

445RBABL/445RBABL125/645RBABL

Adjustable Louver
Extruded Aluminum

RELIABLE

APPLICATION

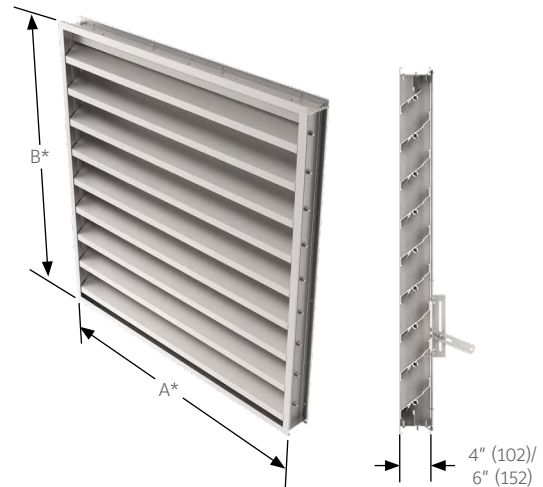
The 445RBABL/445RBABL125 are 4" deep extruded aluminum, operable louver with drainable blades and frame; the 645RBABL is 6" deep. With blades open, these louvers are designed with drainable gutter systems channeling water from the blades to downspouts in the jambs, where water is exhausted out of the front of the louvers. The operable function allows these louvers to be operated closed when the occupant requires a tight air shut off to protect air intake and exhaust openings in building exterior walls.

STANDARD CONSTRUCTION

Frame	445RBABL - 4" (102) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. 445RBABL125 - 4" (102) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. 645RBABL - 6" (152) deep, 6063T6 extruded aluminum with .125" (3.2) nominal wall thickness. Caulking surfaces provided.
Blades	6063T6 extruded aluminum. 445RBABL - .081" (2.1) nominal wall thickness. J-style blades are adjustable to 45° angle. 645RBABL - .081" (2.1) nominal wall thickness. J-style blades are adjustable to 70° angle. 445RBABL125 - .125" (3.2) nominal wall thickness. Blade spacing is approximately 4 3/4" (121) 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.
Seals	Extruded Santoprene blade seals. Compressible aluminum jamb seals.
Bearings	Stainless steel sleeve pressed into frame.
Axles	1/2" (13) plated steel hex.
Finish	Mill.
Linkage	Concealed in frame.
Actuator	Locking louver quadrant.
Minimum Size	12"w x 12"h (305 x 305).
Approximate Shipping Weight	445RBABL - 4 lbs. per sq. ft. 645RBABL - 4.5 lbs. per sq. ft.
Maximum Factory Assembly Size	Shall be 60" x 96" (1524 x 2438). Louvers with optional blade and jamb seals shall be 48" x 96" (1219 x 2438). Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.

FEATURES

- Low torque operation and architecturally pleasing appearance with low leakage performance.
- Hexagonal shaped axles assure positive blade alignment and low operating torque.
- Concealed blade linkage is protected from weather exposure and reduces required installation depth.
- Blade and jamb seal options provided tight blade-to-blade and blade-to-frame closure, allowing less than 4 cfm per sq. ft. at 1/2" pressure differential.



VARIATIONS

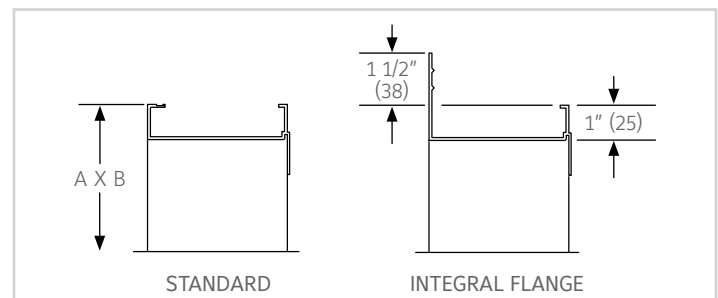
Variations to the basic design of this louver are available at additional cost. They include:

- Extended sill.
- Front or rear security bars.
- A variety of bird and insect screens.
- Filter racks.
- 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).
- Blade edge and jamb seals.
- Manual, electric or pneumatic actuators.

Available with .125" (3.2) construction throughout, refer to as **445RBABL** and **645RBABL**.

Consult Reliable for other special requirements.

FRAME CONSTRUCTION



Note:

- Dimensions in inches, parenthesis () indicate millimeters.
- *Units furnished 1/4" (6) smaller than given opening dimensions.

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of 445RBABL and 445RBABL125.

