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 DU, NCA, DR, DD, DDAR and DMUA Aluminum Rooftop Fans

APPROVAL DOCUMENT: Drawing No. **EXHAUST**, titled "Upblast/Downblast/Curb", sheets 1 through 12 of 12, dated 08/25/2008, with revision 5 dated 05/06/2015, prepared by CaptiveAire Systems, Inc, signed and sealed by L. David Rice, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

LIMITATION: 1) These fans cannot be installed within the ridge area FBC 1523.6.5.2.13.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA # 14-0110.04** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

09/30/2015

NOA No. 14-0722.16
Expiration Date: March 4, 2019
Approval Date: October 8, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **EXHAUST**, titled "Upblast/Downblast/Curb", sheets 1 through 12 of 12, dated 08/25/2008, with revision 5 dated 05/06/2015, prepared by CaptiveAire Systems, Inc, signed and sealed by L. David Rice, P.E.

B. TESTS

1. Test reports on Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of Centrifugal Upblast Roof Mounted Exhaust Fans (Model NCA36FA), prepared by Intertek/Architectural Testing, Inc., Test Report No. **E6374.01-109-18**, dated 04/16/2015, signed and sealed by Michael D. Stremmel, P.E.
2. Test reports on Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of Centrifugal Downblast Roof Mounted Exhaust Fans (Model DD36FA), prepared by Intertek/Architectural Testing, Inc., Test Report No. **E6373.01-109-18**, dated 04/16/2015, signed and sealed by Michael D. Stremmel, 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 Motorized Exhaust Vent (Model DU10), prepared by Architectural Testing, Inc., Test Report No. **E1562.01-109-18**, dated 11/13/2014, signed and sealed by Michael D. Stremmel, P.E.

   "Submitted under NOA # 08-1124.09"
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 Series/Model HRE-24, high velocity roof fan, BI-36CARM, roof mounted exhaust fan and A5-925, modular down discharge blower, prepared by Architectural Testing, Inc., Test Report No. **83747.01-109-18**, dated 10/15/2008, with Revision 1 dated 01/06/2009, signed and sealed by Michael D. Stremmel, P.E.

09/30/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0722.16
Expiration Date: March 4, 2019
Approval Date: October 8, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations prepared by Rice Engineering, dated 08/07/2015, signed and sealed by L. David Rice, P.E.

   "Submitted under NOA # 14-0110.04"

2. Anchor verification calculations, prepared by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.

   "Submitted under NOA # 08-1124.09"

3. Anchor verification calculations, prepared by Rice Engineering, dated 11/12/2008, with revision dated 01/20/2008, 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

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 08/07/2015, signed and sealed by L. David Rice, P.E.

   "Submitted under NOA # 13-0219.01"

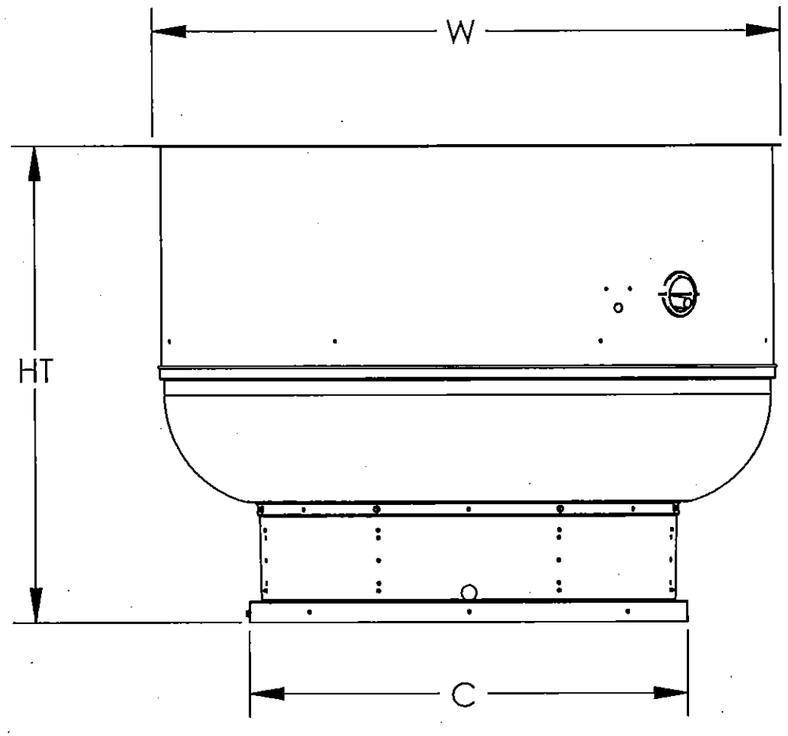
2. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.
3. Statement letter of no financial interest issued by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.

09/30/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0722.16
Expiration Date: March 4, 2019
Approval Date: October 8, 2015

Dimensional Data - Upblast Aluminum Fans

Revision History				
#	Description	Revised by	ECN#	Date
0	Testing TAS - 201, 202, 203	N Perry	1446	8/25/08
1	Changes Per Dade County	N Perry	1446	12/30/08
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added DU/DR Models	J Hess	2661	6/24/14
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15



DESIGN PRESSURE: +150.0 / -150.0 PSF

LARGE MISSILE IMPACT RESISTANT

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

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, TAS100 (A)-95.

FAN MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
DU10	14-1/2	17-3/4	19	30
DU12	18	22	19	40
DU25	25-1/4	25-1/2	21	50
DU30	25-1/4	25-1/2	21	50
DU33	25-1/4	25-1/2	21	50
DU50	27-1/4	28-7/8	21	55
DU75	30-1/2	31-7/8	24-3/4	60
DU85	30-1/2	31-7/8	24-3/4	60
DU180	33-3/4	39-3/8	28	190
DU200	33-3/4	38-7/8	28	195
DU240	37-1/2	43 3/8	33	270
DU300	40	52-3/4	40	410
DU360	45-9/16	63-7/16	44	470
NCA08	25-1/4	27-1/4	21	105
NCA10	27-1/4	30-1/4	21	120
NCA14	30-1/2	33-3/4	24-3/4	140
NCA16	33-3/4	39-3/8	28	190
NCA18	33-3/4	38-7/8	28	195
NCA24	37-1/2	43 3/8	33	270
NCA30	40	52-3/4	40	410
NCA36	45-9/16	63-7/16	44	470

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0722.16
Expiration Date 03/04/2019
By _____
Miami Dade Product Control

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone 920.845 1042
Fax 920 845 1048
www.rice-inc.com

Florida Firm No F-01000005061
Certificate of Authorization: #9090
L David Rice
Registration No: 50923

