

LVR-6045 Natural Intake Ventilation



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



LVR-6045 Product Details

PRODUCT DESCRIPTION

The 6045-4 louver features operable drainable blades that provide positive airflow shutoff when closed and protection against water penetration when open. The 6045-4 is available in a wide array of anodized and painted finishes including custom color matching. These units are also available with a variety of factory mounted electric or pneumatic actuators.

STANDARD FEATURES

- Material: Mill finish 6063-T5 extruded aluminum
- Frame: 4" deep × 0.081" thick (102 × 2) channel
- Blades: 45° × 0.081" (2) thick operable drainable style
- Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum.
- Axles: 1/2" (13) diameter plated steel hex
- Linkage: Concealed in frame
- Bearings: Synthetic
- Mullion: Visible
- Minimum Size: 12" × 12" (305 × 305)
- Maximum Size:
 - Single section:
 - 48" × 96" (1219 × 2436) w/ low leakage seals
 - 60" × 96" (1524 × 2436) w/o low leakage seals
 - Multiple section: Unlimited
- Free Area: [48" × 48" (1219 × 1219) unit]: 7.5 ft² (0.70 m²) 46.9%
- Water Penetration Beginning Point Performance
 - Free Area Velocity: 1,024 fpm (5.20 m/s)
 - Air Volume Delivered: 7,096 cfm (3.35 m³/s)
 - Pressure Loss: 0.16 in.wg. (40 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss: 1,000 fpm (5.08 m/s)
- Design Load: 30 psf

OPTIONAL FEATURES

- Factory finish:
 - Polyester Powder
 - Baked Enamel
 - Clear or Color Anodized, Class 1
 - Prime Coat
- Frame Options
 - 1-1/2" (38) flange frame
 - Stucco flange
 - Galvanizing Frame
- Installation Hardware
 - Clip angles
 - Continuous Angles
- Welded construction
- Alternate bird or insect screens
- Insulated or non-insulated blank-off panels
- Filter racks
- Hinged frame
- Subframe
- Head and/or sill flashing
- Burglar bars
- Frame closure
- Net OD (actual size)
- Factory mounted electric or pneumatic actuator.
- No low leakage seals.

INDUSTRY APPLICATION

- | | | |
|-------------------------|--------------------------|-----------------------|
| • Aluminum Plants | • Glass & Glass Products | • Power Stations |
| • Automotive Plants | • Gypsum Plants | • Pulp & Paper Plants |
| • Cement & Concrete | • Heavy Manufacturing | • Specialty Chemicals |
| • Chemical Plants | • Mining & Minerals | • Steel Mills |
| • Foundries & Forging | • Plastics Plants | • Warehouses |
| • General Manufacturing | • Processing Industry | • +Others |

LVR-6045 Free Area

Free Area (ft²)

	12	18	24	30	36	42	48	54	60
12	0.2	0.5	0.7	0.8	1.00	1.2	1.4	1.6	1.7
18	0.5	1.0	1.0	1.3	1.5	1.8	2.1	2.4	2.6
24	0.7	1.5	1.5	1.9	2.3	2.7	3.0	3.4	3.8
30	0.9	1.9	1.9	2.4	3.0	3.5	4.0	4.5	5.1
36	1.1	2.4	2.4	3.0	3.7	4.3	5.0	5.6	6.3
42	1.3	2.8	2.8	3.6	4.4	5.2	5.9	6.7	7.5
54	1.5	3.3	3.3	4.2	5.1	6.0	6.9	7.8	8.7
60	1.7	3.8	3.8	4.8	5.8	6.8	7.9	8.9	9.9
66	1.9	4.2	4.2	5.4	6.5	7.7	8.8	10.0	11.1
72	2.1	4.7	4.7	6.0	7.2	8.5	9.8	11.1	12.3
78	2.3	5.1	5.1	6.5	7.9	9.4	10.8	12.2	13.6
84	2.5	5.6	5.6	7.1	8.7	10.2	11.7	13.2	14.8
90	2.8	6.1	6.1	7.7	9.4	11.0	12.7	14.3	16.0
96	3.0	6.5	6.5	8.3	10.1	11.9	13.6	15.4	17.2

