



**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**

**PennBarry  
1401 North Plano Road  
Richardson, TX 75081**

**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: Domex and Fumex Aluminum Roof Fans**

**APPROVAL DOCUMENT:** Drawing No. **08-00622**, titled "DX Domex Downblast and FX Fumex Upblast Roof Vents", sheets 1 through 4 of 4, dated 10/08/08, with revision C dated 02/11/10, prepared by PennBarry, signed and sealed by Luis R. Lomas, 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 Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear the following permanent label:

PennBarry  
12504 Weaver Road  
El Paso, TX 79928

and the statement: "Miami-Dade County Product Control Approved".

**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 # 09-1015.03** 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.**



*Signature*  
04/27/10

**NOA No. 10-0324.03  
Expiration Date: March 11, 2014  
Approval Date: April 28, 2010  
Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **08-00622**, titled "DX Domex Downblast and FX Fumex Upblast Roof Vents", sheets 1 through 4 of 4, dated 10/08/08, with revision C dated 02/11/10, prepared by PennBarry, signed and sealed by Luis R. Lomas, 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 Series/Models DX36B and FX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. **95871.01-801-18**, dated 01/21/10, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
along with marked-up drawings and installation diagram of Series/Model FX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. **83741.01-801-18**, dated 09/19/08, with **Revision 2** dated 09/03/09, signed and sealed by Joseph A. Reed, P.E. "**Submitted under NOA # 09-1015.03**"
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  
along with marked-up drawings and installation diagram of Series/Model DX36B aluminum roof vents, prepared by Architectural Testing, Inc., Test Report No. **83743.01-801-18**, dated 09/19/08, with **Revision 2** dated 09/03/09, signed and sealed by Joseph A. Reed, P.E. "**Submitted under NOA # 09-1015.03**"

**C. CALCULATIONS**

1. Engineering Evaluation Report No. **511006-2**, prepared L. Roberto Lomas, P.E., dated 02/16/10, signed and sealed by Luis R. Lomas, P.E.
2. Anchoring verification calculations, dated 10/28/08, prepared, signed and sealed by Luis R. Lomas, P.E. "**Submitted under NOA # 08-1202.13**"

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letters of code conformance and no financial interest, issued by L. Roberto Lomas, P.E., dated 03/09/10, signed and sealed by Luis R. Lomas, P.E.

  
04/27/10

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-0324.03

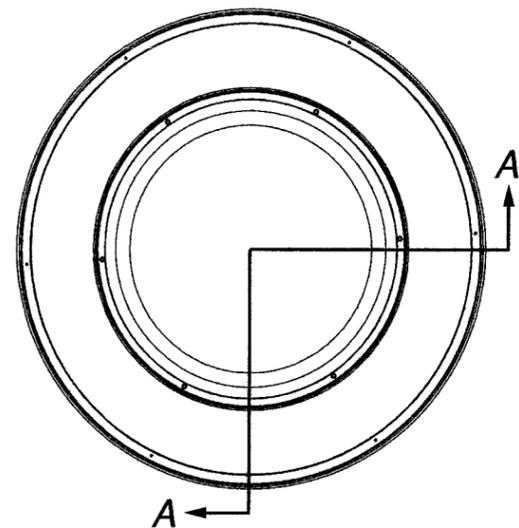
Expiration Date: March 11, 2014

Approval Date: April 28, 2010

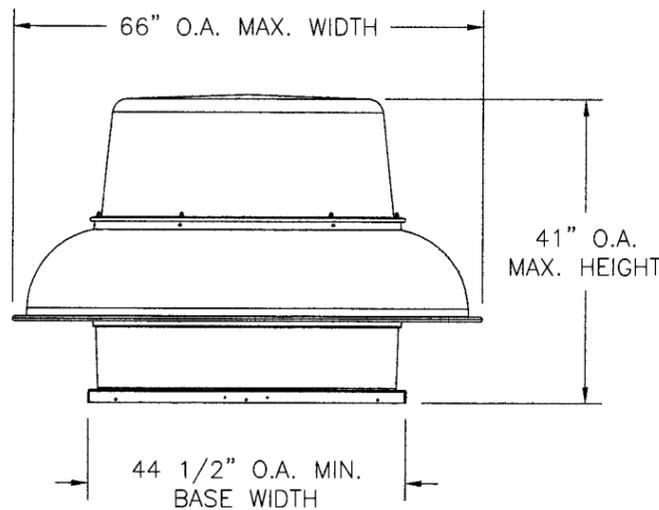
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	DP REVISED PER CODE REQUIREMENTS	9/16/09	RL
C	REVISED PER NEW TESTING	02/11/10	RL

NOTES:

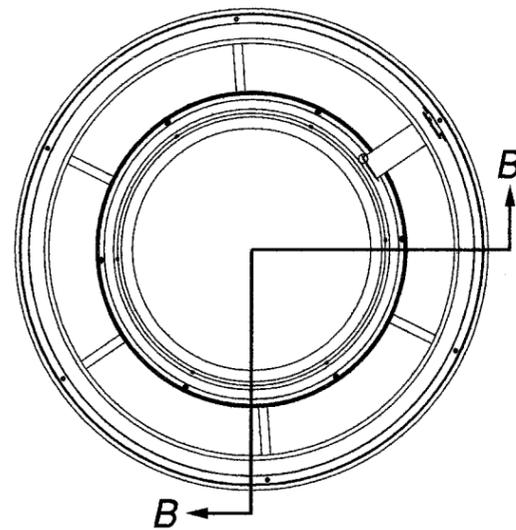
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ
- 2) WOOD FRAMING, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF UNIT OPENING AND ALL WOOD FRAMING AROUND UNIT.
- 4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND-BORNE DEBRIS REGIONS.
- 5) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- 6) FOR INSTALLATION INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 7) FOR INSTALLATION INTO CONCRETE SLAB USE 3/16" ELCO TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 8) FOR ANCHORING INTO STEEL FRAMING USE #12 TEK SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE FRAME THICKNESS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 9) ALL INSTALLATION FASTENERS TO BE CORROSION RESISTANT.
- 10) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL FRAMING - .125" MINIMUM THICKNESS
- 11) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 12) VENT HOUSING MATERIAL: 1100-0 ALUMINUM.
- 13) VENT BASE MATERIAL: MINIMUM .042" THK. G-90 GALVANIZED STEEL MINIMUM.
- 14) GREASE BOX AND EXTERNAL WEATHERPROOF JUNCTION BOX MAY BE ATTACHED TO THIS PRODUCT. GREASE BOX AND EXTERNAL WEATHERPROOF JUNCTION BOX ARE NOT PART OF THIS APPROVAL.
- 15) THIS APPROVAL IS FOR STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY, IT DOES NOT INCLUDE ANY INTERIOR MECHANISM AND/OR ELECTRICAL DEVICE OR CIRCUIT.
- 16) THESE FANS HAVE NOT BEEN TESTED FOR WATER PENETRATION.



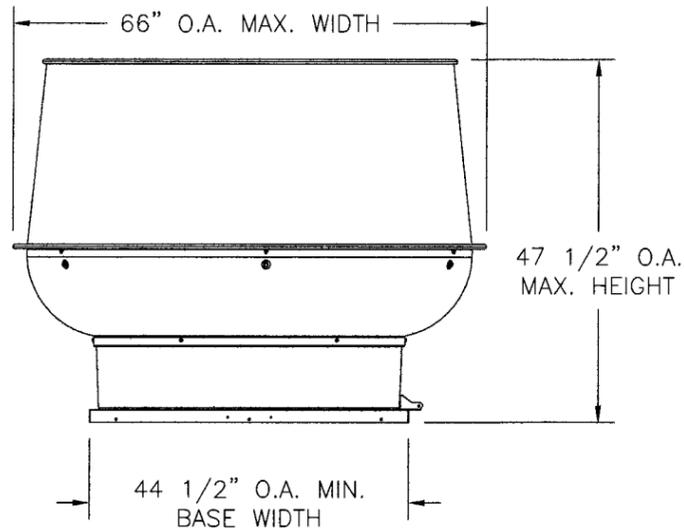
**DX36B DOMEX DOWNBLAST ROOF VENT**  
TOP VIEW



**DX36B DOMEX DOWNBLAST ROOF VENT**  
ELEVATION VIEW



**FX36B FUMEX UPBLAST ROOF VENT**  
TOP VIEW



**FX36B FUMEX UPBLAST ROOF VENT**  
ELEVATION VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±70.0 PSF	LARGE AND SMALL MISSILE IMPACT

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, TOP VIEWS AND GENERAL NOTES
2	BILL OF MATERIALS AND SECTIONS
3	INSTALLATION DETAILS
4	COMPONENTS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 10-0324.03  
Expiration Date 03/11/2014  
By *[Signature]*  
Miami Dade Product Control  
Division

