



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Captive-Air 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Spun Aluminum Roof Top Fans

APPROVAL DOCUMENT: Drawing No. **01-06**, titled "Upblast and Downblast Exhaust", sheets 1 through 6 of 6, dated 08/25/08, with revision dated 12/30/08, prepared by Captive-Air Systems, Inc, signed and sealed by L. David Rice, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 2/11/09

NOA No. 08-1124.09
Expiration Date: March 4, 2014
Approval Date: March 4, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **01-06**, titled "Upblast and Downblast Exhaust", sheets 1 through 6 of 6, dated 08/25/08, with revision dated 12/30/08, prepared by Captive-Air Systems, Inc, signed and sealed by L. David Rice, P.E.

B. TESTS

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 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 10/15/08, with Revision 1 dated 01/06/09, signed and sealed by Michael D. Stremmel, P.E.

C. CALCULATIONS

1. Anchor verification calculations, prepared by Rice Engineering, dated 11/12/08, with revision dated 01/20/08, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

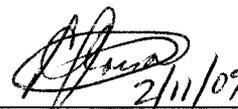
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance issued by Rice Engineering, dated 11/12/08, signed and sealed by L. David Rice, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 11/12/08, signed and sealed by L. David Rice, P.E.
3. Laboratory compliance letter issued by Architectural Testing, Inc., for Test Reports No. **83747.01-109-18**, dated 10/16/08, signed and sealed by Michael D. Stremmel, P.E.



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 08-1124.09

Expiration Date: March 4, 2014

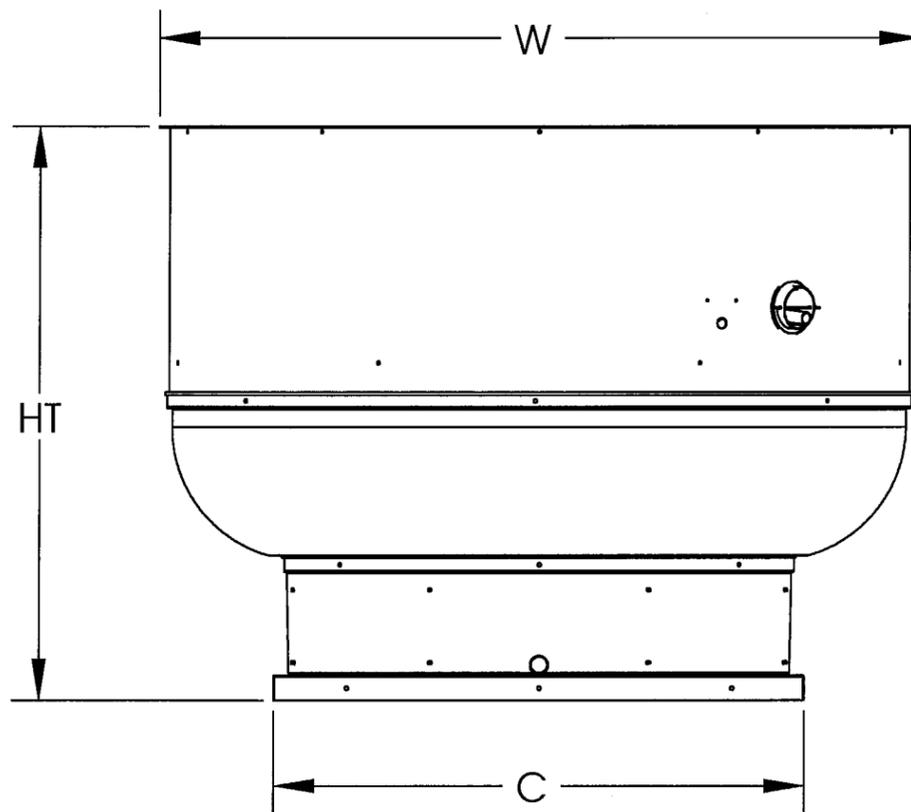
Approval Date: March 4, 2009

Dimensional Data - Upblast Aluminum Fans - NOA1

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

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 be 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
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

DESIGN PRESSURE: +30.0 / -66.0 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.

