



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

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 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: Models FGI, FGR and R-Series Steel/Aluminum Roof Fans

APPROVAL DOCUMENT: Drawing No. **HR2001** to **HR2007**, titled "R Series Units, FGI and FGR", Sheets 1 through 7 of 7, dated 02/24/09, 02/03/09, 02/05/09 and 03/09/09, prepared by Greenheck Fan Corporation, 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.**



Utrera
 6/15/09

NOA No. 09-0511.03
Expiration Date: July 08, 2014
Approval Date: July 08, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **HR2001** to **HR2007**, titled "R Series Units, FGI and FGR", Sheets 1 through 7 of 7, dated 02/24/09, 02/03/09, 02/05/09 and 03/09/09, prepared by Greenheck Fan Corporation, signed and sealed by L. David Rice, P.E.

B. TESTS

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 Galvanized Steel R-Series Hooded Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **88031.01-602-18**, dated 03/20/09, signed and sealed by Joseph A. Reed, P.E.
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,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Aluminum R-Series Hooded Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **88800.01-602-18**, dated 03/20/09, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchoring verification calculations, prepared by Rice Engineering, dated 04/30/09, 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

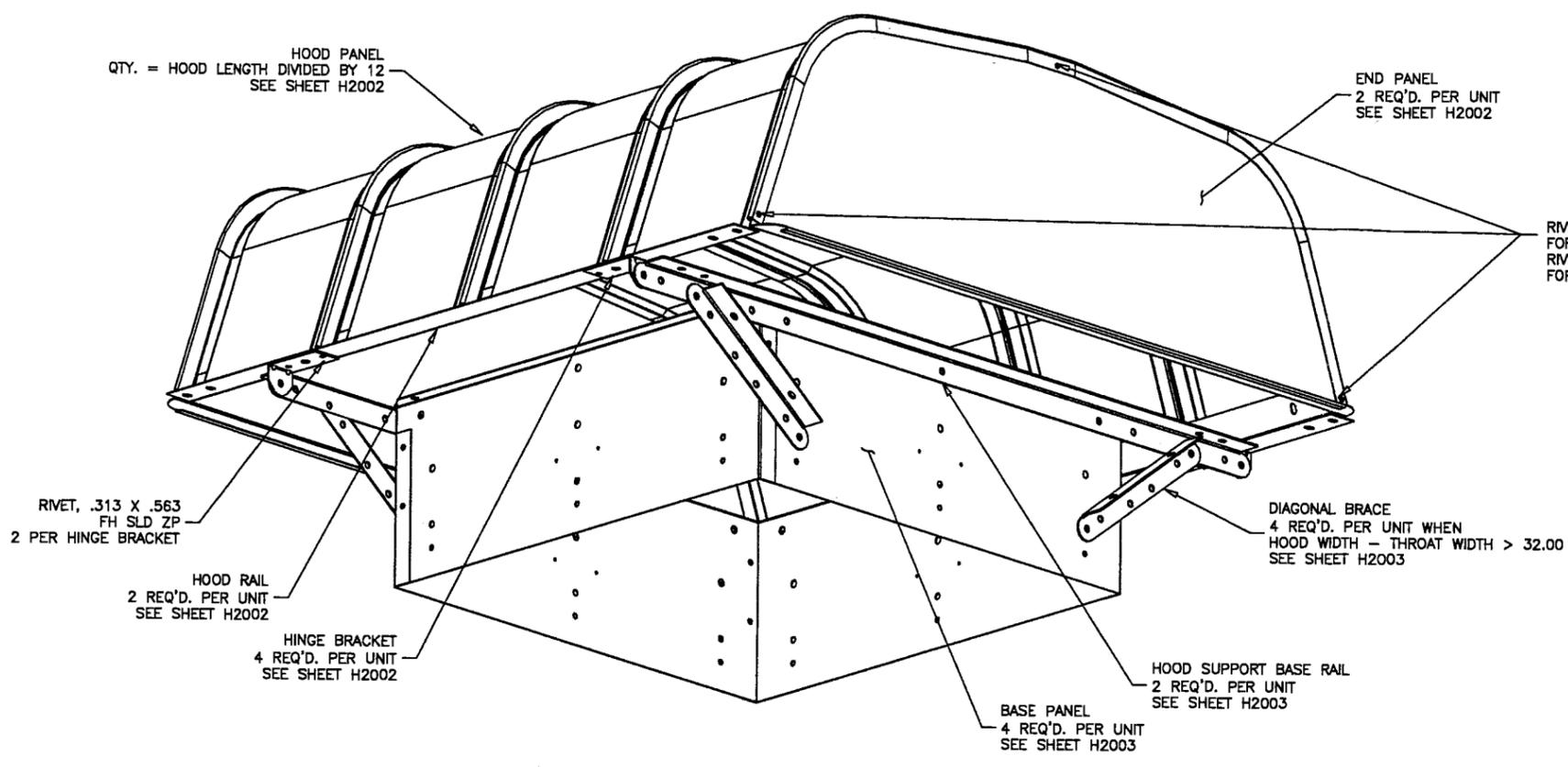
1. Code compliance letter issued by Rice Engineering, dated 04/28/09, signed and sealed by L. David Rice, P.E.
2. No financial interest letter issued by Rice Engineering, dated 04/28/09, signed and sealed by L. David Rice, P.E.



6/15/09

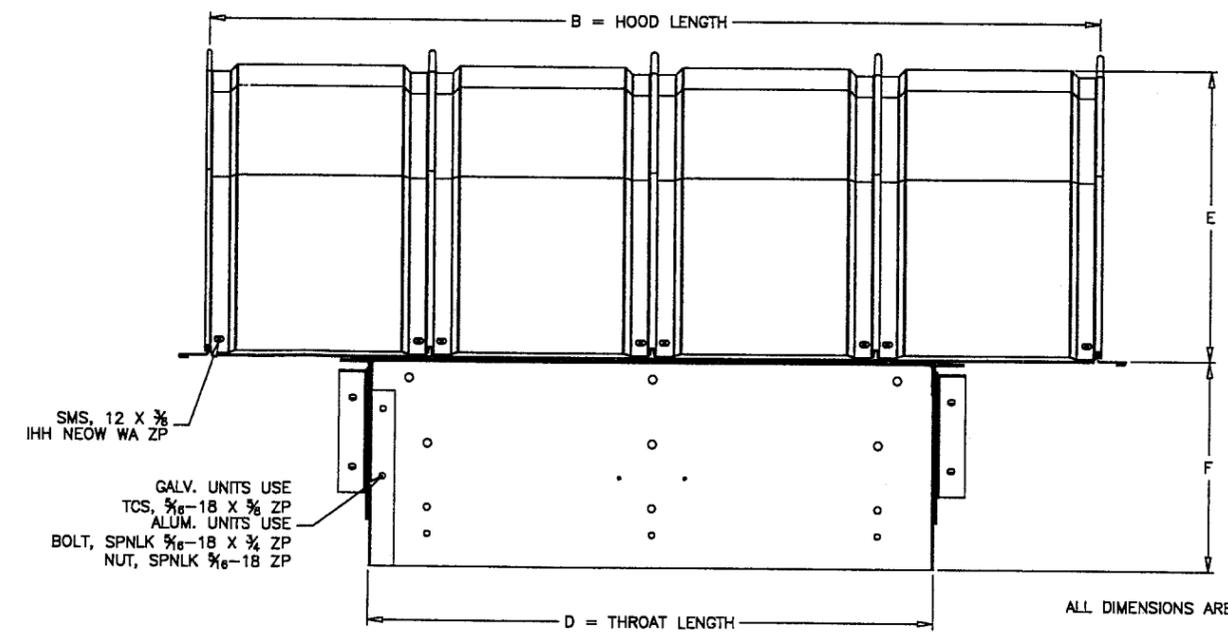
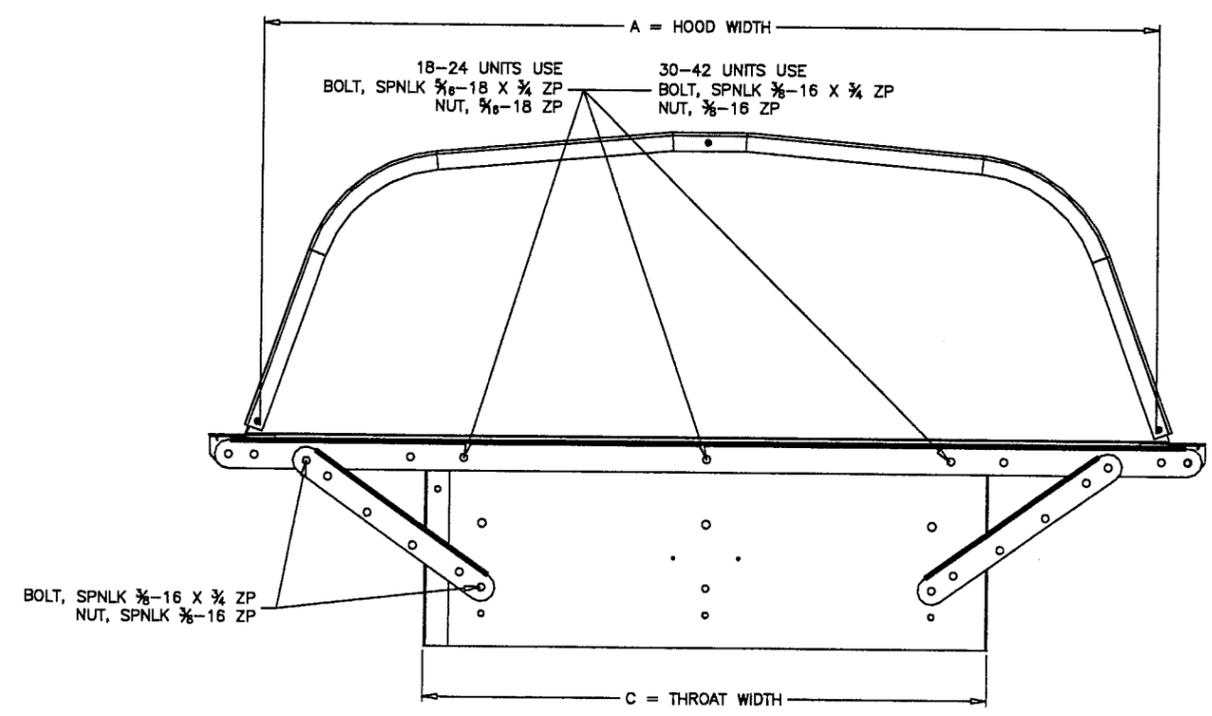
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0511.03
Expiration Date: July 08, 2014
Approval Date: July 08, 2009

