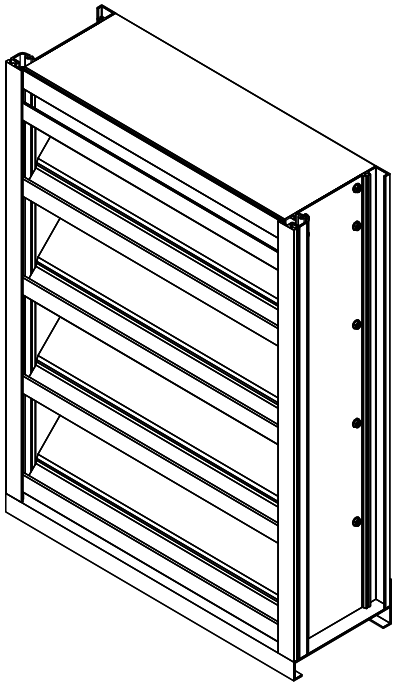
S645-DE Wall Louver
SUBMITTAL

Moffitt Ventilation Solutions



Project Number: _____

Project Name: _____

Customer: _____

Date: _____

Standard Features

- Frame depth: 6-in.
- Blade angle: 35°, Stationary
- Blade profile: Drainable
- Material: Extruded aluminum: 0.081-in., mill finish, 6063-T5
- Mounting clips and fasteners to attach clip to louver are included, shipped loose
- Mullion covers

Optional Features

Construction
- ☐ Welded 6063-T5 extruded aluminum

Frame Options
- ☐ 1.5-in. flanged frame
- ☐ Stucco flange
- ☐ Glazing frame
- ☐ Frame closure
- ☐ Hinged frame
- ☐ Subframe

Finish options
- ☐ Polyester powder
- ☐ Baked enamel

Screen options
- ☐ Bird screens
- ☐ Insect screens

Additional options
- ☐ Blank-off panels: insulated or uninsulated
- ☐ Filter racks
- ☐ Burglar bars
- ☐ Factory-mounted electric or pneumatic actuator
- ☐ Low-leakage seals

Installation hardware and materials
- ☐ Clip angles
- ☐ Continuous angles
- ☐ Head/jamb/sill flashing

