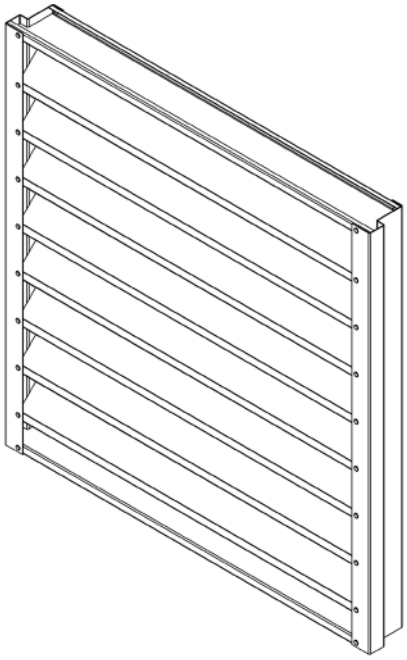
S445-DS Wall Louver
SUBMITTAL

Moffitt Ventilation Solutions



Project Number: _____

Project Name: _____

Customer: _____

Date: _____

Standard Features

- Frame depth: 4 in.
- Blade angle: 45°, Stationary
- Blade profile: Drainable
- **Materials:**
  - Steel: 18 ga. frames and 20 ga. blades, G-90 galvanized.
  - Stainless Steel: 18 ga. frames and 20 gauge blades 304 grade (316 grade optional).
- Mounting clips and fasteners to attach clip to louver are included, shipped loose.
- Mullion covers.

Optional Features

Construction
- ☐ Welded construction
- ☐ Heavy-gauge versions available upon request

Frame Options
- ☐ 1.5-in. flanged frame
- ☐ Hinged frame
- ☐ Subframe

Finish Options
- ☐ Liquid polyurethane-based finish coating (gray standard)
- ☐ High-performance fluoropolymer coating
- ☐ Super-durable polyester powder coating
- ☐ Baked enamel powder coating

Screen Options
- ☐ 0.5-in. mesh fitted to interior (standard) or exterior
- ☐ Insect screen fitted to interior (standard) or exterior

Additional Options
- ☐ Blank-off panels: insulated or uninsulated
- ☐ 1 or 2-in. filter racks
- ☐ Welded burglar bars
- ☐ Visible mullion cover with matching material or finish

Installation Hardware and Materials
- ☐ Custom mounting clip angles
- ☐ Custom mounting continuous angles
- ☐ Head/jamb/sill flashing
- ☐ Support steel structures available upon request

TAG	QTY	WIDTH	DEPTH	HEIGHT

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PERFORMANCE

Moffitt Ventilation Solutions

Free Area Chart (ft^2)

Height (in.) \ Width (in.)	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
48	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
54	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
60	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
66	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
72	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
78	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
84	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
90	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
96	3.8	6.1	8.3	10.6	12.9	15.1	17.4	19.7	21.9	24.2	26.5	28.7	31.0	33.3	35.5

Ratings

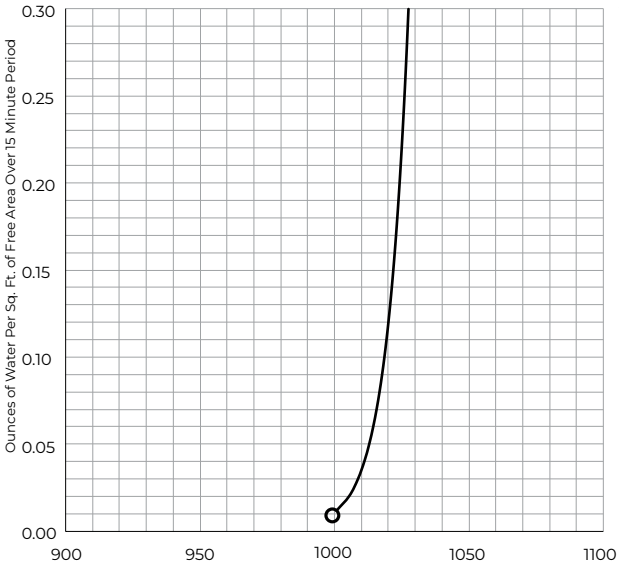
- Free Area: 8.5 ft^2, 53.1%, at 48 in. × 48 in. tested model size

