



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

Soler & Palau USA
6393 Powers Avenue
Jacksonville, FL 32217

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: Model DB Aluminum Rooftop Fan

APPROVAL DOCUMENT: Drawing No. **DBMDHF**, titled "Down Blast", sheets 1 through 5 of 5, dated 04/24/09, with revision B dated 07/14/09, prepared by Wolters Engineering, Inc, signed and sealed by Scott Wolters, 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 and date: 8/19/09

NOA No. 09-0513.01
 Expiration Date: September 09, 2014
 Approval Date: September 09, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **DBMDHF**, titled "Down Blast", sheets 1 through 5 of 5, dated 04/24/09, with revision B dated 07/14/09, prepared by Wolters Engineering, Inc, signed and sealed by Scott Wolters, 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 Model DB Centrifugal Roof Exhauster, prepared by Hurricane Test Laboratory, LLC., Test Report No. **0530-0103-09**, dated 08/07/09, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor verification calculations, prepared by Wolters Engineering, Inc, dated 04/29/09, signed and sealed by Scott Wolters, P.E.

D. QUALITY ASSURANCE

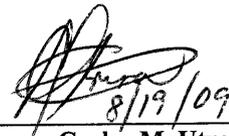
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance issued by Wolters Engineering, Inc, dated 04/30/09, signed and sealed by Scott Wolters, P.E.
2. Statement letter of no financial interest issued by Wolters Engineering, Inc, dated 04/30/09, signed and sealed by Scott Wolters, P.E.
3. Laboratory compliance letter issued by Hurricane Test Laboratory, LLC., Test Report No. **0530-0103-09**, dated 08/07/09, signed and sealed by Vinu J. Abraham, P.E.

