



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

Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476

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 USGF Steel Rooftop Fans

APPROVAL DOCUMENT: Drawing No. **HSS5001** to **HSS5005**, titled "USGF-140 thru 200", sheets 1 through 6 of 6, dated 03/30/2012, prepared by the manufacturer, 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, city, state, 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 **revises** NOA # **12-0501.04** and 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 and date: 06/08/2016

NOA No. 16-0209.01
Expiration Date: July 12, 2017
Approval Date: June 16, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 12-0501.04”

1. Drawing **HSS5001 to HSS5005**, titled “USGF-140 thru 200”, sheets 1 through 6 of 6, dated 03/30/2012, prepared by the manufacturer, signed and sealed by L. David Rice, P.E.

B. TESTS “Submitted under NOA # 10-0112.02”

1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of three Model USGF-200 Belt Drive Fans on SD Curb, prepared by Architectural Testing, Inc., Test Report No. **94149.01-602-18**, dated 12/21/2009, signed and sealed by Joseph A. Reed, P.E.

“Submitted under NOA # 08-0519.01”

2. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
along with marked-up drawings and installation diagram of Model USGF-200 Rooftop Fan w/ SD Curb, prepared by Hurricane Test Laboratory, LLC, Test Report No. **0325-1207-06**, dated 03/10/2007, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on Large Missile Impact Test per FBC, TAS 201-94, along with marked-up drawings and installation diagram of Models H-CUBE-161 and 240 Fans with H-GPF Curbs, prepared by Architectural Testing, Inc, Test Reports No. **70535.01-602-18** and **70544.01-602-18**, both dated 03/05/2007 and signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS “Submitted under NOA # 08-0519.01”

1. Anchor and structural calculations of USGF 180 Fan Housing and H-GPF and SD Curbs, prepared by Rice Engineering, dated 04/17/2007, 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 02/04/2016, signed and sealed by L. David Rice, P.E.

“Submitted under NOA # 12-0501.04”

2. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 04/17/2012, signed and sealed by L. David Rice, P.E.
3. Statement letter of no financial interest issued by Rice Engineering, dated 04/18/2007, signed and sealed by L. David Rice, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 16-0209.01
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MODEL	FASTENER G		FASTENER H		FASTENER J		FASTENER K	
	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION
USGF-140/HP USGF-160/HP/XP	16 EA.	TCS 1/4"-20 X 3/4" DACROMET COATED	4	RIVET, 1/4" X 5/8" SEMI TUBULAR 5052 ALUM.	4	SCREW, 1/4"-20 X 3/8" 18-8/SS.	4	PAL NUT, 1/4"-20 SPRING STEEL
USGF-180/HP USGF-200/HP	24 EA.		6					

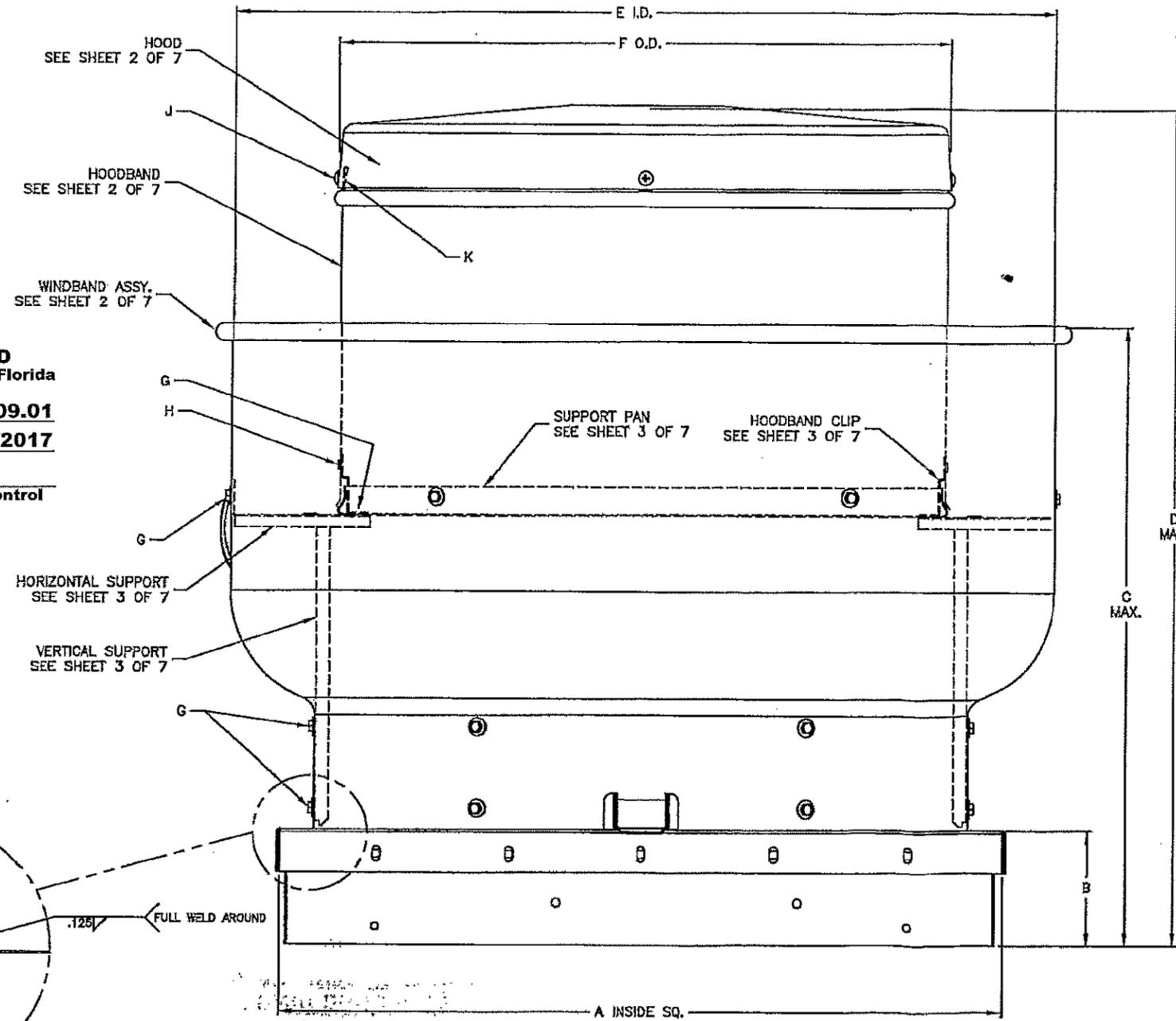
DESIGN LIMITS USGF-140/HP AND USGF-160/HP/XP	
Max: Design Load:	±130 psf (6.2 Kpa)
Max: Overall Enclosure Dia.	28.95 in. (735 mm)
Max: Overall Unit Height W/CURB	53.00 in. (1130 mm)
Max: Overall Unit Height W/O CURB	29.00 in. (737 mm)
Max: CURB CAP SQ. DIM.:	26.00 in. (660 mm)
Max: ROOF CURB SQ. DIM.:	24.75 in. (629 mm)
Max: ROOF CURB HEIGHT:	24.00 in. (610 mm)
QUALIFIED SUBSTRATES	3000 psi Concrete, 1/2" Steel