Approved as complying with the
 Florida Building Code
 Date: 03/04/2009
 NOA1: 08-1124.02
 Miami Dade Product Control
 Division
 By: *[Signature]*

RICE
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 www.rice-inc.com
 Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

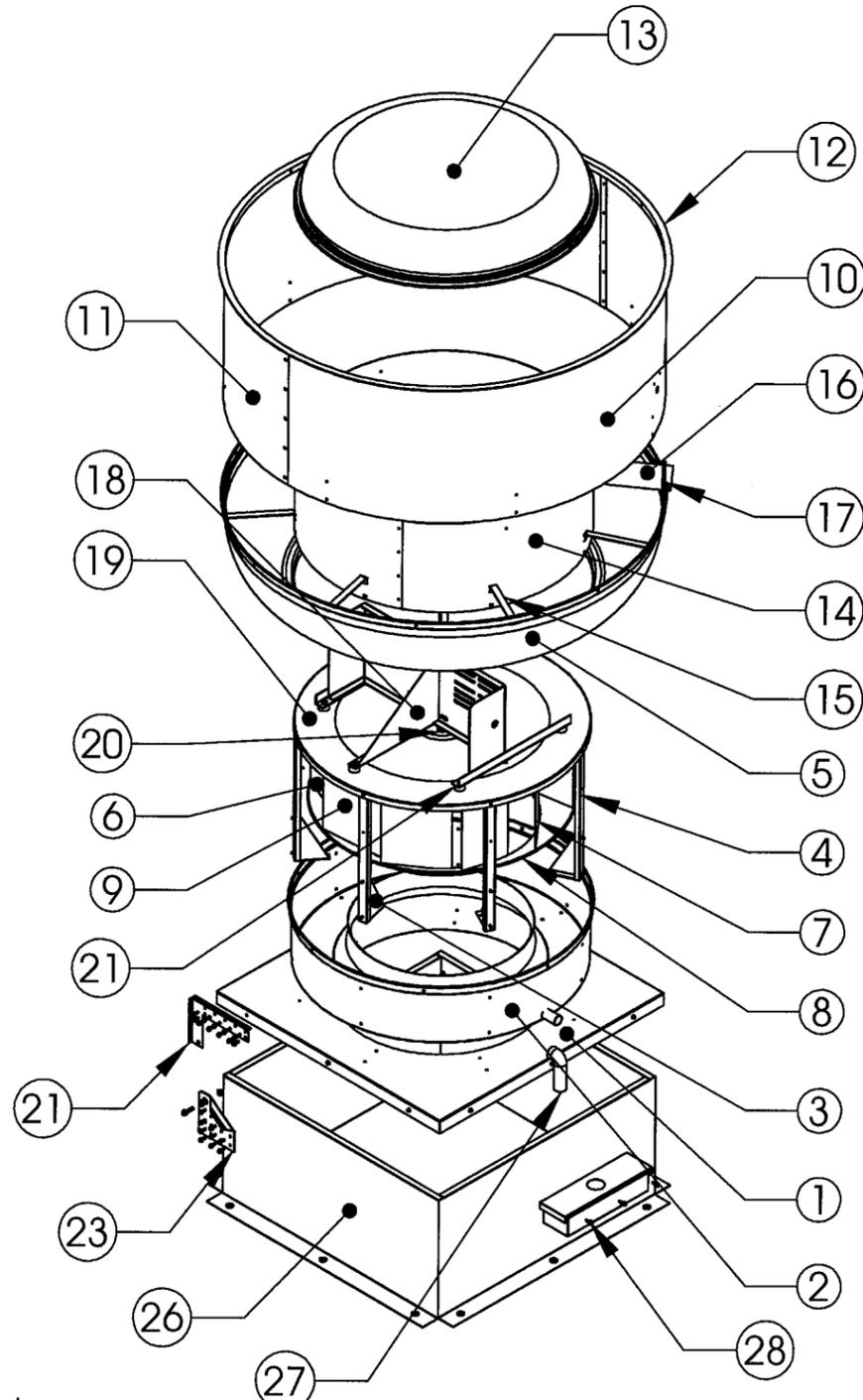
JAN 20 2009

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: UPBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST01	
	Sheet: 1 of 6	