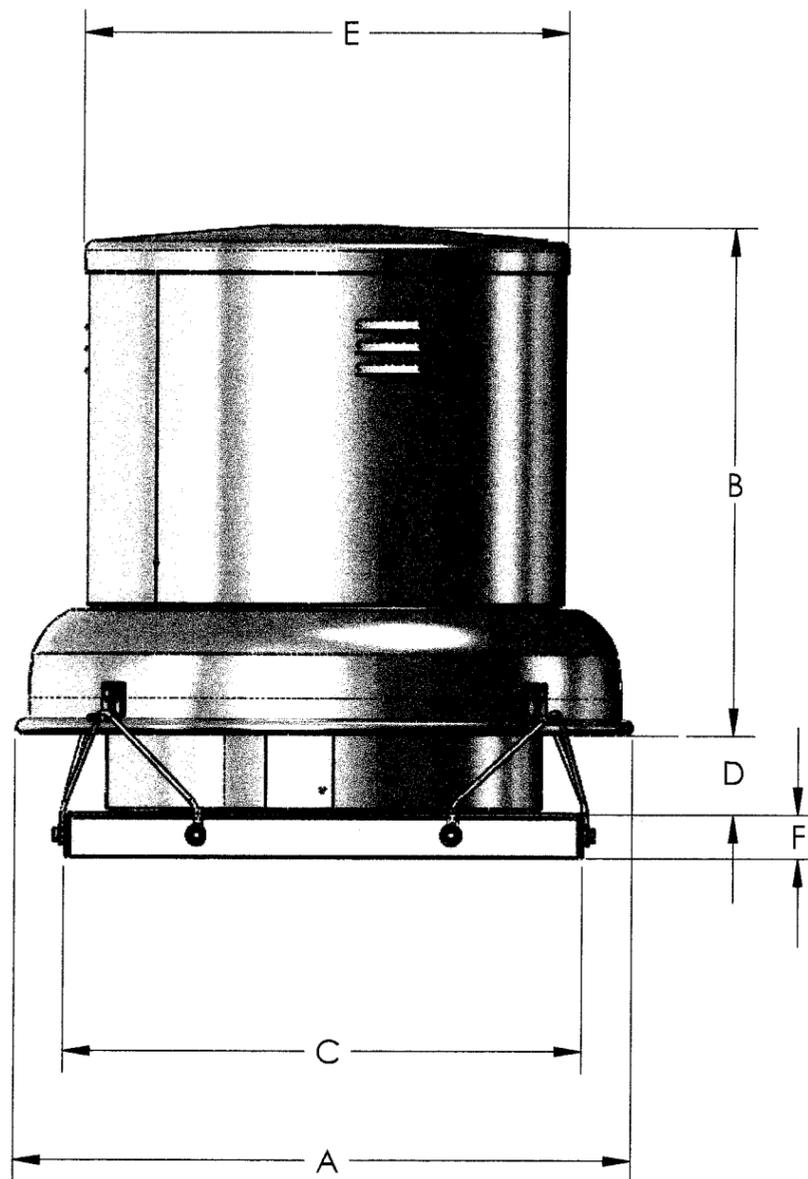


8/19/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0513.01

Expiration Date: September 09, 2014
Approval Date: September 09, 2009

MODEL	A	B	C	D	E	F
DB-6	20 1/2	17 1/2	16 1/2	3 1/2	16 1/8	1 3/4
DB-8	20 1/2	17 1/2	16 1/2	3 1/2	16 1/8	2
DB-9	20 1/2	17 1/2	16 1/2	3 1/2	16 1/8	2
DB-11	28 3/8	23	24	3 1/2	22 1/2	2
DB-12	28 3/8	23	24	3 1/2	22 1/2	2 1/2
DB-14	28 3/8	23	24	3 1/2	22 1/2	2 1/2
DB-16	32 1/4	24	24	6	26 1/4	2 1/2
DB-18	32 1/4	24	29 1/2	4 1/2	26 1/4	2 1/2
DB-20	36 3/4	24 1/2	29 1/2	4 1/2	26 1/4	2 1/2
DB-24	41 1/4	26 1/2	35 3/4	8 1/2	30	2 1/2
DB-30	58 3/8	37	42 1/2	5 1/2	41	2 1/2
DB-36	58 3/8	37	42 1/2	10	41	2 1/2
DB-42	73	40 1/2	55	10	54 5/8	2 1/2
DB-48	73	40 1/2	55	13	54 5/8	2 1/2



NOTES:

1. MODEL DB HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THE MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT) TAS-202 (STATIC LOADING) AND TAS-203 (CYCLICAL LOAD TEST).
2. THIS FAN HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN PER FBC, TAS 100(A).
3. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
4. ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND AND LOADING TRANSMITTED BY ROOF TOP FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
5. DESIGN TESTING AND INSTALLATION CONFORMS TO 2007 FLORIDA BUILDING CODE AND ITS 2005 AND 2006 SUPPLEMENTS.
6. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.

Approved as complying with the Florida Building Code
 Date: 09/09/09
 NOA# 09-0573.01
 Miami Dade Product Control Division
 By: [Signature]

SCOTT WOLTERS
 FL PE# 62354
 WOLTERS ENGINEERING
 (COA # 27194)
 322 BUCHANAN #807
 HOLLYWOOD, FL 33019
 PH/FAX: (954) 921-5828

SEAL
 Scott Wolters
 8-14-09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE

FRACTIONS	DECIMALS	ANGLES
± 1/16	XX ± .03	± 1°
	XXX ± .005	

MATERIAL: --- PROJECT NO.: ---
 APPROVALS: --- DATE: 4/24/09
 DRAWN: VMC CHECKED: ---
 DO NOT SCALE DRAWING

Soler & Palau USA (S&P)
 BREIDERT AIR PRODUCTS
 JACKSONVILLE, FLORIDA

DOWN BLAST SUMMARY

SIZE	ORIGINAL E.N.	PART NO.	REV.
A		DBMDHF	B

NOT TO SCALE

CAD FILE	DBMDHF	REV 2	REV B	SHEET 2 OF 5
REVISIONS				
REV	ZONE	DESCRIPTION	BY	DATE
A	--	REISED PER MDC LTR DTD 7/7/09	RHAY	7/8/09
B	--	REVISED MDC LTR DTD	WMC	7/14/09
--	--			