DESIGN LIMITS USGF-180/HP AND USGF-200/HP	
Max: Design Load:	±130 psf (6.2 Kpa)
Max: Overall Enclosure Dia.	35.45 in. (900 mm)
Max: Overall Unit Height W/CURB	56.85 in. (951 mm)
Max: Overall Unit Height W/O CURB	32.85 in. (834 mm)
Max: CURB CAP SQ. DIM.:	30.00 in. (762 mm)
Max: ROOF CURB SQ. DIM.:	28.75 in. (730 mm)
Max: ROOF CURB HEIGHT:	24.00 in. (610 mm)
QUALIFIED SUBSTRATES	3000 psi Concrete, 1/2" Steel

ALL DIMENSIONS ARE IN INCHES

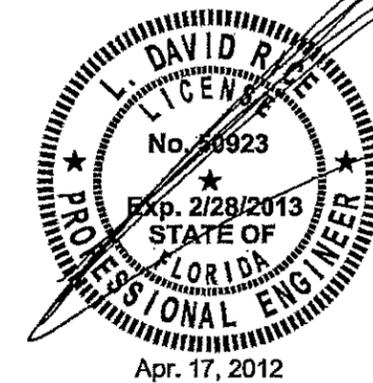
MODEL	A	B	C	D	E	F	WEIGHT LBS.
USGF-140/HP	26.00	3.75	23.35	33.75	27.70	21.00	84
USGF-160/HP/XP	26.00	1.75	20.35	32.20	27.70	21.00	87
USGF-180/HP	30.00	1.75	22.72	33.75	34.20	25.20	126
USGF-200/HP	30.00	1.75	22.72	33.75	34.20	25.20	142

PRODUCT REVISED
as complying with the Florida
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NOA-No. **16-0209.01**
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By *[Signature]*
Miami-Dade Product Control



NOTES:

1. MODEL USGF HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-203(CYCLIC WIND LOADING,) AND TAS-202 (STATIC LOADING).
2. ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF TOP FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
3. DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
4. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
5. DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
6. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
7. THIS PRODUCT HAS NOT BEEN TESTED FOR WATER PENETRATION ACCORDING TO FLORIDA BUILDING CODE, TAS 100(A), WIND DRIVEN RAIN TEST. IT CANNOT BE INSTALLED WITHIN THE RIDGE AREA FBC 1523.6.5.2.13



