

645RB

Stationary Louver

Extruded Aluminum

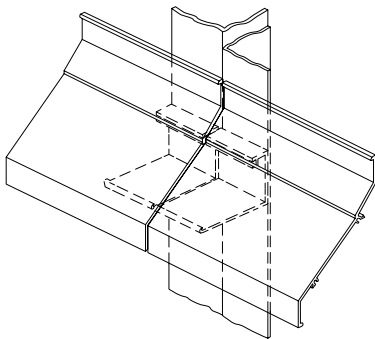
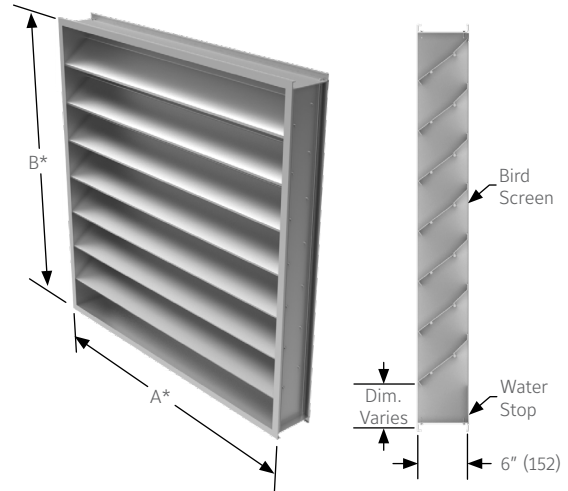
RELIABLE

APPLICATION

The 645RB is a 6" deep, extruded aluminum, architecturally styled, stationary louver with a hidden mullion option which allows for a continuous appearance. This louver is designed to protect air intake and exhaust openings on exterior walls.

STANDARD CONSTRUCTION

Frame	6" (152) deep, 6063T6 extruded aluminum with .125" (3.2) nominal wall thickness. Caulking surfaces provided.
Blades	6063T5 extruded aluminum with .090" (2.3) nominal wall thickness. J-style blades (formerly "weatherproof") are positioned at 45° angle and spaced approximately 6" (152) center to center.
Screen	3/4" x .051" (19 x 1.3) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
Finish	Mill.
Minimum Size	12"w x 12"h (305 x 305).
Maximum Factory Assembly Size	Shall be 64 sq. ft. (6m ²) per section, not to exceed 120" wide and 90" high (3048 and 2286) or 90" wide and 120" high (2286 and 3048). Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.



Hidden Mullion Detail

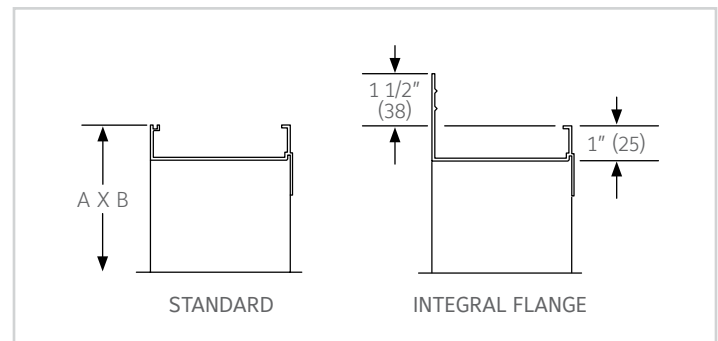
VARIATIONS

Variations to the basic design of the 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 at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearledize 50 and 70, 70% PVDF, Clear and Color Anodized finishes. (Some variation in anodize color consistency is possible)

Consult Reliable for other special requirements.

