

Model: DC-PEAB

Extruded Aluminum Penthouse Enclosure
Box Corner

Miami-Dade County, FL
NOA No: 10- 0216.01
Expiration Date: March 17, 2015
FL#: FL6150

APPLICATION:

DC-PEAB is a severe duty extruded louvered penthouse enclosure incorporating Leader's Model **DC-638** 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-PEAB** 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-PEAB 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 84" x 96" x 82" h sample with a maximum design load pressure of 100-psf.

STANDARD SPECIFICATIONS:

Louver Frame: Heavy gauge 6" x .125" thick 6063T5 extruded aluminum.

Louver Blade: Drainable design .125" thick 6063T5 extruded aluminum, mechanically fastened and welded to jambs on backside of blade, set on 38° angles. Blades are spaced at 4.75" apart. (Bottom blade opening varies).

Roof: .080 formed aluminum.

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



MINIMUM THROAT SIZE:

12" X 12" X 12" h

MAXIMUM THROAT SIZE:

84" X 96" X 82" h

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

OPTIONS: (at additional cost)

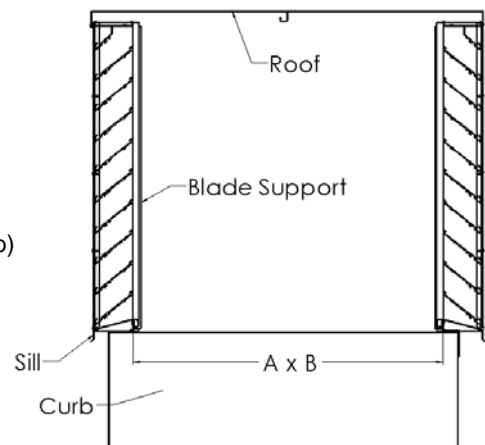
- | | |
|---|---|
| <input type="checkbox"/> Insect Screen | <input type="checkbox"/> Hinged Roof |
| <input type="checkbox"/> Mill Finish (Standard) | <input type="checkbox"/> Roof Condensation Coating |
| <input type="checkbox"/> Enamel Finish | <input type="checkbox"/> Insulated Roof Hood |
| <input type="checkbox"/> Kynar Finish* | <input type="checkbox"/> Internal Access Ladder |
| <input type="checkbox"/> Powder Coated | <input type="checkbox"/> Fan Mounting Collar (supplied on curb) |
| <input type="checkbox"/> Filters | |

*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 ±100 psf



Section View

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Dampers & Louvers

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DC-PEAB Free Area of Four DC-638 Louvers (Square Penthouse Form)

Single Louver Height	Single Louver Width							
	12	24	36	48	60	72	84	96
12	0.36	0.82	1.28	1.75	2.21	2.67	3.14	3.60
24	0.84	1.92	3.01	4.09	5.18	6.26	7.35	8.43
36	1.41	3.23	5.05	6.88	8.7	10.53	12.35	14.18
48	1.86	4.28	6.7	9.11	11.53	13.95	16.36	18.78
60	2.45	5.63	8.81	11.99	15.17	18.35	21.53	24.71
72	2.93	6.74	10.54	14.34	18.15	21.95	25.76	29.56
84	3.5	8.04	12.57	17.11	21.65	26.19	30.73	35.27