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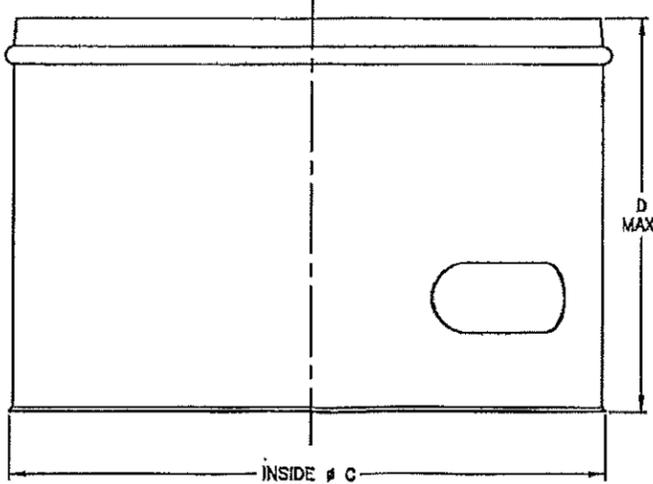
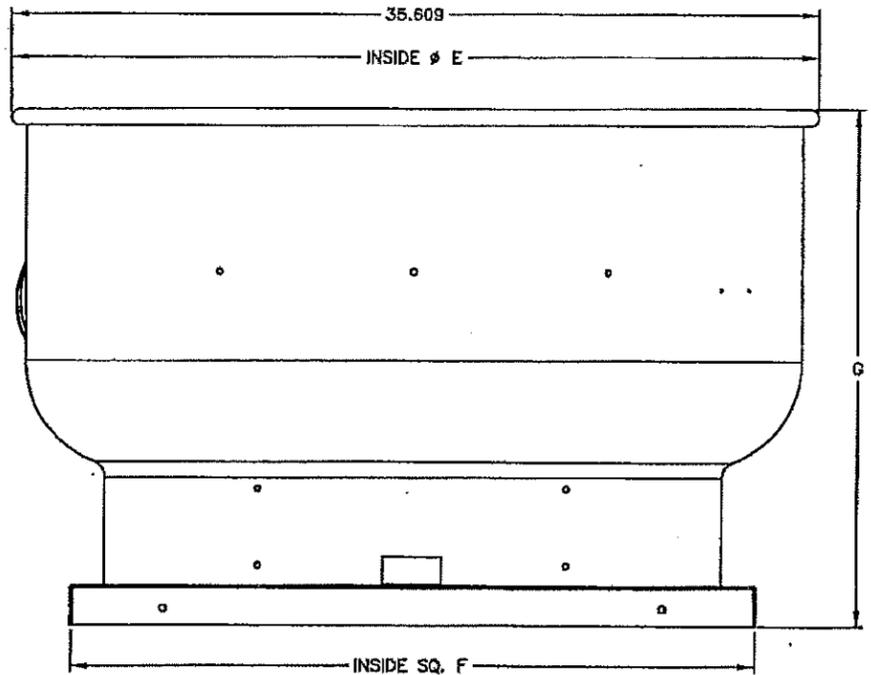
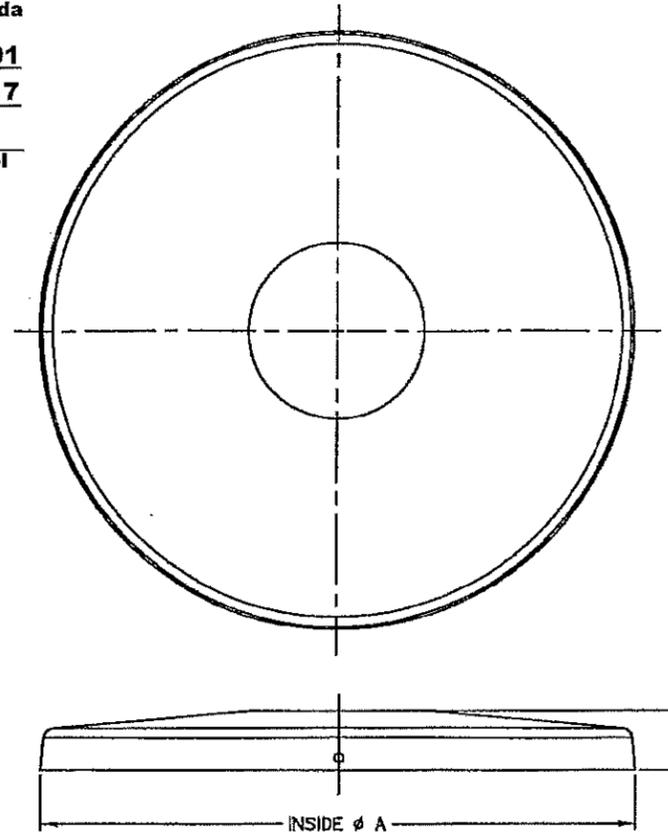
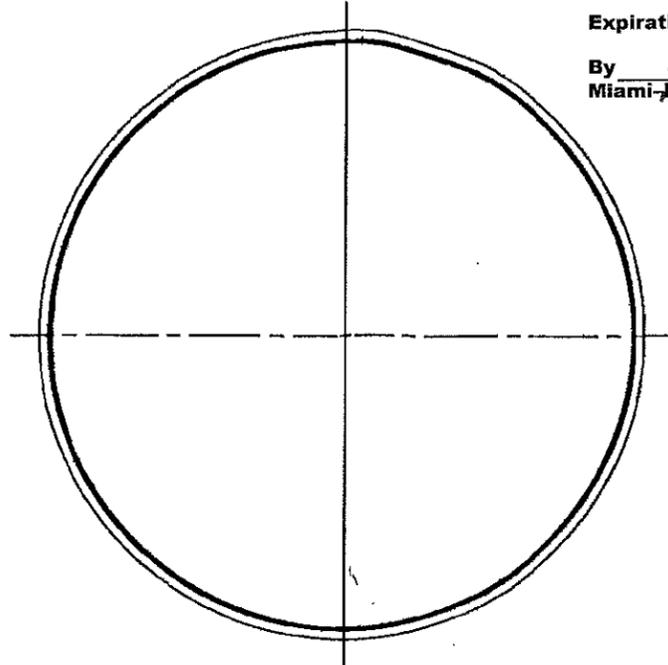
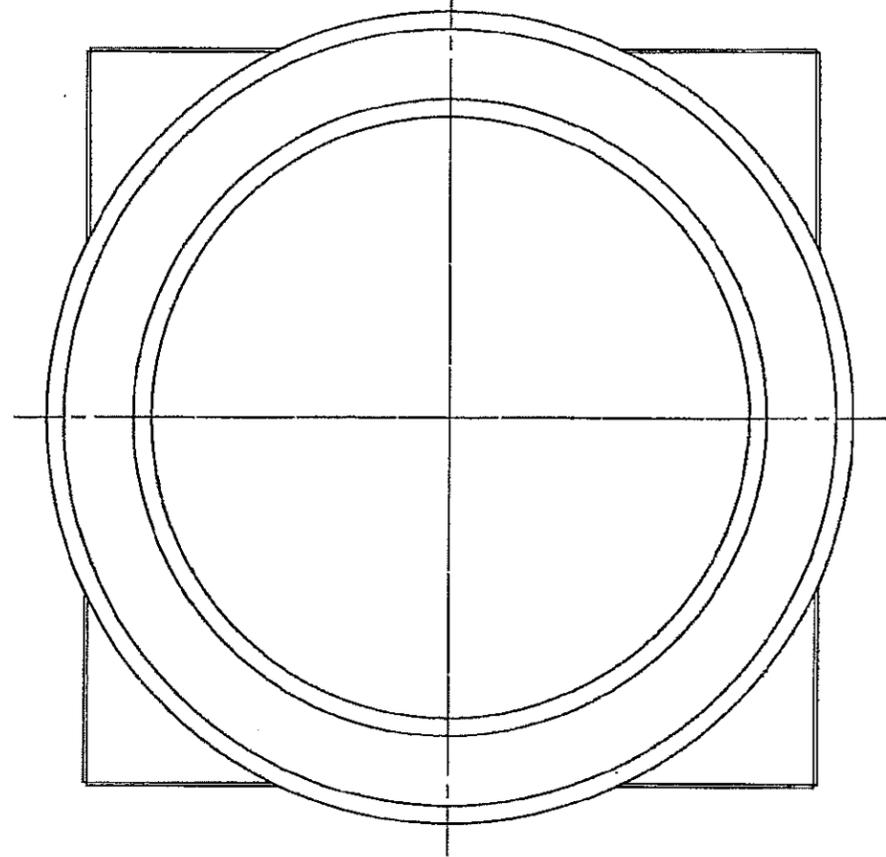
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No **12-0501.04**
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By *[Signature]*
Miami-Dade Product Control

