LVR-EAC

Natural Intake Ventilation

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Moffitt
NATURAL VENTILATION SOLUTIONS

LVR-EAC-4 Product Details

PRODUCT DESCRIPTION

The LV-EAC combination louver features stationary drainable louver blades to protect against water penetration and an integral control damper to allow positive shutoff protection of air intake and exhaust openings. The LV-EAC 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: 37-1/2 × 0.081" thick (2) thick combination style
- Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum
- Low Leakage Seals: TPV blade edge and flexible metal jamb.
- Axles: 1/2" (13) diameter plated steel hex
- Linkage: Concealed in frame
- Bearings: Synthetic
- 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]: 6.9 ft^2 (0.64 m^2) 43.0%
- Water Penetration Beginning Point Performance
  - Free Area Velocity: 1,172 fpm (5.95 m/s)
  - Air Volume Delivered: 8,134 cfm (3.84 m3/s)
  - Pressure Loss: 0.17 in.wg. (42 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss: 1,085 fpm (5.51 m/s)
- Design Load: 30 psf

OPTIONAL FEATURES

- Factory finish:
  - High Performance Fluoropolymer
  - Prime Coat
  - Baked Enamel
  - Clear Anodize
  - Integral Color Anodize
- Frame Options
  - 1-1/2" (38) flange frame
  - Custom size flange
  - Stucco flange
  - Galvanzing frame
- Installation Hardware
  - Clip angles
  - Continuous Angles
- Alternate bird or insect screens
- Insulated or non-insulated blank-off panels
- Filter racks
- Hinged frame
- Subframe
- Head and/or sill flashing
- Frame closure
- Net OD (actual size)
- No low leakage seals.

INDUSTRY APPLICATION

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

LVR-EAC-4 Free Area

Free Area (ft^2)

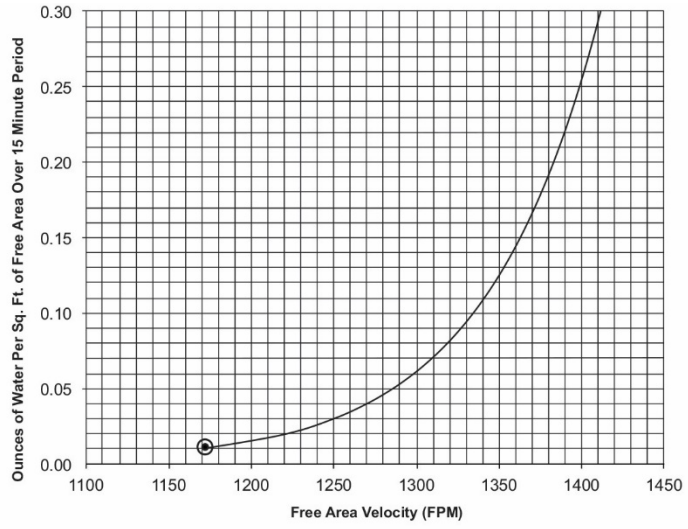
Height (Inches) \ Width (Inches)	12	18	24	30	36	42	48	54	60
12	0.24	0.38	0.53	0.67	0.81	0.95	1.10	1.24	1.38
18	0.52	0.83	1.15	1.46	1.77	2.08	2.40	2.71	3.02
24	0.66	1.06	1.46	1.85	2.25	2.65	3.04	3.44	3.84
30	0.94	1.51	2.08	2.64	3.21	3.78	4.34	4.91	5.48
36	1.09	1.74	2.39	3.04	3.69	4.34	4.99	5.64	6.29
42	1.37	2.19	3.01	3.83	4.65	5.47	6.29	7.11	7.93
48	1.51	2.41	3.32	4.22	5.13	6.03	6.94	7.84	8.75
54	1.79	2.86	3.94	5.01	6.09	7.16	8.24	9.31	10.38
60	1.93	3.09	4.25	5.41	6.57	7.73	8.88	10.04	11.2
66	2.21	3.54	4.87	6.20	7.53	8.85	10.18	11.51	12.84
72	2.35	3.77	5.18	6.59	8.01	9.42	10.83	12.24	13.66
78	2.64	4.22	5.8	7.38	8.96	10.55	12.13	13.71	15.29
84	2.78	4.44	6.11	7.78	9.44	11.11	12.78	14.44	16.11
90	3.06	4.90	6.73	8.57	10.4	12.24	14.08	15.91	17.75
96	3.20	5.12	7.04	8.96	10.88	12.8	14.72	16.64	18.57