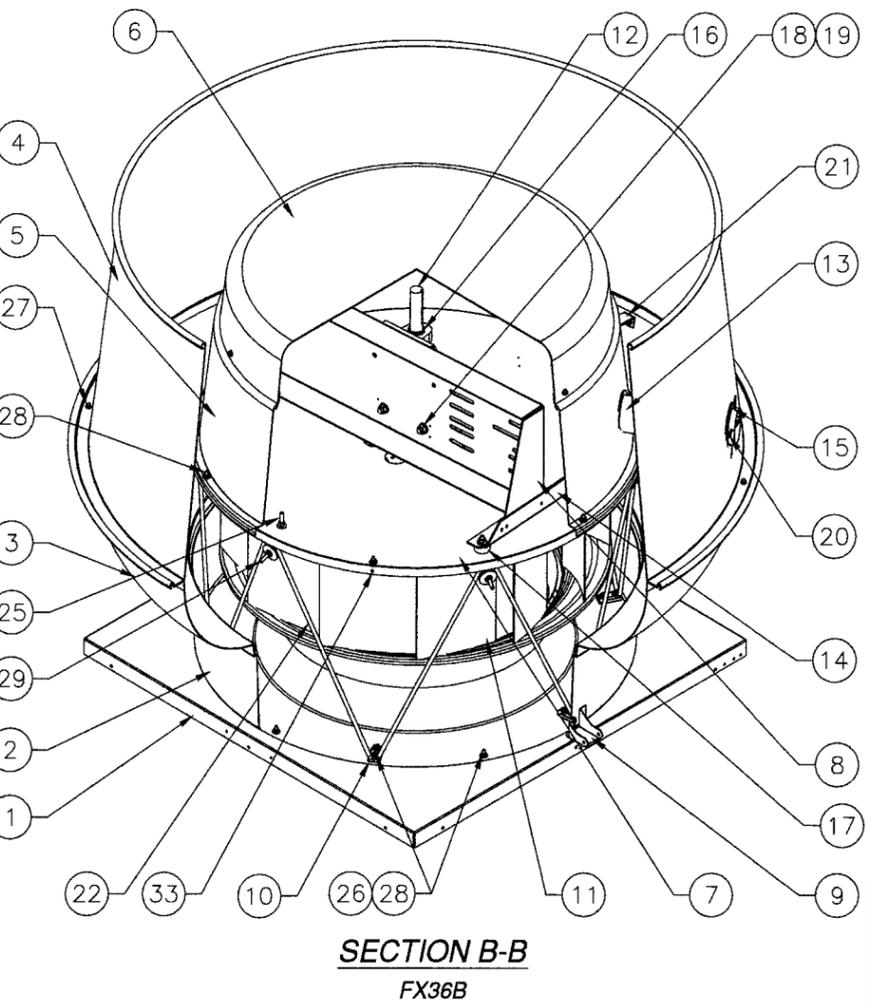
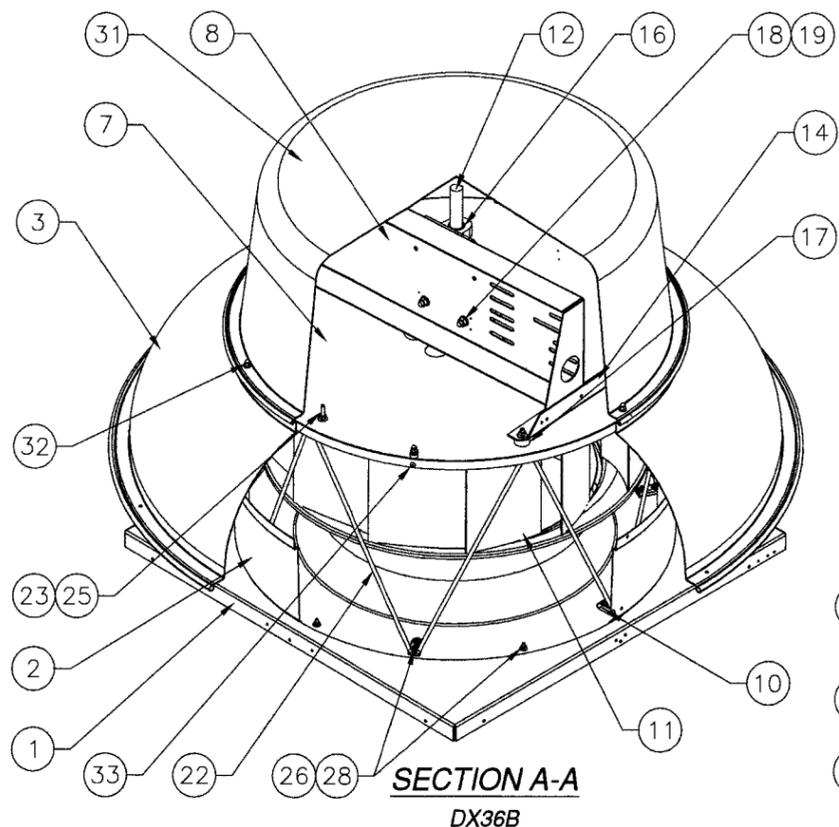
**PennBarry**  
1401 NORTH PLANO ROAD  
RICHARDSON, TX 75081