WINDBAND TO CURB CAP CONNECTION
TYP. ALL MODELS

GREENHECK MADE IN MICHIGAN, VICTOR, MICHIGAN	PERIFER	DATE	REV
	03/30/2012	03/30/2012	USGF-140/HP USGF-160/HP/XP USGF-180/HP USGF-200/HP
USGF-140 THRU 200 SHEET 1 OF 5	1/3		
			HSS5001

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HOOD
1 REQ'D. PER UNIT

MODEL	A	B	MATERIAL
USGF-140/HP-160/HP/XP	21.24	2.13	16GA. CRDS
USGF-180/HP-200/HP	25.21	3.00	16GA. CRDS

HOUSING ASSY.
1 REQ'D. PER UNIT

HOODBAND
1 REQ'D. PER UNIT

MODEL	E	F	G	MATERIAL
USGF-140/HP-160/HP/XP	27.70	26.00	20.35	16GA. CRDS
USGF-180/HP-200/HP	34.20	30.00	22.75	16GA. CRDS

MODEL	C	D	MATERIAL
USGF-140/HP-160/HP/XP	20.94	17.00	16GA. CRCS
USGF-180/HP-200/HP	25.00	19.00	16GA. CRCS



Apr. 17, 2012

RICE ENGINEERING

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 Luxemburg, WI 54217
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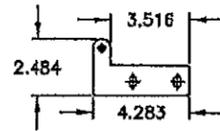
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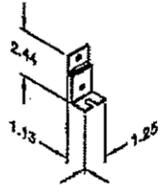
GREENHECK
 MADE IN MICHIGAN, VERIFIED 0479-040

DATE OF INSPECTION: 03/30/2012
 BY: PEEFFER
 USGF-140 THRU 200
 SHEET 2 OF 5
 HSS5002



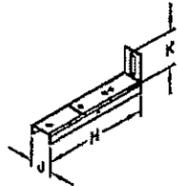
HINGE BRACKET

MODEL	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	4	.190 1100-H14 ALUMINUM
USGF-180/HP-200/HP	4	.190 1100-H14 ALUMINUM



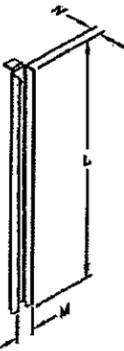
HOODBAND CLIPS

MODEL	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	4	16 GA. GALV G90
USGF-180/HP-200/HP	6	16 GA. GALV G90



