

# ***LVR-3045*** Natural Intake Ventilation

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# LVR-3045-4 Natural Intake Ventilator

## LVR-3045-4-G Product Details

### PRODUCT DESCRIPTION

The 3045-4-G formed steel drainable blade louver is designed to prevent water penetration in non-wind-driven rain applications by collecting water in frame and blade gutters and channeling it into downspouts and away from airflow paths. The 3045-4-G is available in a wide array of painted finishes including custom color matching.

### STANDARD FEATURES

- Material: Galvannealed steel
- Frame: 4" deep × 20 ga. thick (102 × 1) channel
- Blades: 45° × 20 ga. (1) thick drainable style
- Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum.
- Mullion: Visible.
- Minimum Size: 4.5" × 9" (114 × 229)
- Maximum Size: 48" × 96" (1219 × 2438)
  - Single section:
  - Multiple section: Unlimited
- Free Area: [48" × 48" (1219 × 1219) unit]: 8.5 ft<sup>2</sup> (0.79 m<sup>2</sup>) 53.1%
- Water Penetration Beginning Point Performance
  - Free Area Velocity: 715 fpm (3.63 m/s)
  - Air Volume Delivered: 6,092 cfm (2.88 m<sup>3</sup>/s)
  - Pressure Loss: 0.11 in.wg. (27 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss: 850 fpm (4.32 m/s)
- Design Load: 30 psf

### OPTIONAL FEATURES

- Factory finish:
  - Polyester Powder
  - Baked Enamel
  - Prime Coat
- Frame Options
  - 1-1/2" (38) flange frame
  - Stucco flange
  - Galvanizing Frame
- Installation Hardware
  - Clip angles
  - Continuous Angles
- Hidden Vertical Mullion
- Heavy duty 0.125" (3) construction
- 304 stainless steel construction
- 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)

### 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             |

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## LVR-3045-4 Free Area

Free Area (ft<sup>2</sup>)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.3	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.4	2.5	2.7
18	0.6	1.0	1.3	1.7	2.1	2.4	2.8	3.2	3.5	3.9	4.3	4.6	5.0	5.4	5.8
24	0.8	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9
30	1.1	1.7	2.4	3.0	3.6	4.3	4.9	5.6	6.2	6.9	7.5	8.1	8.8	9.4	10.1
36	1.3	2.1	2.9	3.6	4.4	5.2	6.0	6.8	7.5	8.3	9.1	9.9	10.7	11.4	12.2
42	1.5	2.5	3.4	4.3	5.2	6.1	7.0	8.0	8.9	9.8	10.7	11.6	12.5	13.5	14.4
54	1.9	3.0	4.1	5.2	6.3	7.4	8.5	9.6	10.7	11.9	13.0	14.1	15.2	16.3	17.4
60	2.1	3.3	4.6	5.8	7.1	8.3	9.6	10.8	12.1	13.3	14.6	15.8	17.1	18.3	19.6
66	2.3	3.7	5.1	6.5	7.9	9.2	10.6	12.0	13.4	14.8	16.2	17.6	19.0	20.3	21.7
72	2.5	4.1	5.6	7.1	8.6	10.2	11.7	13.2	14.7	16.3	17.8	19.3	20.8	22.4	23.9
78	2.8	4.4	6.1	7.8	9.4	11.1	12.7	14.4	16.1	17.7	19.4	21.1	22.7	24.4	26.0
84	3.1	5.0	6.8	8.7	10.5	12.4	14.2	16.1	17.9	19.8	21.7	23.5	25.4	27.2	29.1
90	3.3	5.3	7.3	9.3	11.3	13.3	15.3	17.3	19.3	21.3	23.3	25.3	27.2	29.2	31.2
96	3.6	5.7	7.8	9.9	12.1	14.2	16.3	18.5	20.6	22.7	24.9	27.0	29.1	31.3	33.4