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	102	108	114	120
12	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	1.9	2.1	2.3	2.4	2.6	2.8	2.9	3.1	3.3
18	0.5	0.8	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.4	3.7	4.0	4.3	4.6	4.9	5.3	5.6	5.9	6.2
24	0.8	1.2	1.7	2.2	2.6	3.1	3.6	4.0	4.5	4.9	5.4	5.9	6.3	6.8	7.3	7.7	8.2	8.7	9.1
30	1.0	1.6	2.2	2.9	3.5	4.1	4.7	5.3	5.9	6.5	7.1	7.7	8.4	9.0	9.6	10.2	10.8	11.4	12.0
36	1.3	2.0	2.8	3.5	4.3	5.1	5.8	6.6	7.3	8.1	8.9	9.6	10.4	11.1	11.9	12.7	13.4	14.2	14.9
42	1.5	2.4	3.3	4.2	5.1	6.1	7.0	7.9	8.8	9.7	10.6	11.5	12.4	13.3	14.2	15.1	16.0	17.0	17.9
48	1.8	2.8	3.9	4.9	6.0	7.0	8.1	9.2	10.2	11.3	12.3	13.4	14.4	15.5	16.6	17.6	18.7	19.7	20.8
54	2.0	3.2	4.4	5.6	6.8	8.0	9.2	10.4	11.6	12.9	14.1	15.3	16.5	17.7	18.9	20.1	21.3	22.5	23.7
60	2.3	3.6	5.0	6.3	7.7	9.0	10.4	11.7	13.1	14.4	15.8	17.1	18.5	19.8	21.2	22.6	23.9	25.3	26.6
66	2.5	4.0	5.5	7.0	8.5	10.0	11.5	13.0	14.5	16.0	17.5	19.0	20.5	22.0	23.5	25.0	26.5	28.0	29.5
72	2.7	4.4	6.0	7.7	9.3	11.0	12.6	14.3	15.9	17.6	19.2	20.9	22.5	24.2	25.8	27.5	29.1	30.8	32.4
78	3.0	4.8	6.6	8.4	10.2	12.0	13.8	15.6	17.4	19.2	21.0	22.8	24.6	26.4	28.2	30.0	31.8	33.6	35.4
84	3.2	5.2	7.1	9.1	11.0	13.0	14.9	16.9	18.8	20.8	22.7	24.7	26.6	28.5	30.5	32.4	34.4	36.3	38.3
90	3.5	5.6	7.7	9.8	11.9	14.0	16.1	18.2	20.2	22.3	24.4	26.5	28.6	30.7	32.8	34.9	37.0	39.1	41.2
96	3.7	6.0	8.2	10.5	12.7	15.0	17.2	19.4	21.7	23.9	26.2	28.4	30.7	32.9	35.1	37.4	39.6	41.9	44.1
102	4.0	6.4	8.8	11.2	13.6	15.9	18.3	20.7	23.1	25.5	27.9	30.3	32.7	35.1	37.5	39.9	42.2	44.6	47.0
108	4.2	6.8	9.3	11.9	14.4	16.9	19.5	22.0	24.5	27.1	29.6	32.2	34.7	37.2	39.8	42.3	44.9	47.4	49.9
114	4.5	7.2	9.9	12.5	15.2	17.9	20.6	23.3	26.0	28.7	31.4	34.0	36.7	39.4	42.1	44.8	47.5	50.2	52.9
120	4.7	7.6	10.4	13.2	16.1	18.9	21.7	24.6	27.4	30.3	33.1	35.9	38.8	41.6	44.4	47.3	50.1	52.9	55.8

Ratings

- Free Area: 8.1 ft^2, 50.6%, at 48 in. × 48 in. tested model size

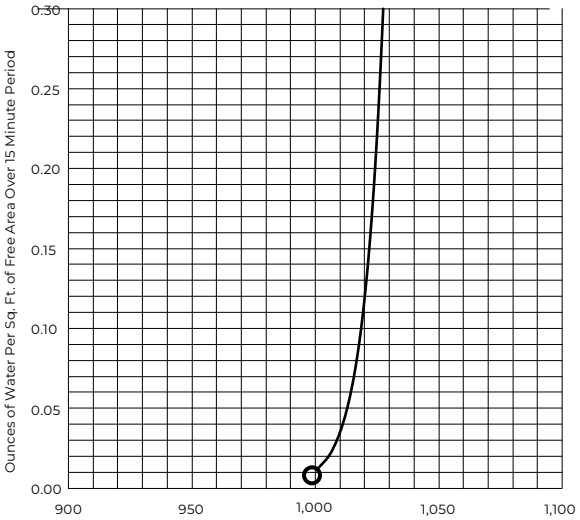
Performance*

- Free Area Velocity: 1,000 FPM
- Air Volume: 8,101 CFM
- Pressure Loss: 0.13 in. w.g.