L. DAVID RICE LICENSE No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

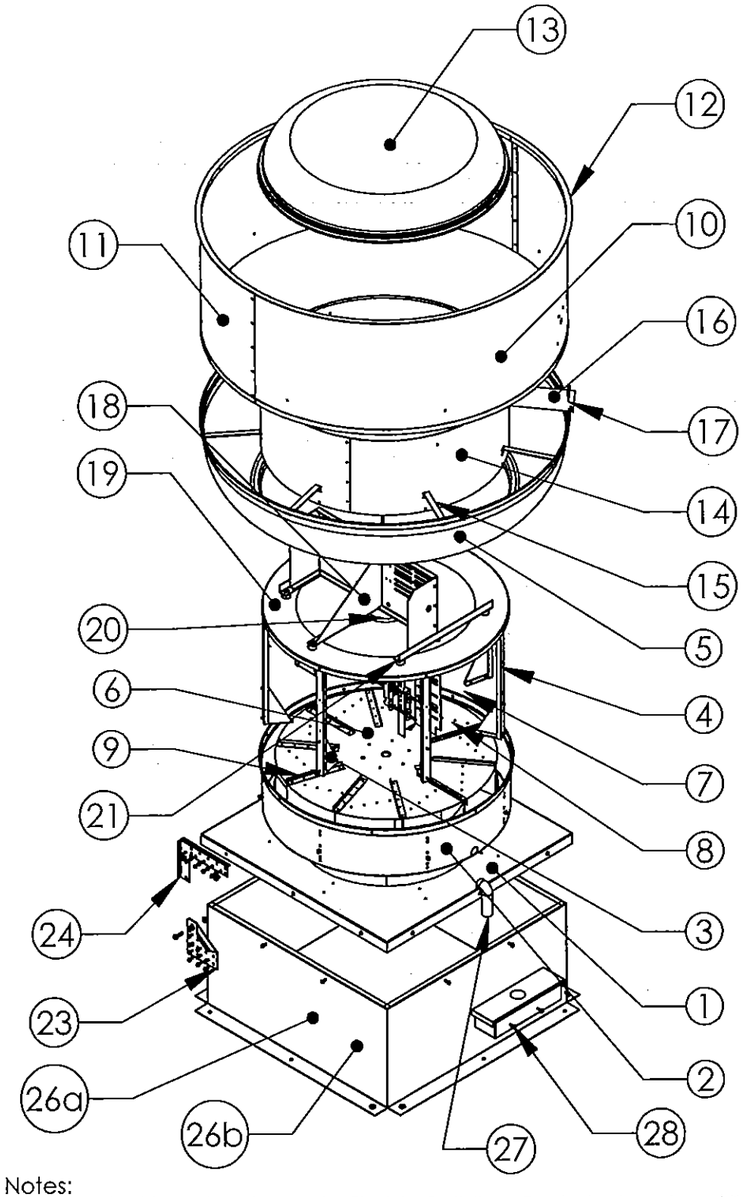
AUG 0 7 2015

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.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Toleranes are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: UPBLAST		
	Drawn By: N Perry		
	Drawing Number: EXHAUST01		
	Sheet: 1 of 12		

Exploded Material View - Upblast Aluminum Fans

Revision History				
#	Description	Revised by	ECN#	Date
0	Testing TAS - 201, 202, 203	N Perry	1446	8/25/08
1	Changes Per Dade County	N Perry	1446	12/30/08
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added DU/DR Models	J Hess	2661	6/24/14
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15



Item Number	Description	Material
1	Base	16 Ga Galvanized G90
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized G90
4	Vertical Support	12 Ga Galvanized G90
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top (Not Shown)	14 Ga Galvanized G90
7	Wheel Blade Bottom	.100 Aluminum 3003-0
8	Wheel Primary Blade	.125 Aluminum 5052-H32
9	Wheel Secondary Blade (Not Shown)	.064 Aluminum 5052-H32
10	Top Skirt A	.080 Aluminum 1100-H14
11	Top Skirt B	.080 Aluminum 1100-H14
12	Angle Ring	1/8 X 1 X 1 Aluminum Angle Ring
13	Hood	.064 Aluminum 1100-H14
14	Shaft Wrapper	.080 Aluminum 1100-H14
15	Horizontal Braces	.125 Aluminum 5052-H32
16	Cooling Tube	.080 Aluminum Extrusion
17	Cooling Tube Grommet	Black Rubber
18	Motor Plate Assembly	10 Ga Galvanized G90
19	Top Plate	14 Ga Galvanized G90
20	Shaft (Not Shown)	1018 Steel
21	Vibration Isolators	Black Rubber
22	Fan Plate Left (Hinge Kit)	10 Ga Galvanized G90
23	Curb Plate Left (Hinge Kit)	10 Ga Galvanized G90
24	Fan Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized G90
25	Curb Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized G90
26a	Curb (Up to 20" Height)	20 Ga. Steel
26b	Curb (Above 20", Max of 42" Height)	16 Ga. Steel
27	Grease Down Spout	Aluminum Colored Vinyl
28	Grease Box	18 Ga Galvanized G90

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

PRODUCT REVISED
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RICE ENGINEERING
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Fax 920.845 1048
www.rice-inc.com

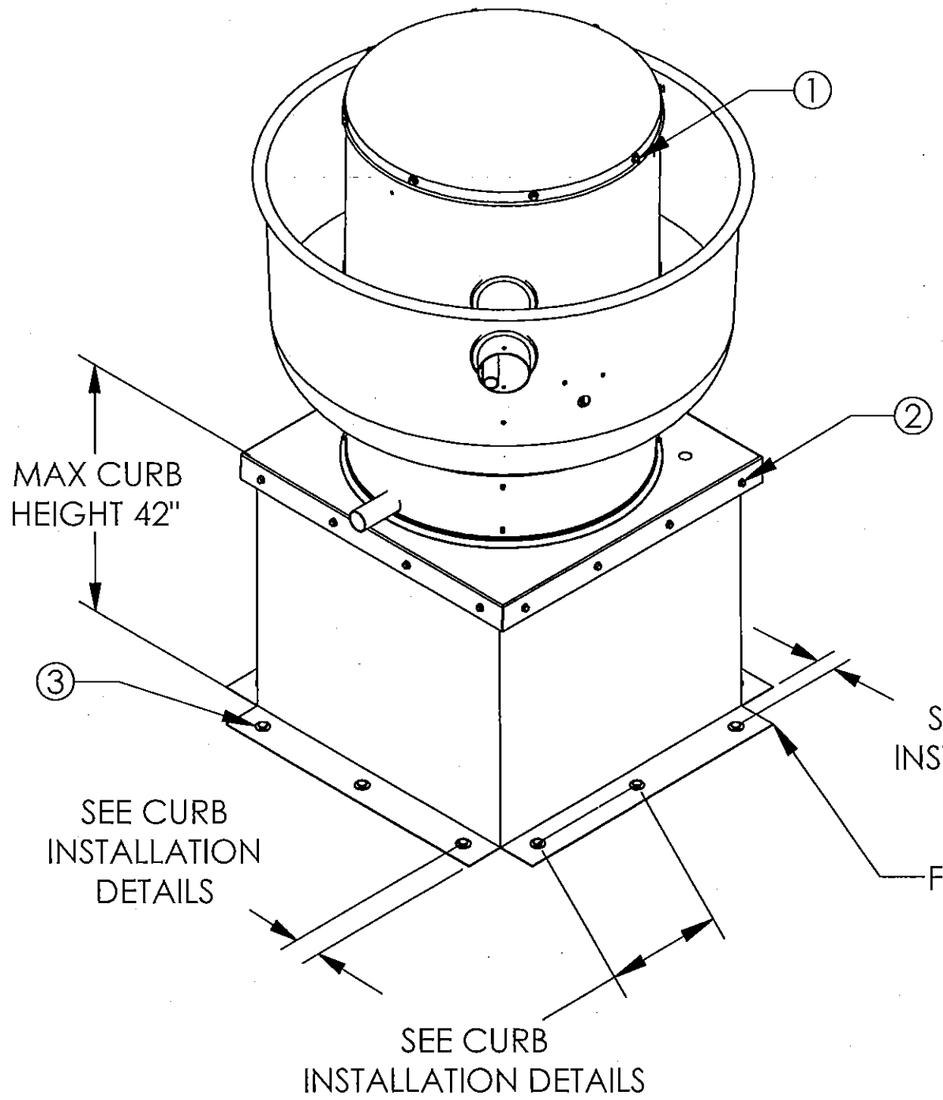
Florida Firm No. F-01000005061
Certificate of Authorization #9090
L. David Rice
Registration No: 50923

L. DAVID RICE LICENSE No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 0 7 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: UPBLAST		
	Drawn By: N Perry		
	Drawing Number: EXHAUST02		
	Sheet: 2 of 12		

Installation - Upblast Aluminum Fans



Revision History				
#	Description	Revised by	ECN#	Date
0	Testing TAS - 201, 202, 203	N Perry	1446	8/25/08
1	Changes Per Dade County	N Perry	1446	12/30/08
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added DU/DR Models	J Hess	2661	6/24/14
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15

1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.