CAPTIVE
THE PERFORMANCE COMPANY

Exploded Material View - Upblast Aluminum Fans - NOA1

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



Item Number	Description	Material
1	Base	16 Ga Galvanized
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized
4	Vertical Support	12 Ga Galvanized
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top (Not Shown)	14 Ga Galvanized
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
19	Top Plate	14 Ga Galvanized
20	Shaft (Not Shown)	1018 Steel
21	Vibration Isolators	Black Rubber
22	Fan Plate Left (Hinge Kit)	10 Ga Galvanized
23	Curb Plate Left (Hinge Kit)	10 Ga Galvanized
24	Fan Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized
25	Curb Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized
26	Curb	16 Ga Aluminum
27	Grease Down Spout	Aluminum Colored Vinyl
28	Grease Box	18 Ga Galvanized

- 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.

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

Part Number: N/A
 MACOLA Number: N/A
 Drawing Name: UPBLAST
 Drawn By: N Perry
 Drawing Number: EXHAUST02
 Sheet: 2 of 6

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



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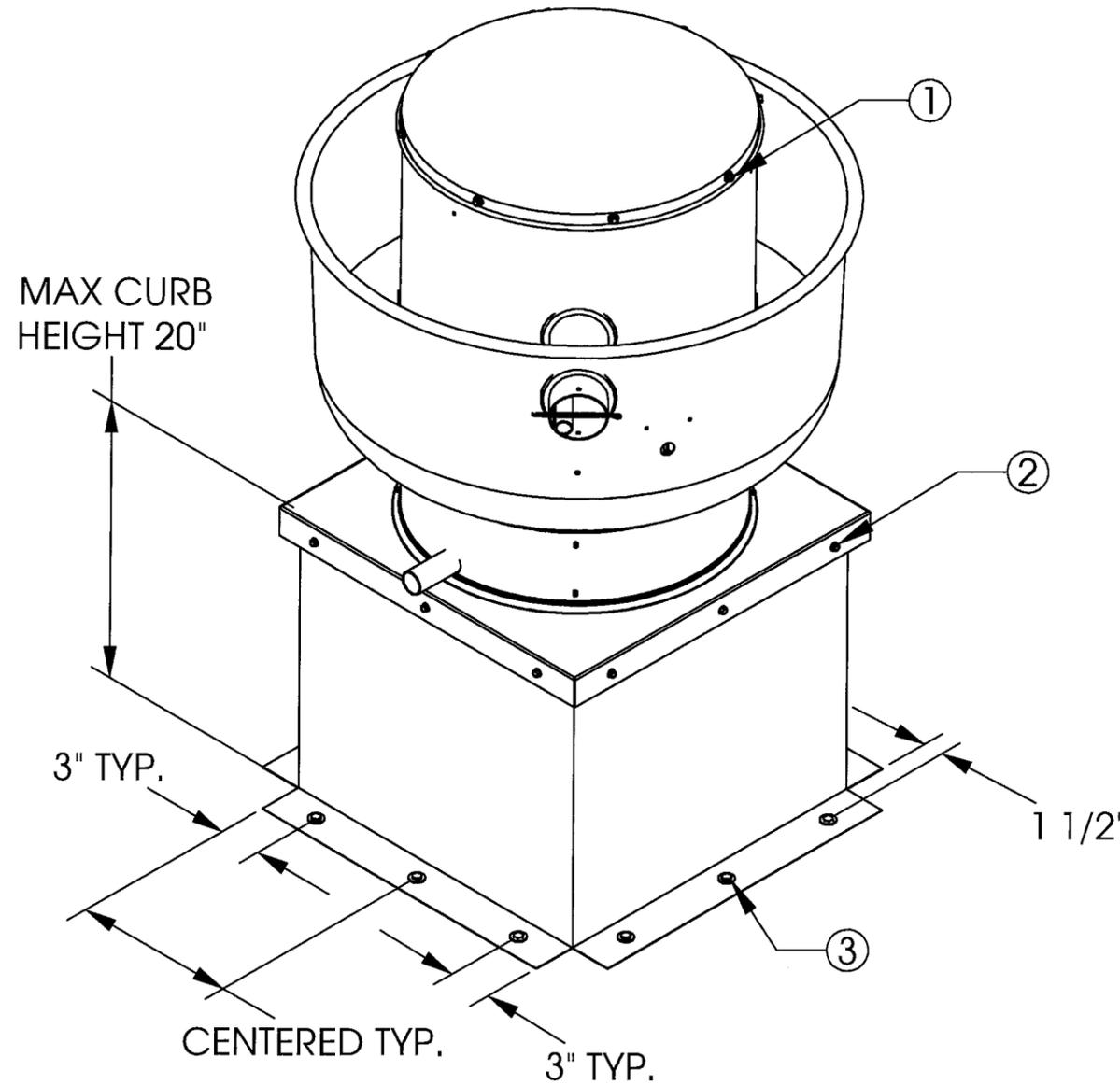
Florida Firm No. F-0100005061
 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

