

645FB

Stationary Louver

Roll Formed Steel

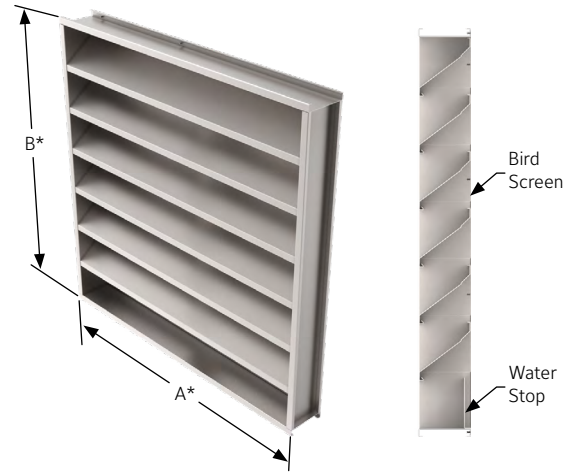
RELIABLE

APPLICATION

The 645FB is a 6" deep stationary steel louver with low pressure drop and water penetration. It has drain gutters in each blade and downspouts in jambs and mullions to drain water from the louver minimizing water cascade from blade to blade. Architecturally styled hidden mullions allowing continuous line appearance up to 120".

STANDARD CONSTRUCTION

Frame	6" (152) deep, 20 (1.4) gage galvanized steel.
Blades	20 gage (1.4) galvanized steel, J-style blades (formerly "weatherproof") are positioned at 45° angle and spaced approximately 6 11/16" (170) center to center.
Screen	1/2" (13) mesh 19 gage (1.1) galvanized screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
Finish	Mill.
Minimum Size	12" wide x 12" high (305 x 305).
Maximum Factory Assembly Size	64 sq. ft. (6m²). Sections must fit into standard enclosed trailer 90" high x 240" deep (2286 x 6096).



ISO9001
CERTIFIED

FEATURES

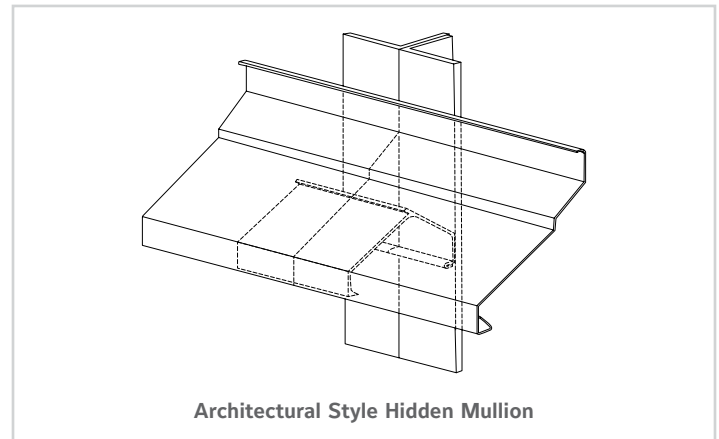
- Architecturally styled hidden mullions for attractive appearance
- Economical galvanized steel construction

VARIATIONS

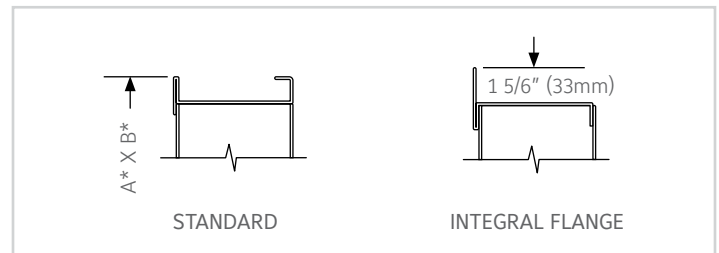
Variations to the basic design of this louver are available at additional cost. They include:

- Extended sill
- Hinged frame
- Front or rear security bars
- Filter racks
- A variety of bird and insect screens
- Optional finishes available at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearledize, 70% PVDF, Clear and Anodized finishes. (Some variation in anodize color consistency is possible)
- Heavier, 18 gage (1.2) and 16 gage (1.5) construction

Consult Reliable for other special requirements.



FRAME CONSTRUCTION



Note:

- Dimensions in inches, parenthesis () indicate millimeters.
- Units can be furnished actual size or with size deducts.