FRAME CONSTRUCTION



FEATURES

- Hidden mullions for attractive appearance
- All aluminum construction for low maintenance and high resistance to corrosion
- Low pressure drop with high free area

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

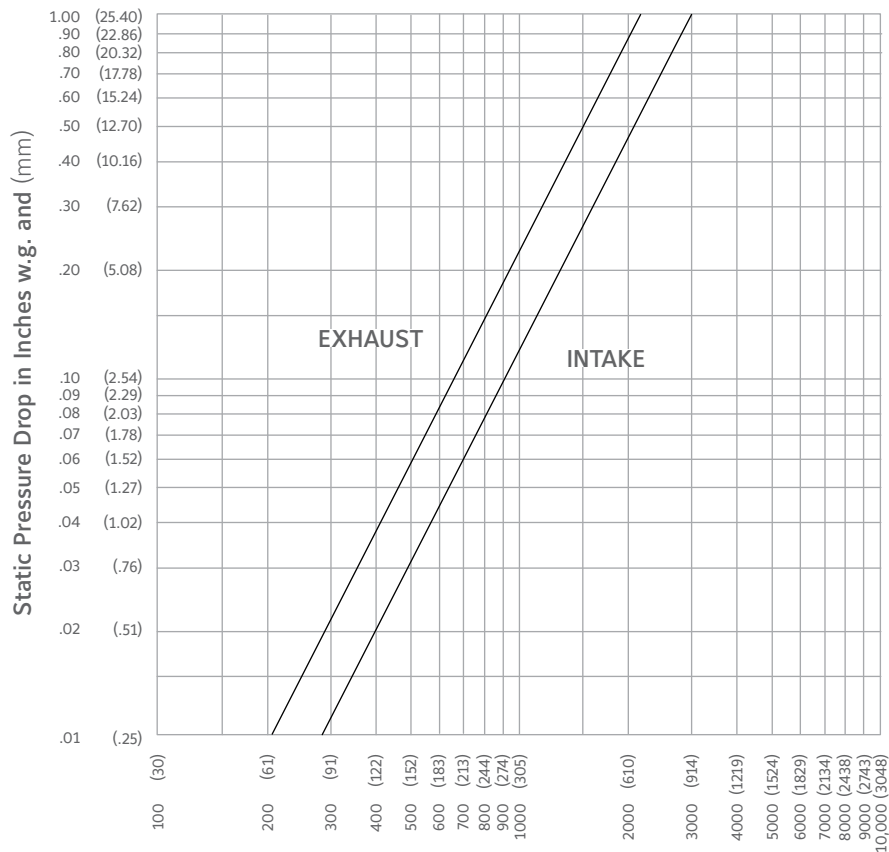
The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