DX DOMEX DOWNBLAST ROOF VENT  
FX FUMEX UPBLAST ROOF VENT  
ELEVATION, TOP VIEW AND GENERAL NOTES

DRAWN: TJH	DWG NO. 08-00622	REV C
SCALE NTS	DATE 10/8/08	SHEET 1 OF 4

*[Signature]*  
3/8/10  
  
Luis R. Lomas P.E.  
Florida No. 62514

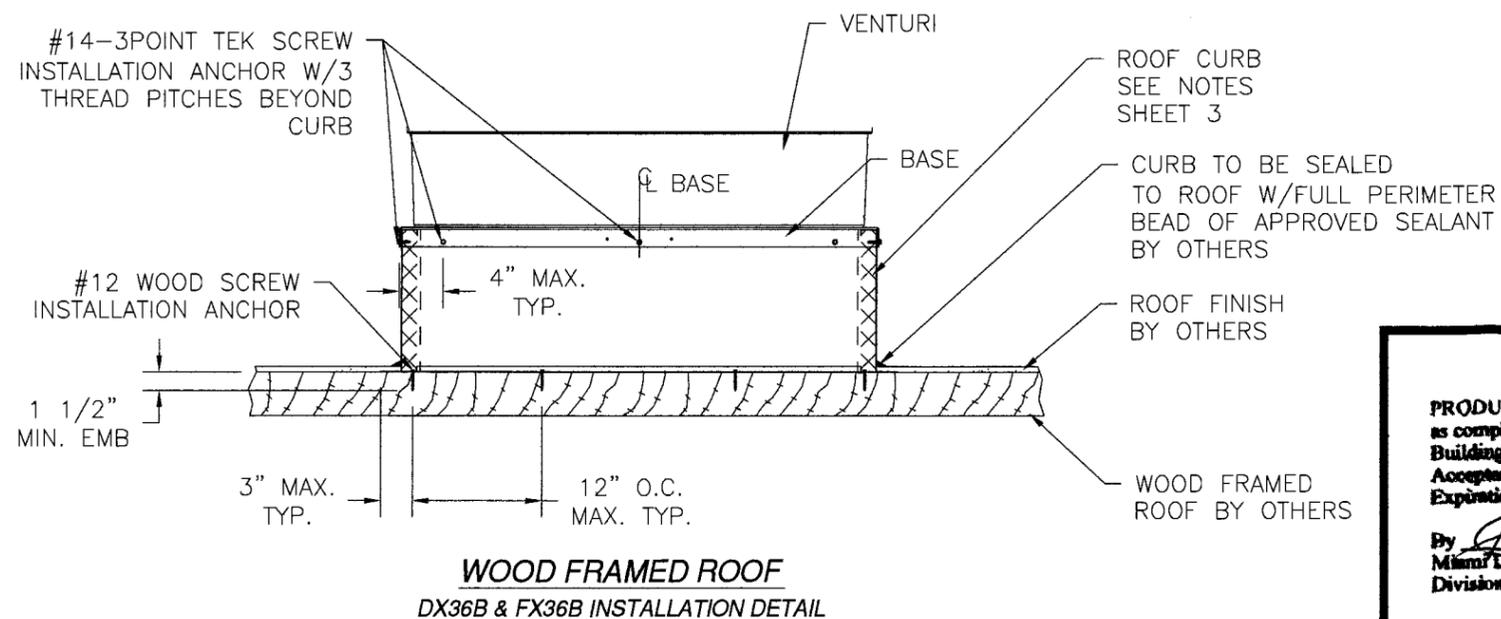
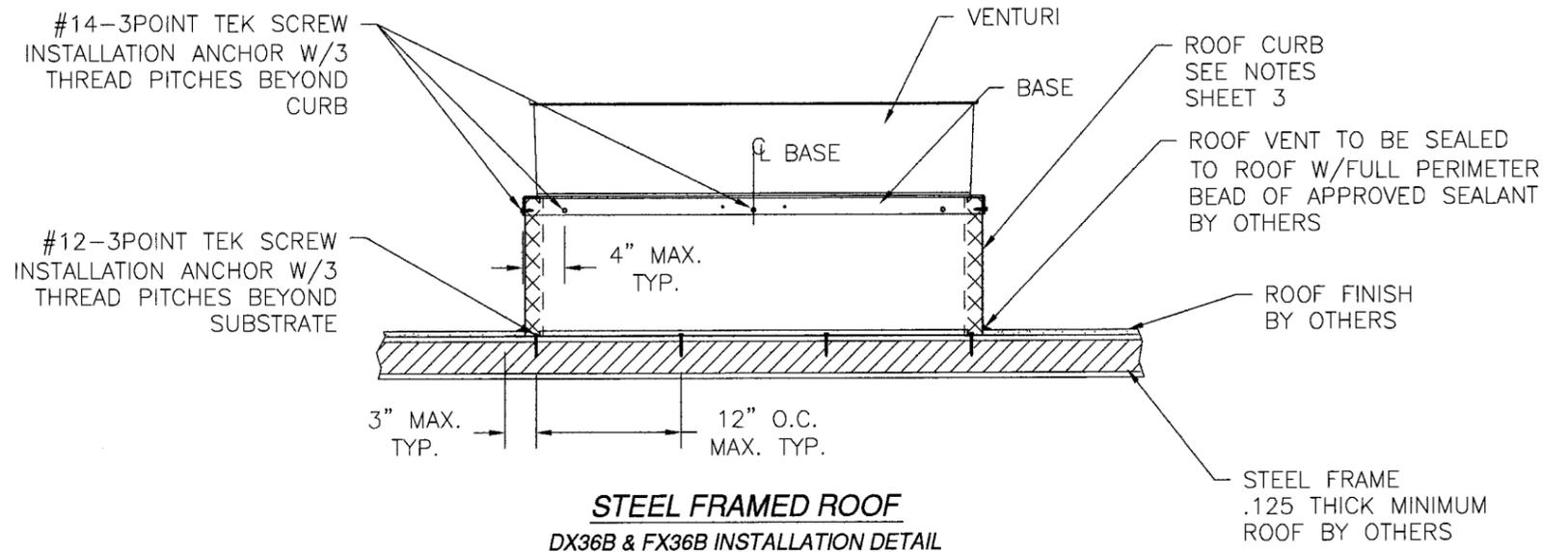
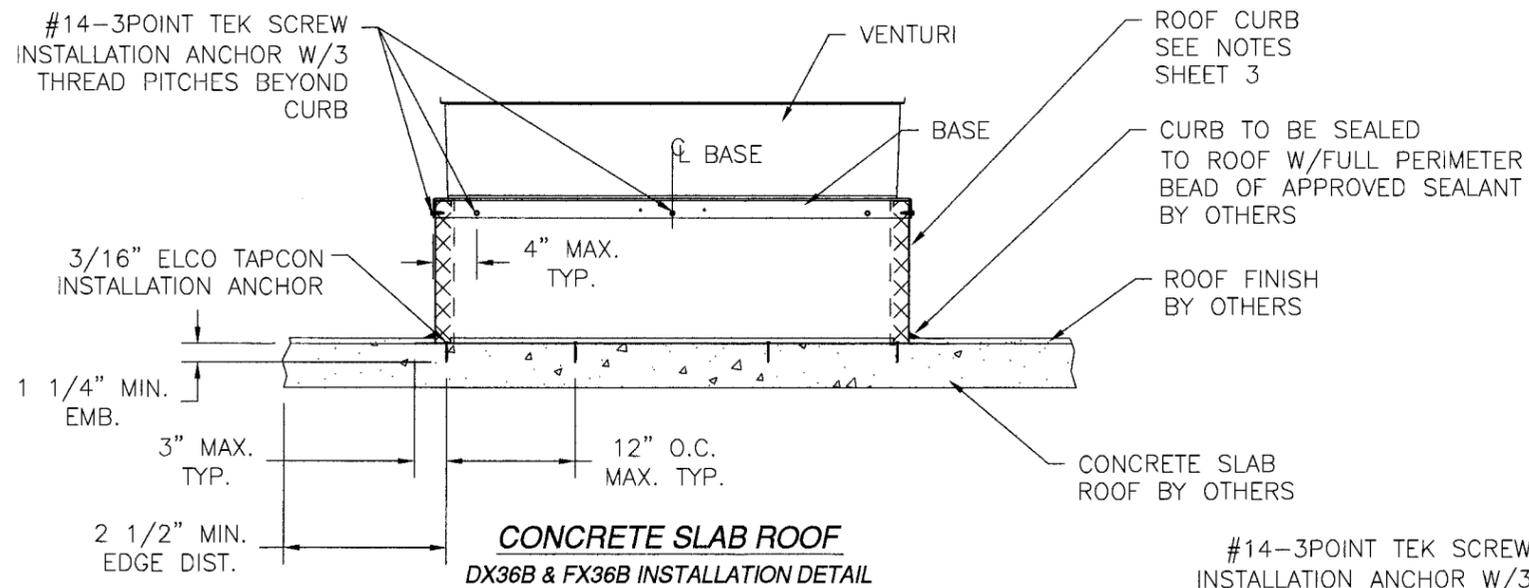
PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	16006-1	BASE	PennBarry	G-90 GALV. STEEL
2	16036-0	VENTURI	PennBarry	ALUMINUM 1100-0
3	16128-0	DISCHARGE APRON	PennBarry	ALUMINUM 1100-0
4	16153-0	WINDBAND	PennBarry	ALUMINUM 1100-0
5	16230-0	HOOD BOTTOM	PennBarry	ALUMINUM 1100-0
6	16205-0	HOOD TOP	PennBarry	ALUMINUM 1100-0
7	16055-0	TOP PLATE	PennBarry	ALUMINUM 1100-0
8	16304-0	MOTOR MOUNTING PLATE	PennBarry	G-90 GALV. CRS
9	16392-0	DRAIN SPOUT	PennBarry	ALUMINUM 1100-H14
10	18380-0	WIRE BRACE CLIP	LEESON	G-90 GALV. CRS
11	21179-0	FAN WHEEL	PennBarry	ALUMINUM, VARIOUS
12	03348-0	SHAFT	OEM CORP	CD 1045 STEEL
13	16405-0	COOLING TUBE	PennBarry	ALUMINUM 6005-T5
14	16280-0	MOTOR SUPPORT ANGLE	PennBarry	G-90 GALV. STEEL
15	63043-0	GROMMET	RUBBERMILL	BLACK SILICONE