2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (A307 OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE A ON PAGE 7 THRU 12 FOR QTY).

3. 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 7 THRU 12 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

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

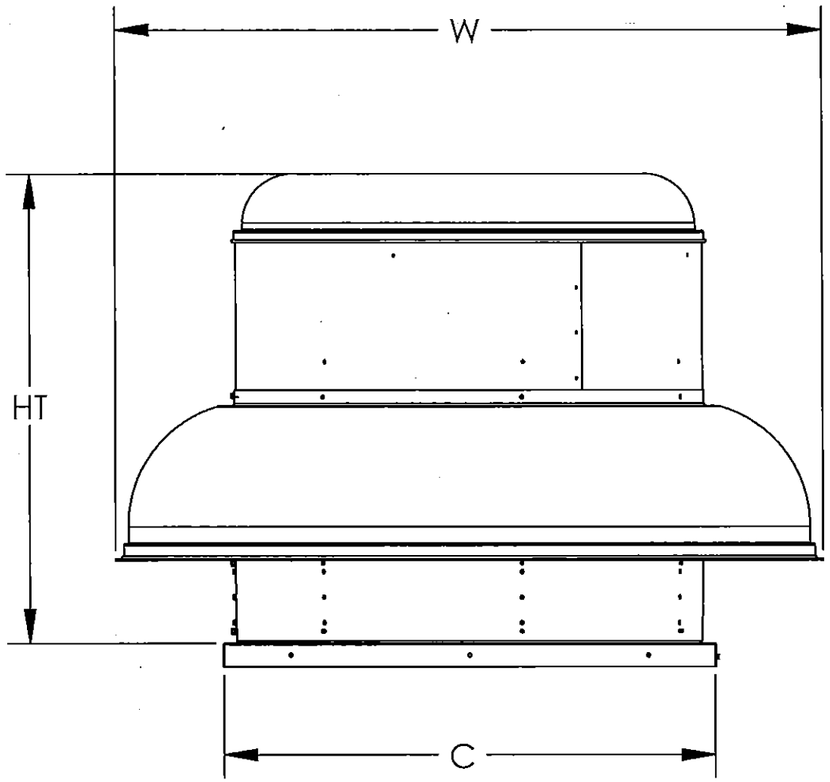
AUG 0 7 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Toterances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: UPBLAST		
	Drawn By: N Pery		
	Drawing Number: EXHAUST03		
	Sheet: 3 of 12		

Dimensional Data - Downblast Aluminum Fans

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, TAS100 (A)-95.



DESIGN PRESSURE: +150.0 / -150.0 PSF

LARGE MISSILE IMPACT RESISTANT

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Revision History				
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3	Added DU/DR Models	J Hess	2661	6/24/14
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15

FAN MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
DR10	14 1/2	20 3/4	19	30
DR12	16 1/4	23 3/4	19	35
DR25	19 1/8	26 1/4	21	45
DR30	19/1/8	26 1/4	21	45
DR33	19 1/8	26 1/4	21	45
DR50	21 3/4	29 3/4	21	50
DR75	23 3/8	33 1/4	24 3/4	60
DR85	23 3/8	33 1/4	24 3/4	60
DR180	32 3/4	38 1/4	28	190
DR200	32 3/4	38 1/4	28	195
DR240	37 3/4	42 1/2	33	215
DR300	40	52	40	380
DR360	45 9/16	63 7/16	44	470
DD7	25 1/2	26 1/4	21	90
DD8	25 1/2	26 1/4	21	90
DD9	25 1/2	26 1/4	21	90
DD11	25 1/2	26 1/4	21	105
DD13	27 1/4	29 5/8	21	105
DD15	30 5/8	33 1/4	24 3/4	130
DD18	32 3/4	38 1/4	28	190
DD20	32 3/4	38 1/4	28	195
DD24	37 3/4	42 1/2	33	215
DD30	40	52	40	380
DD36	45 9/16	63 7/16	44	470
DDAR10	9 3/4	18 5/16	19	24
DDAR12	10 1/4	20 5/16	19	32
DDAR14	12 5/8	27 5/16	21	45
DDAR18	14 3/8	33 9/16	26	67
DMUA14	12 5/8	27 5/16	21	45
DMUA18	14 3/8	33 9/16	26	67

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AUG 0 7 2015

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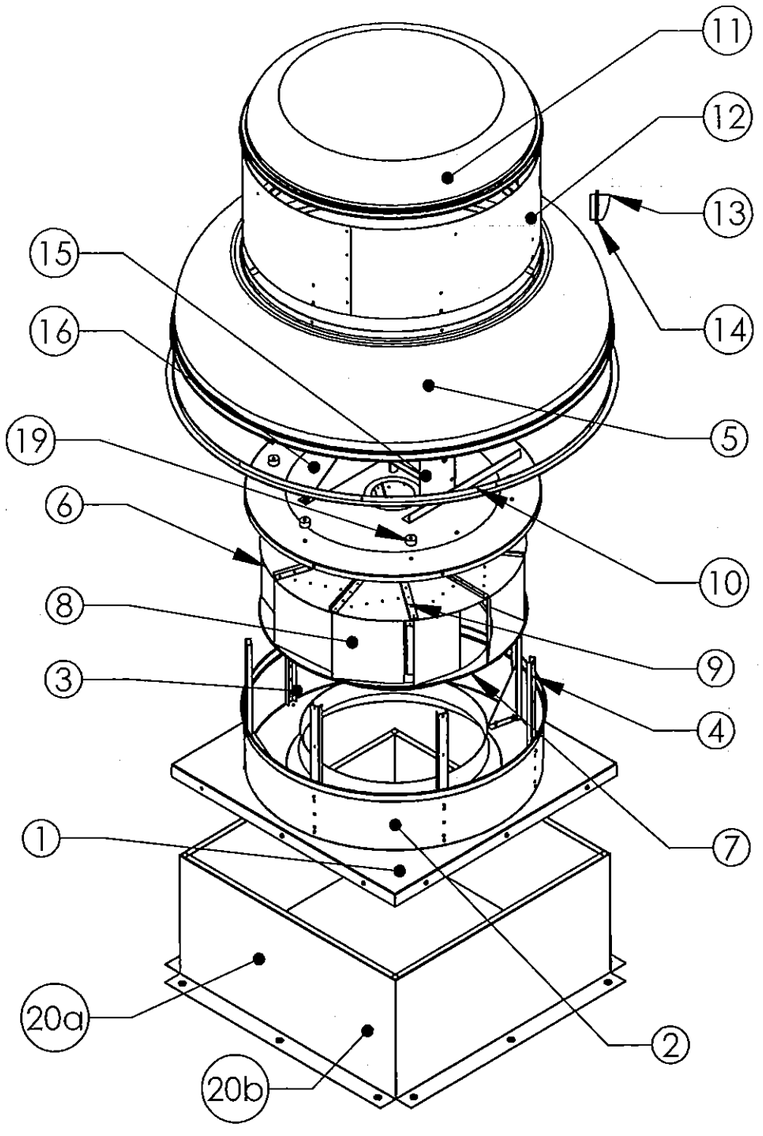
Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: DOWNBLAST		
	Drawn By: N Perry		
	Drawing Number: EXHAUST04		
	Sheet: 4 of 12		