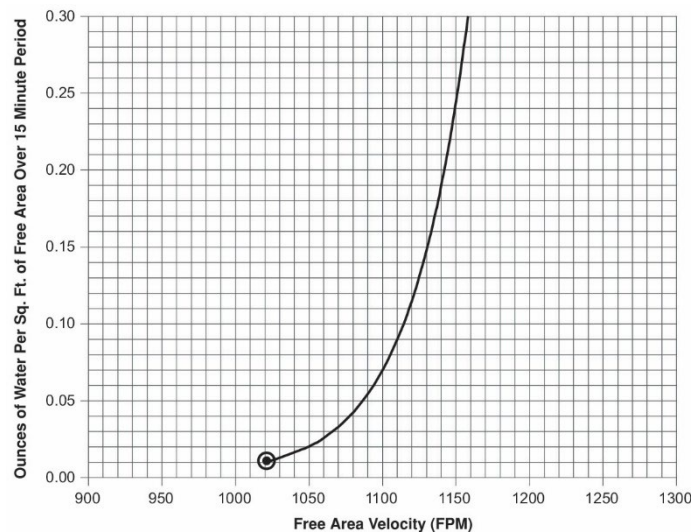
Width (Inches)

Water Penetration

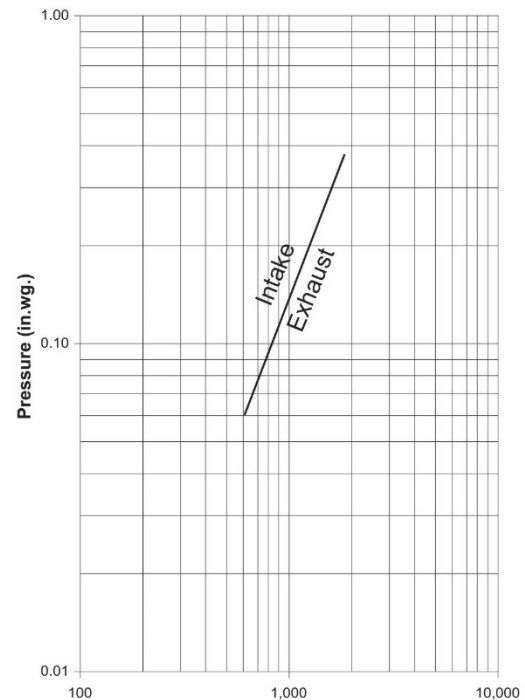
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15-minute period.

The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. We recommend that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = 1,024 fpm



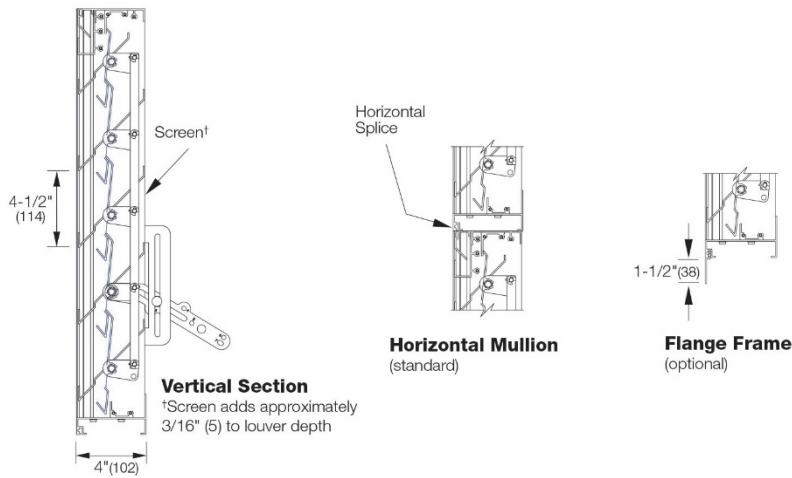
Pressure Loss



Free Area Velocity (fpm)
 Louver Test Size = 48" x 48" (1219 x 1219)
 Pressure loss tested in accordance with Figure 5.5
 of AMCA standard 500-L. Data corrected to
 standard air density.

LVR-6045 Natural Intake Ventilator

LVR-6045 Attributes



LV 6045 Supplemental Options