16	57091-0	BEARING	POWER RITE	CAST IRON
17	63010-0	VIBRATION ISOLATOR	ELECTROLINE CORP	SANTOPRENE
18	55510-0	1/2-13 SERRATED FLANGE NUT	ILS	ZINC COATED STEEL
19	55601-0	1/2-13 x 1 1/2" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 2
20	55286-0	COTTER PIN	ILS	ANSI B. 18.8.1
21	18285-0	HORIZONTAL BRACE	PennBarry	G-90 GALV. STEEL
22	16255-0	WIRE SUPPORT	RACINE IRON & WIRE	G-90 GALV. CRS
23		5/16-18 x 2" WELD STUD	ILS	AISI C1010 LOW CS
24	55514-0	5/16-18 x 1 1/2" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 2
25	55501-0	5/16-18 SERRATED LARGE FLANGE NUT	ILS	SAE J995 GRADE 2
26	55500-0	1/4-20 SERRATED LARGE FLANGE NUT	ILS	SAE J995 GRADE 2
27	55696-0	1/4-20 x 3/4" HEX SERRATED FLANGE SCREW	ILS	SAE J429 GRADE 5
28	55640-0	1/4-20 PEM HIGH STRENGTH STUD	ILS	STEEL
29	55541-0	WASHER 1/8" x 3/8" x 1 3/4"	ILS	ZINC PLATED STEEL
30		ROOF CURB (OPTIONAL)	RPS	G-90 GALV. STEEL
31	16178-0	MOTOR HOOD	PennBarry	ALUMINUM 1100-0
32	55490-0	1/4-20 UNC-2B FLANGED ACORN NUT	ILS	ZINC DIE CAST
33	55940-0	1/4" BODY DIA. POP RIVET		ZINC COATED STEEL
34		ROOF CURB	WARD INDUSTRIES	ALUMINUM 3003