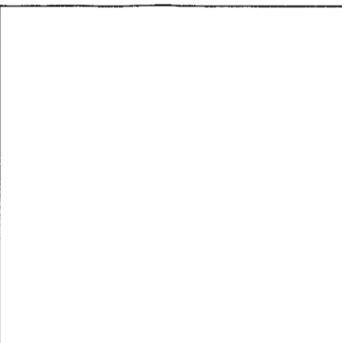
ITEM No.	QUANTITY	DESCRIPTION	MATERIAL	DIMENSIONS
1	1	BASE CAP	ALUMINUM 3003-H14	.090 X 55.00 X 55.00 MAX
2	10	SUPPORT LEG	GALVANIZED G-90	10 GA. 29 1/4 MAX X 2 1/2
3	1	WIND BAND	ALUMINUM 3003-H14	.050 X 55.00 MAX
4	1	SKIRT	ALUMINUM 3003-H14	.100 X 73.00 MAX O.D
5	5	SKIRT STRUT	GALVANIZED G-90	12 GA. 8 1/2 MAX 1 1/4
6	1	DRIVE COVER	ALUMINUM 3003-H14	.050 X 54 1/2 MAX
7	1	DRIVE COVER CAP	ALUMINUM 3003-H14	.050 X 54 5/8 MAX
8	4	TIE DOWN CLIP	ALUMINUM 3003-H14	.190 X 1.25 X 1.70 MAX
9	4	TIE DOWN CABLE	GALVANIZED	3/16 IN. 7X19 MAX
10	8	CABLE SLEEVES	ALUMINUM	3/16 SLEEVES

DESIGN LIMITS	
Max: Wind Velocity:	150 mph (67 m/s)
Max: Design Load:	+ 61 psf (2.9Kpa)
Max: overall Enclosure Dia:	54 5/8 (1387.5)
Max: Overall Unit Height W / Curb:	77 1/2 in (1968.5 mm)
Max: Overall Unit Height W/O Curb:	53 1/2 in (1358.9 mm)
Max: Curb Cap Sq. Dim:	55.00 in (1397 mm)
Max; Roof Curb Sq. Dim:	54.00 in (1371.6 mm)
Max: Weight / Dead Load:	830 lbs. (3647.5 N)
Max: Over Turn Moment:	
Max: Transmitted Shear Force:	
Qualified Substrates	MIN. 2000 PSI CONCRETE,

NOTE: LARGE MISSILE IMPACT RESISTANT

1/8" steel, wood southern yellow pine 2 x member min. SG = 0.55

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 Date 07/09/09
 NOA# 09-0513.01
 Miami Dade Product Control Division
 By *[Signature]*



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SEAL
Scott Wolters
 8-14-09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE

FRACTIONS	DECIMALS	ANGLES
± 1/16	XX ± .03	± 1°
	XXX ± .005	

PROJECT NO. _____ DATE _____

MATERIAL	DRAWN	DATE
	WMC	4/24/09
	CHECKED	

DO NOT SCALE DRAWING

SHEET 2 OF 5

Soler & Palau USA

BREIDERT AIR PRODUCTS
 JACKSONVILLE, FLORIDA

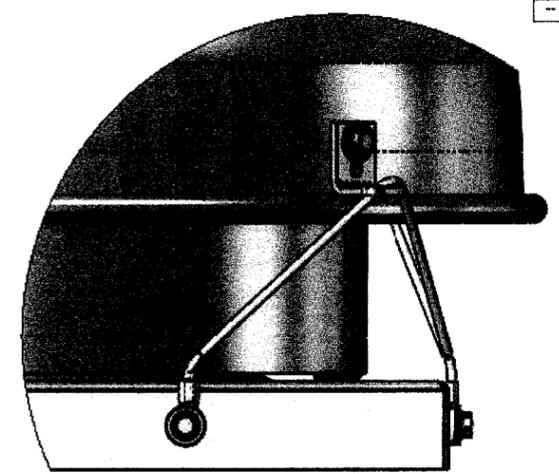
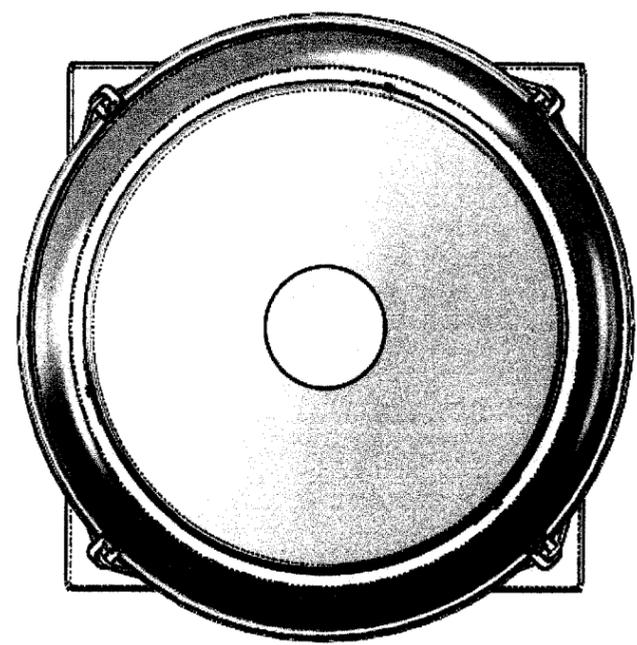
DB 6-48