JAN 20 2009

Approved as complying with the
 Florida Building Code
 Date: 03/04/2009
 NOA# 08-1124-09
 Miami Dade Product Control
 Division
 By: [Signature]

Installation - Upblast Aluminum Fans - NOA1

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



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 A MINIMUM OF (12) 1/4"-14 X 2" ZINC PLATED STEEL SELF DRILLING SCREWS THROUGH PRE-PUNCHED HOLES IN THE FAN BASE WITH A MAX SPACING OF 16" INCHES.

3. SECURE CURB TO ROOF FRAMING MEMBERS BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM AND USING A MINIMUM OF (12) 3/8" X 2" (MINIMUM ENBEDMENT), ZINC PLATED STEEL LAG BOLTS AND ZINC PLATED WASHERS FOR 3/8" SCREW SIZE THROUGH FLANGE AND INTO ROOF FRAMING MEMBERS WITH A MAXIMUM SPACING OF 21 1/4".

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.

RICE
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Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

JAN 20 2009

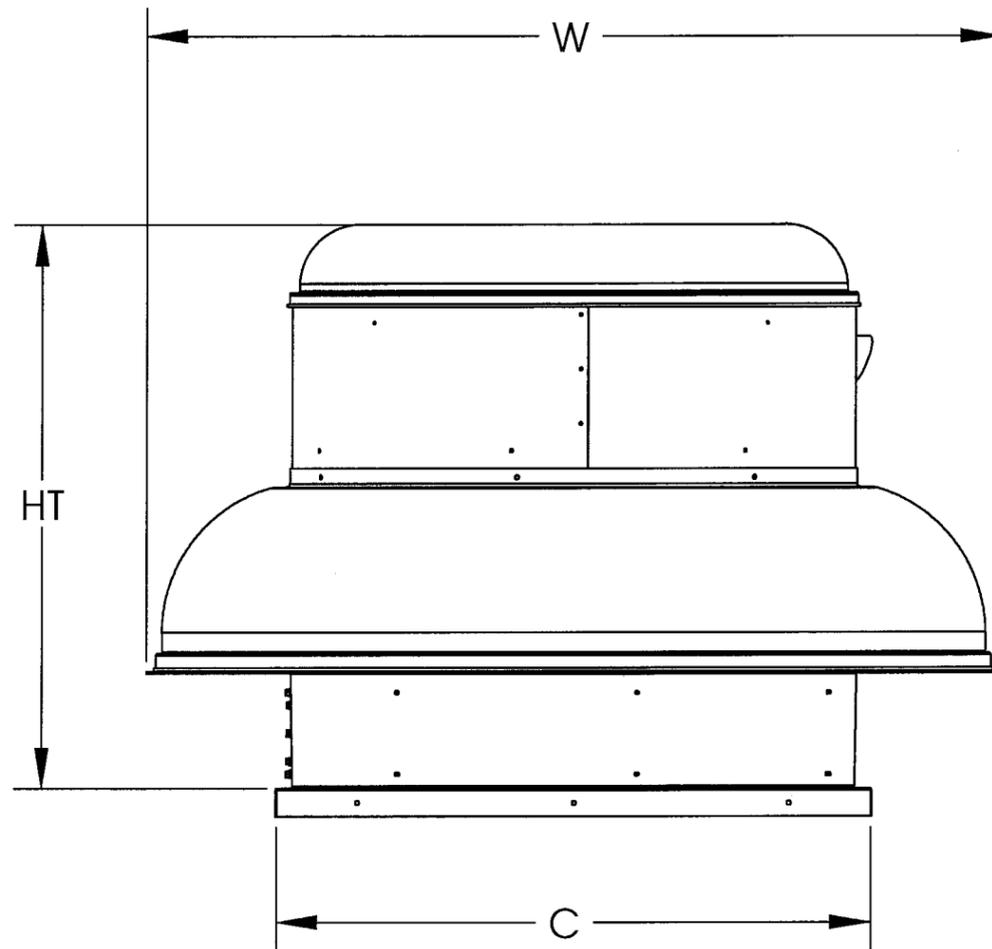
Approved as complying with the
Florida Building Code
Date: 03/04/2009
NOA1 08-1124-09
Miami-Dade Product Control
Division
By: *[Signature]*