PERFORMANCE DATA

AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

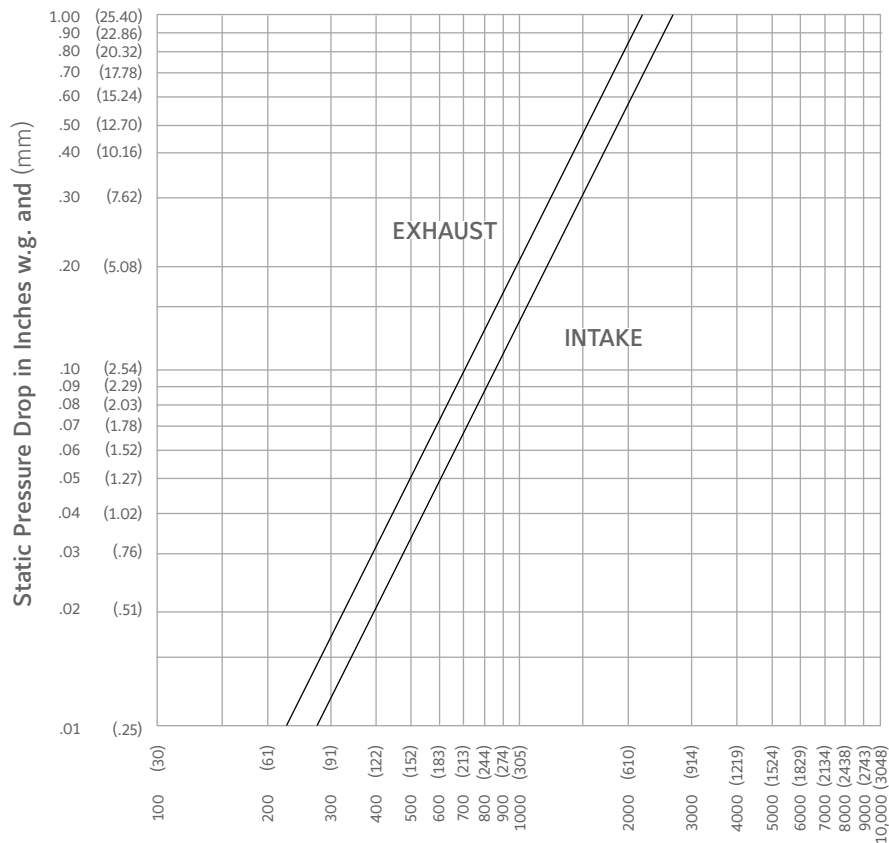
Designs should provide a reasonable safety factor for louver performance by selecting at some point below pressure drop or water penetration system requirements.

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of 645FB.