FREE AREA GUIDE

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

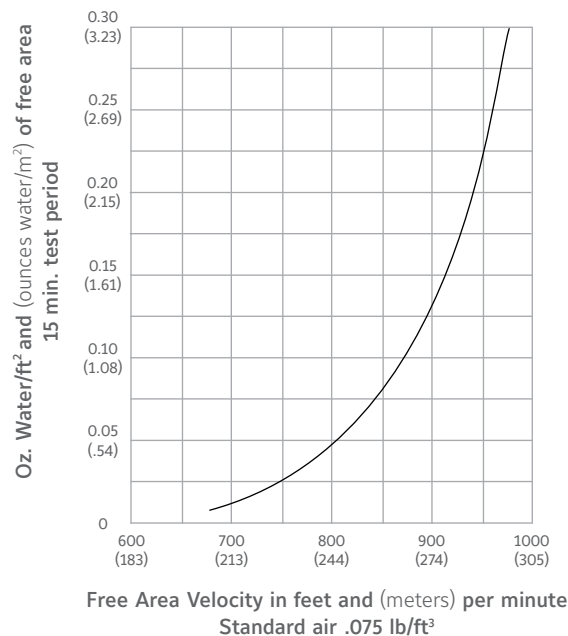
	Width – Inches and Meters															
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Height – Inches and Meters	12	0.13	0.21	0.29	0.37	0.45	0.53	0.61	0.69	0.76	0.84	0.92	1.00	1.08	1.16	1.24
	0.30	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.10	0.11	0.12
	18	0.39	0.63	0.86	1.10	1.33	1.57	1.80	2.04	2.27	2.51	2.74	2.98	3.22	3.45	3.69
	0.46	0.04	0.06	0.08	0.10	0.12	0.14	0.17	0.19	0.21	0.23	0.25	0.27	0.30	0.32	0.34
	24	0.65	0.04	1.44	1.83	2.22	2.61	3.00	3.39	3.78	4.18	4.57	4.96	4.35	5.74	6.13
	0.61	0.06	0.10	0.13	0.17	0.21	0.24	0.28	0.31	0.35	0.39	0.42	0.46	0.50	0.53	0.57
	30	0.91	1.46	2.01	2.56	3.10	3.65	4.20	4.75	5.29	5.84	6.39	6.94	7.48	8.03	8.58
	0.76	0.08	0.13	0.19	0.24	0.29	0.34	0.39	0.44	0.49	0.54	0.59	0.64	0.69	0.74	0.80
	36	1.17	1.88	2.58	3.28	3.99	4.69	5.40	6.10	6.80	7.51	8.21	8.91	9.52	10.32	11.03
	0.91	0.11	0.17	0.24	0.30	0.37	0.43	0.50	0.57	0.63	0.70	0.76	0.83	0.89	0.96	1.02
	42	1.43	2.29	3.15	4.01	4.87	5.73	6.59	7.45	8.31	9.17	10.03	10.89	11.75	12.61	13.47
	1.07	0.13	0.21	0.29	0.37	0.45	0.53	0.61	0.69	0.77	0.85	0.93	1.09	1.09	1.17	1.25
	48	1.69	2.71	3.73	4.74	5.76	6.77	7.79	8.81	9.82	10.84	11.85	12.87	13.89	14.90	15.92
	1.22	0.16	0.25	0.35	0.44	0.53	0.63	0.72	0.82	0.91	1.01	1.10	1.19	1.29	1.38	1.48
	54	1.95	3.13	4.30	5.47	6.64	7.82	8.99	10.16	11.33	12.50	13.68	14.85	16.02	17.19	18.37
	1.37	0.18	0.29	0.40	0.51	0.62	0.73	0.83	0.94	1.05	1.16	1.27	1.38	1.49	1.60	1.71
	60	2.21	3.54	4.87	6.20	7.53	8.86	10.18	11.51	12.84	14.17	15.50	16.83	18.16	19.48	20.81
	1.52	0.20	0.33	0.45	0.57	0.70	0.82	0.94	1.07	1.19	1.32	1.44	1.56	1.69	1.81	1.93
	66	2.47	3.96	5.44	6.93	8.41	9.90	11.38	12.87	14.35	15.84	17.32	18.80	20.29	21.77	23.26
	1.68	0.23	0.37	0.50	0.64	0.78	0.92	1.06	1.19	1.33	1.47	1.61	1.75	1.88	2.02	2.16
	72	2.73	4.38	6.02	7.66	9.30	10.94	12.58	14.22	15.86	17.50	19.14	20.78	22.42	24.06	25.71
	1.83	0.25	0.41	0.56	0.71	0.86	1.02	1.17	1.32	1.47	1.62	1.78	1.93	2.08	2.23	2.39
	78	2.99	4.79	6.59	8.39	10.18	11.98	13.78	15.57	17.37	19.17	20.96	22.76	24.56	26.35	28.15
	1.96	0.28	0.44	0.61	0.78	0.94	1.11	1.28	1.45	1.61	1.78	1.95	2.11	2.28	2.45	2.61
	84	3.26	5.21	7.16	9.11	11.07	13.02	14.97	16.93	18.88	20.93	22.79	24.74	26.69	28.65	30.60
	2.13	0.30	0.48	0.66	0.85	1.03	1.21	1.39	1.57	1.75	1.93	2.12	2.30	2.48	2.66	2.84
	90	3.52	5.62	7.73	9.84	11.95	14.06	16.17	18.28	20.39	22.50	24.61	26.72	28.83	30.94	33.04
	2.29	0.33	0.52	0.72	0.91	1.11	1.31	1.50	1.70	1.89	2.09	2.29	2.48	2.68	2.87	3.07
	96	3.78	6.04	8.31	10.57	12.84	15.10	17.37	19.63	21.90	24.16	26.43	28.70	30.96	33.23	35.49
	2.44	0.35	0.56	0.77	0.98	1.19	1.40	1.61	1.82	2.03	2.24	2.45	2.67	2.88	3.09	3.30