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: UPBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST03	
	Sheet: 3 of 6	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°

CAPTIVE
THE PERFORMANCE COMPANY

Dimensional Data - Downblast Aluminum Fans - NOA1

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



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
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
EMUA12	9 3/4	20 5/16	19	21
EMUA14	12 5/8	27 5/16	21	33
EMUA18	14 3/8	33 9/16	26	51

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Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

JAN 20 2009

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.

Approved as complying with the
Florida Building Code
Date: 03/04/2009
NOA: 03-1124-09
Miami Dade Product Control
Division
By: *[Signature]*

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

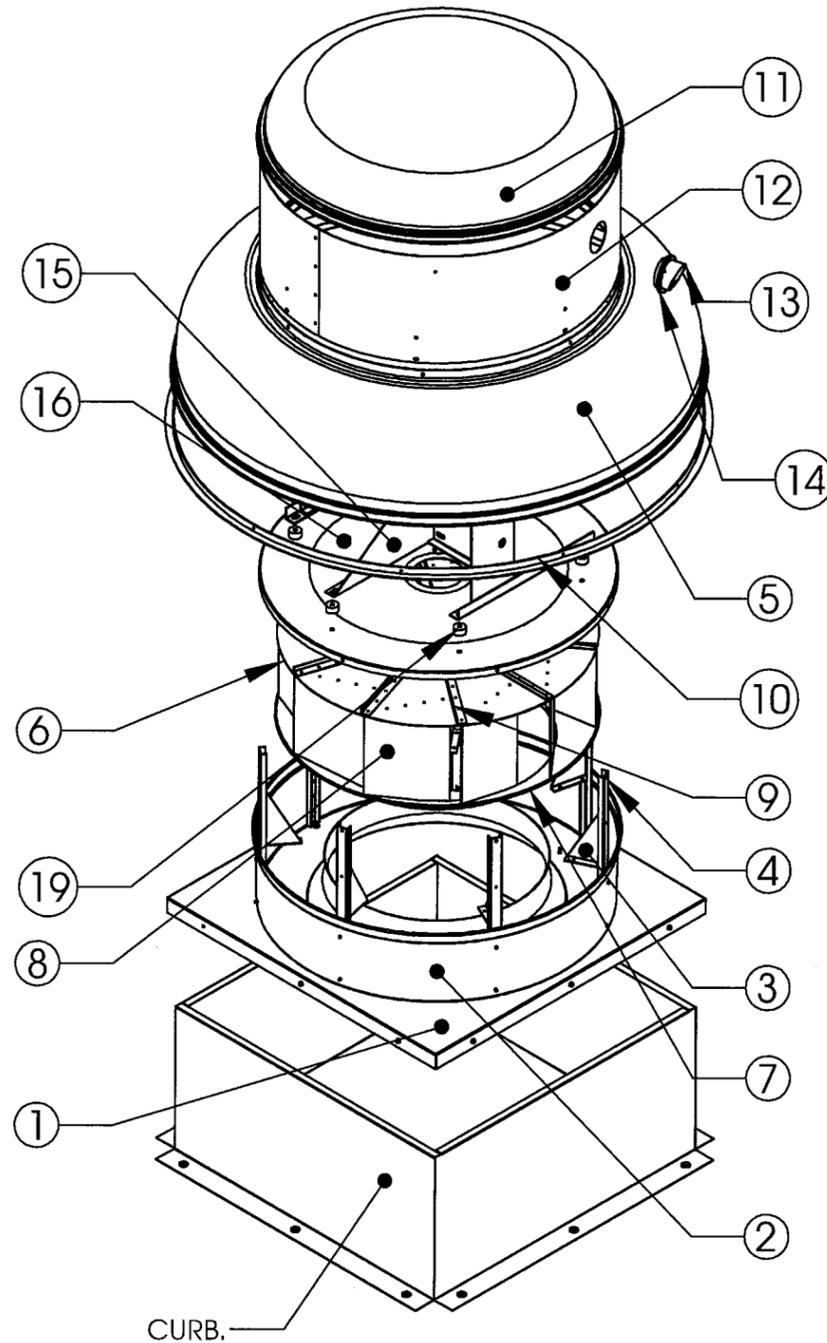
Part Number: N/A
MACOLA Number: N/A
Drawing Name: DOWNBLAST
Drawn By: N Perry
Drawing Number: EXHAUST04
Sheet: 4 of 6