Performance*

- Free Area Velocity: 715 FPM
  - Air Volume: 6,092 CFM
  - Pressure Loss: 0.11 in. w.g.
- Velocity @ 0.15 in. w.g. Pressure Loss: 850 FPM
- Design Load: 30 PSF

*Performance Rated at Beginning Point of Water Penetration

Water Penetration

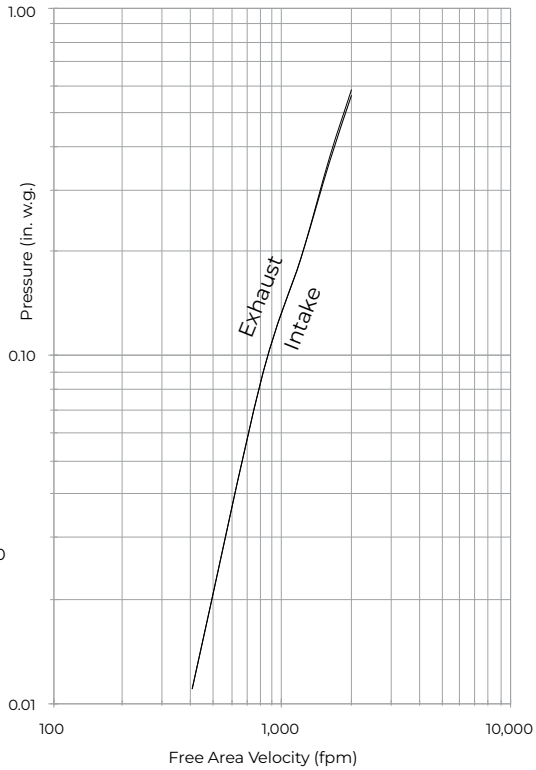


Water penetration is measured as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area. It is measured through a 48 in. × 48 in. louver over 15-minutes.

Intake louvers should be selected with a reasonable margin of safety below the beginning point of water penetration to avoid unwanted entry during severe storm conditions.

Beginning Point of Water Penetration = 715 fpm

Pressure Loss



Pressure drop is the difference in total pressure between two points of a fluid carrying network.

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S445-DS Wall Louver
ATTRIBUTES

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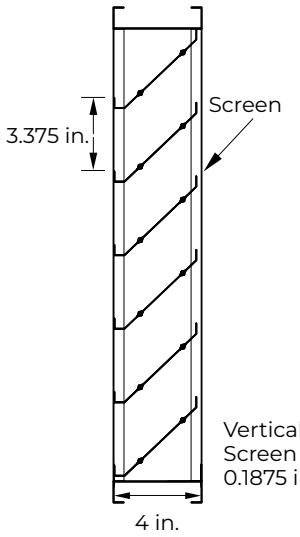
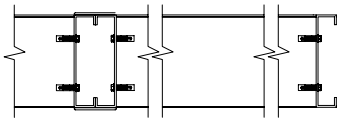
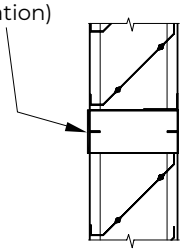


Vertical Section
Screen adds approximately
0.1875 in. to louver depth.

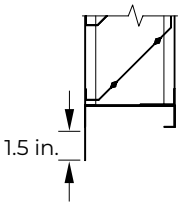


Visible Vertical Mullion
(standard)

Mullion Cover
(Supplied loose for
field installation)

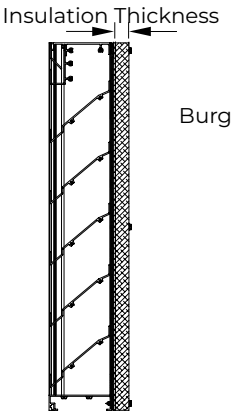


Horizontal Mullion
(standard)