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	DP REVISED PER CODE REQUIREMENTS	9/16/09	RL
C	REVISED PER NEW TESTING	02/11/10	RL

<b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No 10-0324.03 Expiration Date 02/11/2014 By <i>[Signature]</i> Miami Dade Product Control Division	<b>PennBarry</b> 1401 NORTH PLANO ROAD RICHARDSON, TX 75081		<i>[Signature]</i> 3/8/10 Luis R. Lomas P.E. Florida No. 62514
	DX DOMEX DOWNBLAST ROOF VENT FX FUMEX UPBLAST ROOF VENT BILL OF MATERIALS AND SECTIONS		
	DRAWN: TJH SCALE NTS	DWG NO. 08-00622 DATE 10/8/08	

REVISIONS			
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- NOTES:
1. ALL FOUR SIDES OF CURB AND BASE ARE ANCHORED IDENTICALLY.
  2. ROOF CURB IS INSTALLED TO ROOF FIRST. FAN IS THEN MOUNTED TO CURB USING #14-3POINT TEK SCREWS AS SHOWN ABOVE.
  3. SEE SHEET 4, COMPONENTS FOR ROOF CURB CONSTRUCTION.
  4. UNITS MAYBE INSTALLED WITH ITEM 34, ALUMINUM 3003 CURB OR ITEM 30 GALVANIZED STEEL CURB.