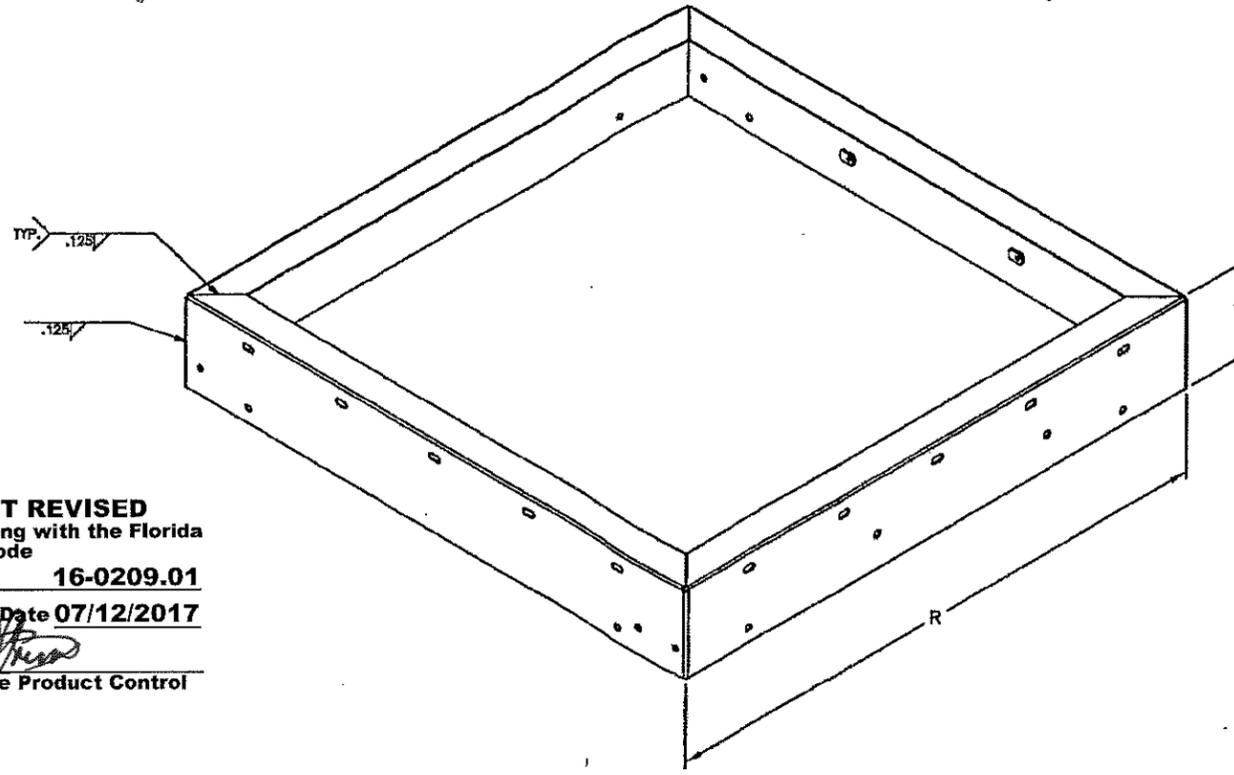
HORIZONTAL SUPPORT

MODEL	H	J	K	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	4.68	1.03	2.00	4	16 GA. GALV. G90
USGF-180/HP-200/HP	5.72	1.03	2.00	6	16 GA. GALV. G90



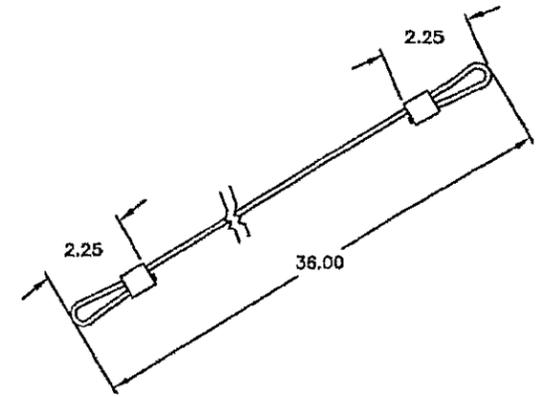
VERTICAL SUPPORT

MODEL	L	M	N	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	10.88	0.885	0.595	4	16 GA. GALV. G90
USGF-180/HP-200/HP	12.78	0.885	0.595	6	16 GA. GALV. G90



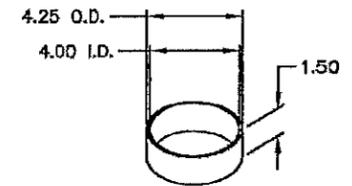
HINGE FRAME ASSEMBLY
1 REQ'D. PER UNIT

MODEL	R	T	MATERIAL
USGF-140-160/HP	25.50	4.58	16 GA. GALV G90
USGF-180/HP-200	29.50	4.58	16 GA. GALV G90



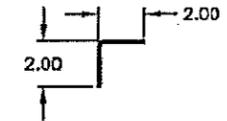
CABLE ASSEMBLY

MODEL	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	2	3/8" GALVANIZED CABLE
USGF-180/HP-200/HP	2	3/8" GALVANIZED CABLE