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

CAPTIVE AIR
THE PERFORMANCE COMPANY

Exploded Material View - Downblast Aluminum Fans - NOA1

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



Item Number	Description Of Part	Material
1	Base	16 Ga Galvanized
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized
4	Vertical Support	12 Ga Galvanized
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top	14 Ga Galvanized
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
16	Top Plate	14 Ga Galvanized
17	Shaft (Not Shown)	1018 Steel
18	Bearings (Not Sown)	Case Steel/ Steel Ball
19	Vibration Isolators	Black Rubber

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.

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

Part Number: N/A
 MACOLA Number: N/A
 Drawing Name: DOWNBLAST
 Drawn By: N Perry
 Drawing Number: EXHAUST05
 Sheet: 5 of 6

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

CAPTIVE AIR
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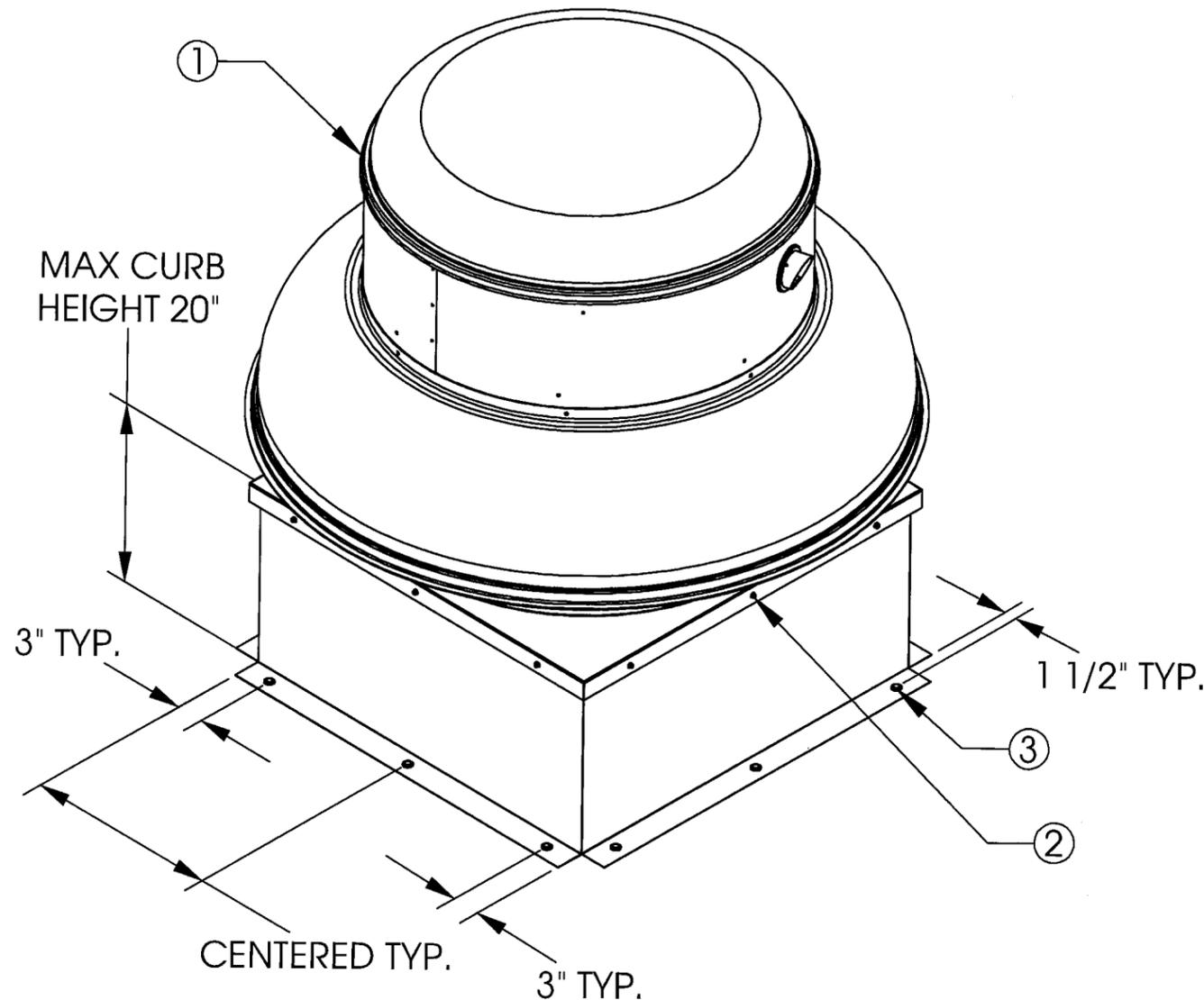
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 L. David Rice
 Registration No: 50923

JAN 20 2009

Approved as complying with the
 Florida Building Code
 Date: 03/04/2009
 NOA# 08-1124-09
 Miami Dade Product Control
 Division
 By: [Signature]