Exploded Material View - Downblast Aluminum Fans



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4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15

Item Number	Description Of Part	Material
1	Base	16 Ga Galvanized G90
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized G90
4	Vertical Support	12 Ga Galvanized G90
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top	14 Ga Galvanized G90
7	Wheel Blade Bottom	.100 aluminum 3003-0
8	Wheel Primary Blade	.125 Aluminum 5052-H32
9	Wheel Secondary Blade	.064 Aluminum 5052-H32
10	Ring	1/8 X 1 X 1 Aluminum Angle Ring
11	Hood	.064 Aluminum 1100-H14
12	Shaft Wrapper	.080 Aluminum 1100-H14
13	Cooling Tube	.080 Aluminum Extrusion
14	Cooling Tube Grommet	Black Rubber
15	Motor Plate Assembly	10 Ga Galvanized G90
16	Top Plate	14 Ga Galvanized G90
17	Shaft (Not Shown)	1018 Steel
18	Bearings (Not Sown)	Case Steel/ Steel Ball
19	Vibration Isolators	Black Rubber
20a	Curb (Up to 20" Height)	20 Ga. Steel
20b	Curb (Above 20", Max of 42" Height)	16 Ga. Steel

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0722.16
Expiration Date 03/04/2019
By _____
Miami Dade Product Control

Notes:
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AUG 07 2015

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
Blank Size: N/A x N/A	MACOLA Number: N/A
Weight: N/A lbs	Drawing Name: DOWNBLAST
	Drawn By: N Perry
	Drawing Number: EXHAUST05
	Sheet: 5 of 12

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

CAPTIVEAIRE
THE PERFORMANCE COMPANY

Installation - Downblast Aluminum Fans

Revision History				
#	Description	Revised by	ECN#	Date
0	Testing TAS - 201, 202, 203	N Perry	1446	8/25/08
1	Changes Per Dade County	N Perry	1446	12/30/08
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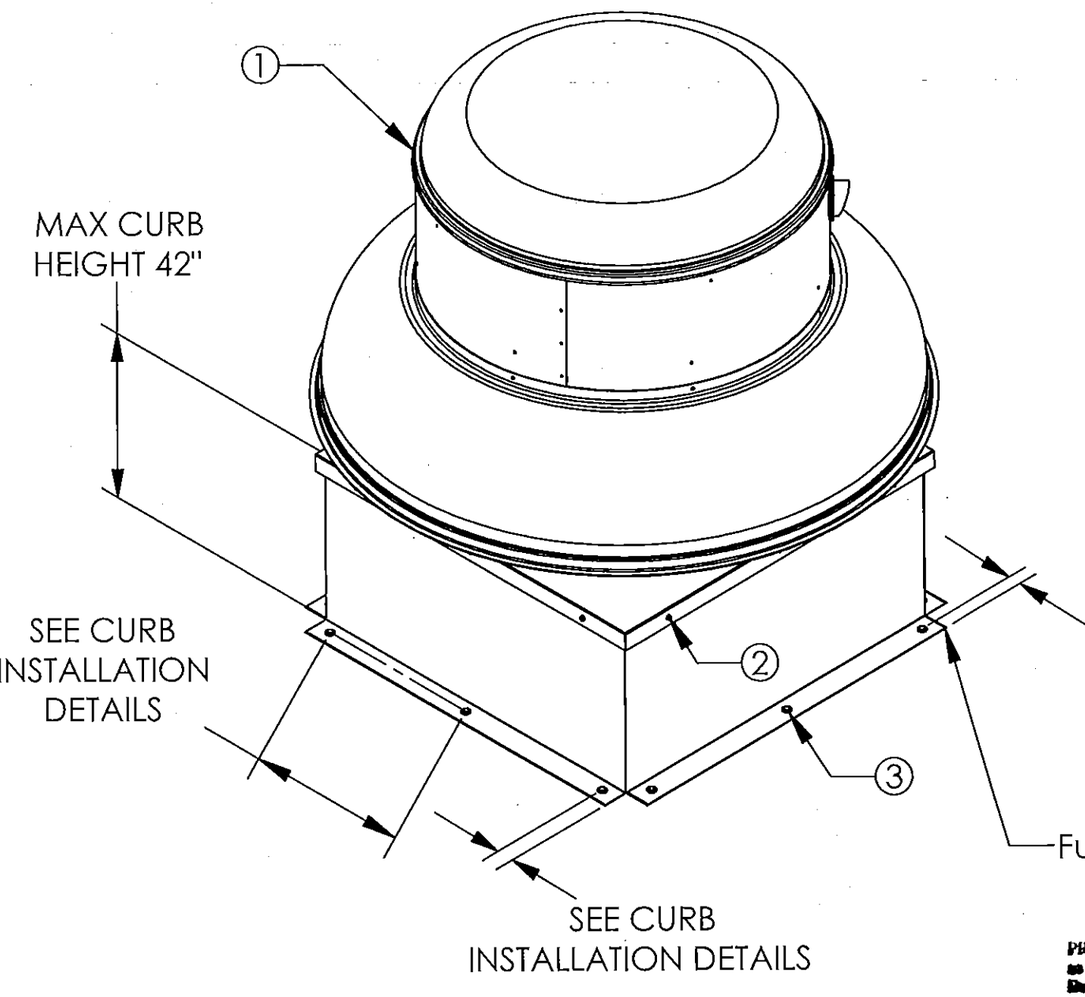
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15



1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.

2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (A307 OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE A ON PAGE 7 THRU 12 FOR QTY).

3. 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 7 THRU 12 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

RICE ENGINEERING
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Florida Firm No F-01000005061
Certificate of Authorization #9090
L David Rice
Registration No 50923

L. DAVID RICE LICENSE No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 14-0722.16
Expiration Date 03/04/2019
By _____
Miami Dade Product Control

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 ATI 08033.

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

AUG 0 7 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: DOWNBLAST		
	Drawn By: N Perry		
	Drawing Number: EXHAUST06		
	Sheet: 6 of 12		

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

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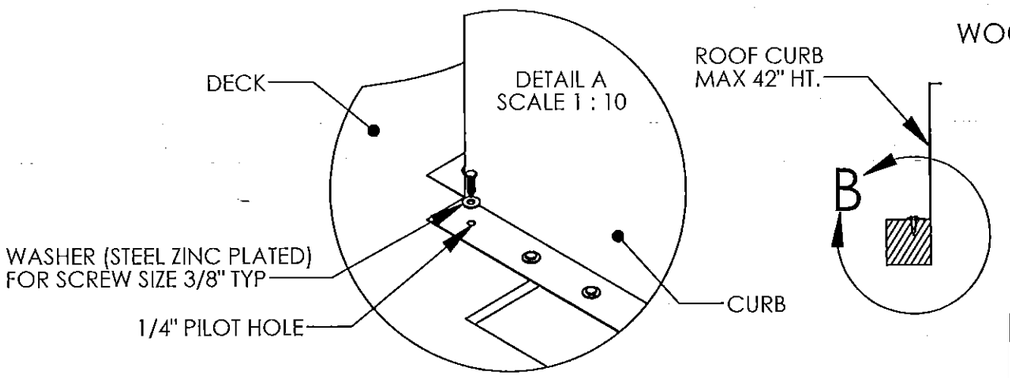