SIZE	ORIGINAL E.N.	PART NO.	REV.
A		DBMDHF	B

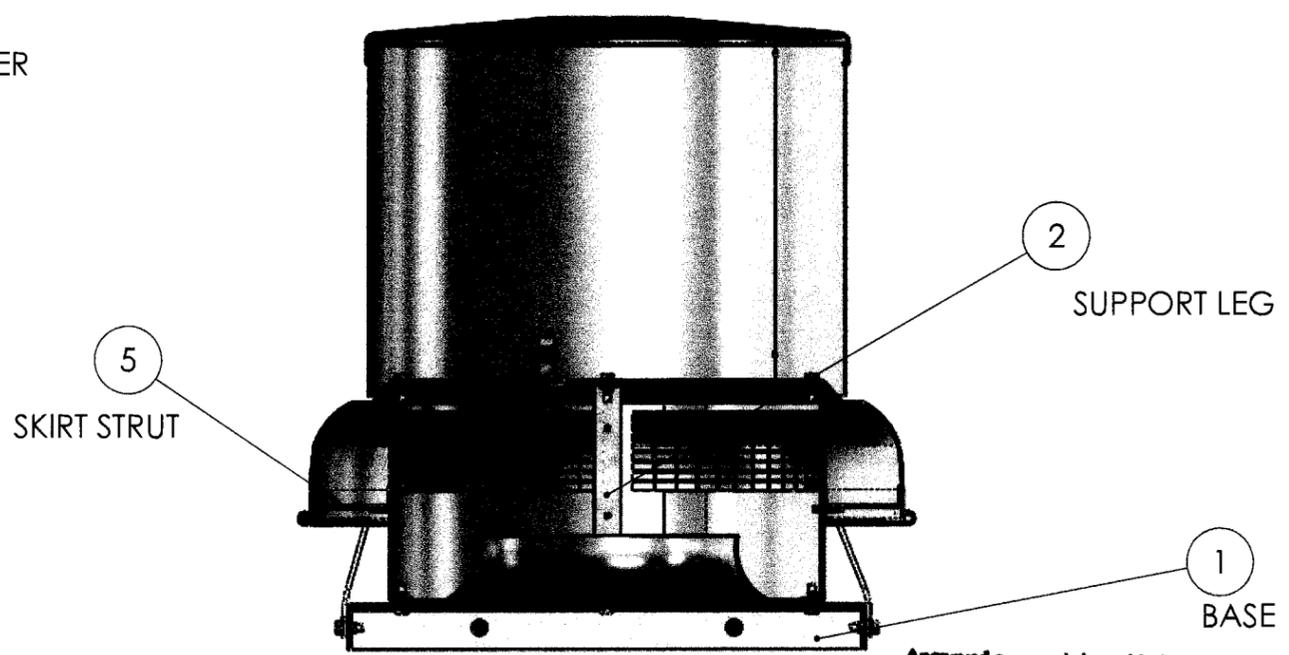
