

LVEAC Natural Intake Combination Ventilation



MoffittCorp.com | (800) 474-3267
1351 13th Ave S. Suite 130
Jacksonville Beach, FL 32250



LVEAC Natural Intake Combo Ventilator

LVEAC Table of Contents

LVEAC Product Details	2
LVEAC Combination Damper / Louver	3
LVEAC Combination Louver / Damper – Performance Data	4
LVEAC Combination Louver/ Damper - Free Area Chart	5
LVEAC Combination Louver / Damper Guide Specification	6

LVEAC Natural Intake Combo Ventilator

LVEAC Product Details

PRODUCT DESCRIPTION

Moffitt Corporation Wall Louver (LV) Extruded Aluminum (EA) Combination (C) units, or LVEAC wall louvers, provide great performance, architectural appeal and adaptability. Each unit has a fixed front blade and adjustable rear blades.

STANDARD FEATURES

- Frame: 6.20" deep, .125" nominal thickness
- Adjustable Blades: .125" extruded aluminum.
- Fixed Blades: .081" nominal wall thickness. Blades are positioned on a 37° angle and spaced approximately 3.58" to center
- Single panel size range 12" x 12" to 60" x 120"
- Screen: 3/4" x .051 Flattened Aluminum in Removable Frame
- Mullion Covers
- Mounting Clips & Fasteners

OPTIONAL FEATURES

- Flanged Frame
- Blade Seals
- Jamb seals
- Aluminum insect screen
- Coating options
 - Epoxy
 - Vinyl
 - Kynar®
- Multiple panel width / height configurations
- Operators
 - Manual chain pull
 - Hand crank
 - Motor operators, 115v
 - Hand wheel
 - Jack-shafting operator

PRODUCT BENEFITS

- Ideal for applications wherein a fixed louver is required on the exterior face of a facility, usually for aesthetic purposes, and a fully closing louver is required to block the airflow.
- Designed for a variety of commercial and industrial applications.

INDUSTRY APPLICATIONS

- | | | |
|------------------|-----------------|-----------------------|
| • Aluminum | • Rolling mills | • Forges |
| • Power stations | • Steel | • Warehouses |
| • Glass | • Foundries | • Compressor Stations |

LVEAC Natural Intake Combo Ventilator

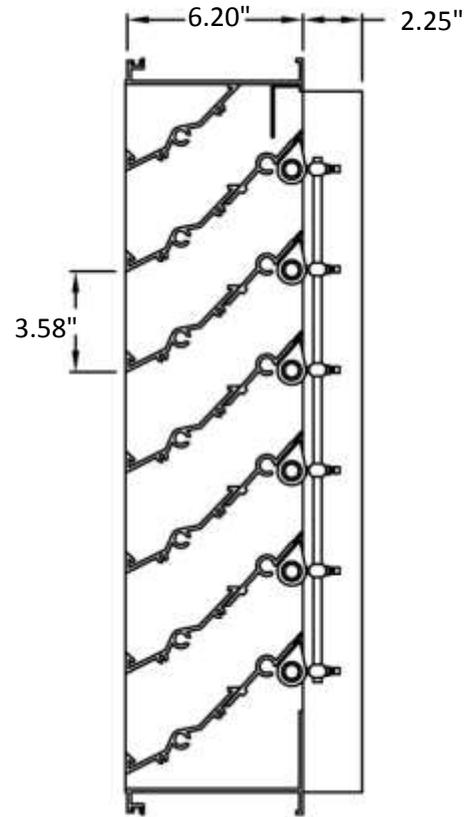
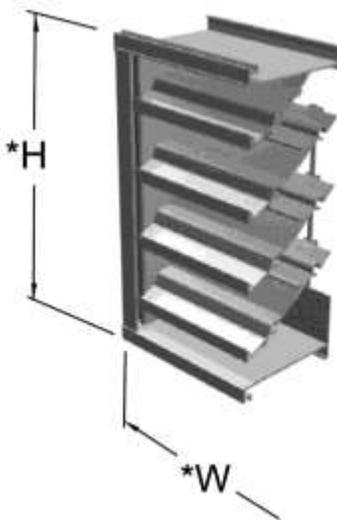
LVEAC Combination Damper / Louver