PRODUCT REVISED  
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Building Code  
Acceptance No 10-0324.03  
Expiration Date 03/11/2014  
By *[Signature]*  
Miami Dade Product Control  
Division

**PennBarry**

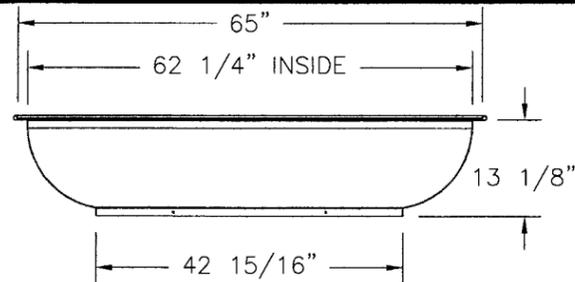
1401 NORTH PLANO ROAD  
RICHARDSON, TX 75081

DX DOMEX DOWNBLAST ROOF VENT  
FX FUMEX UPBLAST ROOF VENT  
INSTALLATION DETAILS

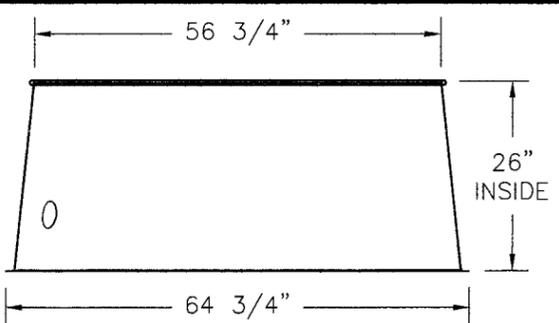
*[Signature]*  
3/8/10

Luis R. Lomas P.E.  
Florida No. 62514

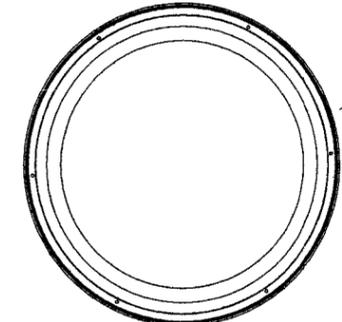
DRAWN: TJH	DWG NO. 08-00622	REV C
SCALE NTS	DATE 10/8/08	SHEET 3 OF 4



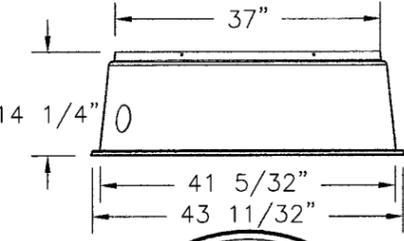
3 DISCHARGE APRON  
.080" THK. 1100-O ALUM.



4 WIND BAND  
.125" THK. 1100-O ALUM.

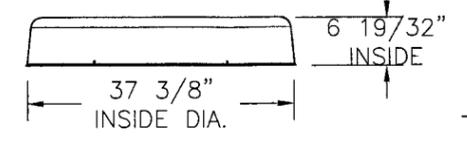


31 MOTOR HOOD  
.080" THK. 1100-O ALUM.

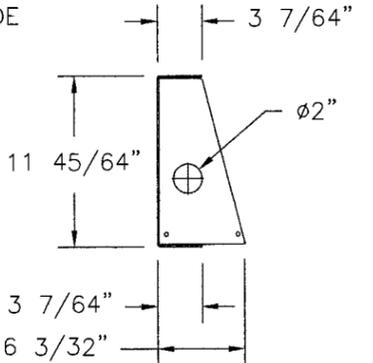


5 HOOD BOTTOM  
.080" THK. 1100-O ALUM.

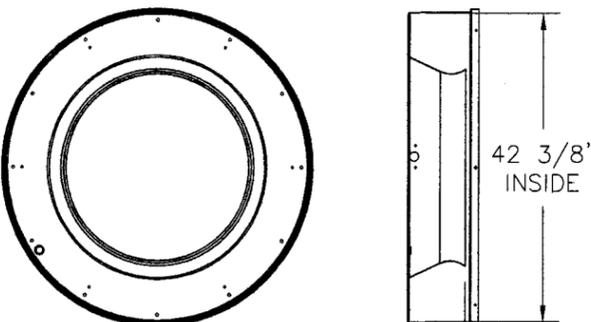
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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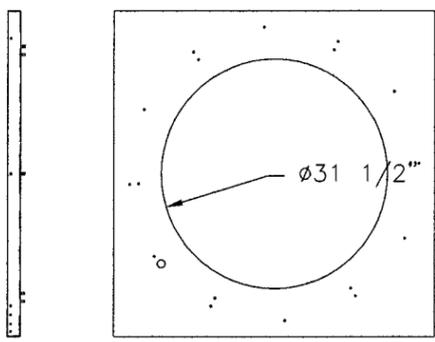
6 HOOD TOP  
.064" THK. 1100-O ALUM.



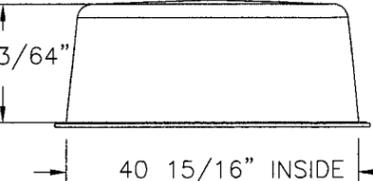
8 MOTOR MOUNTING PLATE  
.1084" THK. G-90 GALV. CRS



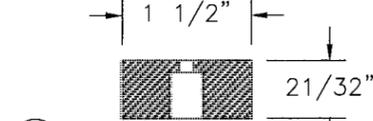
2 VENTURI  
.064" THK. 1100-O ALUM.



