

Model: DC-PHB

Extruded Aluminum Penthouse Enclosure Box Corner

Miami-Dade County, FL
NOA No: 07-1010.12
Expiration Date: 12-13-2012
FL#: 10397.1

Application:

DC-PHB is a severe duty extruded louvered penthouse enclosure incorporating Leader's Model **DC-436** Miami-Dade approved Louver. The penthouse enclosure is shipped completely assembled eliminating the need for field assembly.

With the factory curb installed, the penthouse is easily attached from the outside perimeter with no need to access the inside of the enclosure. **DC-PHB** may be used for intake or exhaust applications or as a severe duty fan equipment enclosure with the addition of the optional fan mounting collar. The optional hinged roof and internal ladder provides convenient fan access.

DC-PHB is designed specifically to meet the following Miami Dade County test requirements and protocols:

- **PA 201-94** (Large Missile Impact Test)
- **PA 202-94** (Uniform Static Air Pressure Test)
- **PA 203-94** (Cycle Wind Loading Test)

Based on Testing of a throat size of 88" x 100" x 84"h sample with a maximum design load pressure of 85-psf.

Standard Specifications:

Frame: Heavy gauge 4" x .080" thick 6063T5 extruded aluminum.

Blade: Drainable design .080" thick 6063T5 extruded aluminum, mechanically fastened and welded to jambs on backside of blade, set on 36 degree angles. Blades are spaced at 3.25" apart. (Bottom blade opening varies).

Birdscreen: Standard .0516" x 3/4" flattened expanded aluminum.

Minimum Throat Size:

12" x 12" x 12" h

Maximum Throat Size:

88" x 100" x 84"h

Options: (at additional cost)

- Insect Screen
- Mill Finish (Standard)
- Enamel Finish
- Kynar Finish
- Powder Coated
- Filters
- Hinged Roof
- Roof Condensation Coating
- Insulated Roof Hood
- Internal Access Ladder
- Fan Mounting Collar (supplied on curb)

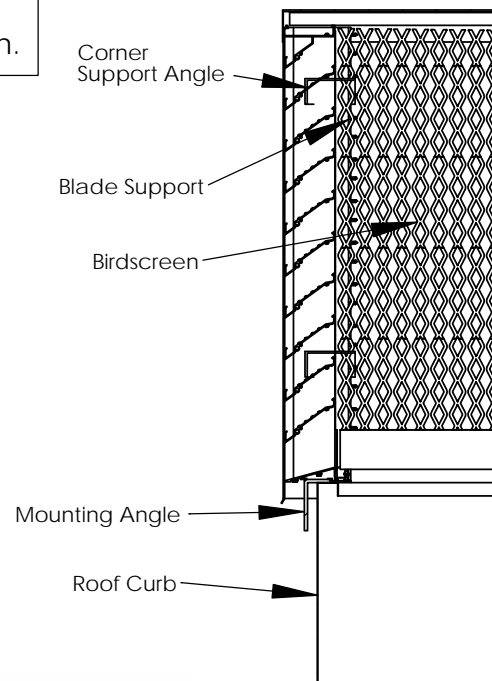
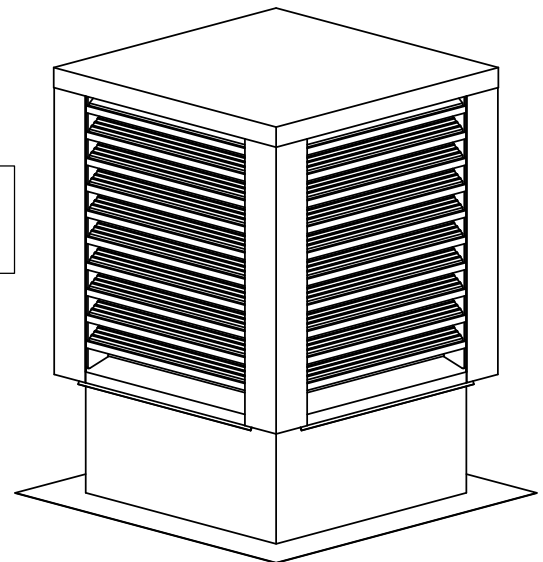
*Kynar finish available in limited sizes, consult factory for availability.

Features:

- Penthouse Shipped fully assembled.
- Easily installed from outer perimeter.
- Miami-Dade County approved as a Fan Enclosure.

Max Wind Load
+/- 85 psf

Note: Factory curb
required to meet Miami
Dade Tests Standard.
Available through
Creative Metals Division.



