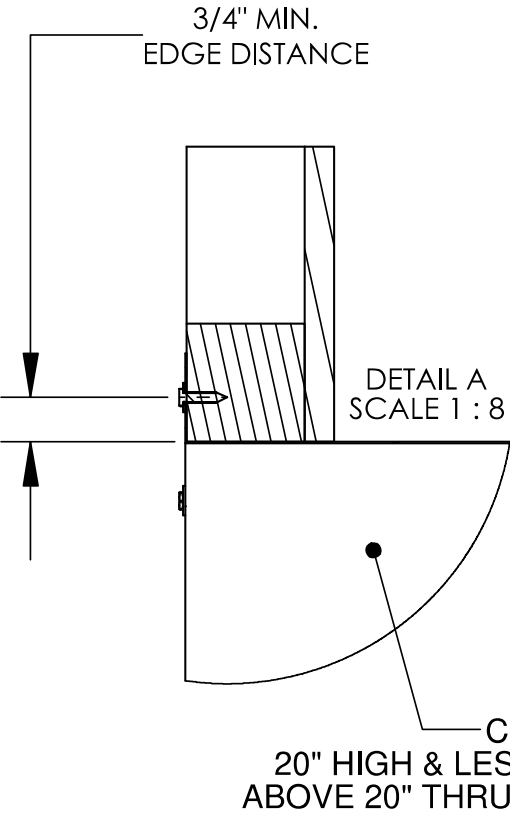
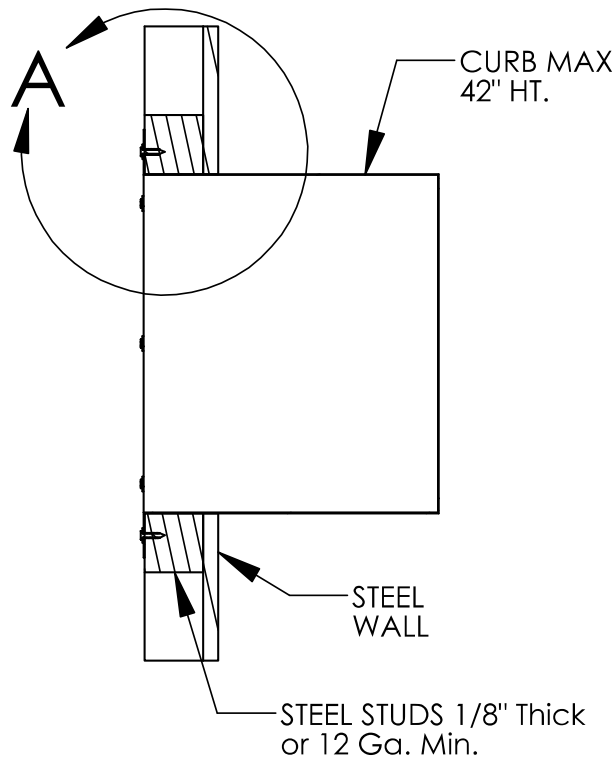


Miami-Dade County - Wall Curb  
Installation Guide For Steel Construction

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4641 Paragon Park Road, Raleigh, NC 27616  
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STEEL CONSTRUCTION

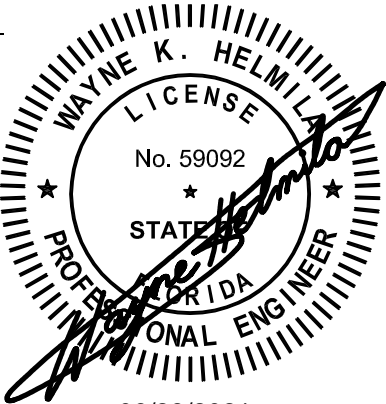


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Luxemburg, WI 54217  
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COA: 9090

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Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	<b>CAPTIVEAIRE</b> THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are:	
Weight: N/A lbs	Drawing Name: LP VENT	Fractions: ±1/16	
	Drawn By: J HESS	Decimal: .XX±.05	
	Drawing Number: VENT25	.XX±.015	
	Sheet: 25 of 29	Angles: ±1°	