- NOTES:**
1. MODELS RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF, RPDR, RPBR, RPDRV AND RPBRF HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-202 (STATIC LOADING), AND TAS-203 (CYCLIC WIND 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 FLORIDA BUILDING CODE.
 4. DESIGN PRESSURE = +/- 130 PSF FOR STEEL AND +/- 70 PSF FOR AL. LARGE MISSILE IMPACT RESISTANT.
 5. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
 6. THESE FANS HAVE NOT BEEN TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS-100 (A)-95
 7. 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.



UNIT SIZE	EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF								APPROX. WEIGHT (LBS.)	
	STANDARD HOOD A	FILTERED HOOD A	STANDARD HOOD B	FILTERED HOOD B	C	D	E	F	STEEL	ALUMINUM
	18	44.00	50.00	48.00	48.00	28.25	28.25	13.00	10.00	185
20	50.00	50.00	48.00	48.00	30.25	30.25	16.00	11.00	220	190
24	62.00	62.00	60.00	60.00	34.25	34.25	18.00	11.00	260	225
30	71.00	74.00	72.00	84.00	40.25	40.25	20.00	14.00	295	250
36	84.00	90.00	84.00	84.00	46.25	46.25	22.00	17.50	340	290
42	82.00	89.00	96.00	96.00	52.25	52.25	24.00	18.50	465	395

REVERSIBLE RPDR, RPBR, RPDRF, RPBRF										
24	62.00	62.00	48.00	60.00	34.25	34.25	18.00	14.00	260	225
30	70.00	74.00	48.00	84.00	40.25	40.25	20.00	14.00	295	250
36	72.00	90.00	60.00	84.00	46.25	46.25	21.00	17.50	340	290
42	82.00	96.00	72.00	96.00	52.25	52.25	24.50	18.50	465	395



ALL DIMENSIONS ARE IN INCHES

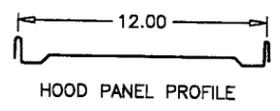
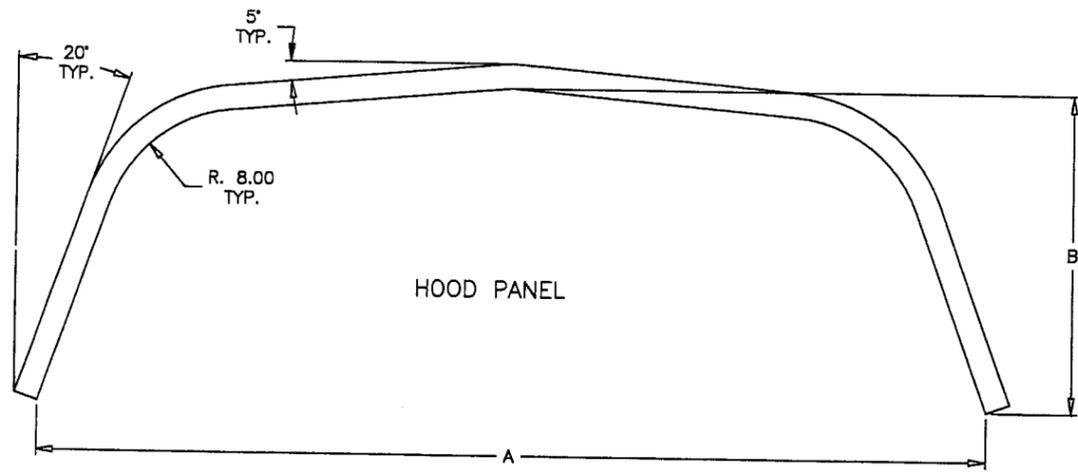
APR 28 2009

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920.845.1042
Fax: 920.845.1048
www.rice-inc.com

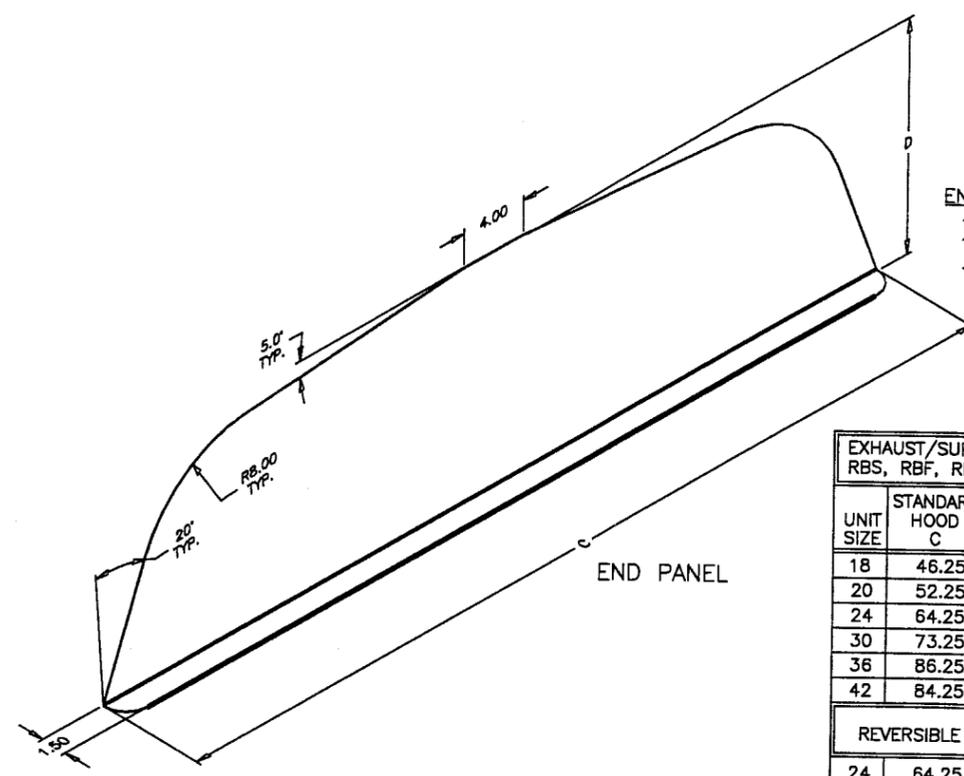
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

Approved as complying with the
Florida Building Code
Date 07/08/2009
NCAA# 07-0571.03
Miami Dade Product Control
Division
By *[Signature]*