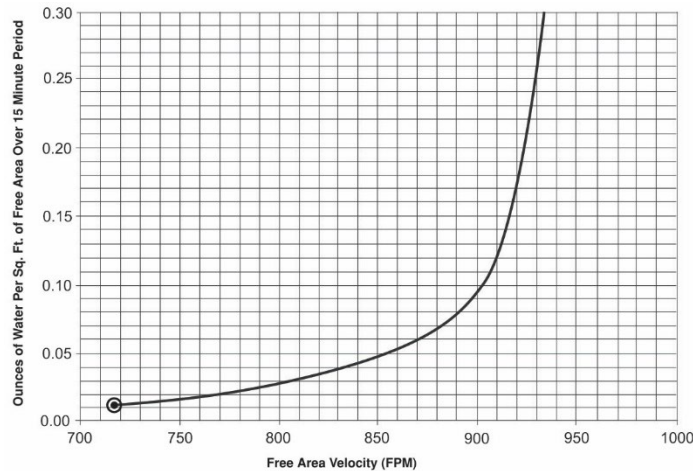
Width (Inches)

## Water Penetration

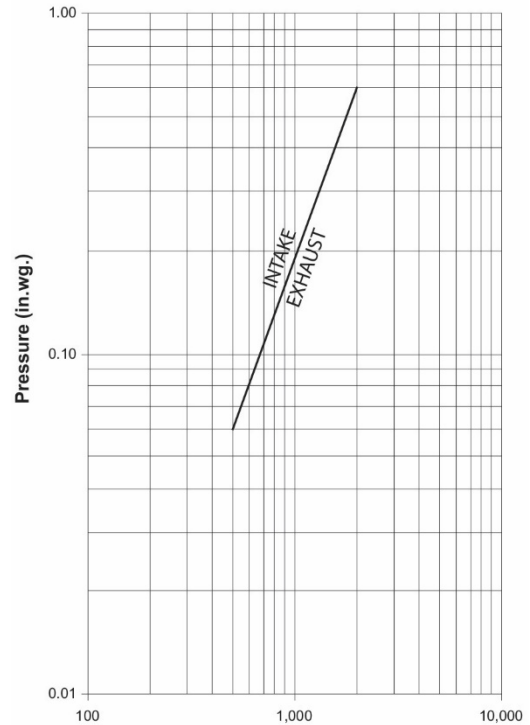
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15-minute period.

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 = 715 fpm**



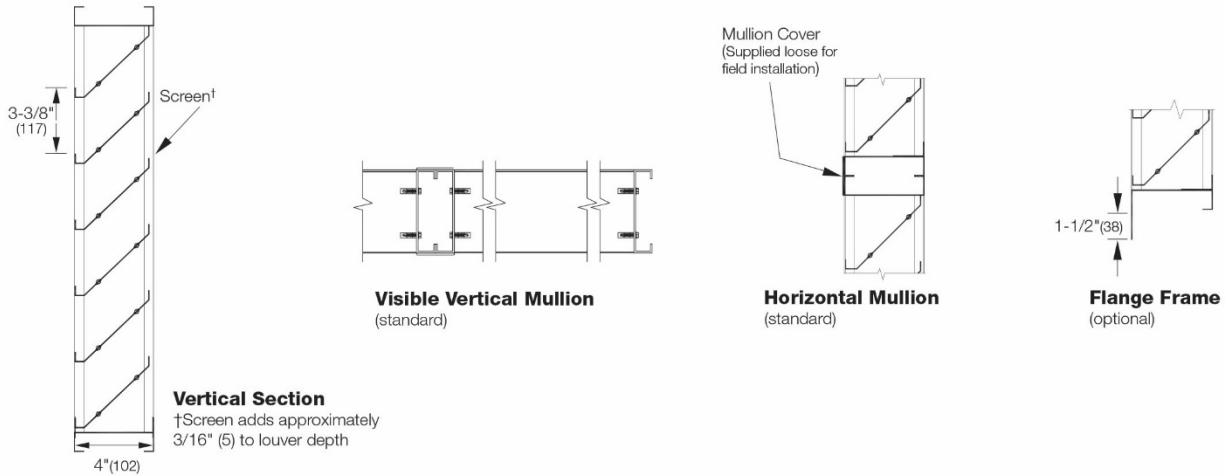
## Pressure Loss



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.

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## LVR-3045-4 Attributes



## LVR-3045-4 Supplemental Options