Miami-Dade County - Wall Curb
Installation Guide For Steel Substrate - Fasteners
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TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		STEEL		
			Per Side	Total	Per Long Side	Per Short Side	Total
EGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
EGV12x24	20 X 32"	18.5 X 30.5"	3	12	5	3	16
EGV12x54	20 X 62"	18.5 X 60.5"	3	12	10	3	26
EGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
EGV14x30	22 X 38"	20.5 X 36.5"	3	12	5	3	16
EGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
EGV16x36	24 X 44"	22.5 x 42.5"	3	12	5	3	16
EGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
EGV18x42	26 X 50"	24.5 X 48.5"	3	12	6	3	18
EGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
EGV20x48	28 X 56"	26.5 X 54.5"	3	12	6	3	18
EGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
EGV22x48	30 X 56"	28.5 X 54.5"	3	12	5	3	16
EGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
EGV24x54	32 X 62"	30.5 X 60.5"	3	12	6	3	18
EGV28x28	36 X 36"	34.5 X 34.5"	3	12	3	3	12
EGV28x54	36 X 62"	34.5 X 60.5"	3	12	6	3	18
EGV30x30	38 X 38"	36.5 X 36.5"	3	12	3	3	12
EGV30x54	38 X 62"	36.5 X 60.5"	3	12	5	3	16
EGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
EGV36x54	44 X 62"	42.5 X 60.5"	3	12	5	3	16
EGV40x42	48 X 50"	46.5 X 48.5"	3	12	4	4	16
EGV42x42	50 X 50"	48.5" X 48.5"	3	12	4	4	16
EGV48x48	56 X 56"	54.5 X 54.5"	4	16	4	4	16
EGV54x54	62 X 62"	60.5 X 60.5"	5	20	5	5	20

SEE PAGE 29 FOR ALTERNATE BRANDS

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

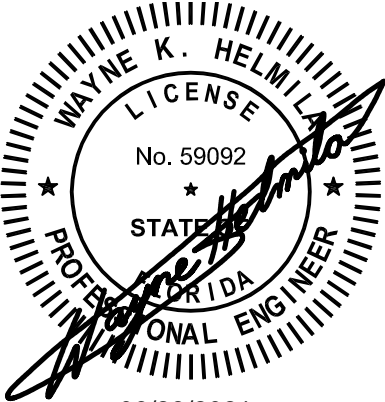
Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT26	
	Sheet: 26 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°

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By [Signature]  
Miami-Dade Product Control

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as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
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



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





Miami-Dade County - Wall Curb  
Installation Guide For Steel Substrate - Fasteners  
Page 27 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL		
Unit Size	Base Size	Curb Size	Fasteners		STEEL		
			Per Side	Total	Per Long Side	Per Short Side	Total
IGV12x12	20 X 20"	18.5 X 18.5"	3	12	3	3	12
IGV12x22	20 X 30"	18.5 X 28.5"	3	12	5	3	16
IGV12x42	20 X 50"	18.5 X 48.5"	3	12	8	3	22
IGV14x14	22 X 22"	20.5 X 20.5"	3	12	3	3	12
IGV14x22	22 X 30"	20.5 X 28.5"	3	12	4	3	14
IGV16x16	24 X 24"	22.5 X 22.5"	3	12	3	3	12
IGV16x30	24 X 38"	22.5 x 36.5"	3	12	5	3	16
IGV18x18	26 X 26"	24.5 X 24.5"	3	12	3	3	12
IGV18x30	26 X 38"	24.5 X 36.5"	3	12	4	3	14
IGV20x20	28 X 28"	26.5 X 26.5"	3	12	3	3	12
IGV20x42	28 X 50"	26.5 X 48.5"	3	12	6	3	18
IGV22x22	30 X 30"	28.5 X 28.5"	3	12	3	3	12
IGV22x42	30 X 50"	28.5 X 48.5"	3	12	5	3	16
IGV24x24	32 X 32"	30.5 X 30.5"	3	12	3	3	12
IGV24x48	32 X 56"	30.5 X 54.5"	3	12	6	3	18
IGV28x28	36 X 36"	34.5 X 34.5"	3	12	4	4	16
IGV28x54	36 X 62"	34.5 X 60.5"	3	12	5	3	16
IGV30x30	38 X 38"	36.5 X 36.5"	3	12	4	4	16
IGV30x54	38 X 62"	36.5 X 60.5"	4	16	6	3	18
IGV36x36	44 X 44"	42.5 X 42.5"	3	12	4	4	16
IGV40x40	48 X 48"	46.5 X 46.5"	4	16	4	4	16
IGV42x42	50 X 50"	48.5 X 48.5"	4	16	5	5	20
IGV48x48	56 X 56"	54.5 X 54.5"	6	24	5	5	20
IGV54x54	62 X 62"	60.5 X 60.5"	7	28	6	6	24

SEE PAGE 29 FOR ALTERNATE BRANDS

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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT27	
	Sheet: 27 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°