GREENHECK FLOOR & ROOF VENTILATION SYSTEMS	YAKLOVICH
	02/24/2009
R SERIES UNITS SHEET 1 OF 7	1/4.5 HR2001



HOOD PANEL MATERIAL
 22 GA. GALV. G90
 22 GA. GVN. A60
 .050 AL 3105-H24



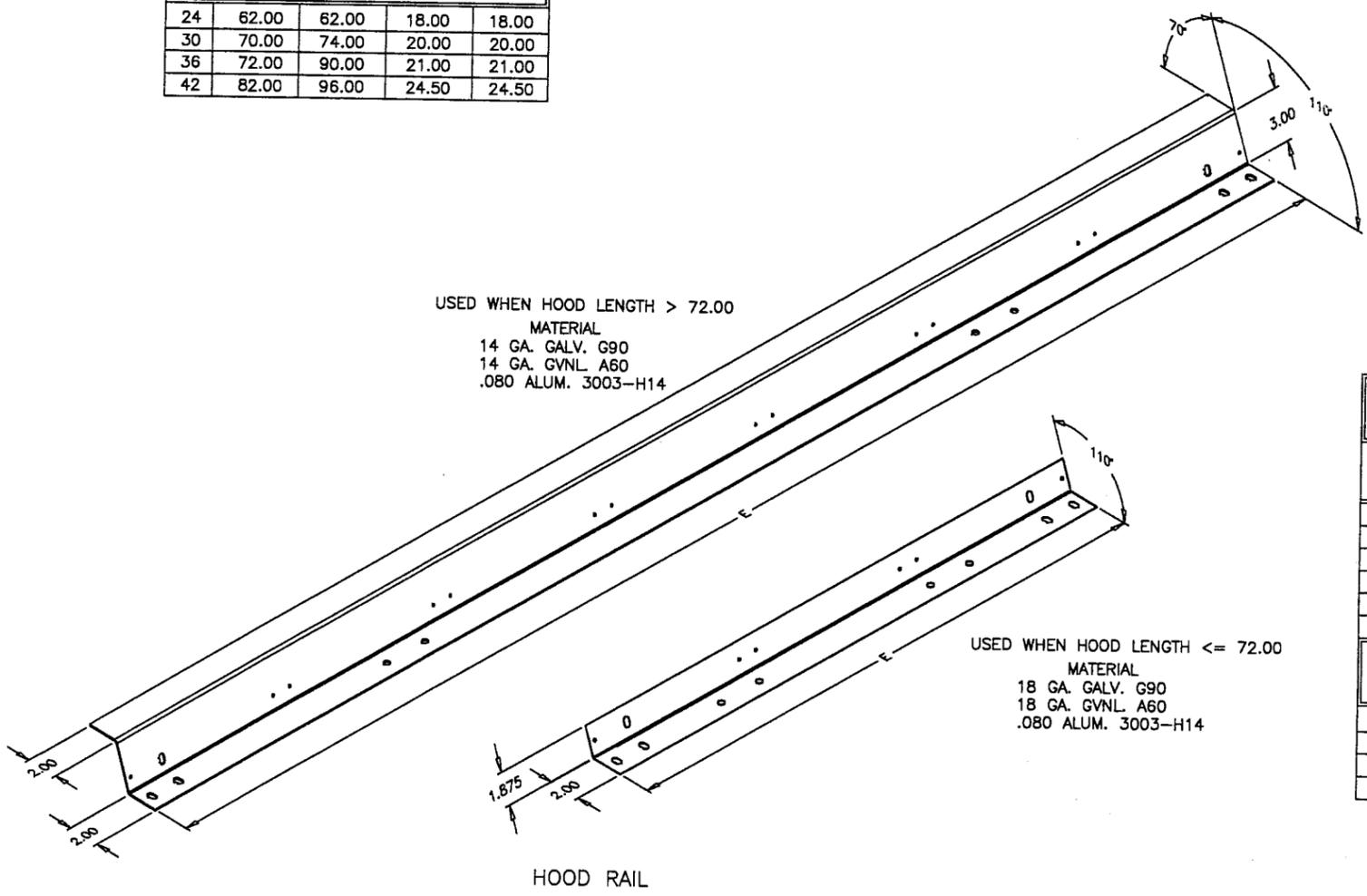
END PANEL MATERIAL
 18 GA. GALV. G90
 18 GA. GVN. A60
 .063 AL 1100-H14

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF				
UNIT SIZE	STANDARD HOOD A	FILTERED HOOD A	STANDARD HOOD B	FILTERED HOOD B
18	44.00		13.00	
20	50.00	50.00	16.00	16.00
24	62.00	62.00	18.00	18.00
30	71.00	74.00	20.00	20.00
36	84.00	90.00	22.00	22.00
42	82.00	89.00	24.00	24.00

REVERSIBLE RPDR, RPBR, RPDRF, RPBRF				
UNIT SIZE	STANDARD HOOD A	FILTERED HOOD A	STANDARD HOOD B	FILTERED HOOD B
24	62.00	62.00	18.00	18.00
30	70.00	74.00	20.00	20.00
36	72.00	90.00	21.00	21.00
42	82.00	96.00	24.50	24.50

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF				
UNIT SIZE	STANDARD HOOD C	FILTERED HOOD C	STANDARD HOOD D	FILTERED HOOD D
18	46.25		13.75	
20	52.25	52.25	16.75	16.75
24	64.25	64.25	18.75	18.75
30	73.25	76.25	20.75	20.75
36	86.25	92.25	22.75	22.75
42	84.25	91.25	24.75	24.75

REVERSIBLE RPDR, RPBR, RPDRF, RPBRF				
UNIT SIZE	STANDARD HOOD C	FILTERED HOOD C	STANDARD HOOD D	FILTERED HOOD D
24	64.25	64.25	18.75	18.75
30	72.25	76.25	20.75	20.75
36	74.25	92.25	21.75	21.75
42	84.25	98.25	25.25	25.25

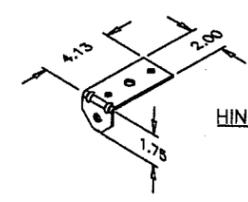


USED WHEN HOOD LENGTH > 72.00
 MATERIAL
 14 GA. GALV. G90
 14 GA. GVN. A60
 .080 ALUM. 3003-H14

USED WHEN HOOD LENGTH <= 72.00
 MATERIAL
 18 GA. GALV. G90
 18 GA. GVN. A60
 .080 ALUM. 3003-H14

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF		
UNIT SIZE	STANDARD HOOD E	FILTERED HOOD E
18	47.50	
20	47.50	47.50
24	59.50	59.50
30	71.50	83.50
36	83.5	83.50
42	95.50	95.50

REVERSIBLE RPDR, RPBR, RPDRF, RPBRF		
UNIT SIZE	STANDARD HOOD E	FILTERED HOOD E
24	59.50	59.50
30	71.50	83.50
36	83.50	83.50
42	95.50	95.50



HINGE BRACKET MATERIAL
 11 GA. GALV. G90

HINGE BRACKET

RICE ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
 Fax: 920.845.1048
 www.rice-inc.com

Approved as complying with the Florida Building Code
 Date 07/03/2009
 NOA# 09-0511-03
 Miami: Dade Product Control
 Division
 By *[Signature]*