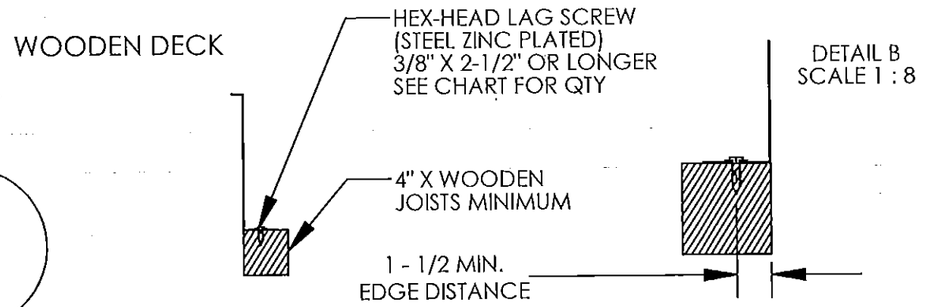

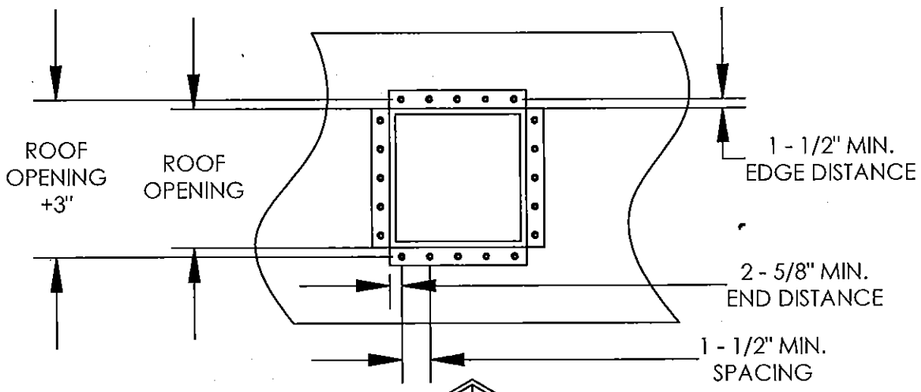

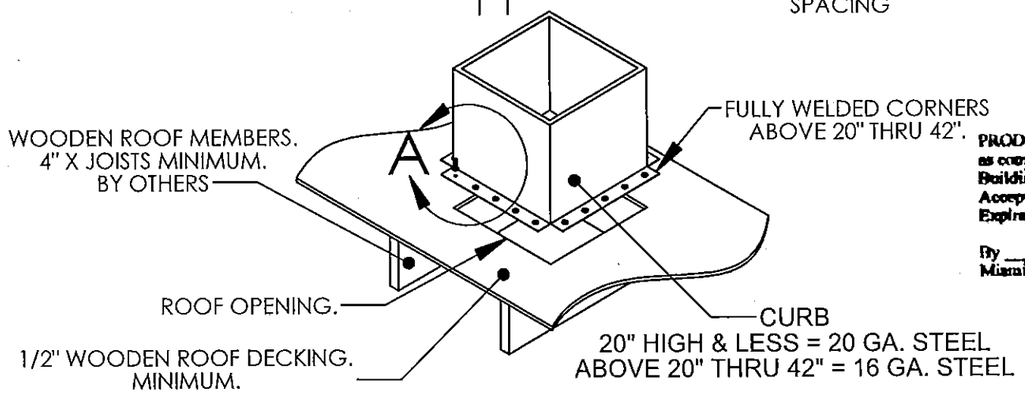

TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

TABLE B: CURB TO DECK

Unit Size	Wood	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	7	28
DU360, NCA36 / DR360, DD36	10	40

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L. David Rice
Registration No. 50923

L. DAVID RICE LICENSE No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 0 7 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST07		
	Sheet: 7 of 12		

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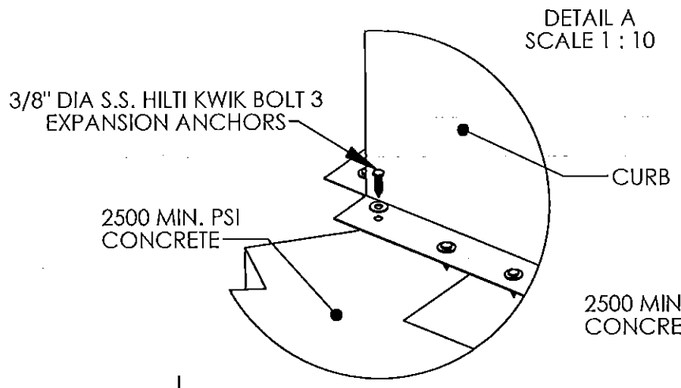
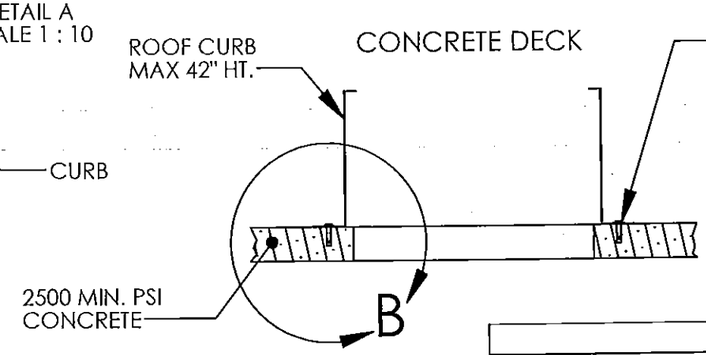
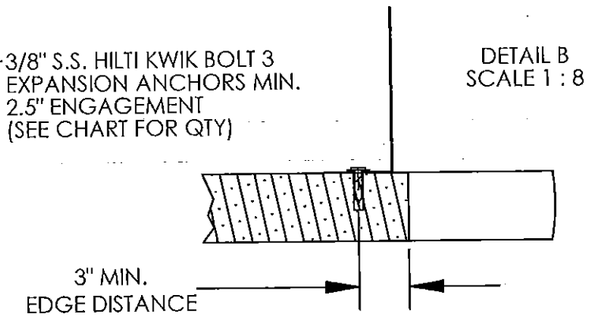
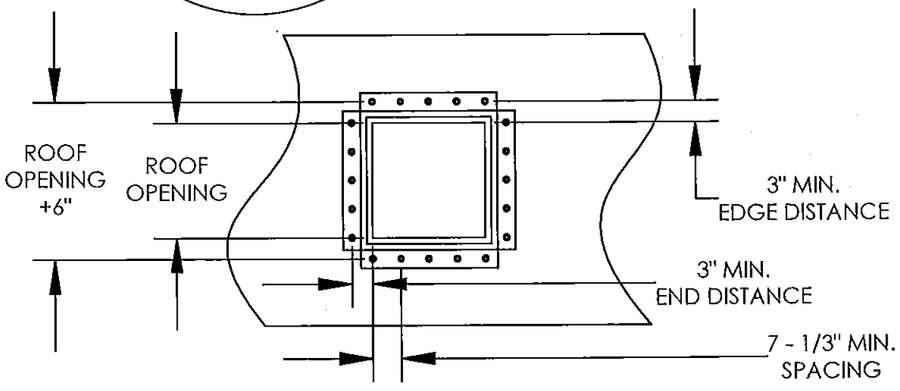
Installation Guide For Concrete Substrate