PRESSURE DROP

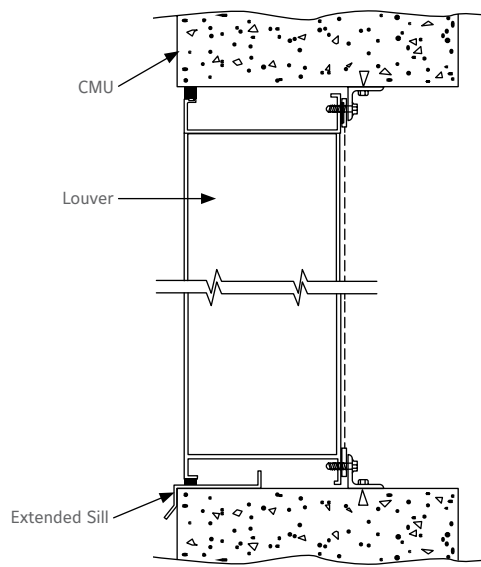


WATER PENETRATION GRAPH

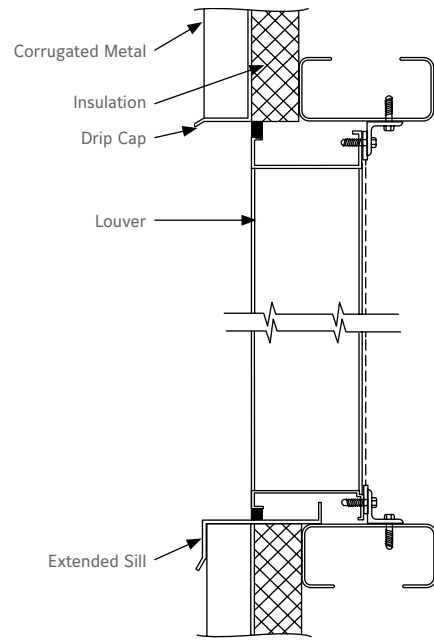
Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft. is
680 fpm (207 m/min).