Water Penetration

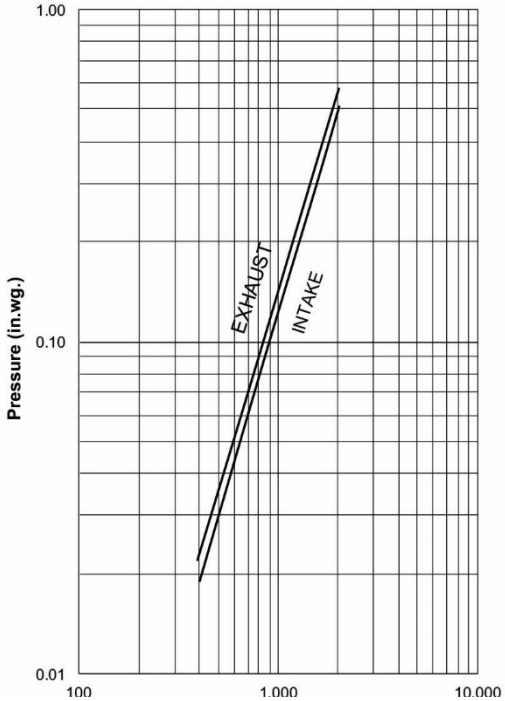
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15-minute period.

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 = 1,712 fpm

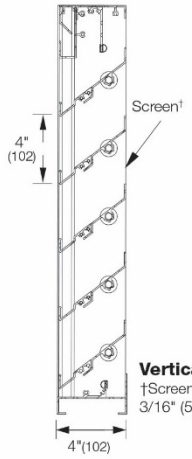


Pressure Loss

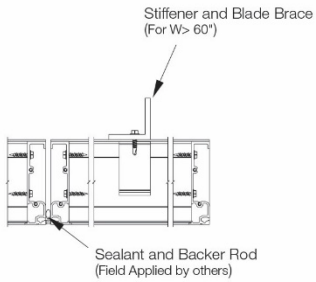


Free Area Velocity (fpm)
Louver Test Size = 48" x 48" (1219 x 1219)
Pressure loss tested in accordance with Figure 5.5 of AMCA standard 500-L.

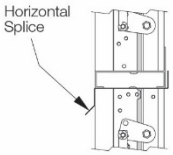
LVR-EAC-4 Attributes



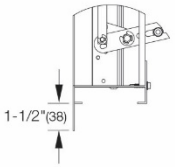
Vertical Section
†Screen adds approximately 3/16" (5) to louver depth



Visible Vertical Mullion
(standard)

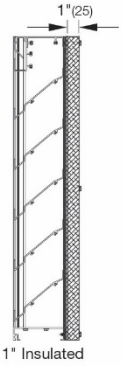


Horizontal Mullion
(standard)

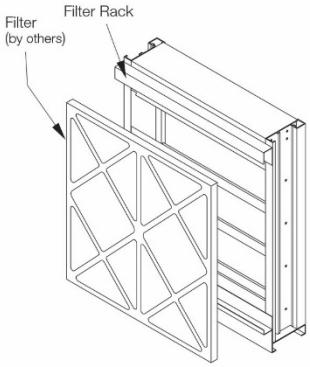


Flange Frame
(optional)

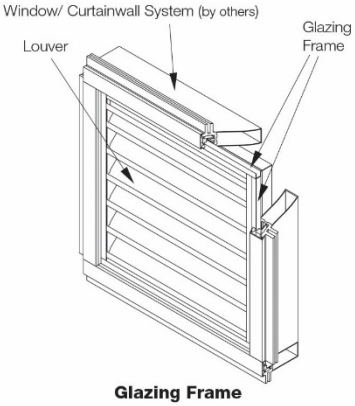
LVR-EAC-4 Supplemental Options



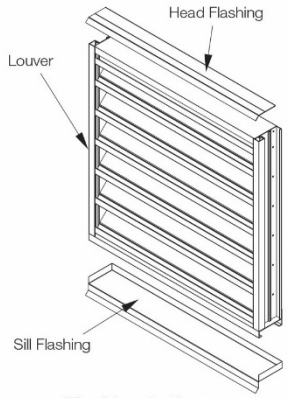
Blank-Off Options
Non-Insulated and Gasketed
1" Insulated (4.4 R-value) As Shown
2" Insulated (8.7 R-value)