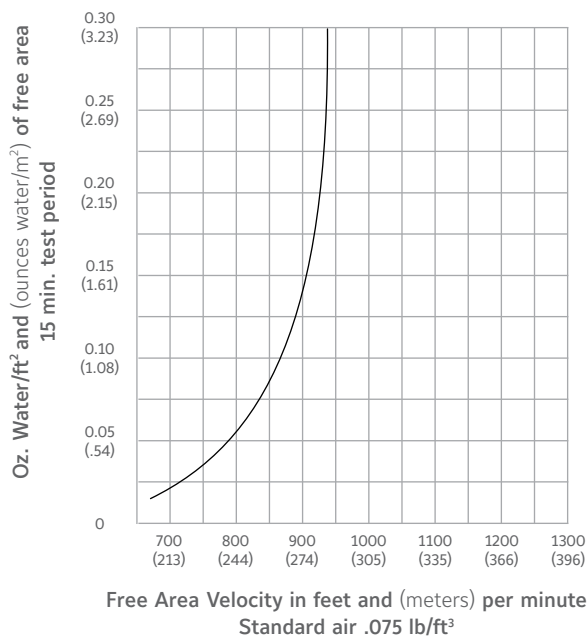
	Width – Inches and Meters																
Height – Inches and Meters		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	
		0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.96	2.13	2.29	2.44	
	12	0.30	0.15	0.27	0.40	0.53	0.66	0.79	0.91	1.04	1.17	1.30	1.43	1.56	1.68	1.81	1.94
		0.30	0.04	0.10	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.51	0.55	0.59
	18	0.46	0.30	0.57	0.83	1.09	1.36	1.62	1.89	2.15	2.42	2.68	2.94	3.21	3.47	3.74	4.00
		0.46	0.09	0.17	0.25	0.33	0.41	0.49	0.58	0.66	0.74	0.82	0.90	0.98	1.06	1.14	1.22
	24	0.61	0.46	0.86	1.26	1.66	2.06	2.46	2.86	3.26	3.66	4.06	4.46	4.86	5.26	5.66	6.06
		0.61	0.14	0.22	0.38	0.51	0.63	0.75	0.87	0.99	1.12	1.24	1.36	1.48	1.60	1.73	1.85
	30	0.76	0.61	1.15	1.69	2.22	2.76	3.30	3.83	4.37	4.90	5.44	5.98	6.51	7.05	7.58	8.12
		0.76	0.19	0.35	0.51	0.68	0.84	1.00	1.17	1.33	1.49	1.66	1.82	1.98	2.15	2.31	2.48
	36	0.91	0.77	1.44	2.11	2.79	3.46	4.13	4.80	5.48	6.15	6.82	7.49	8.16	8.84	9.51	10.18
		0.91	0.23	0.44	0.64	0.85	1.05	1.26	1.46	1.67	1.87	2.08	2.28	2.49	2.69	2.90	3.10
	42	1.07	0.93	1.73	2.54	3.35	4.16	4.97	5.78	6.58	7.39	8.20	9.01	9.82	10.63	11.43	12.24
		1.07	0.28	0.53	0.78	1.02	1.27	1.51	1.76	2.01	2.25	2.50	2.75	2.99	3.24	3.48	3.73
	48	1.22	1.08	2.03	2.97	3.91	4.86	5.80	6.75	7.69	8.64	9.58	10.52	11.47	12.41	13.36	14.30
		1.22	0.33	0.62	0.91	1.19	1.48	1.77	2.06	2.34	2.63	2.92	3.21	3.50	3.78	4.07	4.36
54	1.37	1.24	2.32	3.40	4.48	5.56	6.64	7.72	8.80	9.88	10.96	12.04	13.12	14.20	15.28	16.36	
	1.37	0.38	0.71	1.04	1.37	1.69	2.02	2.35	2.68	3.01	3.34	3.67	4.00	4.33	4.66	4.99	
60	1.52	1.39	2.61	3.83	5.04	6.26	7.48	8.69	9.91	11.12	12.34	13.56	14.77	15.99	17.21	18.42	
	1.52	0.42	0.80	1.17	1.54	1.91	2.28	2.65	3.02	3.39	3.76	4.13	4.50	4.87	5.24	5.61	
66	1.68	1.55	2.90	4.25	5.61	6.96	8.31	9.66	11.02	12.37	13.72	15.07	16.43	17.78	19.13	20.48	
	1.68	0.47	0.88	1.30	1.71	2.12	2.53	2.95	3.36	3.77	4.18	4.59	5.01	5.42	5.83	6.24	
72	1.83	1.84	3.44	5.05	6.64	8.25	9.85	11.45	13.05	14.66	16.26	17.86	19.46	21.06	22.67	24.27	
	1.83	0.56	1.05	1.54	2.02	2.51	3.00	3.49	3.98	4.47	4.96	5.44	5.93	6.42	6.91	7.40	
78	1.96	1.99	3.73	5.47	7.21	8.95	10.68	12.42	14.16	15.90	17.64	19.38	21.12	22.85	24.59	26.33	
	1.96	0.61	1.14	1.68	2.20	2.73	3.26	3.79	4.32	4.85	5.38	5.91	6.44	6.96	7.50	8.03	
84	2.13	2.15	4.02	5.90	7.77	9.65	11.52	13.39	15.27	17.14	19.02	20.89	22.77	24.64	26.52	28.39	
	2.13	0.66	1.23	1.80	2.37	2.94	3.51	4.08	4.65	5.22	5.80	6.37	6.94	7.51	8.08	8.65	
90	2.29	2.30	4.31	6.32	8.34	10.35	12.36	14.37	16.38	18.39	20.40	22.41	24.42	26.43	28.44	30.45	
	2.29	0.70	1.31	1.93	2.54	3.15	3.77	4.38	4.99	5.61	6.22	6.83	7.44	8.06	8.67	9.28	
96	2.44	2.46	4.61	6.75	8.90	11.05	13.19	15.34	17.39	19.63	21.78	23.93	26.07	28.22	30.37	32.51	
	2.44	0.75	1.40	2.06	2.71	3.37	4.02	4.68	5.33	5.98	6.64	7.29	7.95	8.60	9.26	9.91	