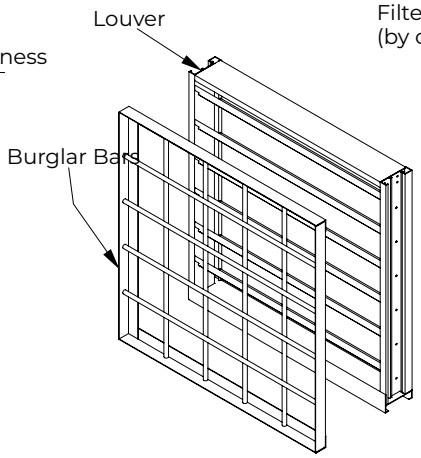


Flange Frame
(optional)

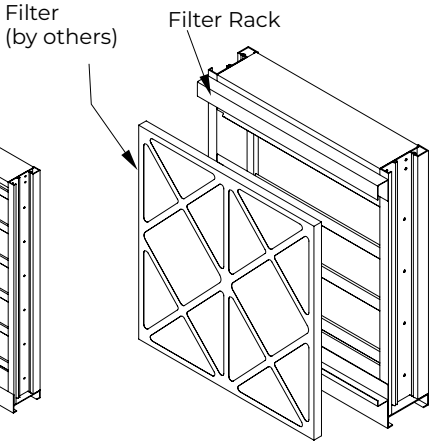
Additional Options



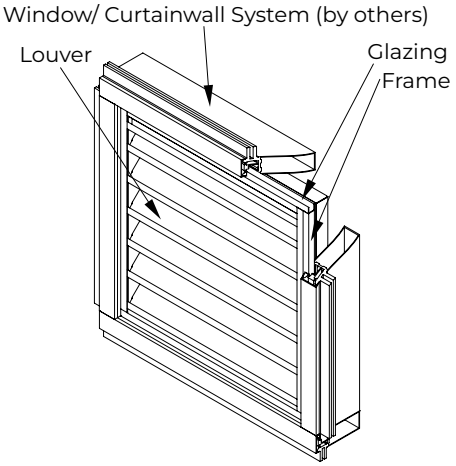
Blank-Off Options
Non-Insulated and Gasketed
1 in. Insulated (4.25 R-value)
2 in. Insulated (8.75 R-value)



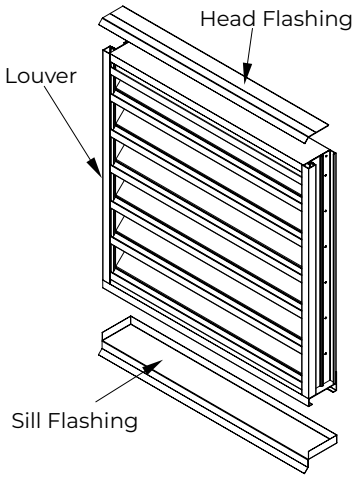
Burglar Bars Shipped
Loose or Mounted



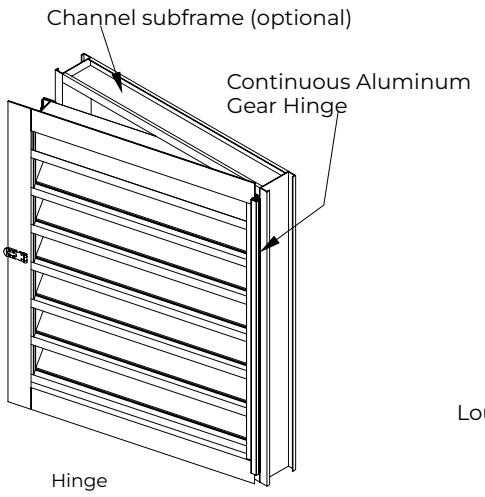
Filter Rack



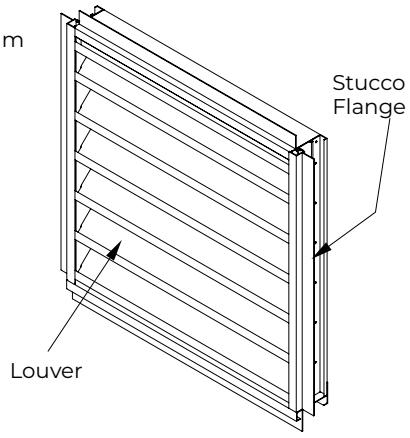
Glazing Frame



Flashing Options Head
and Sill Available



Hinge and Subframe
Right or Left Side Option Available



Stucco Flange 0.75 in.
Standard Stucco Depth

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