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DC-PHB Free Area in sq ft of four DC-436 louvers (square penthouse)

		Single Louver Width						
		12	24	36	48	60	72	84
Single Louver Height	12	1.56	3.48	5.44	7.4	9.36	11.28	13.24
	24	3.72	8.4	13.08	17.76	22.44	27.12	31.8
	36	5.72	12.96	20.2	27.4	34.64	41.88	49.12
	48	7.76	17.56	27.32	37.12	46.88	56.68	66.48
	60	10.08	22.76	35.44	48.12	60.8	73.48	86.16
	72	12.08	27.32	42.56	57.76	73	88.24	103.48
	84	14.12	31.92	49.68	67.48	85.28	103.08	120.84
	96	16.4	37.08	57.72	78.4	99.08	119.76	140.4

Severe Duty Miami-Dade County Approved Louvered Penthouse Model DC-PHB

Volumetric Flow Rate and Static Pressure Loss Performance Data

		Static Pressure Loss (in. WG)							
		0.052	0.093	0.145	0.230	0.314	0.399	0.483	0.568
Height	Square	Throat Velocity (FPM)							
		600	800	1000	1200	1400	1600	1800	2000
12	12	936	1248	1560	1872	2184	2496	2808	3120
	24	2088	2784	3480	4176	4872	5568	6264	6960
	36	3264	4352	5440	6528	7616	8704	9792	10880
	48	4440	5920	7400	8880	10360	11840	13320	14800
	60	5616	7488	9360	11232	13104	14976	16848	18720
	72	6768	9024	11280	13536	15792	18048	20304	22560
24	84	7944	10592	13240	15888	18536	21184	23832	26480
	12	2232	2976	3720	4464	5208	5952	6696	7440
	24	5040	6720	8400	10080	11760	13440	15120	16800
	36	7848	10464	13080	15696	18312	20928	23544	26160
	48	10656	14208	17760	21312	24864	28416	31968	35520
	60	13464	17952	22440	26928	31416	35904	40392	44880
36	72	16272	21696	27120	32544	37968	43392	48816	54240
	84	19080	25440	31800	38160	44520	50880	57240	63600
	24	7776	10368	12960	15552	18144	20736	23328	25920
	36	12120	16160	20200	24240	28280	32320	36360	40400
	48	16440	21920	27400	32880	38360	43840	49320	54800
	60	20784	27712	34640	41568	48496	55424	62352	69280
48	72	25128	33504	41880	50256	58632	67008	75384	83760
	84	29472	39296	49120	58944	68768	78592	88416	98240
	36	16392	21856	27320	32784	38248	43712	49176	54640
	48	22272	29696	37120	44544	51968	59392	66816	74240
	60	28128	37504	46880	56256	65632	75008	84384	93760
	72	34008	45344	56680	68016	79352	90688	102024	113360
60	84	39888	53184	66480	79776	93072	106368	119664	132960
	48	28872	38496	48120	57744	67368	76992	86616	96240
	60	36480	48640	60800	72960	85120	97280	109440	121600
	72	44088	58784	73480	88176	102872	117568	132264	146960
	84	51696	68928	86160	103392	120624	137856	155088	172320
	72	60	43800	58400	73000	87600	102200	116800	131400
84	72	52944	70592	88240	105888	123536	141184	158832	176480
	84	62088	82784	103480	124176	144872	165568	186264	206960
	72	61848	82464	103080	123696	144312	164928	185544	206160
	84	72504	96672	120840	145008	169176	193344	217512	241680

Pressure loss ratings do not include the effect of birdscreen.