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









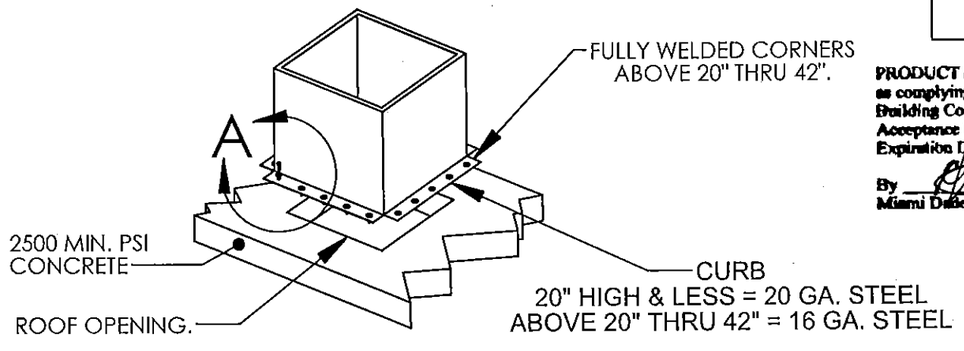


TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

TABLE B: CURB TO DECK

Unit Size	Concrete	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	3	12
DDAR18, DMUA18	4	16
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	4	16
DU240, NCA24 / DR240, DD24	4	16
DU300, NCA30 / DR300, DD30	6	24
DU360, NCA36 / DR360, DD36	7	28

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Miami Dade Product Control

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L David Rice
Registration No 50923

L. DAVID RICE LICENSE No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 07 2016

Material: N/A	Part Number: N/A
Blank Size: N/A x N/A	MACOLA Number: N/A
Weight: N/A lbs	Drawing Name: CURB
	Drawn By: N Perry
	Drawing Number: EXHAUST08
	Sheet: 8 of 12

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

CAPTIVEAIRE
THE PERFORMANCE COMPANY

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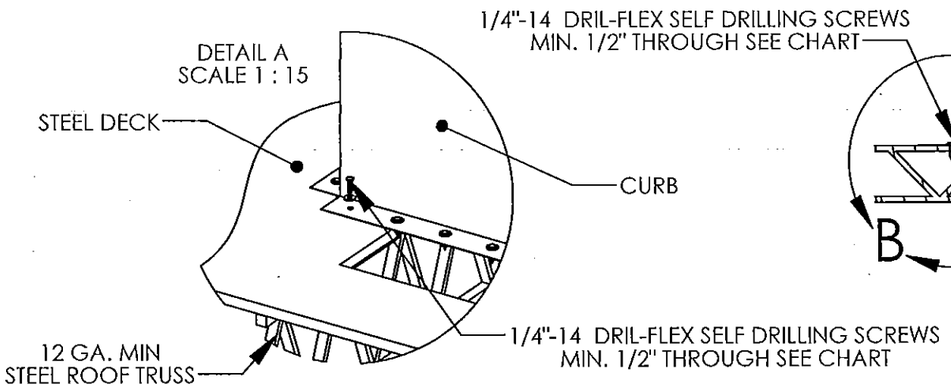
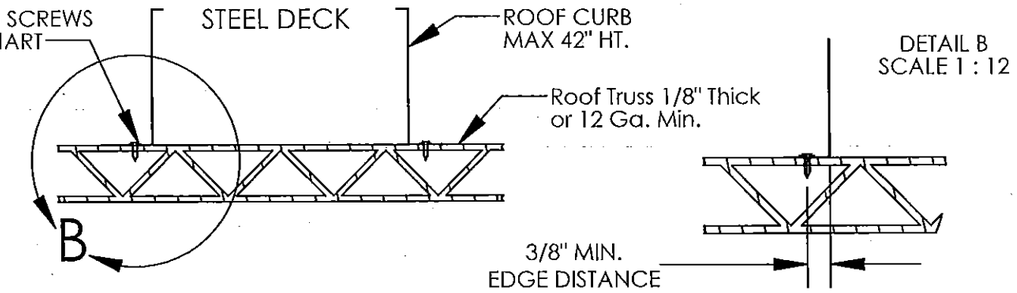
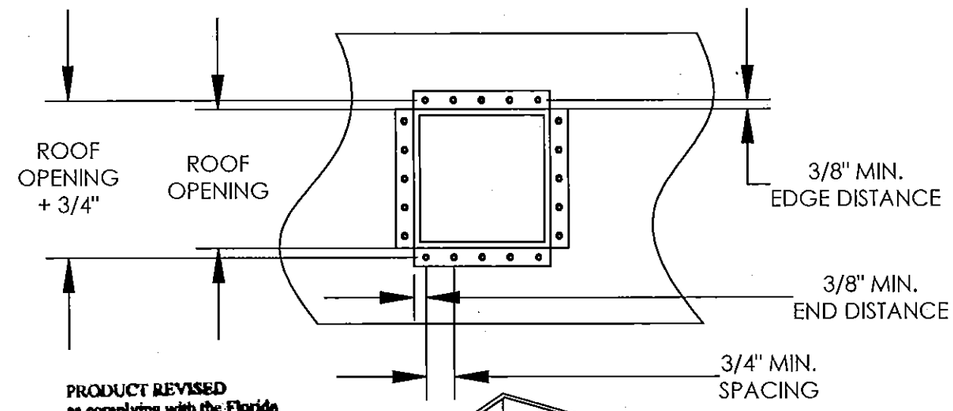
CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994







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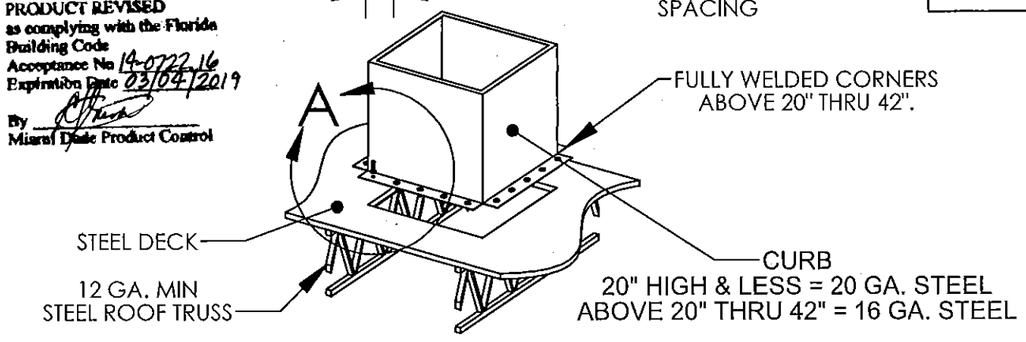

TABLE A: FAN TO CURB				
Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

TABLE B: CURB TO DECK		
Unit Size	Steel	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	4	16
DU75, DU85, NCA14 / DR75, DR85, DD15	5	20
DDAR18, DMUA18	6	24
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	6	24
DU240, NCA24 / DR240, DD24	7	28
DU300, NCA30 / DR300, DD30	9	36
DU360, NCA36 / DR360, DD36	11	44

Notes:
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AUG 07 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST09		
	Sheet: 9 of 12		

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Installation Guide For Wood Construction