APR 28 2009

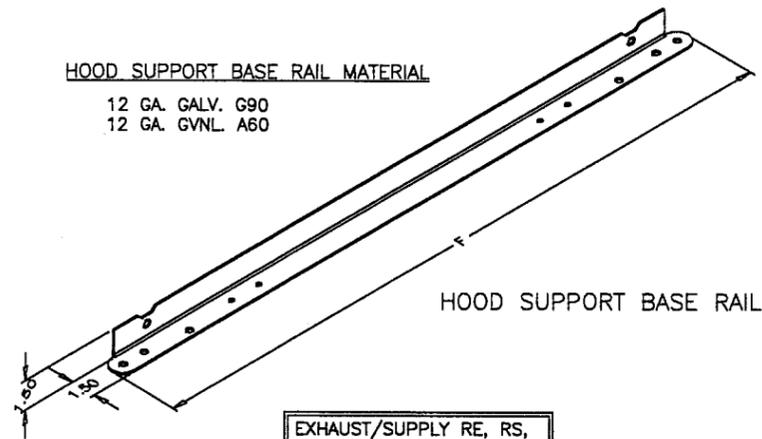
ALL DIMENSIONS ARE IN INCHES

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

GREENHECK FLOOR & WALL SYSTEMS	YAKLOVICH
	02/24/2009
R SERIES UNITS SHEET 2 OF 7	1/4.5
HR2002	

HOOD SUPPORT BASE RAIL MATERIAL

12 GA. GALV. G90
12 GA. GVN. A60



HOOD SUPPORT BASE RAIL

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF

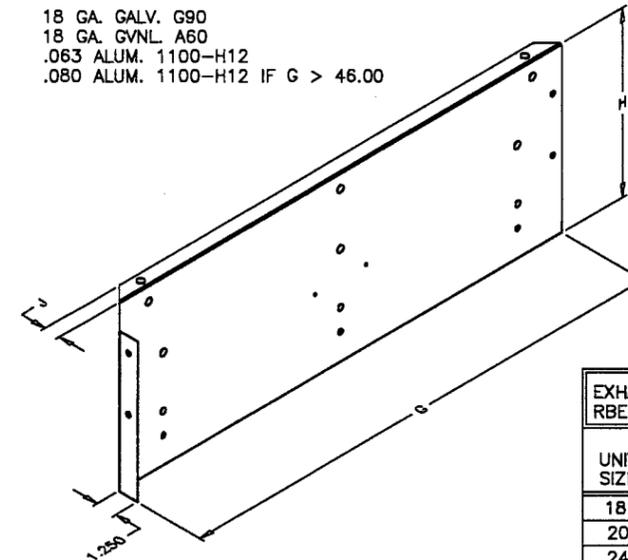
UNIT SIZE	STANDARD HOOD F	FILTERED HOOD F
18	47.50	
20	53.50	53.50
24	65.50	65.50
30	74.50	77.50
36	87.50	93.50
42	85.50	92.50

REVERSIBLE
RPDR, RPBR, RPDRF, RPBRF

24	65.50	65.50
30	73.50	77.50
36	75.50	93.50
42	85.50	99.50

BASE PANEL MATERIAL

18 GA. GALV. G90
18 GA. GVN. A60
.063 ALUM. 1100-H12
.080 ALUM. 1100-H12 IF G > 46.00



BASE PANEL

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF

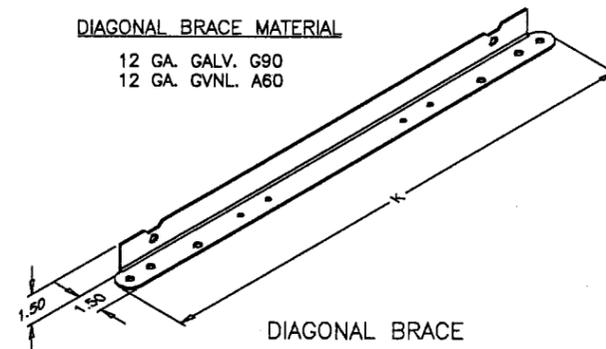
UNIT SIZE	G	H	J
18	28.19	10.00	1.00
20	30.25	11.00	0.94
24	34.25	11.00	0.94
30	40.25	14.00	0.94
36	46.25	17.50	0.94
42	52.19	18.50	0.94

REVERSIBLE
RPDR, RPBR, RPDRF, RPBRF

24	34.25	11.00	0.94
30	40.25	14.00	0.94
36	46.25	17.50	0.94
42	52.19	18.50	0.94

DIAGONAL BRACE MATERIAL

12 GA. GALV. G90
12 GA. GVN. A60



DIAGONAL BRACE

EXHAUST/SUPPLY RE, RS, RCE, RCS, RBE, RBS, RBF, RBCE, RBCS, RBCF

UNIT SIZE	STANDARD HOOD K	FILTERED HOOD K
18		
20		
24		
30		20.54
36	24.45	26.99
42	21.25	23.89

REVERSIBLE
RPDR, RPBR, RPDRF, RPBRF

24		
30		20.54
36		26.99
42	21.25	26.89

APR 28 2009



RICE ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
Phone: 920.845.1042
Fax: 920.845.1048
www.rice-inc.com

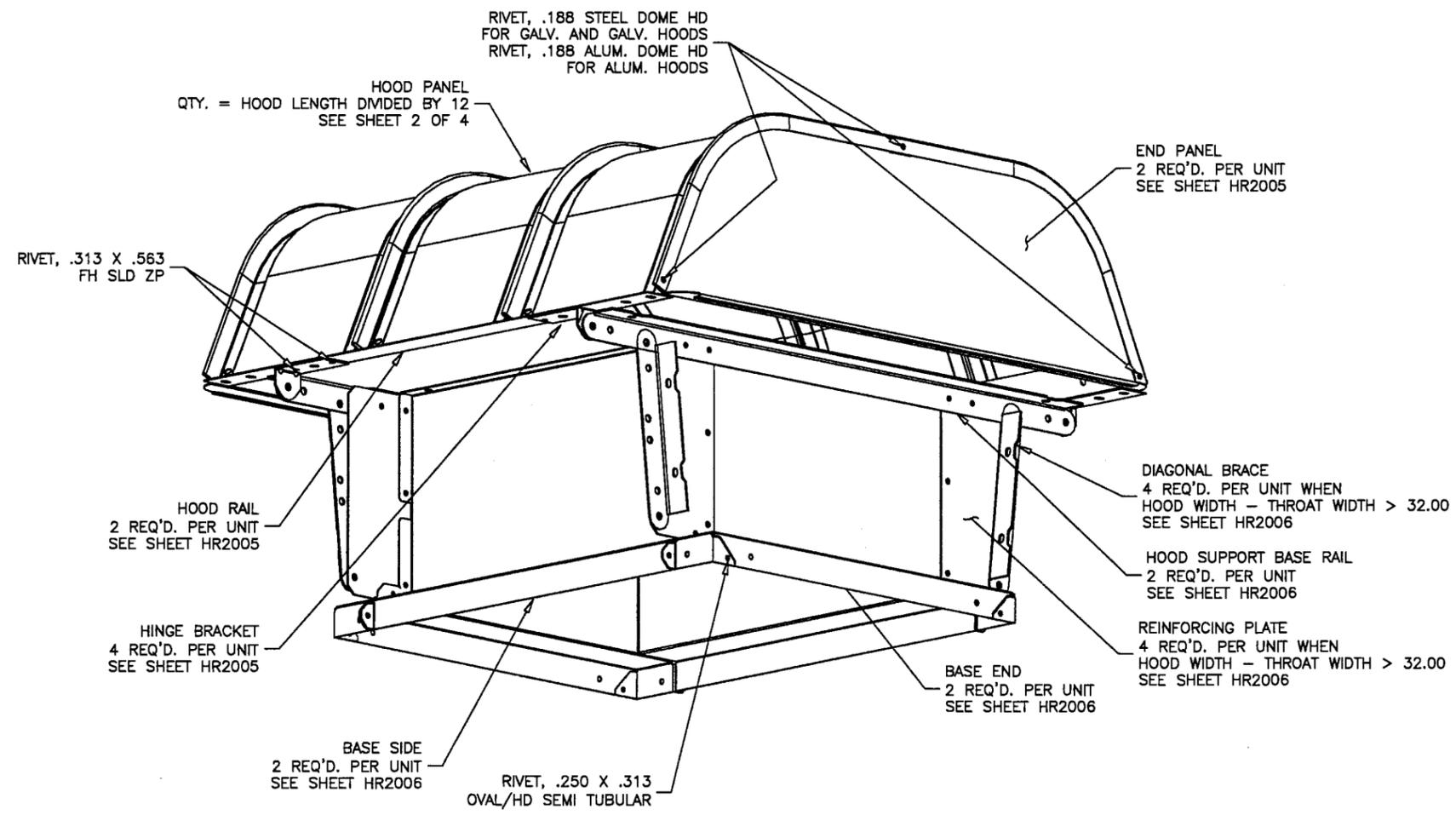
Approved as complying with the
Florida Building Code
Date 07/08/2009
NOA# 07-0511.03
Miami Dade Product Control
Division
By *[Signature]*

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

ALL DIMENSIONS ARE IN INCHES

	DRAWN BY YAKLOVICH
	DATE 02/24/2009
R SERIES UNITS SHEET 3 OF 7	SCALE 1/4" = 1'-0" TITLE HR2003

REVISION	DCR	BY	DATE	SYM
CREATED HURRICANE RATED DWG.		DFV	02/03/2009	(D)



NOTES:

1. MODELS FGI AND FGR HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-202 (STATIC LOADING), AND TAS-203 (CYCLIC WIND 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 FLORIDA BUILDING CODE.
4. DESIGN PRESSURE = +/- 130 PSF FOR STEEL AND +/- 70 PSF FOR AL. LARGE MISSILE IMPACT RESISTANT.
5. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
6. THESE FANS HAVE NOT BEEN TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS-100 (A)-95
7. 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.
8. FGI THROAT = MIN. 8.00 X 8.00 MAX. 54.00 X 54.00
FGR THROAT = MIN. 8.00 X 8.00 MAX. 66.00 X 66.00

Approved as complying with the Florida Building Code
Date 07/08/2009
NOA# 07-0371.03
Miami Dade Product Control Division
By *[Signature]*

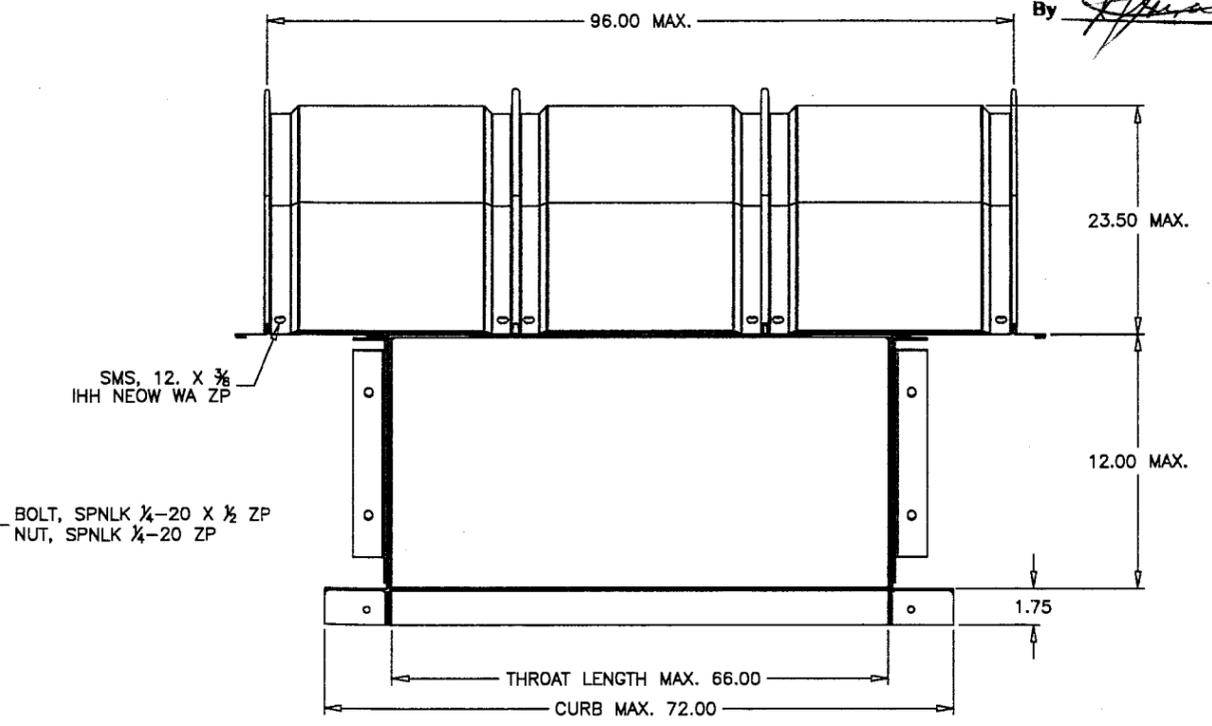
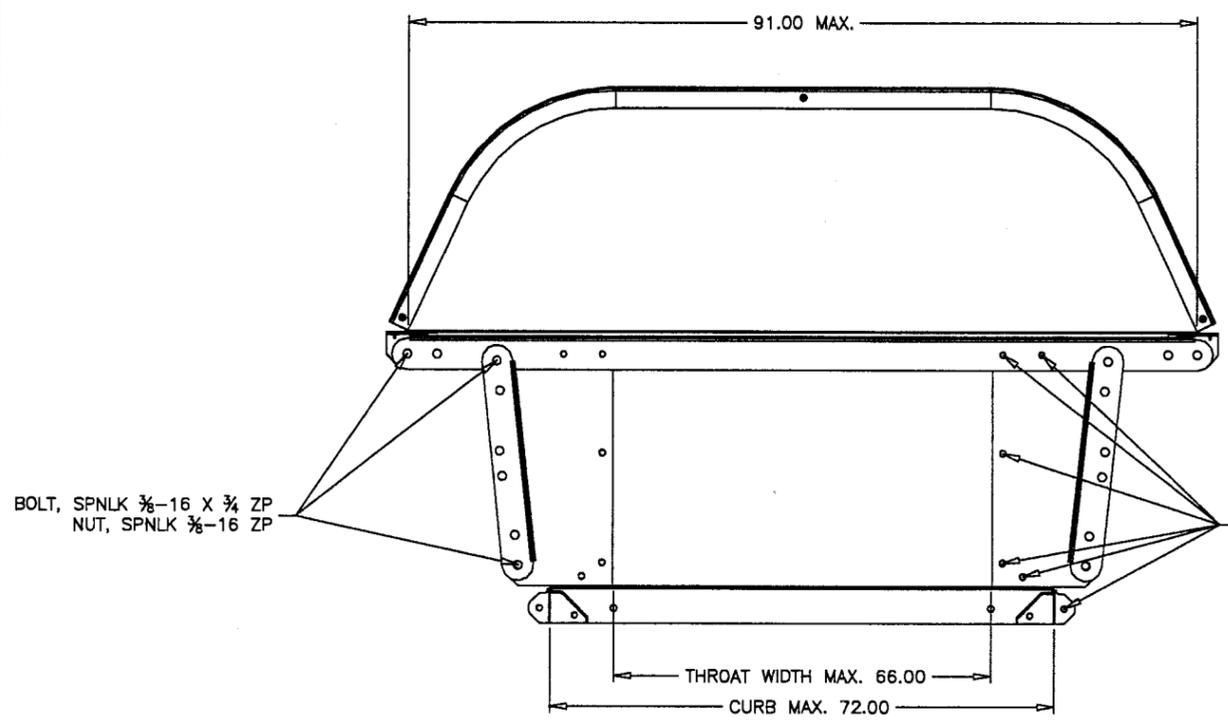
APR 28 2009

[Handwritten Signature]

RICE ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
Phone: 920.845.1042
Fax: 920.845.1048
www.rice-inc.com

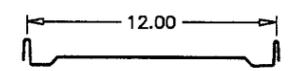
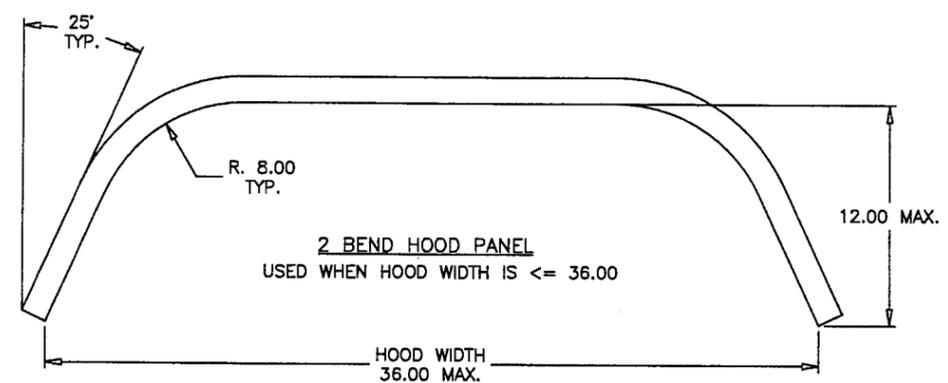
Florida Firm No: F-0100005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923