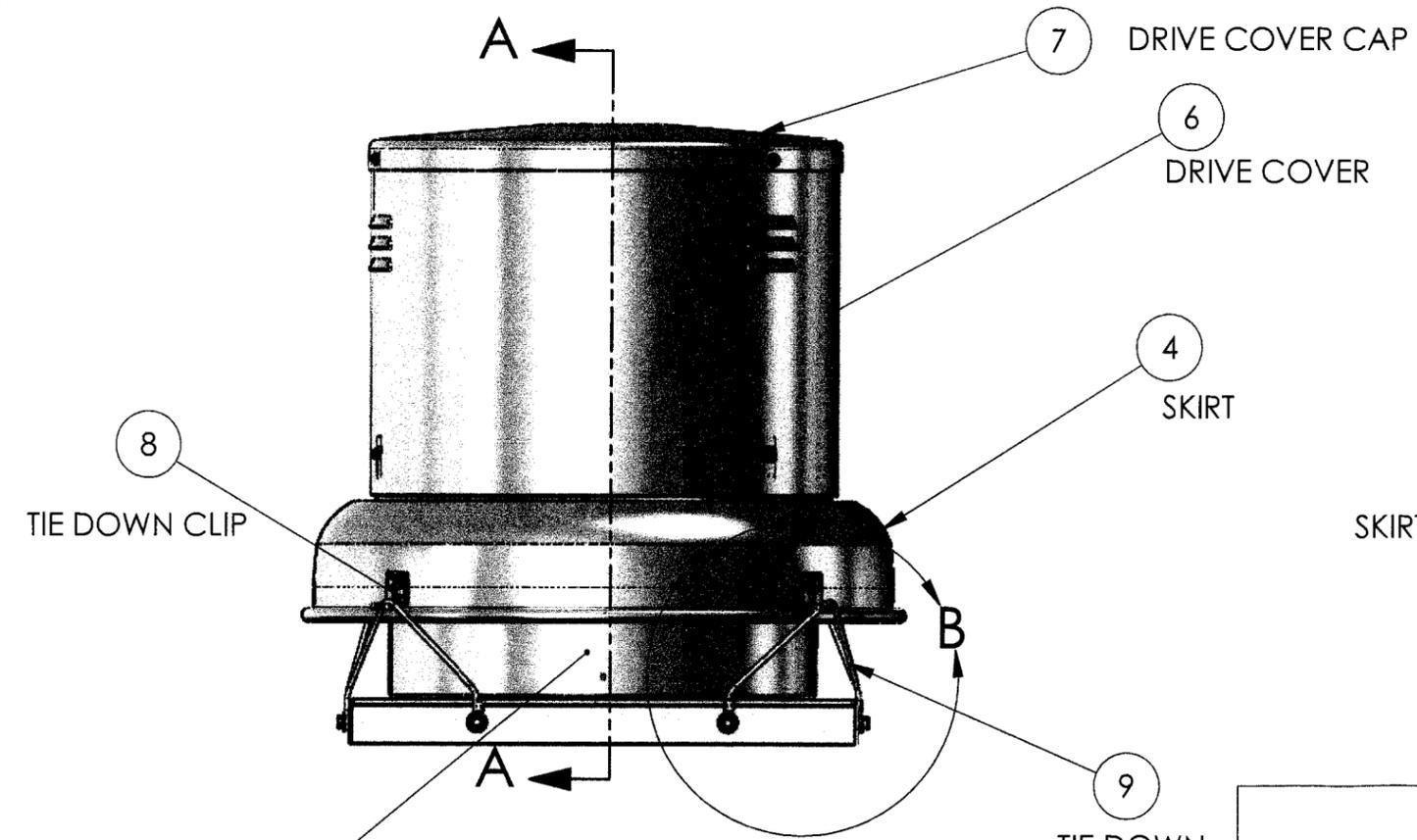
NOT TO SCALE