CaptiveAire, Inc. commercial kitchen ventilation
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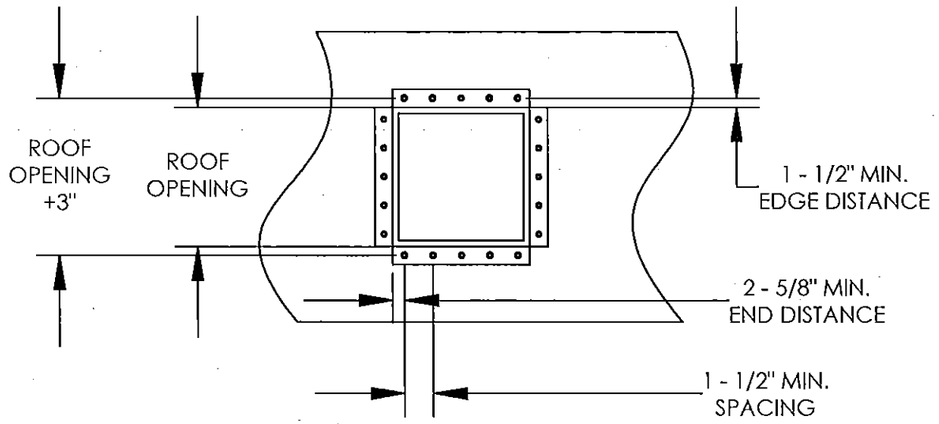
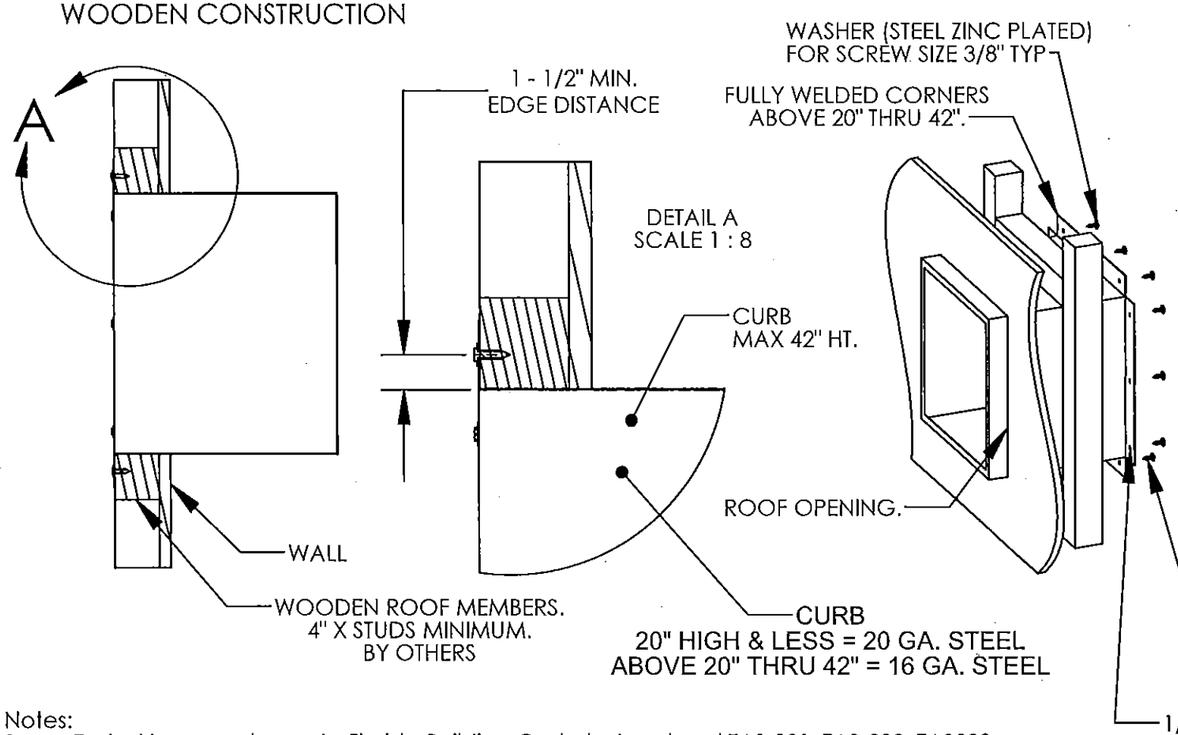


WOODEN CONSTRUCTION



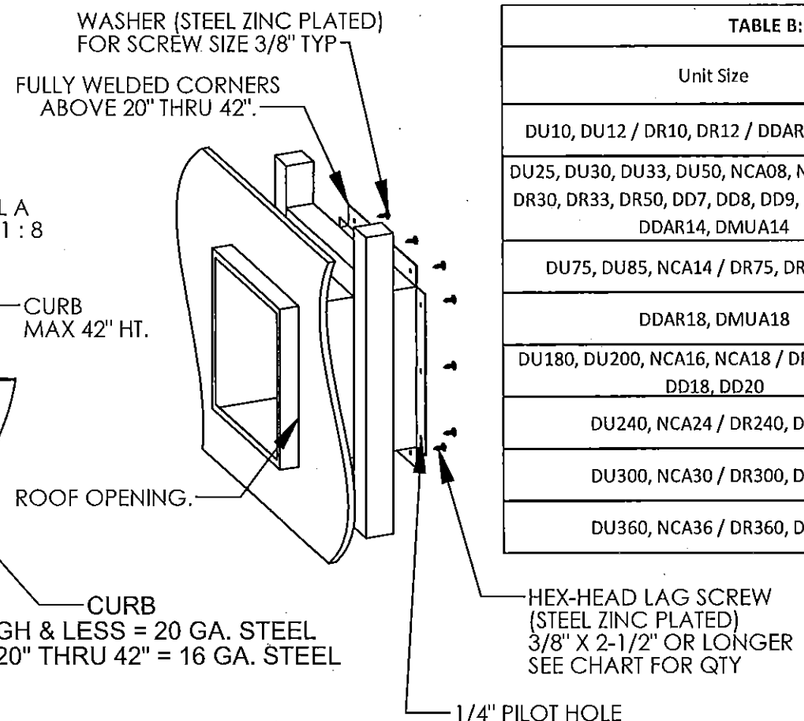


TABLE A: FAN TO CURB				
Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL		
Unit Size	Wood	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

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Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST10		
	Sheet: 10 of 12		

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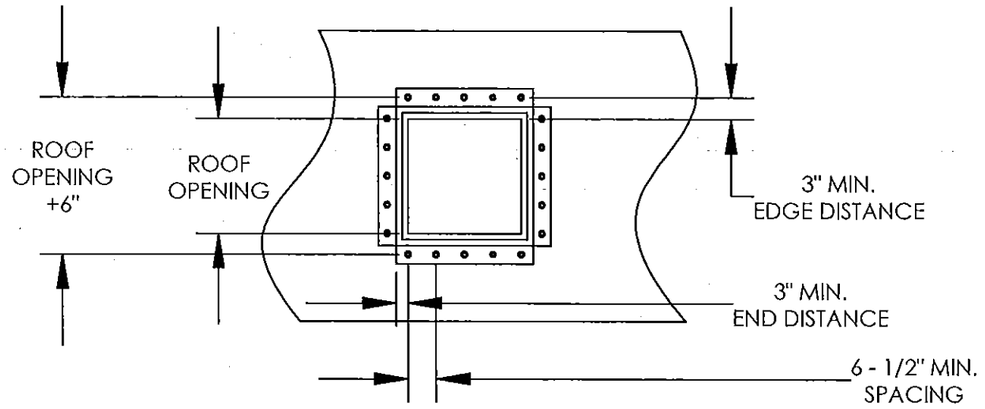