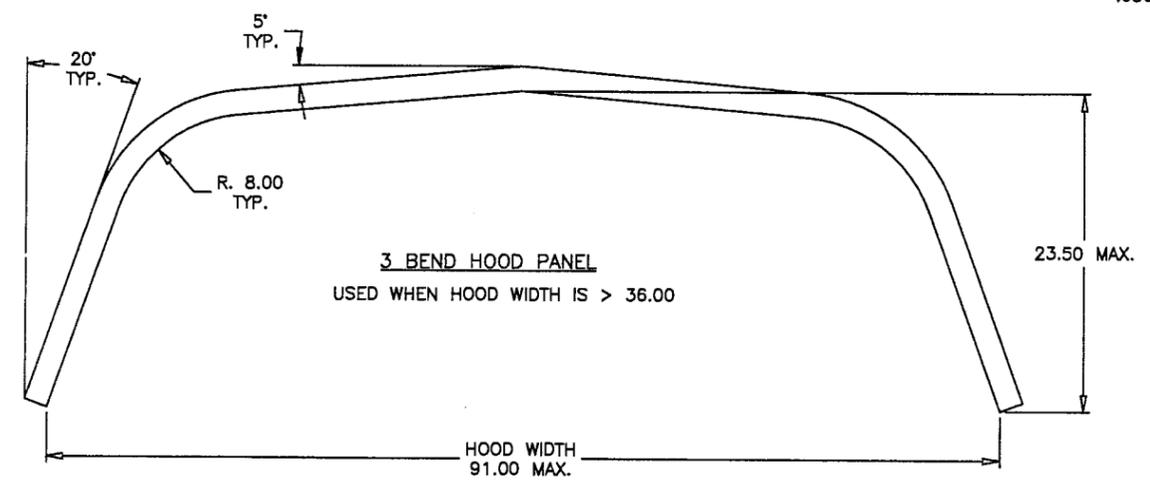
ALL DIMENSIONS ARE IN INCHES

	DRAWN BY YAKLOVICH
	DATE 02/03/2009
FGI & FGR SHEET 4 OF 7	SCALE 1/4"=1'
HR2004	

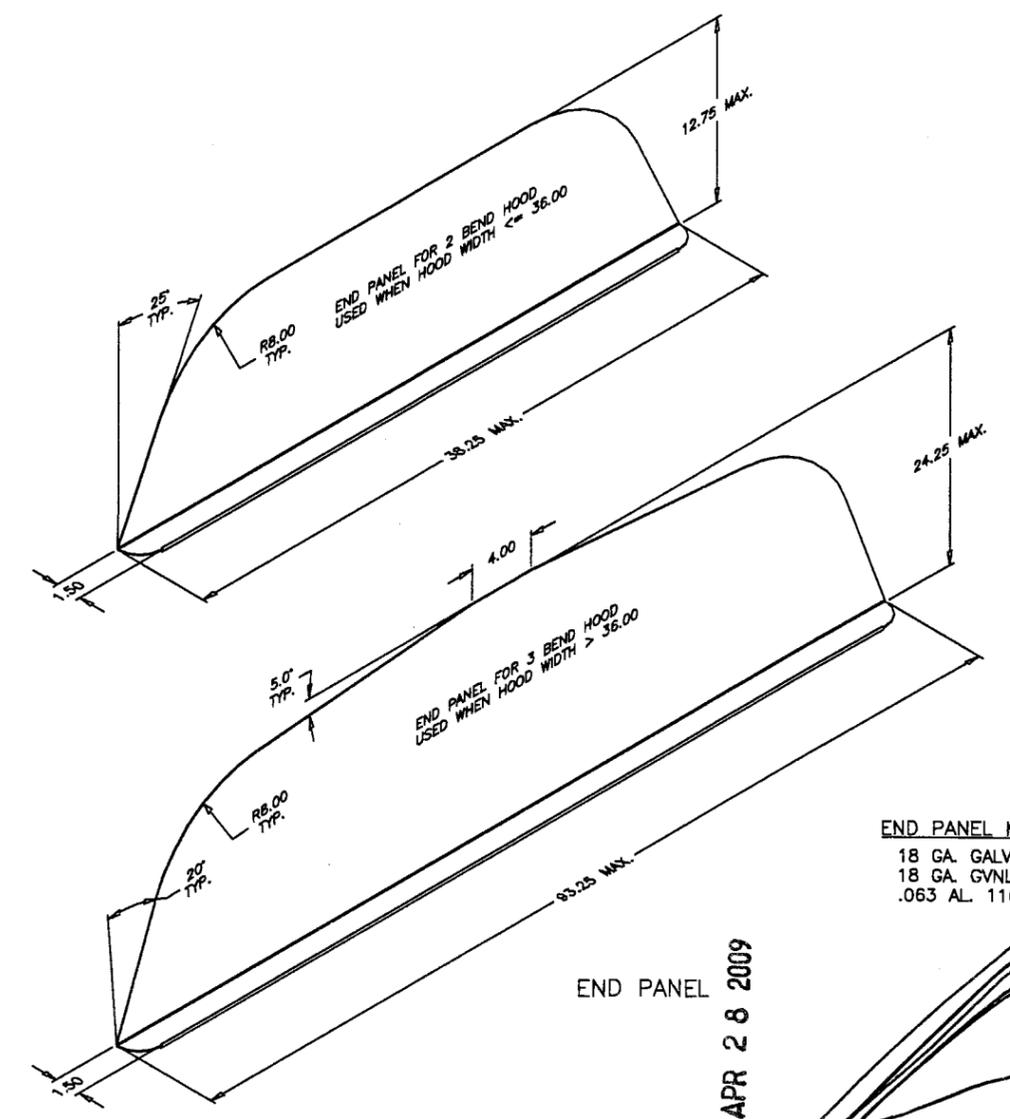
REVISION	BY	DATE	BY
CREATED HURRICANE RATED DWG.	DFY	03/02/2009	D



HOOD PANEL MATERIAL
 22 GA. GALV. G90
 22 GA. GVN. A60
 .040 AL. 3003-H14 WHEN THROAT WIDTH <= 36.00
 .050 AL. 3105-H24 WHEN THROAT WIDTH > 36.00



HOOD PANEL



END PANEL MATERIAL
 18 GA. GALV. G90
 18 GA. GVN. A60
 .063 AL. 1100-H14

END PANEL

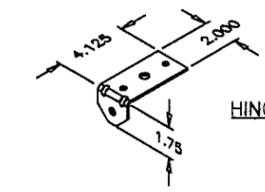
APR 28 2009

Approved as complying with the Florida Building Code
 Date 07/03/2009
 NOA# 09-0511.03
 Miami Dade Product Control
 By *[Signature]*

RICE ENGINEERING

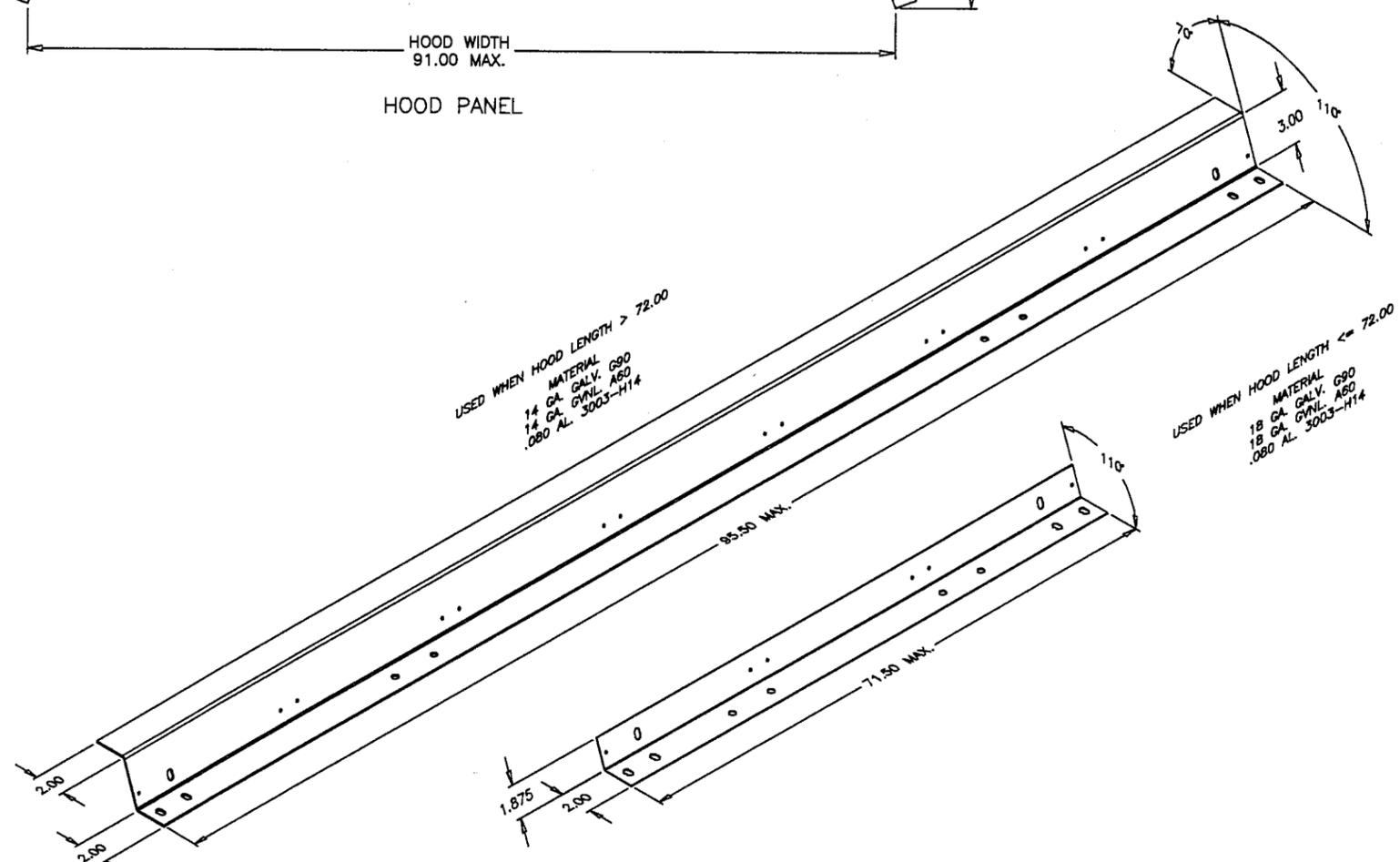
105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
 Fax: 920.845.1048
 www.rice-inc.com