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

Volumetric Flow Rate and Static Pressure Loss Performance Data

		Static Pressure Loss (in. WG)										
		0.008	0.018	0.027	0.037	0.050	0.061	0.074	0.089	0.120	0.180	0.220
Penthouse Dimensions	Square	Air Velocity (fpm)										
	Height	200	300	400	500	600	700	800	900	1000	1100	1200
12	12	288	432	576	720	864	1008	1152	1296	1440	1584	1728
	24	672	1008	1344	1680	2016	2352	2688	3024	3360	3696	4032
24	12	656	984	1312	1640	1968	2296	2624	2952	3280	3608	3936
	24	1536	2304	3072	3840	4608	5376	6144	6912	7680	8448	9216
	36	2584	3876	5168	6460	7752	9044	10336	11628	12920	14212	15504
36	12	1024	1536	2048	2560	3072	3584	4096	4608	5120	5632	6144
	24	2408	3612	4816	6020	7224	8428	9632	10836	12040	13244	14448
	36	4040	6060	8080	10100	12120	14140	16160	18180	20200	22220	24240
	48	5360	8040	10720	13400	16080	18760	21440	24120	26800	29480	32160
48	12	1400	2100	2800	3500	4200	4900	5600	6300	7000	7700	8400
	24	3272	4908	6544	8180	9816	11452	13088	14724	16360	17996	19632
	36	5504	8256	11008	13760	16512	19264	22016	24768	27520	30272	33024
	48	7288	10932	14576	18220	21864	25508	29152	32796	36440	40084	43728
	60	9592	14388	19184	23980	28776	33572	38368	43164	47960	52756	57552
60	12	1768	2652	3536	4420	5304	6188	7072	7956	8840	9724	10608
	24	4144	6216	8288	10360	12432	14504	16576	18648	20720	22792	24864
	36	6960	10440	13920	17400	20880	24360	27840	31320	34800	38280	41760
	48	9224	13836	18448	23060	27672	32284	36896	41508	46120	50732	55344
	60	12136	18204	24272	30340	36408	42476	48544	54612	60680	66748	72816
	72	14520	21780	29040	36300	43560	50820	58080	65340	72600	79860	87120
72	12	2136	3204	4272	5340	6408	7476	8544	9612	10680	11748	12816
	24	5008	7512	10016	12520	15024	17528	20032	22536	25040	27544	30048
	36	8424	12636	16848	21060	25272	29484	33696	37908	42120	46332	50544
	48	11160	16740	22320	27900	33480	39060	44640	50220	55800	61380	66960
	60	14680	22020	29360	36700	44040	51380	58720	66060	73400	80740	88080
	72	17560	26340	35120	43900	52680	61460	70240	79020	87800	96580	105360
	84	20952	31428	41904	52380	62856	73332	83808	94284	104760	115236	125712
84	12	2512	3768	5024	6280	7536	8792	10048	11304	12560	13816	15072
	24	5880	8820	11760	14700	17640	20580	23520	26460	29400	32340	35280
	36	9880	14820	19760	24700	29640	34580	39520	44460	49400	54340	59280
	48	13088	19632	26176	32720	39264	45808	52352	58896	65440	71984	78528
	60	17224	25836	34448	43060	51672	60284	68896	77508	86120	94732	103344
	72	20608	30912	41216	51520	61824	72128	82432	92736	103040	113344	123648
	84	24584	36876	49168	61460	73752	86044	98336	110628	122920	135212	147504
96	12	2880	4320	5760	7200	8640	10080	11520	12960	14400	15840	17280
	24	6744	10116	13488	16860	20232	23604	26976	30348	33720	37092	40464
	36	11344	17016	22688	28360	34032	39704	45376	51048	56720	62392	68064
	48	15024	22536	30048	37560	45072	52584	60096	67608	75120	82632	90144
	60	19768	29652	39536	49420	59304	69188	79072	88956	98840	108724	118608
	72	23648	35472	47296	59120	70944	82768	94592	106416	118240	130064	141888
	84	28216	42324	56432	70540	84648	98756	112864	126972	141080	155188	169296



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Pressure loss ratings do not include the effect of birdscreen.

DC-PEAB 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 100 pounds per square foot.

The **DC-PEAB** is a severe duty extruded louvered penthouse enclosure constructed utilizing the Model DC-638 Miami Dade approved louvers specifically designed to resist impact from wind borne debris.

The DC-638 six-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-PEAB** six-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-PEAB** 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-PEAB** 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-PEAB**.