- Velocity @ 0.15 in. w.g. Pressure Loss: 1,068 FPM
- Design Load: 30 PSF

*Performance Rated at Beginning Point of Water Penetration

Water Penetration

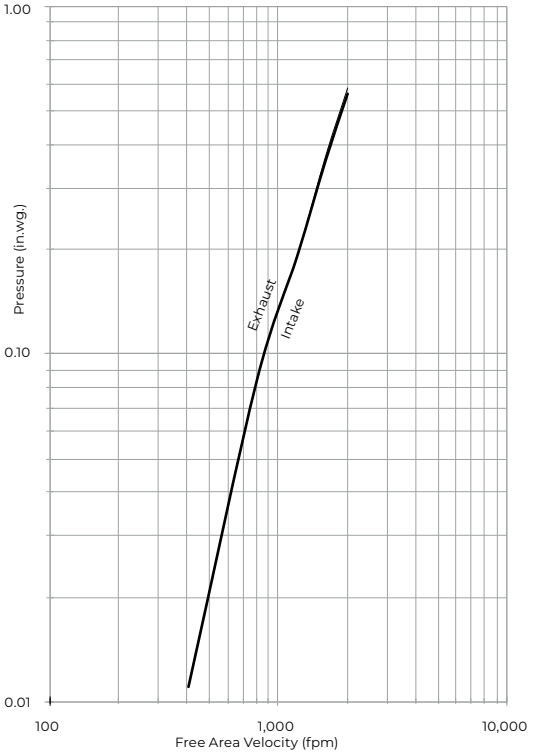


Water penetration is measured as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area. It is measured through a 48 in. × 48 in. louver over 15-minutes.

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 = 1,009 fpm

Pressure Loss



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

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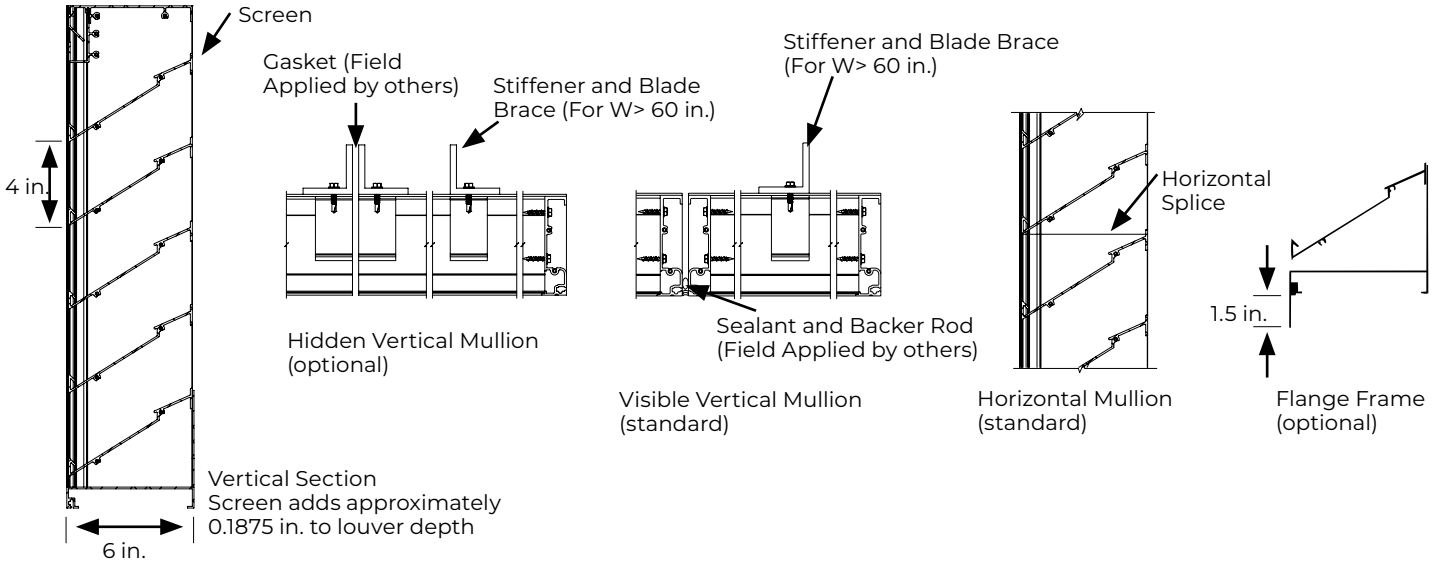
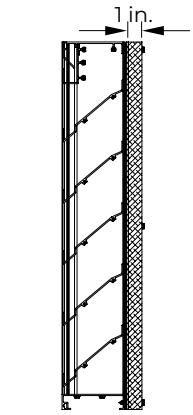
S645-DE Wall Louver
ATTRIBUTES