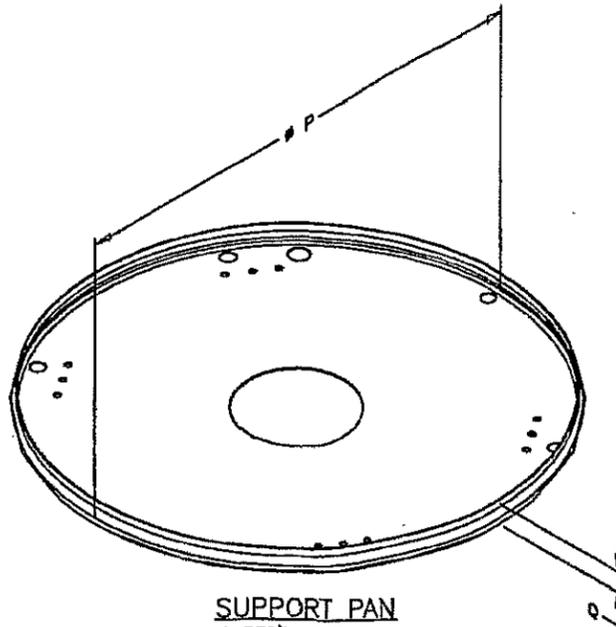
CLEANOUT TUBE

MODEL	QTY.	MATERIAL
USGF-140/HP-160/HP/XP	1	12 GA. CRS
USGF-180/HP-200/HP	1	12 GA. CRS



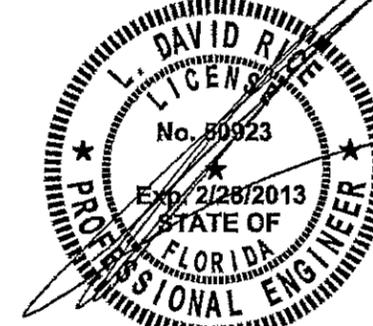
CURB SUPPORT ANGLE

MODEL	QTY.	LENGTH	MATERIAL
USGF-140/HP-160/HP/XP	4	22.61	12 GA. CRS
USGF-180/HP-200/HP	4	28.61	12 GA. CRS



SUPPORT PAN
1 REQ'D. PER UNIT

MODEL	P	Q	MATERIAL
USGF-140-160/HP	20.90	1.50	20 GA. GALV G90
USGF-180/HP-200	25.20	1.20	20 GA. GALV G90



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L. David Rice
Registration No: 50923

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By *[Signature]*
Miami-Dade Product Control

Apr. 17, 2012

ALL DIMENSIONS ARE IN INCHES

USGF 140 THRU 200
SHEET 3 OF 5

HSS5003

HINGE FRAME AND CLEAN OUT ASSEMBLY DETAIL

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CLEAN OUT TUBE
 SEE TUBE DETAIL
 SHEET 3 OF 5

PLUG,
 4" VITON SEAL
 1 PER UNIT

CABLE ASSY.
 SEE CABLE ASSY. DETAIL
 SHEET 3 OF 5

WASHER FLAT
 .125 X .25 X .062
 (2 PER CABLE ASSY.)

NUT, 1/4-20
 (2 PER CABLE ASSY.)

WELD STUD, 1/4-20 X 3/4
 (2 PER CABLE ASSY.)

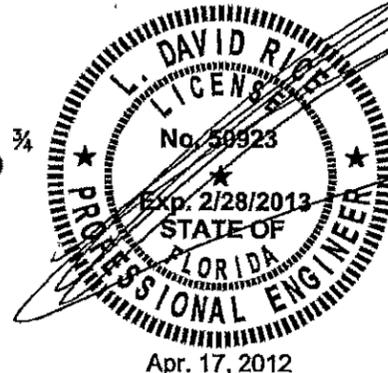
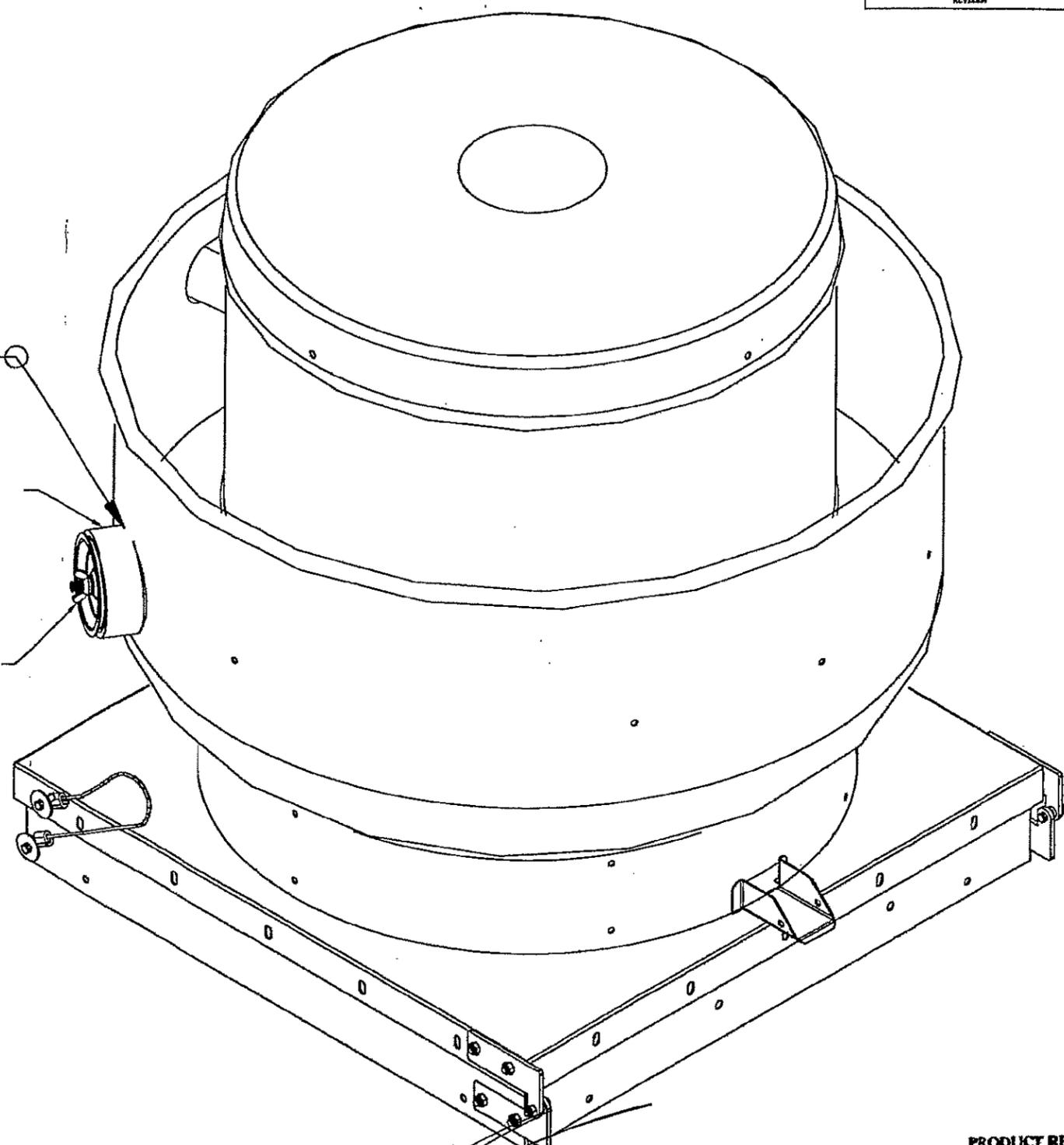
HINGE BRACKET
 SEE HINGE BRACKET DETAIL
 SHEET 3 OF 5