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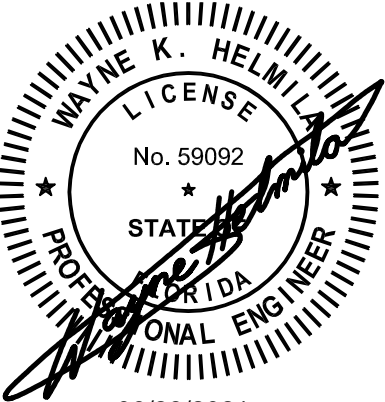
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0318.08  
Expiration Date 06/08/2022  
By Ishaq I. Chanda  
Miami-Dade Product Control

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Expiration Date 06/08/2027  
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



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

Miami-Dade County - Wall Curb  
Installation Guide For Steel Substrate - Fasteners  
Page 28 of 28


TABLE A: GRAVITY VENT TO CURB					TABLE B: CURB TO WALL			
Unit Size	Base Size	Curb Size	Fasteners		STEEL			
			Per Side	Total	Per Long Side	Per Short Side	Total	
LGVN/LGVX12x12-5	20 X 20"	18.5 X 18.5"	3	12	3	3	12	
LGVN/LGVX12x18-5	20 X 26"	18.5 X 24.5"	3	12	4	3	14	
LGVN/LGVX12x30-5	20 X 38"	18.5 X 36.5"	3	12	6	3	18	
LGVN/LGVX12x48-5	20 X 56"	18.5 X 54.5"	3	12	9	3	24	
LGVN/LGVX14x14-6	22 X 22"	20.5 X 20.5"	3	12	4	4	16	
LGVN/LGVX14x24-6	22 X 32"	20.5 X 30.5"	3	12	5	3	16	
LGVN/LGVX14x36-6	22 X 44"	20.5 X 42.5"	3	12	7	3	20	
LGVN/LGVX14x48-6	22 X 56"	20.5 X 54.5"	3	12	8	3	22	
LGVN/LGVX16x16-6	24 X 24"	22.5 X 22.5"	3	12	4	4	16	
LGVN/LGVX16x24-6	24 X 32"	22.5 X 30.5"	3	12	5	4	18	
LGVN/LGVX16x36-6	24 X 44"	22.5 X 42.5"	3	12	6	3	18	
LGVN/LGVX16x48-6	24 X 56"	22.5 X 54.5"	3	12	8	3	22	
LGVN/LGVX18x18-7	26 X 26"	24.5 X 24.5"	3	12	4	4	16	
LGVN/LGVX18x24-7	26 X 32"	24.5 X 30.5"	3	12	5	4	18	
LGVN/LGVX18x42-7	26 X 50"	24.5 X 48.5"	3	12	7	3	20	
LGVN/LGVX18x54-7	26 X 62"	24.5 X 60.5"	3	12	10	4	28	
LGVN/LGVX20x20-8	28 X 28"	26.5 X 26.5"	3	12	5	5	20	
LGVN/LGVX20x30-8	28 X 38"	26.5 X 36.5"	3	12	6	4	20	
LGVN/LGVX20x42-8	28 X 50"	26.5 X 48.5"	3	12	7	4	22	
LGVN/LGVX20x54-8	28 X 62"	26.5 X 60.5"	4	16	10	4	28	
LGVN/LGVX24x24-9	32 X 32"	30.5 X 30.5"	3	12	5	5	20	
LGVN/LGVX24x36-9	32 X 44"	30.5 X 42.5"	3	12	6	4	20	
LGVN/LGVX24x48-9	32 X 56"	30.5 X 54.5"	4	16	8	4	24	
LGVN/LGVX24x60-9	32 X 68"	30.5 X 66.5"	5	20	9	4	26	

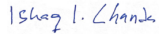
SEE PAGE 29 FOR ALTERNATE BRANDS

- 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 NCTL 18860-1, 18860-2, 18860-3, 18860-4, 18860-5, 18860-6, 18860-7, 18860-8

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	
Weight: N/A lbs	Drawing Name: LP VENTS	
	Drawn By: J HESS	
	Drawing Number: VENT28	
	Sheet: 28 of 29	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XX±.015 Angles: ±1°