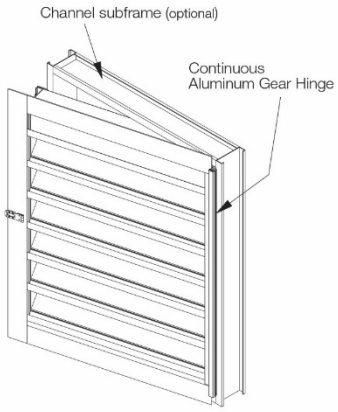
Filter Rack



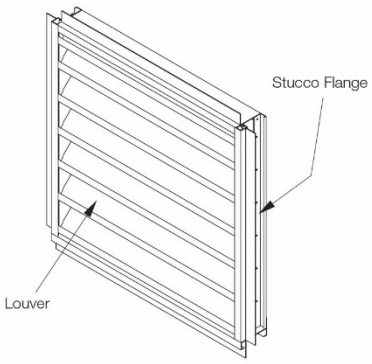
Glazing Frame



Flashing Options
Head and Sill Available



Hinge and Subframe
Right or Left Side Option Available



Stucco Flange
3/4" (19) Standard Stucco Depth

LVR-EAC-6 Product Details

PRODUCT DESCRIPTION

The LV-EAC combination louver features stationary drainable louver blades to protect against water penetration and an integral control damper to allow positive shutoff protection of air intake and exhaust openings. The LV-EAC 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: 37-1/2 × 0.081" thick (2) thick combination style
- Screen: 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum
- Low Leakage Seals: TPV blade edge and flexible metal jamb.
- Axles: 1/2" (13) diameter plated steel hex
- Linkage: Concealed in frame
- Bearings: Synthetic
- 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]: 6.9 ft^2 (0.64 m^2) 43.0%
- Water Penetration Beginning Point Performance
  - Free Area Velocity: 1,172 fpm (5.95 m/s)
  - Air Volume Delivered: 8,134 cfm (3.84 m3/s)
  - Pressure Loss: 0.17 in.wg. (42 Pa)
- Velocity @ 0.15 in.wg. Pressure Loss: 1,085 fpm (5.51 m/s)
- Design Load: 30 psf

OPTIONAL FEATURES

- Factory finish:
  - High Performance Fluoropolymer
  - Prime Coat
  - Baked Enamel
  - Clear Anodize
  - Integral Color Anodize
- Frame Options
  - 1-1/2" (38) flange frame
  - Custom size flange
  - Stucco flange
  - Galvanzing frame
- Installation Hardware
  - Clip angles
  - Continuous Angles
- Alternate bird or insect screens
- Insulated or non-insulated blank-off panels
- Filter racks
- Hinged frame
- Subframe
- Head and/or sill flashing
- Frame closure
- Net OD (actual size)
- No low leakage seals.

INDUSTRY APPLICATION

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

LVR-EAC-6 Free Area

Free Area (ft^2)