NUT, 1/4-20
 (5 PER HINGE ASSY.)

WELD STUD, 1/4-20 X 3/4
 (4 PER HINGE ASSY.)

HEX BOLT, 1/4-20 X 1
 (1 PER HINGE ASSY.)

WASHER, NYLON
 (2 PER HINGE ASSY.)



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GREENHECK <small>FORM OR SERIAL, VISUAL, NIPS-900</small>	PERFORMER	
	DATE	03/30/2012
USGF-140 THRU 200 SHEET 4 OF 5	1/15	12
	HSS5004	

FAN TO CURB MOUNTING

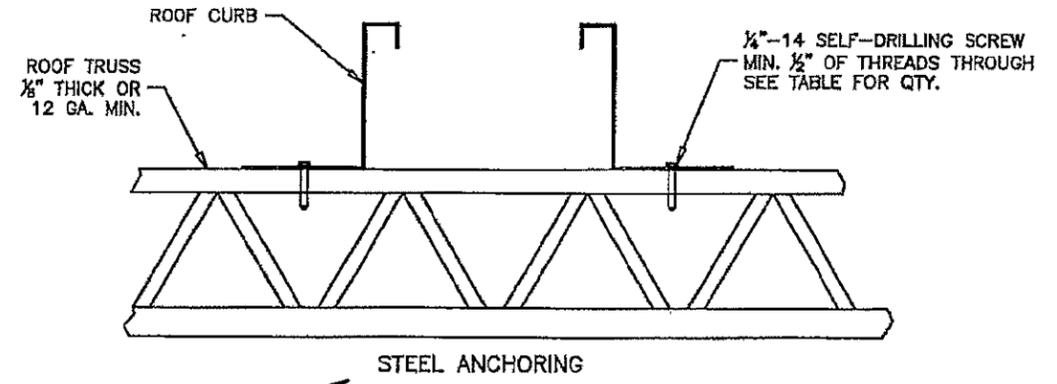
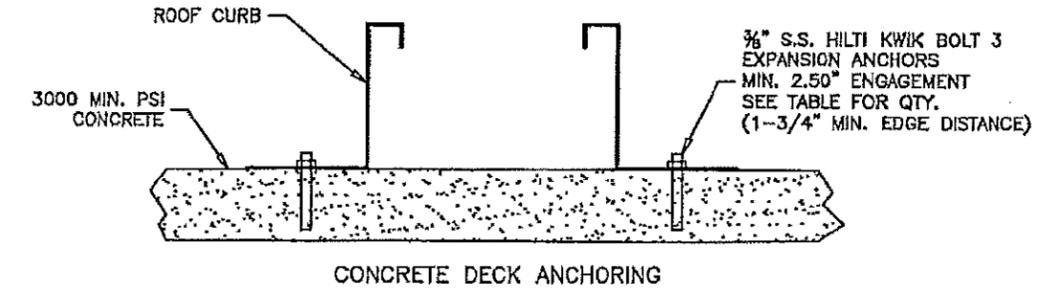
UNIT SIZE	FASTENERS PER SIDE
USGF-140/HP-160/HP/XP	5
USGF-180/HP-200/HP	5

FASTENERS ON EACH SIDE OF THE FAN ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE FASTENERS ARE TO BE EQUALLY SPACED ON 1/8" INCH SELF-DRILLING SCREWS.