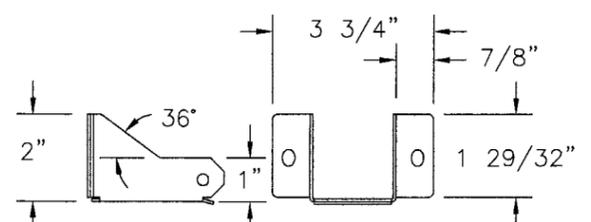
1 BASE  
.1084" THK. G-90 GALV. STEEL



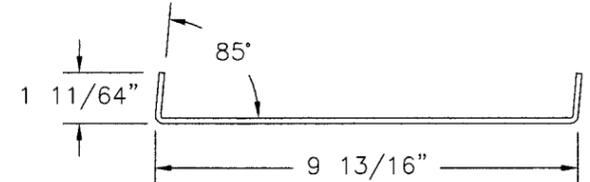
14 MOTOR SUPPORT ANGLE  
.138" THK. G-90 GALV. STEEL



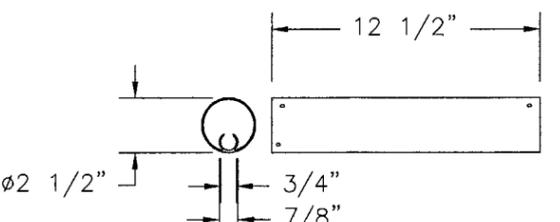
17 VIBRATION ISOLATOR  
SANTOPRENE



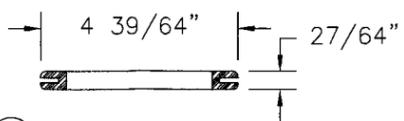
9 DRAIN SPOUT  
.064" 1100-H14 ALUM.



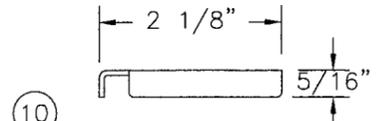
21 HORIZONTAL BRACE  
.138" THK. G-90 GALV. STEEL



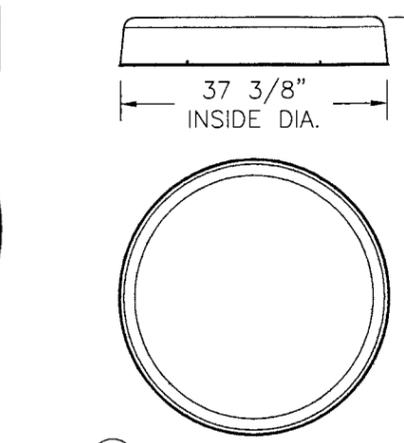
13 COOLING TUBE



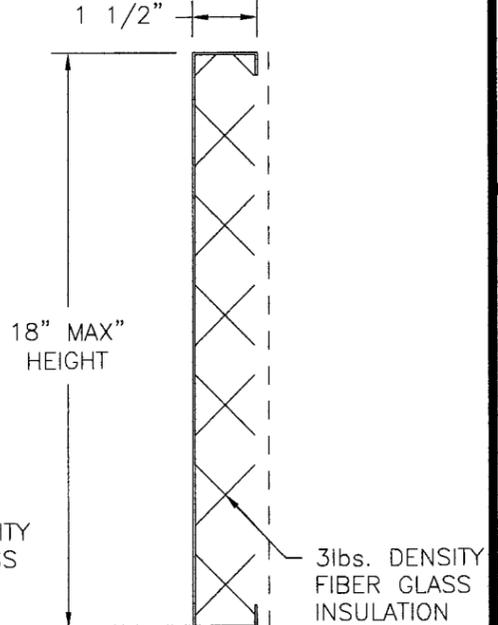
15 GROMMET  
BLACK SILICONE



10 WIRE BRACE CLIP  
.064" THK. G-90 GALV. STEEL



34 ROOF CURB  
ALUMINUM 3003 10GA. .125" THICK  
MI VALUE: X = 51.1390  
Y = .7384



30 OPTIONAL ROOF CURB  
18GA. G-90 GALV. STEEL  
MI VALUE: X = 20.5405  
Y = .3060

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-0324-03  
Expiration Date 2/3/11/2014  
By [Signature]  
Miami Dade Product Control  
Division

PennBarry  
1401 NORTH PLANO ROAD  
RICHARDSON, TX 75081

DX DOMEX DOWNBLAST ROOF VENT  
FX FUMEX UPBLAST ROOF VENT  
COMPONENTS

DRAWN: TJH	DWG NO. 08-00622	REV C
SCALE NTS	DATE 10/8/08	SHEET 4 OF 4

[Signature]  
3/8/10

Luis R. Lomas P.E.  
Florida No. 62514