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



HINGE BRACKET MATERIAL
 11 GA. GALV. G90

HINGE BRACKET

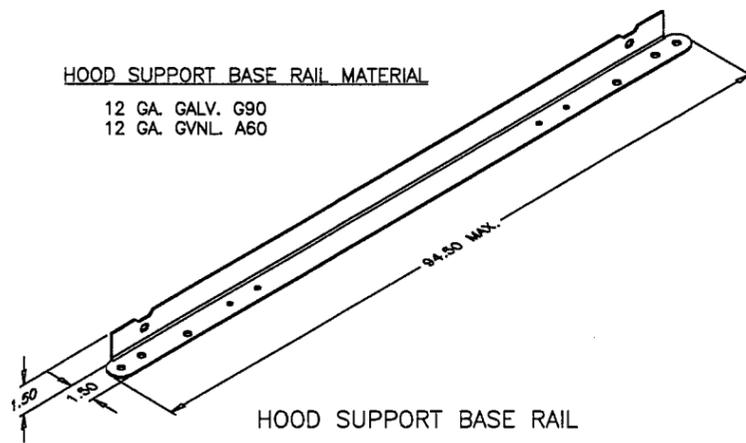


HOOD RAIL

ALL DIMENSIONS ARE IN INCHES

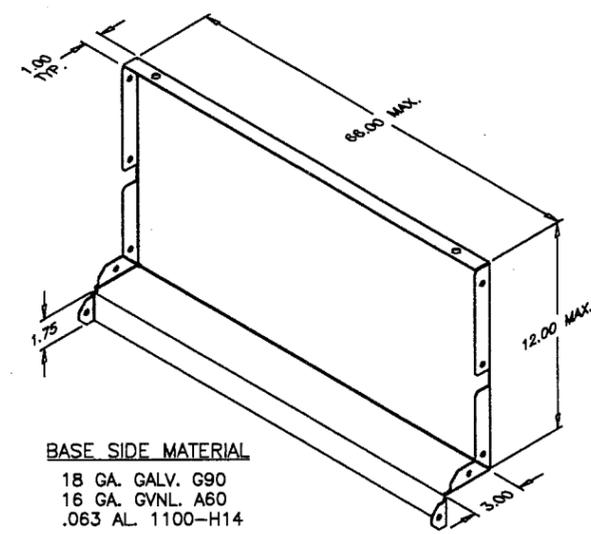
GREENHECK P.O. BOX 88 SCHWAB, WISCONSIN 54756-0088	BY YAKLOVICH
	DATE 02/03/2009
FGI & FGR SHEET 5 OF 7	1/4.5 HR2005