STANDARD FEATURES

- Frame: 6.20" deep, .125" nominal thickness
- Adjustable Blades: .125" extruded aluminum.
- Fixed Blades: .081" nominal wall thickness. Blades are positioned on a 37° angle, spaced approx. 3.58" to center
- Single panel size range 12" x 12" to 60" x 120"
- Screen: 3/4" x .051 Flattened Aluminum in Removable Frame
- Mullion Covers
- Mounting Clips & Fasteners

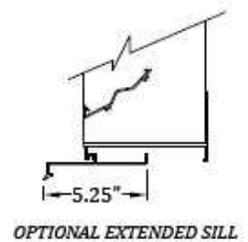
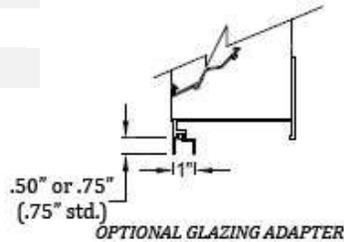
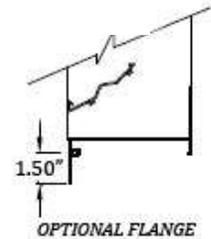
OPTIONAL FEATURES

- Flanged Frame
- Blade Seals
- Jamb seals
- Aluminum insect screen
- Coating options
 - Epoxy
 - Vinyl
 - Kynar®
- Multiple panel width / height configurations
- Operators
 - Manual chain pull
 - Hand crank
 - Motor operators, 115v
 - Hand wheel
 - Jack-shafting operator



Frame Construction

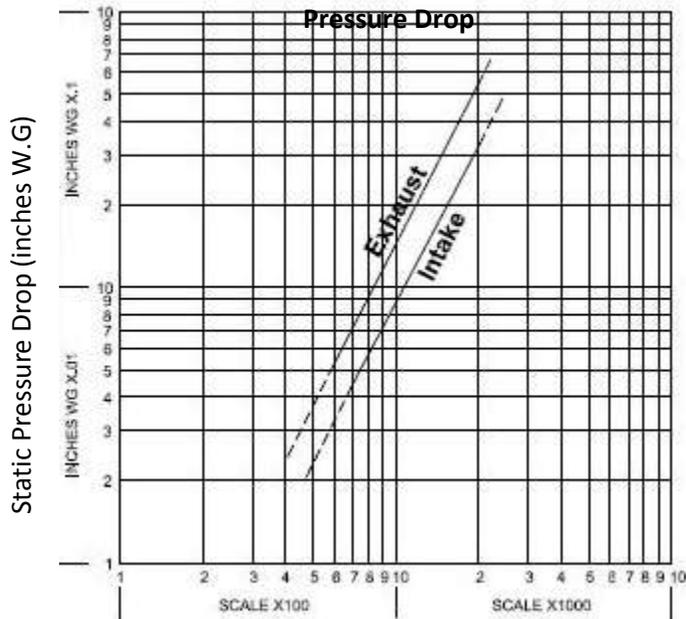
*NOTE: W & H dimensions furnished approximately 1/4" under size.



Mark	QTY	Louver Size		Job Description
		A' Width	B' Height	

LVEAC Natural Intake Combo Ventilator

LVEAC Combination Louver / Damper - Performance Data



FREE AREA VELOCITY (FT/MIN)

Based on Standard Air- .075lbs/ft³
Ratings do not include the effects of screen
Test Size 48" x 48", 15 minute test duration
Tested to Figure 5.5

Beginning point of Water Penetration for Model LVEAC is
ABOVE 1250 fpm. (note: Testing stops at 1250fpm.)