NOTE: LARGE MISSILE IMPACT RESISTANT

CAD FILE	DBMDHF	REV. 3	REV. B	SHEET 3 OF 5
REVISIONS				
REV.	ZONE	DESCRIPTION	BY	DATE
A	-	REVISED PER MDC LTR DTD 7/7/09	RHAY	7/8/09
B	-	REVISED PER MDC LTR DTD	VMC	7/14/09
-	-			



DETAIL B
SCALE 1 : 4



SECTION A-A
SCALE 1 : 8

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8-14-09

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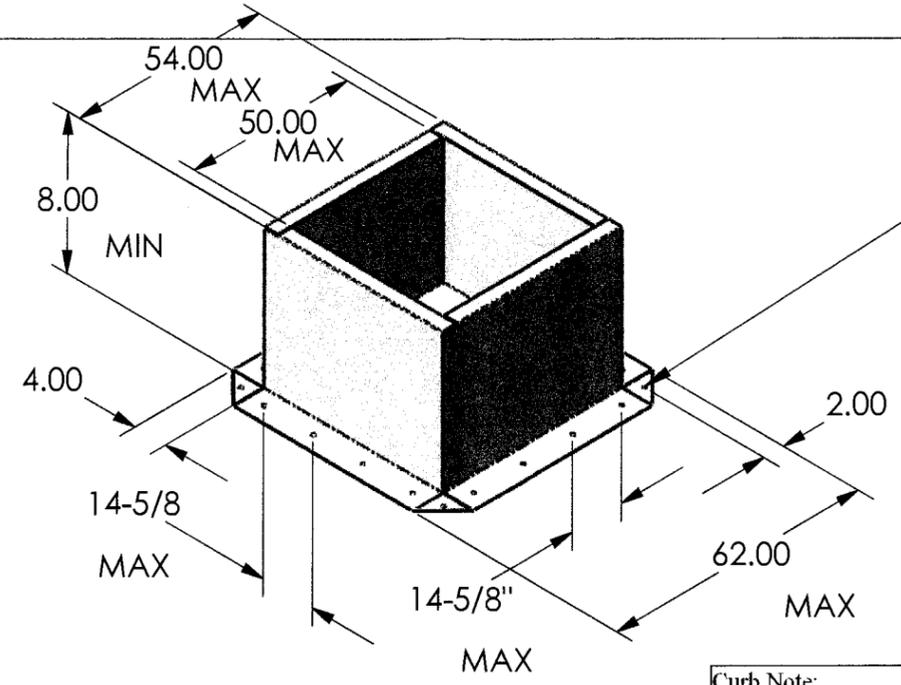
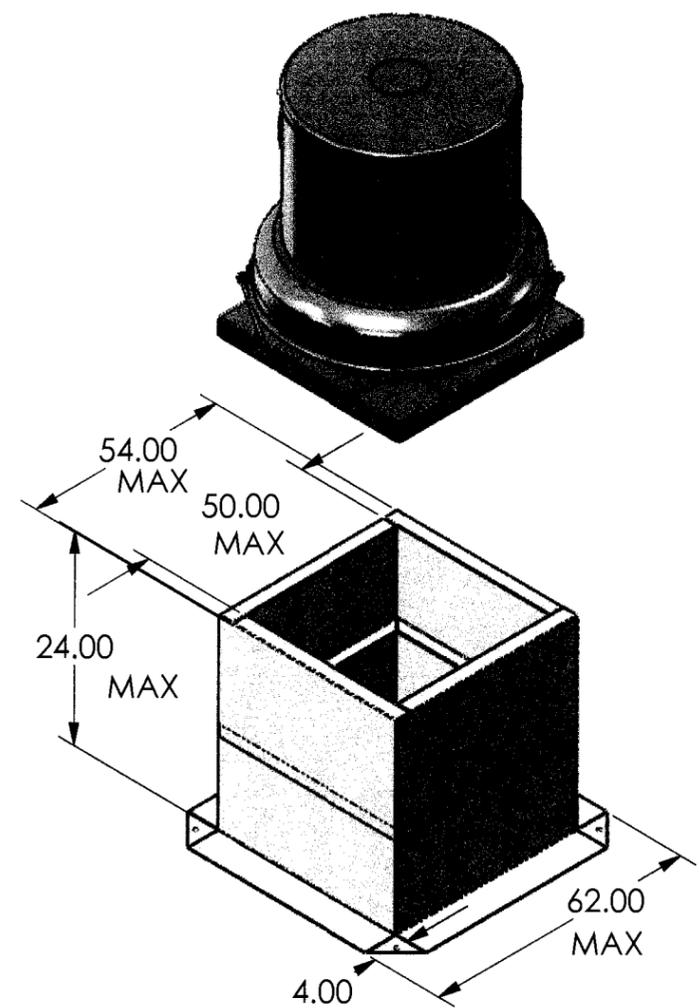
FRACTIONS	DECIMALS	ANGLES
± 1/16	XX ± .03	± 1°
	XXX ± .005	

MATERIAL	PROJECT NO.
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APPROVALS	DATE
DRAWN WMC	4/24/09
CHECKED	

DO NOT SCALE DRAWING

Soler & Palau USA	
BREIDERT AIR PRODUCTS JACKSONVILLE, FLORIDA	
DB 6-48	
SIZE	REV.
A	B
ORIGINAL E.N.	PART NO.
	DBMDHF
NOT TO SCALE	

CAD FILE	DBMDHF	REV. 4	REV. B	SHEET 4 OF 5	
REVISIONS					
REV	ZONE	DESCRIPTION	BY	DATE	APP.
A	--	REVISED PER MDC LTR DTD 7/7/09	RHAY	7/8/09	---
B	--	REVISED PER MDC LTR DTD	WMC	7/14/09	---
--	--				



SECURE CURB TO ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM SEE TABLE FOR MINIMUM QUANTITY OF ANCHORS REQUIRED PER CURB SIDE.

Curb Note:
CURB MUST BE ATTACHED TO A STRUCTURAL MEMBER OF THE BUILDING.