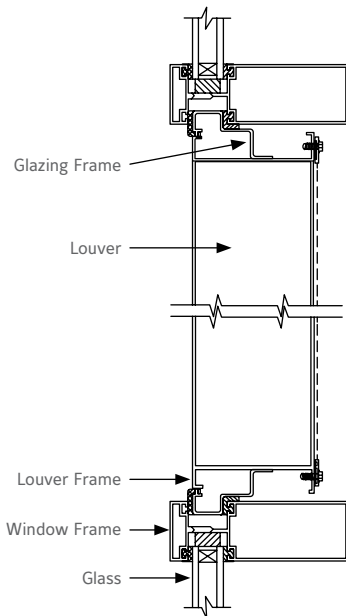
TYPICAL INSTALLATION DETAILS



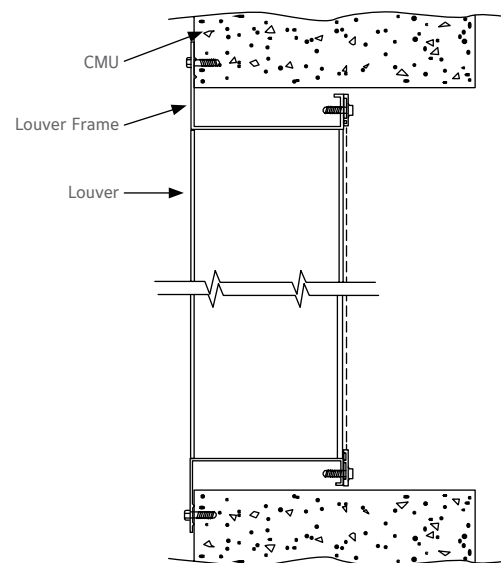
MASONRY WALL



METAL PANEL WALL

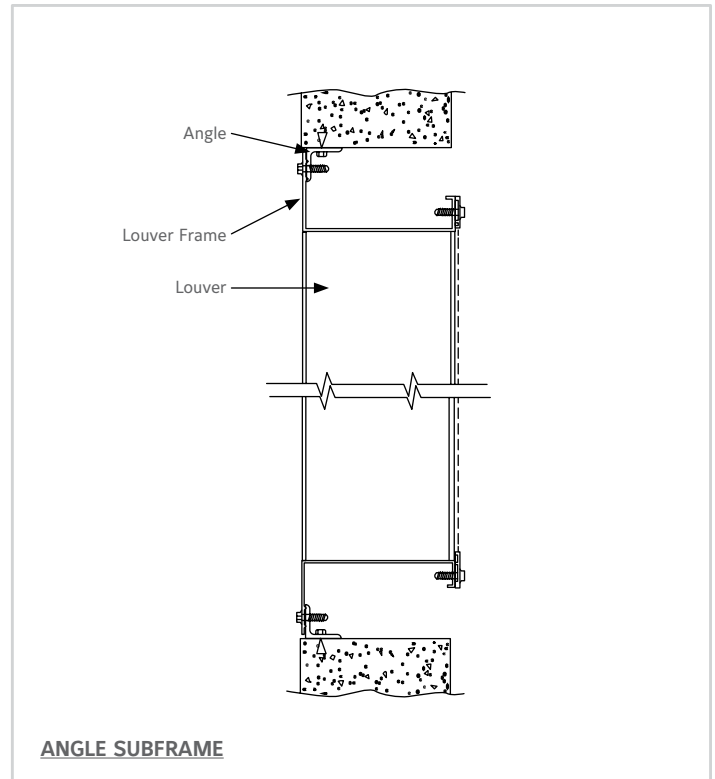
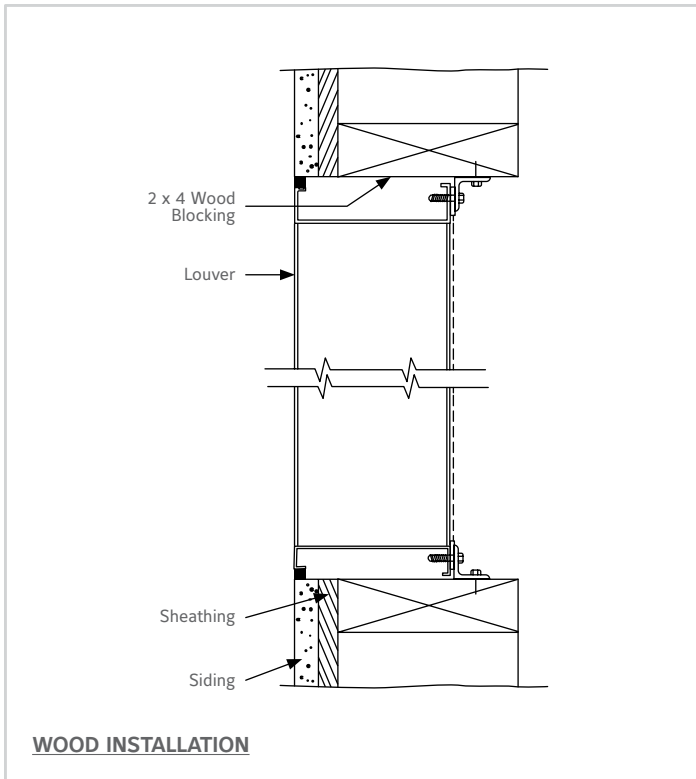


GLAZING FRAME



FLANGE MOUNT

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 psf (1.44 kPa) – equivalent of a 110 mph (177 kph) wind- specifier may substitute any loading required).

Louvers shall be continuous appearing stationary blades – intermediate support mullions shall not interrupt blade appearance when viewed from outside of louver.

Louvers shall be Reliable Model 645RB extruded 6063T6 aluminum alloy construction as follows:

Frame: .125" (3.2) wall thickness.

Blades: .090 (2.3) wall thickness at 45° angle on approximately 6" (152) centers.

Screen: 3/4" x .051" (19 x 1.3) expanded, flattened aluminum 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

1300 Enterprise Road, P.O. Box
580, Geneva, Alabama 36340
Tel: 334-684-3621
Tel: 800-624-3914
Fax: 800-508-1469