PRESSURE DROP

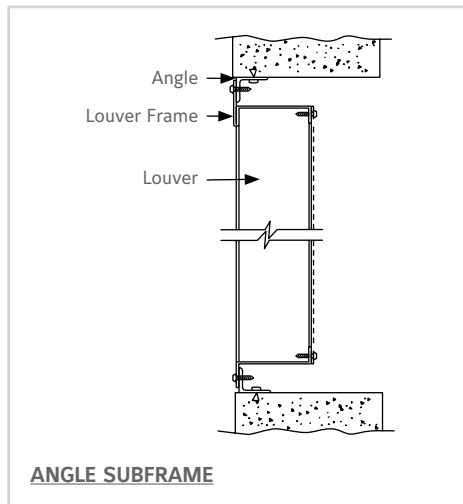
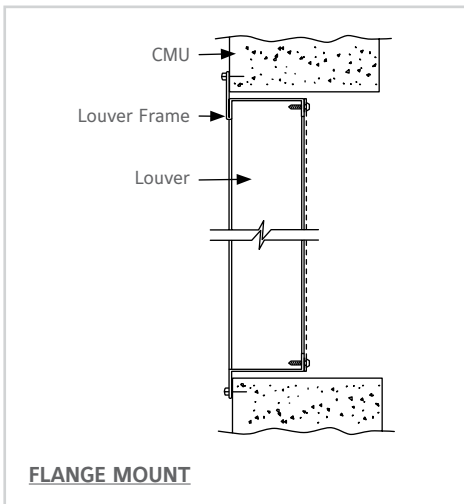
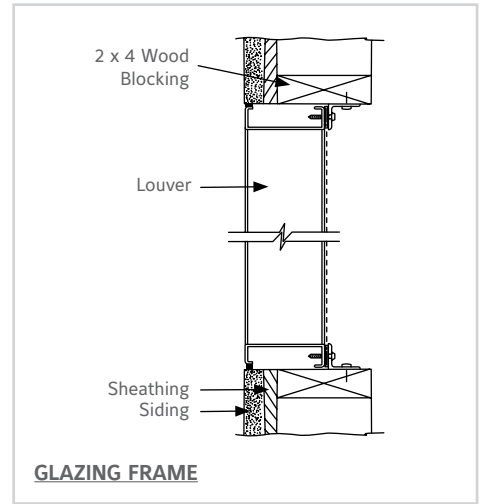
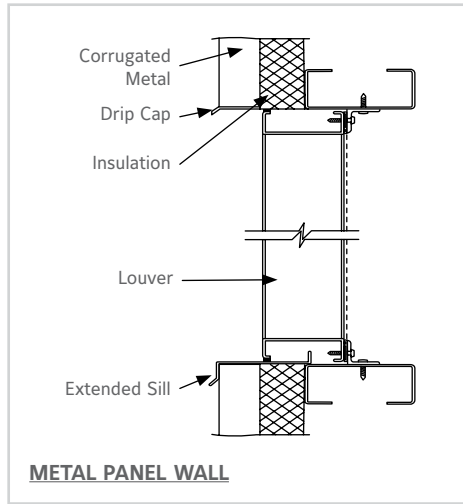
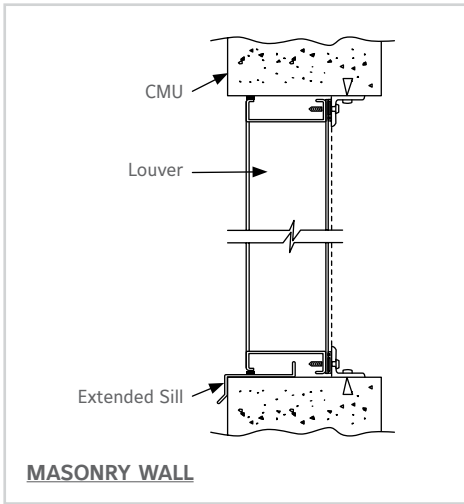


WATER PENETRATION GRAPH

Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft. is
668 fpm (204 m/min).



TYPICAL INSTALLATION DETAILS



Accessories at additional cost.

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary type entirely contained within a 6" (152) frame. Louver components (heads, jambs, sills, blades & mullions) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate structural supports required to withstand a wind load of 30 lbs. per sq. ft. (1.44kPa) equivalent of a 110 mph (177 kph) wind - specifier may substitute any loading required).

Louvers shall be Reliable Model 645FB construction as follows:

- Frame: 20 gage (.9) galvanized steel channel.
- Blades: 20 gage (.9) galvanized steel at 45° angle on 61 1/16" (170) centers.
- Screen: 1/2" mesh x 19 gage (13 x 1.1) galvanized steel in removable frame.
- Finish: Select finish specification from Reliable Finishes Brochure.

LINKS TO IMPORTANT DOCUMENTS

Document Title
Finishes and Color Guide
Limited Warranty Document

RELIABLE

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