Installation - Downblast Aluminum Fans - NOA1

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



1. SECURE LID TO FAN UNIT 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 MINIMUM (12) 1/4-14 X 2" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS THROUGH PRE-PUNCHED HOLES IN FAN BASE WITH A MAX SPACING OF 16"

3. SECURE CURB TO ROOF FRAMING MEMBERS BY DRILLING 1/4" DIA PILOT HOLES IN CURB FLANGES AT LOCATIONS SHOWN IN DIAGRAM AND USING MINIMUM (12) 3/8" X 2" (MINIMUM ENBEDMENT), ZINC PLATED STEEL LAG BOLTS AND ZINC PLATED WASHER FOR 3/8" SCREW SIZE THROUGH FLANGE AND INTO ROOF FRAMING MEMBERS WITH A MAX SPACING OF 21 1/4"

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Florida Firm No: F-0100005061
Certificate of Authorization: #9090
L. David Rice
Registration No. 50923

JAN 20 2009

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.

Approved as complying with the
Florida Building Code
Date 03/04/2009
NOA# 02-1124-09
Miami Dade Product Control
Division
By *[Signature]*

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: DOWNBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST06	
	Sheet: 6 of 6	
	Standard Tolerances are: Fractions: $\pm 1/16$ Decimal: $.XX \pm .05$.XXX $\pm .015$ Angles: $\pm 1^\circ$	

CAPTIVE AIRE
THE PERFORMANCE COMPANY