free area velocity at .01 oz of water penetration

LVEAC Natural Intake Combo Ventilator

LVEAC Combination Louver/ Damper - Free Area Chart

Height (inches)	Width (inches)								
	12	18	24	30	36	42	48	54	60
12	0.19	0.31	0.43	0.55	0.67	0.78	0.90	1.02	1.14
18	0.42	0.69	0.95	1.22	1.48	1.75	2.01	2.28	2.54
24	0.70	1.13	1.57	2.01	2.45	2.88	3.32	3.76	4.20
30	0.90	1.46	2.02	2.59	3.15	3.71	4.28	4.84	5.40
36	1.11	1.81	2.51	3.20	3.90	4.60	5.30	6.00	6.70
42	1.39	2.26	3.13	4.00	4.88	5.75	6.62	7.49	8.36
48	1.59	2.58	3.58	4.58	5.57	6.57	7.57	8.56	9.56
54	1.79	2.91	4.03	5.15	6.28	7.40	8.52	9.64	10.77
60	2.08	3.39	4.69	6.00	7.30	8.61	9.92	11.22	12.53
66	2.28	3.71	5.14	6.57	8.00	9.43	10.86	12.30	13.73
72	2.44	3.97	5.50	7.03	8.56	10.09	11.62	13.15	14.68
78	2.77	4.51	6.25	7.99	9.73	11.47	13.21	14.95	16.69
84	2.97	4.83	6.69	8.56	10.42	12.28	14.15	16.01	17.87
90	3.18	5.17	7.17	9.17	11.16	13.16	15.16	17.15	19.15
96	3.46	5.64	7.81	9.99	12.16	14.34	16.51	18.69	20.86
102	3.66	5.95	8.25	10.55	12.85	15.14	17.44	19.74	22.04
108	3.87	6.30	8.73	11.16	13.58	16.01	18.44	20.87	23.30
114	4.16	6.77	9.39	12.00	14.61	17.23	19.84	22.45	25.07
120	4.35	7.08	9.81	12.54	15.28	18.01	20.74	23.47	26.20

All specifications are subject to change without notice unless approved in submittal by Moffitt Corporation, Inc.

LVEAC Natural Intake Combo Ventilator

LVEAC Combination Louver / Damper Guide Specification

1.1. DESCRIPTION

Furnish and install LVEAC Combination Louver/ Damper with Drainable Blade and Jamb Gutter Downspouts with accessories as shown on the drawings.

1.2. QUALITY ASSURANCE

MOFFITT (Jacksonville Beach, FL, 1-800-474-3267) Products establish the standard of quality required. Manufacturer and erector shall demonstrate a minimum of five (5) years of related industry experience.

1.3. SUBSTITUTIONS

No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the designer at least ten (10) days prior to bid date. Any proposed substitutions should meet the standards set by the specification.

1.4. SUBMITTALS

Furnish approval drawings prior to fabrication and erection drawings prior to shipment showing all erection procedures and accessories required for the specified product.

2.1. DESIGN

The LVEAC High Performance Louver/Damper shall be designed to withstand (20psf) wind load. The installer shall provide structural support as required to meet wind load. The louver free area, water penetration and pressure drop levels shall meet or exceed those of the specified louver. The maximum louver assembled panel shall be 108" wide x 48" high; or 48" wide x 96" high" for single section. Larger sizes to be field assembled. Frame to be channel frame design.

2.2. MATERIALS

The LVEAC-6 Combination Louver/Damper frame shall be fabricated from .125" Extruded Aluminum material x 6.2" deep. Blade shall be .081" Extruded Aluminum material positioned at a 37° angle and approximately 3.58" on centers. Louver to be mill finish and factory assembled.

2.3. ACCESSORIES (Select as required)

- 2.3.1. The louvers shall be equipped with ¼" mesh x .051" flattened aluminum bird screen in a removable frame installed on the rear (inside) of the louver.
- 2.3.2. Louver to have Flanged Frame.
- 2.3.3. Louver to have Extended Sill.
- 2.3.4. Louver to have Blade Seals.
- 2.3.5. Louver to have Jamb Seals.
- 2.3.6. Louvers to have Filter Frames for _____" Filters.
- 2.3.7. Louvers to have Security Bars. _____" x _____" on _____" centers.
- 2.3.8. Louvers to have Hinged Sub-frame
- 2.3.9. Louvers to have Insect Screen – 18-16 Mesh
- 2.3.10. Louvers to have Baked Powder Polyester Coating
- 2.3.11. Louvers to have Baked Powder Fluoropolymer Coating
- 2.3.12. Louvers to have Baked Powder Clear Coat
- 2.3.13. Louvers to be Clear Anodized
- 2.3.14. Louvers to be Integral Color Anodized.

3.1. INSPECTION

Examine alignment of structural steel prior to installation and do not proceed until structure is within tolerances established by AISC.

3.2. INSTALLATION AND ERECTION

Install LVEAC-6 Fixed Drainable Wall Louvers and accessories in conformance with approved drawings and MOFFITT specifications.

3.3. DAMAGED MATERIAL

Repair or replace all damaged material.