Concrete Deck:
 Curb anchorage should be into minimum 2000 PSI concrete.
 Use 3/8 x 3" wedge anchors or equal, one each corner, each side
 Of center of curb, and maximum 14 5/8 inches on center spacing along side.
 Anchors shall be minimum 1 5/8" embedment and 1 3/4" from edge distance.

Steel Roof Structure:
 Or should be into minimum 12Ga. (1/8") steel member.
 Fasteners shall be #12-14 x 1 3/4" self drilling screws or equal.
 1 fastener each corner, 1 each side at center of unit and maximum
 On center spacing of 14 5/8" each side.

Timber Roof Structure:
 Or shall be into minimum No. 1 - No. 2 southern pine 2x member (SG=0.55 or better).
 Fasteners shall be # 12x3" wood screws or equal. Fasteners shall be installed one each corner.
 Each side at center of unit, and at 12 5/8" maximum on center spacing along the side.
 Center fastener on supporting 2 x members with minimum 2" thread engagement and 2" end distance. Curb must be anchored to the roof framing and not to the roofing system.

FASTENER TABLE

UNIT SIZE	FASTENER NEEDED SELF DRILLING SCREWS	MIN. NUMBER OF FASTENERS PER SIDE TO ATTACH UNIT TO CURB	MIN NUMBER OF FASTENERS PER SIDE TO ATTACH CURB TO ROOF STRUCTURE
6	#12-14X1-3/4"	3	3
8	#12-14X1-3/4"	3	3
9	#12-14X1-3/4"	3	3
11	#12-14X1-3/4"	3	3
12	#12-14X1-3/4"	3	3
14	#12-14X1-3/4"	3	3
16	#12-14X1-3/4"	3	3
18	#12-14X1-3/4"	5	5
20	#12-14X1-3/4"	5	5
24	#12-14X1-3/4"	5	5
30	#12-14X1-3/4"	5	5
36	#12-14X1-3/4"	5	5
42	#12-14X1-3/4"	5	5
48	#12-14X1-3/4"	5	5

NOTE: LARGE MISSILE IMPACT RESISTANT

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SEAL
Scott Wolters
 8-14-09

Approved as complying with the Florida Building Code
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 NOA# 09-0513.01
 Miami Dade Product Control
 Division
 By: *[Signature]*

SHEET 4 OF 5

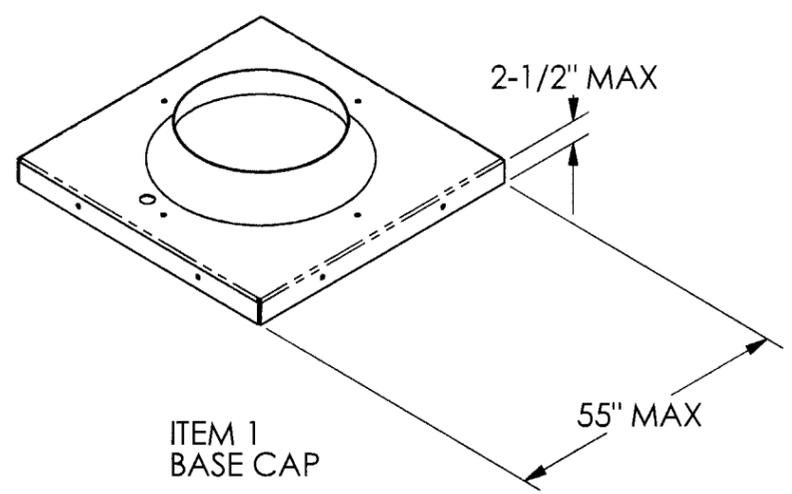
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE

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	XXX ± .005	

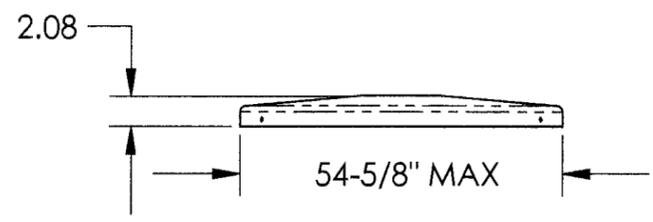
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 DRAWN: WMC CHECKED: ---
 DO NOT SCALE DRAWING

Soler & Palau USA (S&P)
 BREIDERT AIR PRODUCTS
 JACKSONVILLE, FLORIDA
 DB 6-48
 SIZE: A ORIGINAL E.N.: --- PART NO.: DBMDHF REV. B
 NOT TO SCALE