CONCRETE CONSTRUCTION

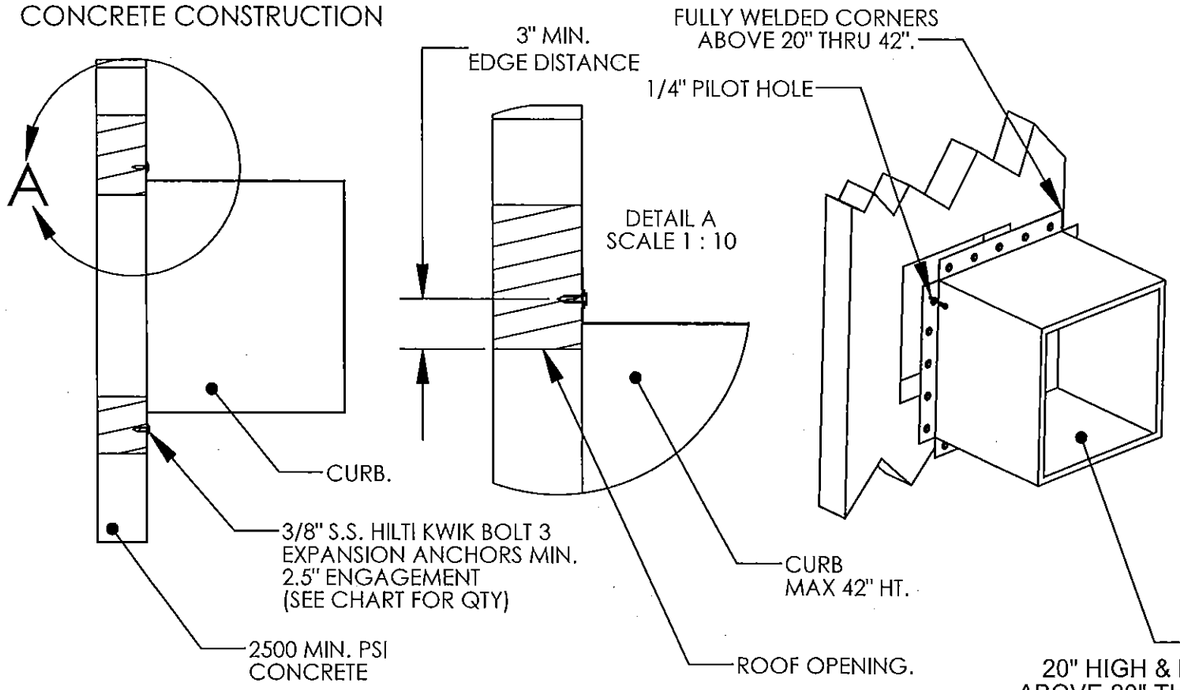

TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL

Unit Size	Concrete	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	3	12
DDAR18, DMUA18	4	16
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	4	16
DU240, NCA24 / DR240, DD24	5	20
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

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Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST11		
	Sheet: 11 of 12		

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4641 Paragon Park Road, Raleigh, NC 27616
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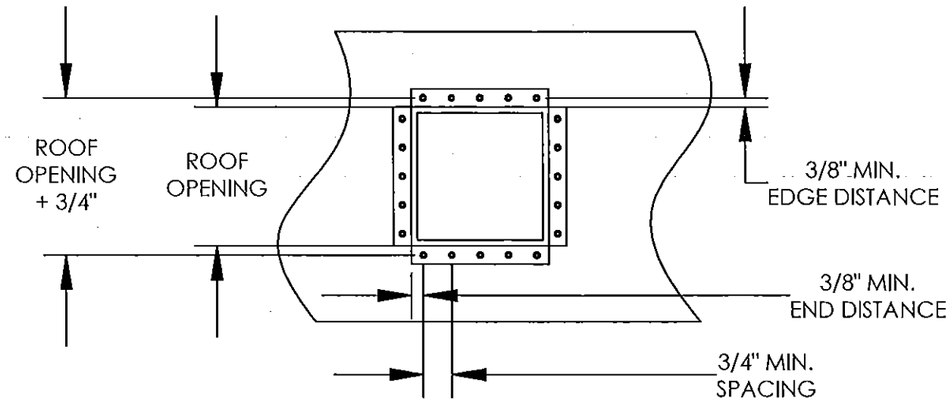

STEEL CONSTRUCTION

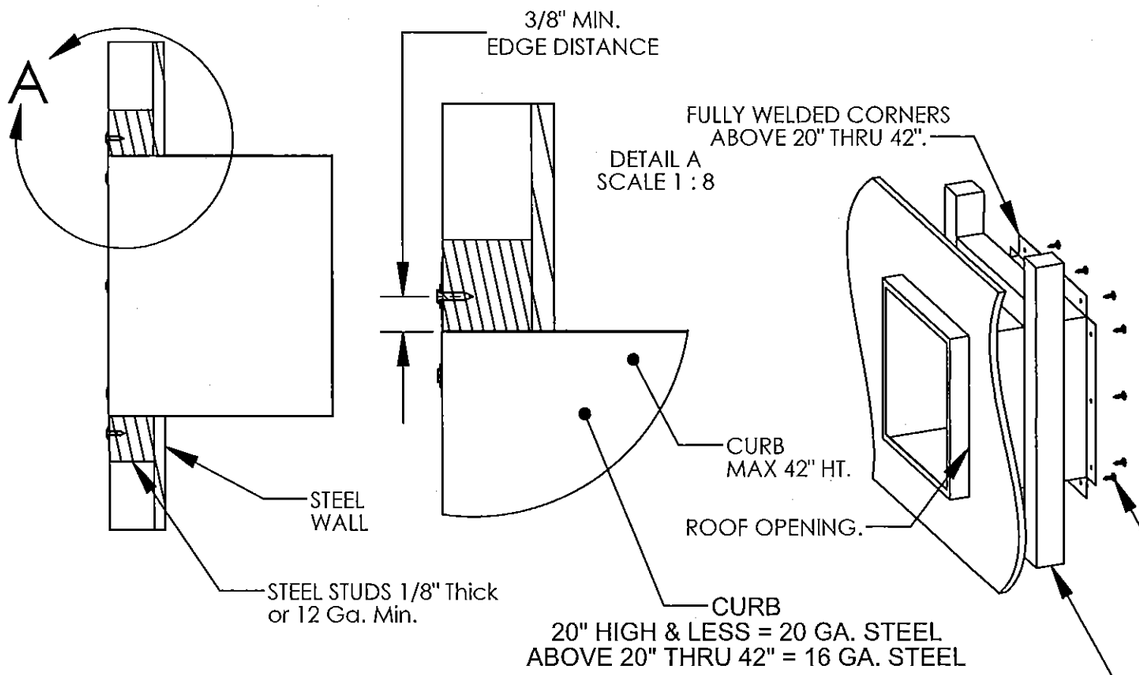

TABLE A: FAN TO CURB				
Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL		
Unit Size	Steel	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	4	16
DU75, DU85, NCA14 / DR75, DR85, DD15	5	20
DDAR18, DMUA18	6	24
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	6	24
DU240, NCA24 / DR240, DD24	8	32
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 18033.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14072.16
Expiration Date 03/04/2019
By
Miami Dade Product Control

RICE ENGINEERING
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Florida Firm No F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

L. DAVID RICE LICENSED No. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 0 7 2015

Material: N/A	Part Number: N/A	Unless Otherwize Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST12		
	Sheet: 12 of 12		