REVISION	BY	DATE	BY	DATE
CREATED HURRICANE RATED DWG.	DFY	03/05/2009		



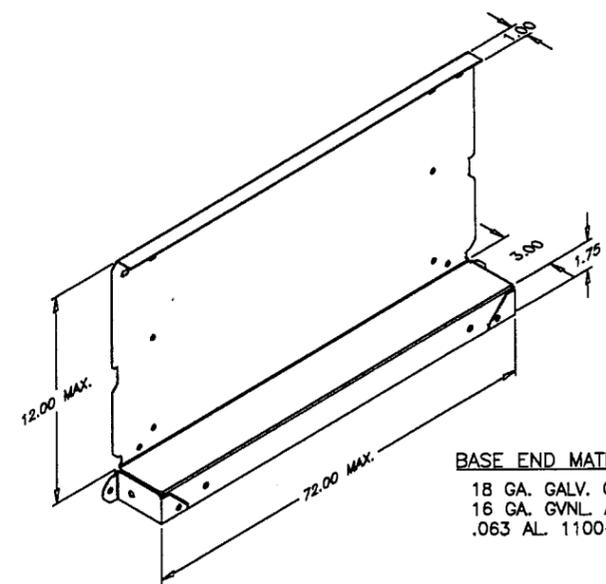
HOOD SUPPORT BASE RAIL MATERIAL
 12 GA. GALV. G90
 12 GA. GVN. A60

HOOD SUPPORT BASE RAIL



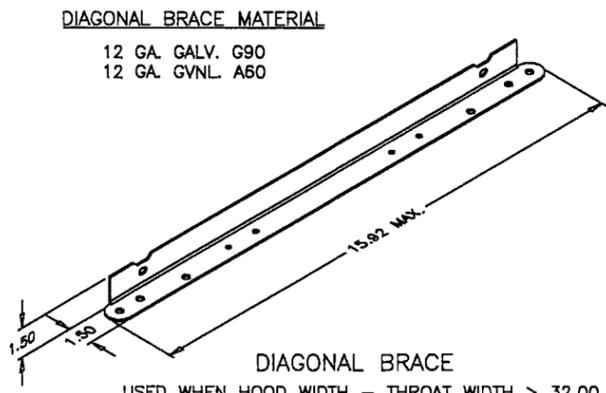
BASE SIDE MATERIAL
 18 GA. GALV. G90
 16 GA. GVN. A60
 .063 AL. 1100-H14

BASE SIDE



BASE END MATERIAL
 18 GA. GALV. G90
 16 GA. GVN. A60
 .063 AL. 1100-H14

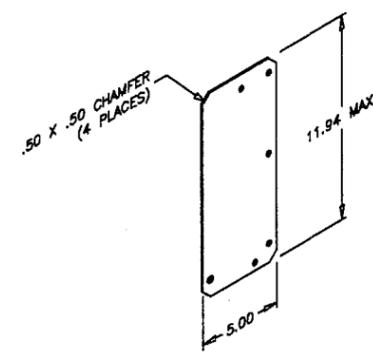
BASE END



DIAGONAL BRACE MATERIAL
 12 GA. GALV. G90
 12 GA. GVN. A60

DIAGONAL BRACE

USED WHEN HOOD WIDTH - THROAT WIDTH > 32.00

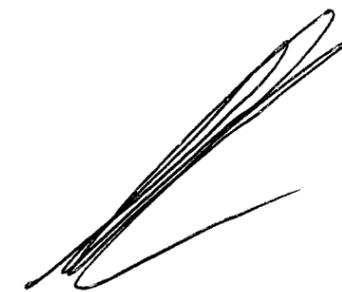


REINFORCING PLATE MATERIAL
 12 GA. GALV. G90
 12 GA. GVN. A60

REINFORCING PLATE

USED WHEN HOOD WIDTH - THROAT WIDTH > 32.00

APR 28 2009



RICE ENGINEERING

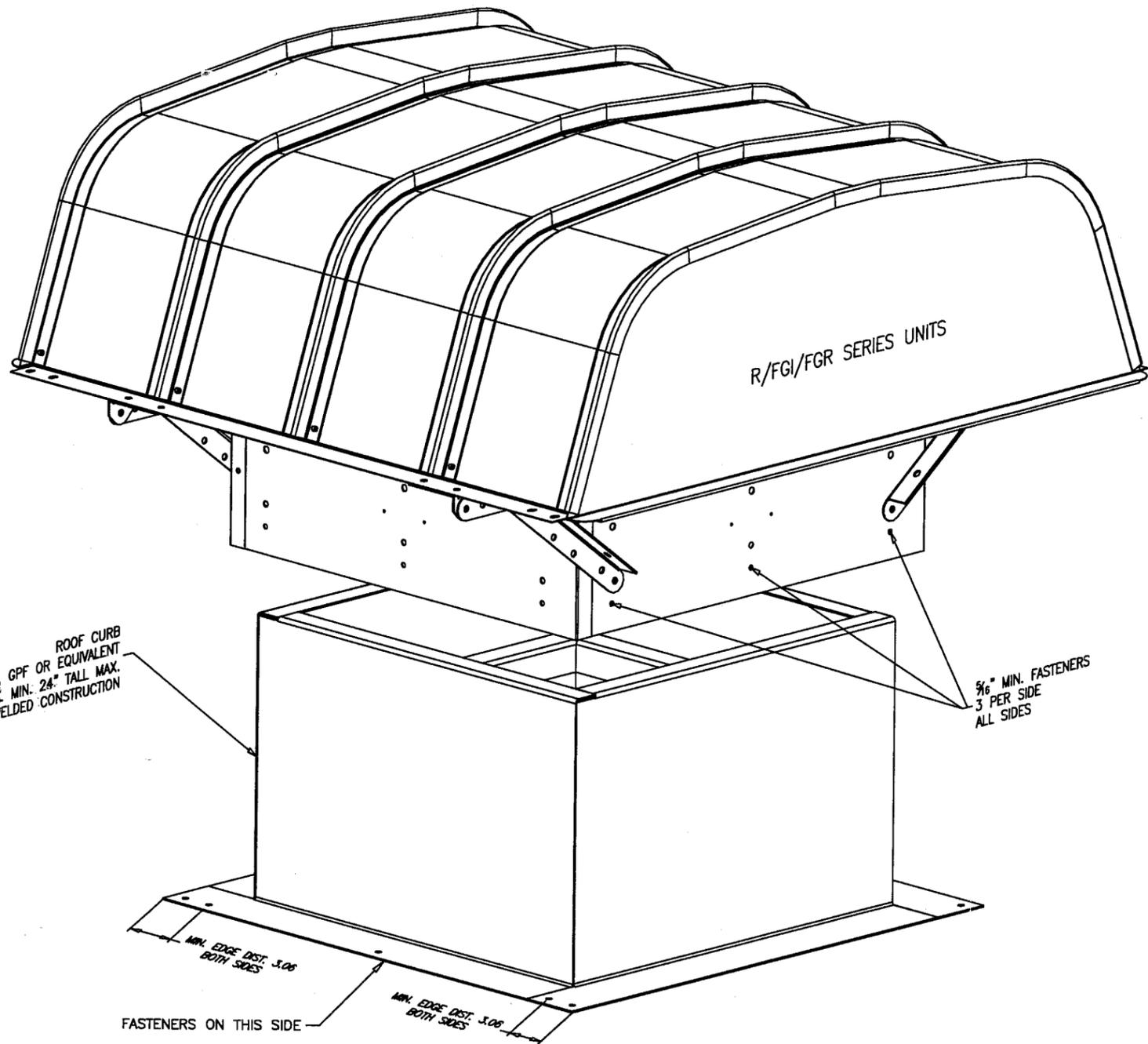
105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
 Fax: 920.845.1048
 www.rice-inc.com

Approved as complying with the
 Florida Building Code
 Date: 07/08/2009
 NOA#: 07-0511.03
 Miami Dade Product Control
 Division
 By: *[Signature]*

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

ALL DIMENSIONS ARE IN INCHES

	YAKLOVICH 02/05/2009
	FGI & FGR SHEET 6 OF 7
HR2006	



UNIT SIZE	CONCRETE ANCHORING NO. OF FASTENERS PER SIDE	STEEL DECK ANCHORING NO. OF FASTENERS PER SIDE	TIMBER ANCHORING NO. OF FASTENERS PER SIDE
18	2	2	2
20	2	2	2
24	2	2	3
30	3	3	4
36	3	3	4
42	3	4	5

NOTE: FASTENERS REQUIRED ONLY ON TWO OPPOSITE SIDES OF CURB.

THROAT SIZE (LARGEST DIM.)	CONCRETE ANCHORING NO. OF FASTENERS PER SIDE	STEEL DECK ANCHORING NO. OF FASTENERS PER SIDE	TIMBER ANCHORING NO. OF FASTENERS PER SIDE
≤24	2	2	2
≤48	2	3	3
≤54	3	3	4
≤66	3	4	5

NOTE: FASTENERS REQUIRED ONLY ON TWO OPPOSITE SIDES OF CURB. FASTEN ON LONGER SIDES OF CURB IF RECTANGULAR.

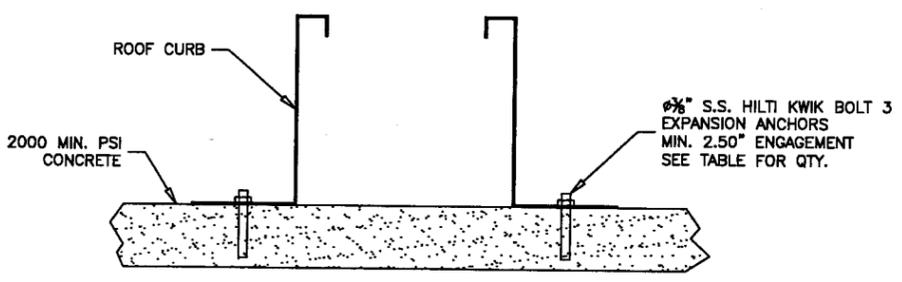
ROOF CURB
MODEL SD, SDP, GPF OR EQUIVALENT
18 GA. MIN. 24" TALL MAX.
WELDED CONSTRUCTION

5/16" MIN. FASTENERS
3 PER SIDE
ALL SIDES

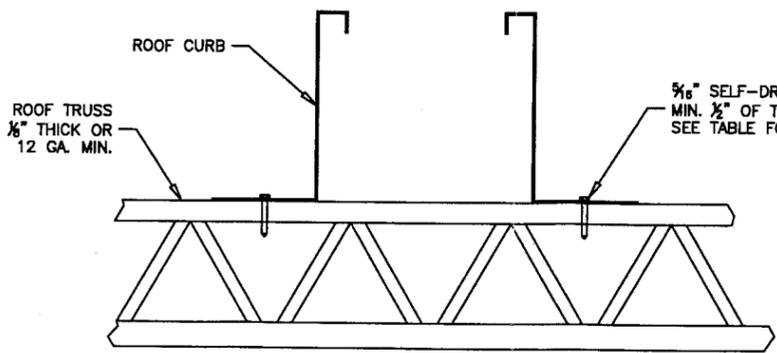
MIN. EDGE DIST. 3.06
BOTH SIDES

MIN. EDGE DIST. 3.06
BOTH SIDES

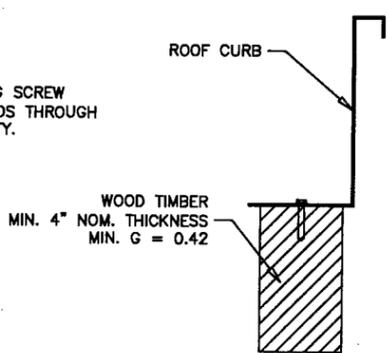
FASTENERS ON THIS SIDE



CONCRETE DECK ANCHORING



STEEL ANCHORING



TIMBER ANCHORING

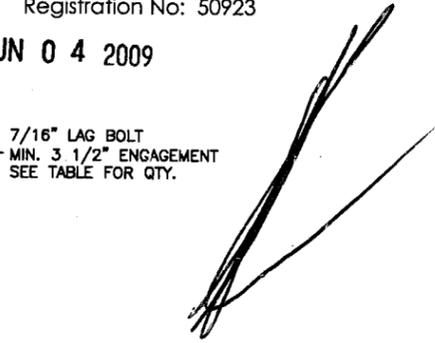
JUN 04 2009

RICE
ENGINEERING

Approved as complying with the
Florida Building Code
Date 07/08/2009
NOA# 09-0511.03
Miami Dade Project Control
Division
By *[Signature]*

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



7/16" LAG BOLT
MIN. 3 1/2" ENGAGEMENT
SEE TABLE FOR QTY.

	YAKLOVICH 03/09/2009
	R SERIES, FGI/FGR CURB MOUNTING SHEET 7 OF 7
HR2007	