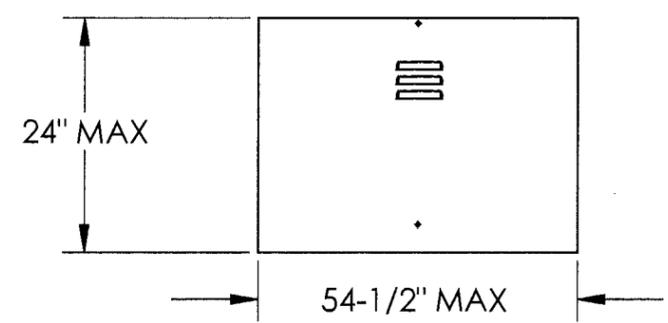
CAD FILE	DBMDF	SHEET	5	REV	B	SHEET 5 OF 5		
REVISIONS								
REV	ZONE	DESCRIPTION	BY	DATE	APP.			
A	--	REVISED PER MDC LTR DTD 7/7/09	RHAY	7/8/09	----			
B	--	REVISED PER MDC LTR DTD	WMC	7/14/09	----			
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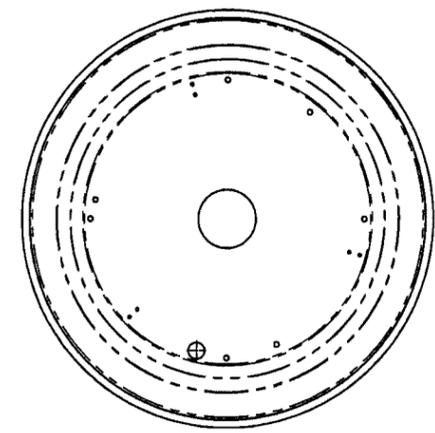
ITEM 1
BASE CAP



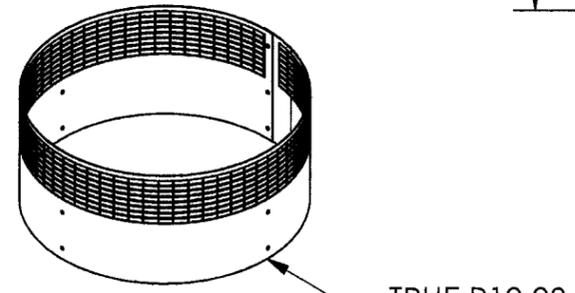
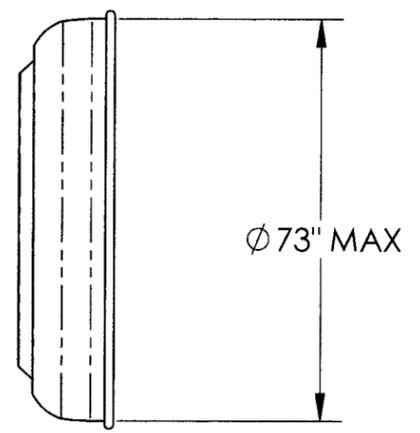
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DRIVE COVER CAP



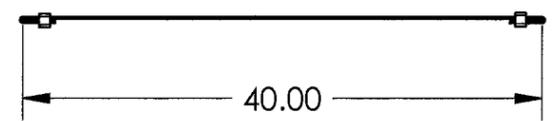
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DRIVE COVER



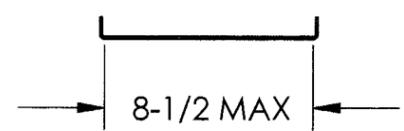
ITEM 4
SKIRT



ITEM 3
WINDBAND



ITEM 9
TIE DOWN CABLE



ITEM 2
DRIVE SUPPORT
LEG

NOTE: LARGE MISSILE IMPACT RESISTANT

Approved as complying with the
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NOA# 09-0513.01
Miami Dade Product Control
Division
By [Signature]

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SEAL
Scott Wolters

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± 1/16	XX ± .03	± 1°
	XXX ± .005	

MATERIAL	PROJECT NO.	APPROVALS	DATE

---		DRAWN WMC	4/24/08
---		CHECKED	

DO NOT SCALE DRAWING

SHEET 5 OF 5

Soler & Palau USA

BREIDERT AIR PRODUCTS
JACKSONVILLE, FLORIDA

DB 6-48

SIZE	ORIGINAL E.N.	PART NO.	REV.
A		DBMDF	B

NOT TO SCALE