Moffitt Ventilation Solutions

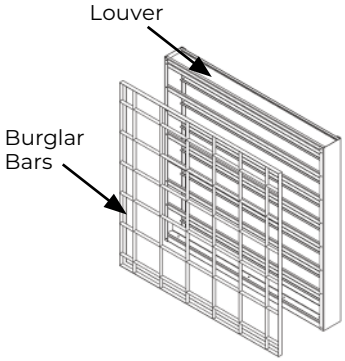


Additional Options

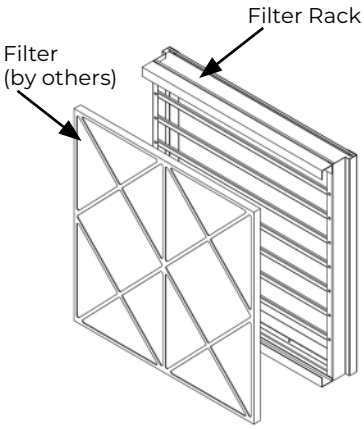


1 in. Insulated

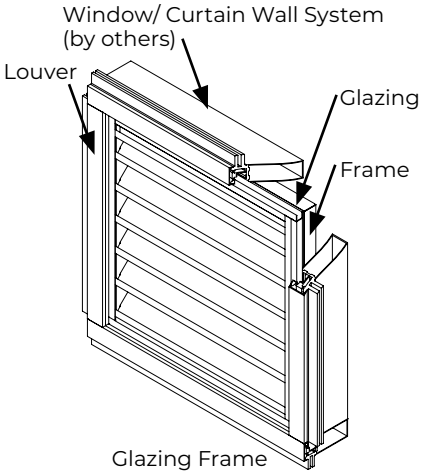
Blank-Off Options
Non-Insulated and Gasketed
1 in. Insulated (4.4 R-value)
2 in. Insulated (8.7 R-value)



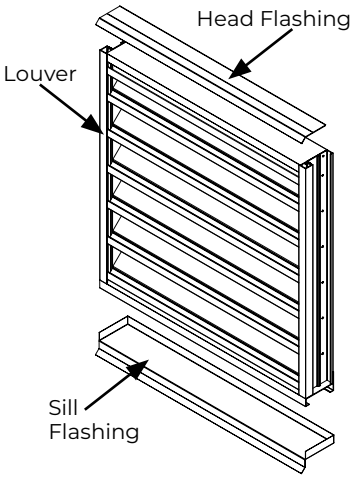
Burglar Bars Shipped Loose or Mounted



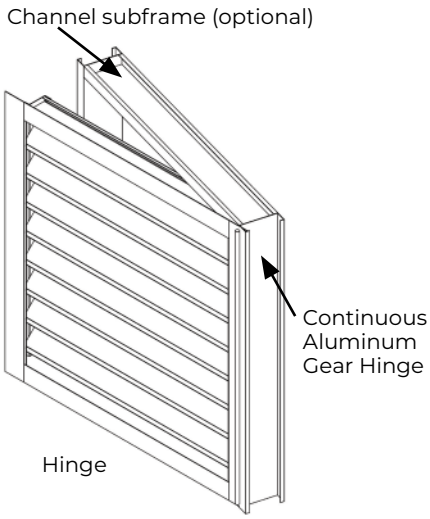
Filter Rack



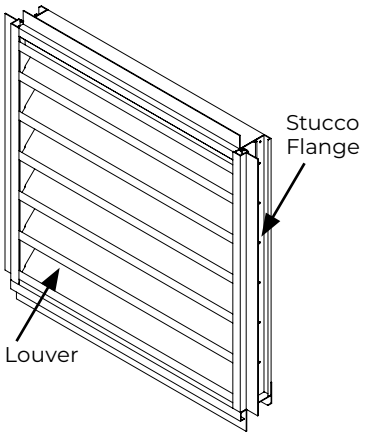
Glazing Frame



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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