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Aug. 1, 2008

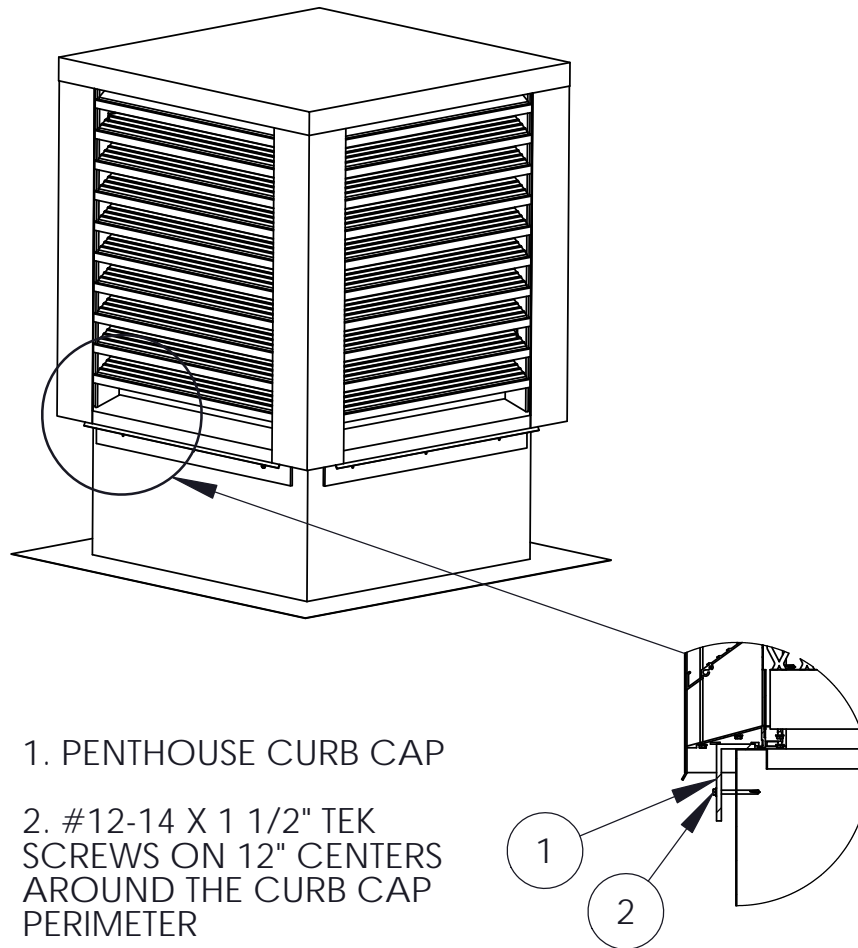
DC-PHB Penthouse Installation Instructions

Installation

INSTALL THE FACTORY SUPPLIED MIAMI DADE/FLORIDA BUILDING CODE ROOF CURB PER ONE OF THE APPROVED ANCHORING METHODS AS LISTED ON THE ROOF CURB SUBMITTAL.

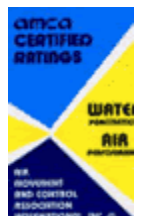
THE DC-PHB PENTHOUSE CURB CAP IS FURNISHED WITH PRE-PUNCHED 5/16" SCREW HOLES SPACED ON 12" CENTERS. ONCE THE FACTORY SUPPLIED ROOF CURB HAS BEEN PROPERLY INSTALLED, THE PENTHOUSE IS SET OVER THE ROOF CURB AND SECURED WITH #12-14 X 1 1/2" TEK SCREWS THROUGH THE HOLES PROVIDED INTO THE CURB SIDEWALLS.

SEE ILLUSTRATION BELOW FOR FURTHER DETAILS.



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DC-PHB Hurricane Louvered Penthouse Specifications

All Severe Duty Hurricane Louvers shall have been tested and successfully passed the Miami-Dade County requirements as listed below for impact resistance, static and cyclic air pressure testing as set forth by the Miami-Dade County Building Code Compliance Office and carry the appropriate NOA seal.

- A. Impact Test: TAS 201 Large Missile
- B. B. Uniform Static Pressure Test: TAS 202
- C. Cyclic Wind Pressure Load Test TAS 203 with a Specimen Design Pressure (DP) rating not less than 85 pounds per square foot.

The **DC-PHB** is a severe duty extruded louvered penthouse enclosure constructed utilizing the Model DC-436 Miami Dade approved louvers specifically designed to resist impact from wind borne debris.

The DC-436 four-inch deep Hurricane Louvers have been tested and certified for air performance and water penetration and are in compliance with the requirements of **AMCA** Standard 500 and carry the appropriate seals.

The **DC-PHB** four-inch deep Hurricane Louvered Penthouse is a horizontal extruded blade design incorporating integral water drains located within the louver jambs. Louver Blades, Jamb Headers and Sills are constructed using a minimum .080 thick extruded 6063 T5 aluminum alloy. The roof is formed using .080 thick aluminum with reinforcement. A .0516 thick expanded aluminum bird screen attached to the rear of the louvers is standard.

The **DC-PHB** was tested with a factory supplied Miami Dade approved roof curb and is easily installed from the outside perimeter using simple hand tools with out having to have access from inside the penthouse. The **DC-PHB** may be used for either intake or exhaust applications or as a severe duty fan or equipment enclosure with the addition of the optional curb mounting collar. The optional hinged roof and internal ladder provides easy access to the interior for inspection and servicing of any installed equipment.

Acceptable Manufacturers

1. Leader Dampers & Louvers Model **DC-PHB**.