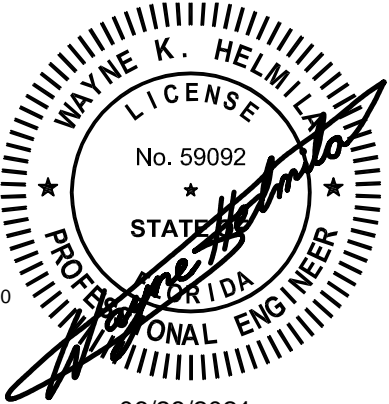
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Building Code  
NOA-No. 22-0412.06  
Expiration Date 06/08/2027  
By   
Miami-Dade Product Control

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By   
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  
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Wayne K. Helmila  
Registration No: 59092



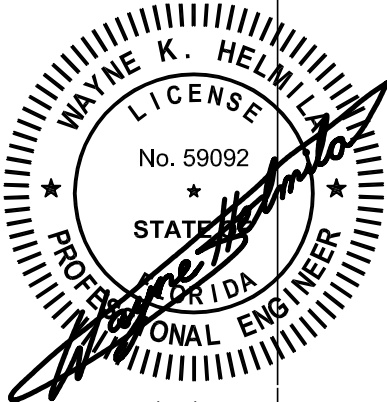
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COA: 9090

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P 800.334.925 | F 919.227.5994

ALTERNATE BRANDS

EXHAUST GRAVITY VENTS		INTAKE GRAVITY VENTS		LOUVERED GRAVITY VENTS	
CAS FAN MODEL	RUPP FAN MODEL	CAS FAN MODEL	RUPP FAN MODEL	CAS FAN MODEL	RUPP FAN MODEL
EGV12x12	EGV12x12-RA	IGV12x12	IGV12x12-RA	LGVN/LGVX12x12-5	LGVN/LGVX12x12-5-RA
EGV12x24	EGV12x24-RA	IGV12x22	IGV12x22-RA	LGVN/LGVX12x18-5	LGVN/LGVX12x18-5-RA
EGV12x54	EGV12x54-RA	IGV12x42	IGV12x42-RA	LGVN/LGVX12x30-5	LGVN/LGVX12x30-5-RA
EGV14x14	EGV14x14-RA	IGV14x14	IGV14x14-RA	LGVN/LGVX12x48-5	LGVN/LGVX12x48-5-RA
EGV14x30	EGV14x30-RA	IGV14x22	IGV14x22-RA	LGVN/LGVX14x14-6	LGVN/LGVX14x14-6-RA
EGV16x16	EGV16x16-RA	IGV16x16	IGV16x16-RA	LGVN/LGVX14x24-6	LGVN/LGVX14x24-6-RA
EGV16x36	EGV16x36-RA	IGV16x30	IGV16x30-RA	LGVN/LGVX14x36-6	LGVN/LGVX14x36-6-RA
EGV18x18	EGV18x18-RA	IGV18x18	IGV18x18-RA	LGVN/LGVX14x48-6	LGVN/LGVX14x48-6-RA
EGV18x42	EGV18x42-RA	IGV18x30	IGV18x30-RA	LGVN/LGVX16x16-6	LGVN/LGVX16x16-6-RA
EGV20x20	EGV20x20-RA	IGV20x20	IGV20x20-RA	LGVN/LGVX16x24-6	LGVN/LGVX16x24-6-RA
EGV20x48	EGV20x48-RA	IGV20x42	IGV20x42-RA	LGVN/LGVX16x36-6	LGVN/LGVX16x36-6-RA
EGV22x22	EGV22x22-RA	IGV22x22	IGV22x22-RA	LGVN/LGVX16x48-6	LGVN/LGVX16x48-6-RA
EGV22x48	EGV22x48-RA	IGV22x42	IGV22x42-RA	LGVN/LGVX18x18-7	LGVN/LGVX18x18-7-RA
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EGV40x42	EGV40x42-RA	IGV42x42	IGV42x42-RA	LGVN/LGVX24x36-9	LGVN/LGVX24x36-9-RA
EGV42x42	EGV42x42-RA	IGV48x48	IGV48x48-RA	LGVN/LGVX24x48-9	LGVN/LGVX24x48-9-RA
EGV48x48	EGV48x48-RA	IGV54x54	IGV54x54-RA	LGVN/LGVX24x60-9	LGVN/LGVX24x60-9-RA
EGV54x54	EGV54x54-RA	N/A		N/A	

RICE  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
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06/28/2021  
COA: 9090

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Miami-Dade Product Control

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Expiration Date 06/08/2022  
By [Signature]  
Miami-Dade Product Control

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

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/AX Number: N/A	
Weight: N/A	Drawing Name: LP Vents	
CONFIDENTIAL	Drawn By: JJH	
	Parent Assembly: VENTS 29	
Sheet: 29 of 29		