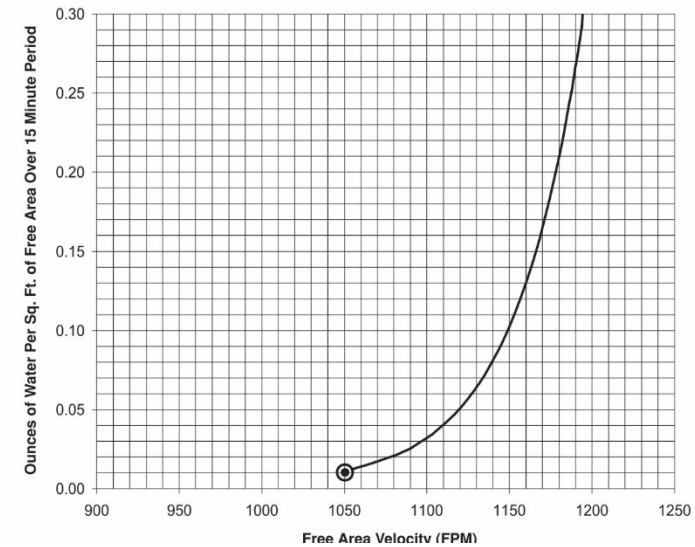
Height (Inches) \ Width (Inches)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.4	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.4	2.5	2.8	3.0	3.3	3.5	3.8	4	4.3	4.5	4.7
18	0.4	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.4	2.5	2.8	3.0	3.3	3.5	3.8	4	4.3	4.5	4.7
24	0.7	1	1.4	1.8	2.2	2.6	2.9	3.3	3.7	3.9	4.3	4.7	5.1	5.5	5.9	6.2	6.6	7.0	7.4
30	0.9	1.4	1.9	2.4	2.9	3.5	4.0	4.5	5.0	5.4	5.9	6.4	6.9	7.4	7.9	8.4	9.0	9.5	10
36	1.1	1.8	2.4	3.1	3.7	4.4	5.0	5.7	6.3	6.8	7.4	8.1	8.7	9.4	10	10.7	11.3	12	12.6
42	1.3	2.1	2.9	3.7	4.5	5.3	6.1	6.9	7.6	8.2	8.9	9.7	10.5	11.3	12.1	12.9	13.7	14.5	15.2
48	1.6	2.5	3.4	4.3	5.3	6.2	7.1	8.0	9.0	9.6	10.5	11.4	12.3	13.3	14.2	15.1	16.0	16.9	17.9
54	1.8	2.9	3.9	5.0	6.0	7.1	8.2	9.2	10.3	11.0	12.0	13.1	14.1	15.2	16.3	17.3	18.4	19.4	20.5
60	2.0	3.2	4.4	5.6	6.8	8.0	9.2	10.4	11.6	12.4	13.6	14.8	16.0	17.1	18.3	19.5	20.7	21.9	23.1
66	2.3	3.6	4.9	6.3	7.6	8.9	10.2	11.6	12.9	13.8	15.1	16.4	17.8	19.1	20.4	21.8	23.1	24.4	25.7
72	2.5	4.0	5.4	6.9	8.4	9.8	11.3	12.7	14.2	15.2	16.7	18.1	19.6	21.0	22.5	24	25.4	26.9	28.4
78	2.7	4.3	5.9	7.5	9.1	10.7	12.3	13.9	15.5	16.6	18.2	19.8	21.4	23.0	24.6	26.2	27.8	29.4	31.0
84	3.0	4.7	6.4	8.2	9.9	11.6	13.4	15.1	16.8	18.0	19.7	21.5	23.2	24.9	26.7	28.4	30.1	31.9	33.6
90	3.2	5.1	6.9	8.8	10.7	12.5	14.4	16.3	18.2	19.4	21.3	23.1	25.0	26.9	28.8	30.6	32.5	34.4	36.2
96	3.4	5.4	7.4	9.4	11.4	13.5	15.5	17.5	19.5	20.8	22.8	24.8	26.8	28.8	30.8	32.8	34.8	36.8	38.9
102	3.4	5.4	7.3	9.3	11.3	13.3	15.3	17.2	19.2	20.5	22.5	24.5	26.5	30.8	30.4	32.4	34.4	36.4	38.3
108	3.6	5.7	7.8	10	12.1	14.2	16.3	18.4	20.5	21.9	24.1	26.2	28.3	30.4	32.5	34.6	36.7	38.9	41.0
114	3.8	6.1	8.3	10.6	12.8	15.1	17.3	19.6	21.8	23.3	25.6	27.8	30.1	32.3	34.6	36.8	39.1	41.3	43.6
120	4.1	6.5	8.8	11.2	13.6	16	18.4	20.8	23.2	24.8	27.1	29.5	31.9	34.3	36.7	39.1	41.5	43.8	46.2

Water Penetration

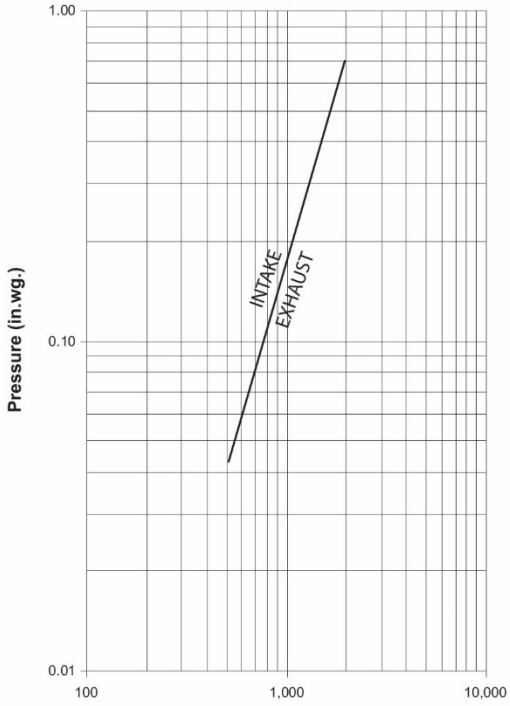
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15-minute period.