CURB TO DECK MOUNTING

UNIT SIZE	CONCRETE ANCHORING NO. OF FASTENERS PER SIDE	STEEL DECK ANCHORING NO. OF FASTENERS PER SIDE
USGF-140/HP-160/HP/XP	5	5
USGF-180/HP-200/HP	7	7

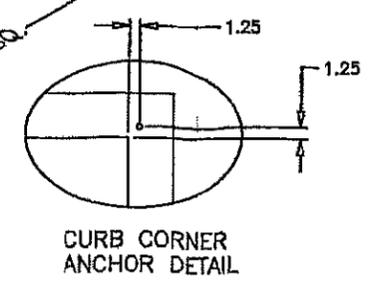
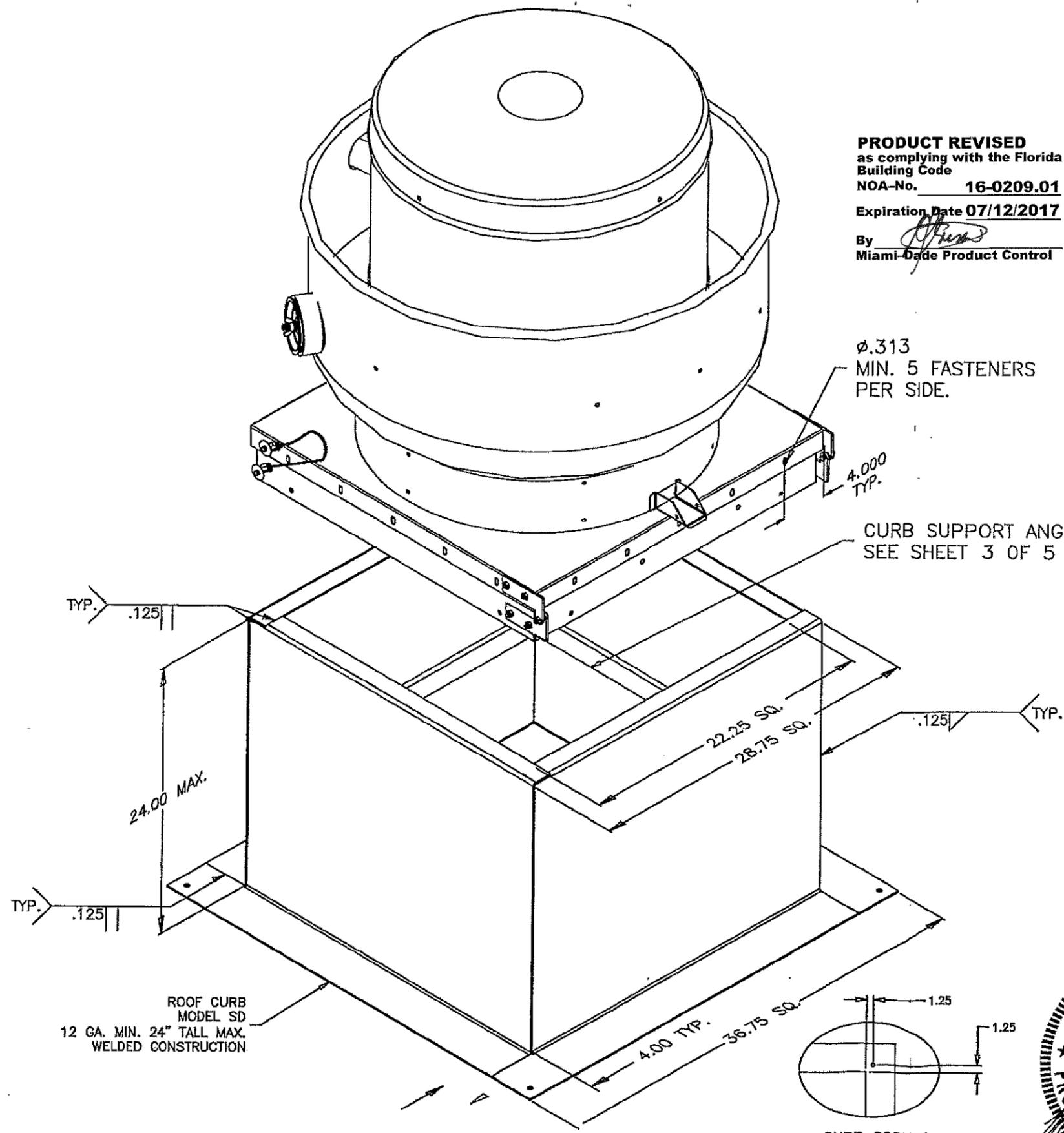
FASTENERS NEED TO BE LOCATED ON 2 OPPOSITE ENDS OF FAN CURB.



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Ø.313
MIN. 5 FASTENERS PER SIDE.

CURB SUPPORT ANGLE
SEE SHEET 3 OF 5



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GREENHECK FLEXIBLE CONNECTIONS	PFEIFFER
	03/30/2012
USGF-140 THRU 200 SHEET 5 OF 5	1/3B
	HSS505

Apr. 17, 2012