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 = 1,050 fpm



Pressure Loss



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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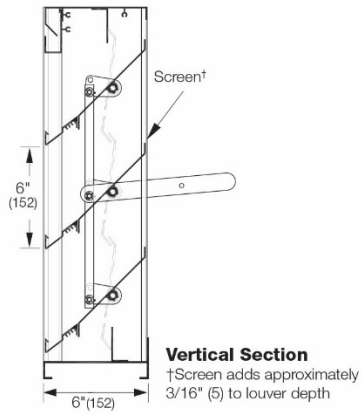
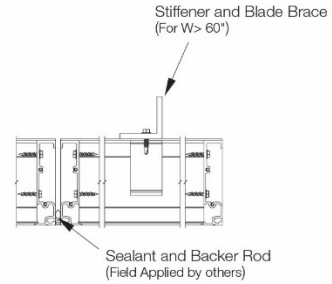
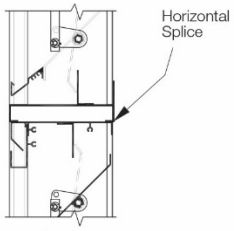
LVR-EAC-6 Attributes



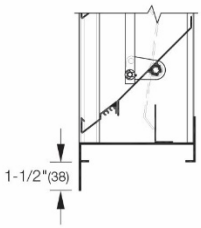
Vertical Section
†Screen adds approximately
3/16" (5) to louver depth



Visible Vertical Mullion
(standard)

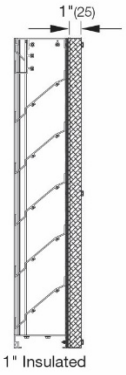


Horizontal Mullion
(standard)

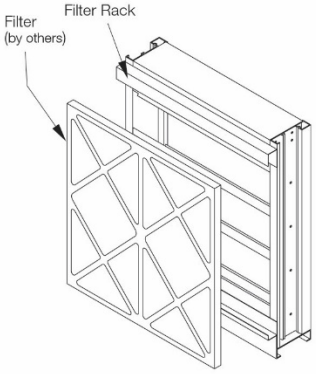


Flange Frame
(optional)

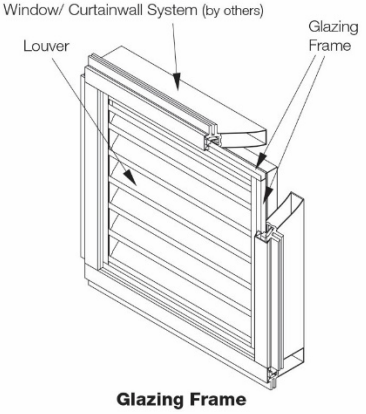
LVR-EAC-6 Supplemental Options



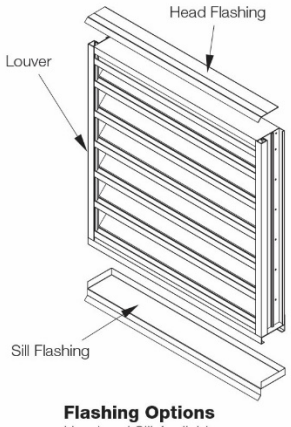
Blank-Off Options
Non-Insulated and Gasketed
1" Insulated (4.4 R-value) As Shown
2" Insulated (8.7 R-value)



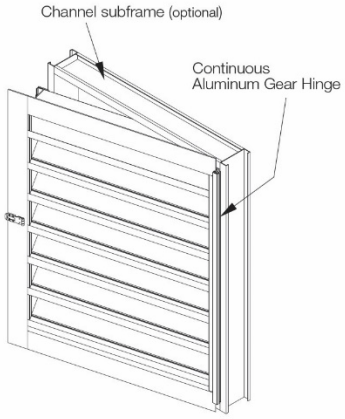
Filter Rack



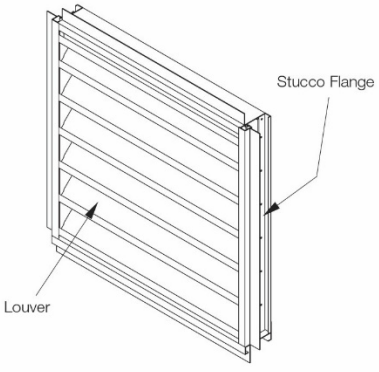
Glazing Frame



Flashing Options
Head and Sill Available



Hinge and Subframe
Right or Left Side Option Available



Stucco Flange
3/4" (19) Standard Stucco Depth