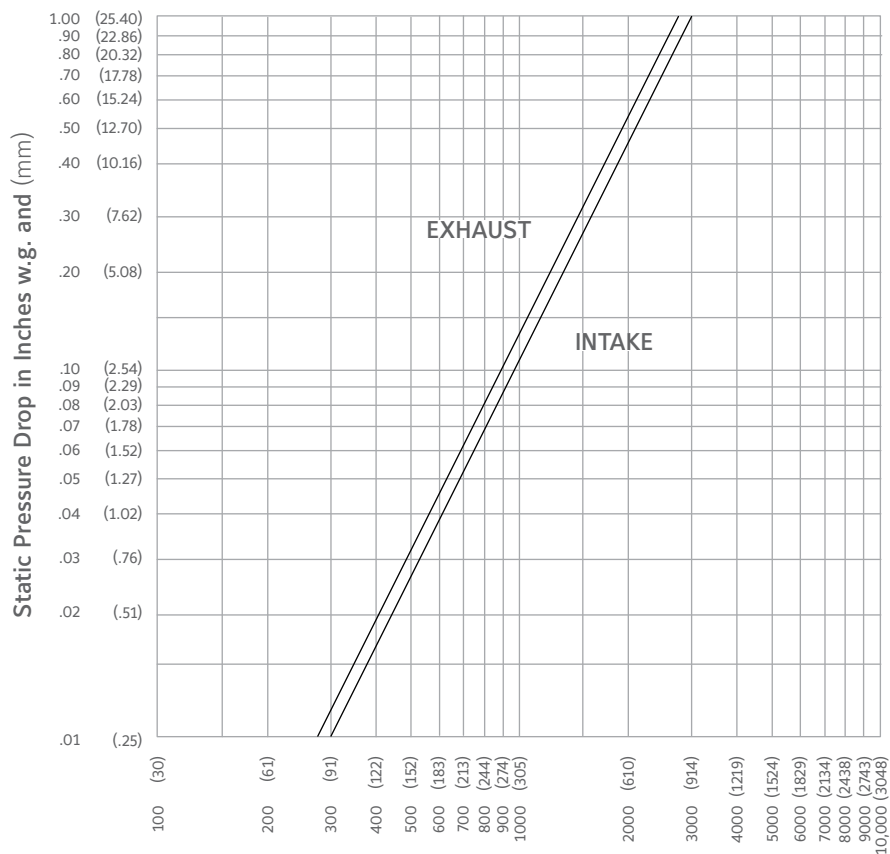
	Width – Inches and Meters															
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Height – Inches and Meters	12	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.96	2.13	2.29	2.44
	12	0.02	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21
	18	0.04	0.06	0.09	0.11	0.13	0.16	0.18	0.21	0.23	0.25	0.28	0.30	0.33	0.35	0.37
	24	0.05	0.08	0.11	0.14	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.39	0.42	0.45	0.49
	30	0.07	0.11	0.16	0.20	0.24	0.29	0.33	0.37	0.42	0.46	0.50	0.55	0.59	0.63	0.68
	36	0.09	0.19	0.19	0.24	0.30	0.35	0.40	0.45	0.51	0.56	0.61	0.66	0.72	0.77	0.82
	42	0.10	0.17	0.23	0.29	0.36	0.42	0.48	0.55	0.61	0.67	0.73	0.80	0.86	0.92	0.99
	48	0.12	0.19	0.27	0.34	0.41	0.49	0.56	0.64	0.71	0.78	0.86	0.93	1.00	1.08	1.15
	54	0.13	0.21	0.29	0.37	0.46	0.54	0.62	0.70	0.78	0.86	0.94	1.02	1.10	1.18	1.26
	60	0.15	0.24	0.34	0.43	0.52	0.62	0.71	0.80	0.90	0.99	1.08	1.17	1.27	1.36	1.45
	66	0.17	0.27	0.37	0.47	0.58	0.68	0.78	0.88	0.99	1.09	1.19	1.29	1.39	1.50	1.60
	72	0.18	0.30	0.41	0.52	0.64	0.75	0.86	0.97	1.09	1.20	1.31	1.43	1.54	1.65	1.76
	78	0.20	0.32	0.45	0.57	0.69	0.82	0.94	1.06	1.19	1.31	1.43	1.56	1.68	1.80	1.93
	84	0.21	0.34	0.47	0.60	0.74	0.87	1.00	1.13	1.26	1.39	1.52	1.65	1.78	1.91	2.04
	90	0.23	0.32	0.53	0.66	0.80	0.95	1.09	1.23	1.37	1.52	1.66	1.80	1.94	2.09	2.23
	96	0.25	0.40	0.55	0.70	0.86	1.01	1.16	1.31	1.46	1.62	1.77	1.92	2.07	2.22	2.38

FREE AREA GUIDE

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

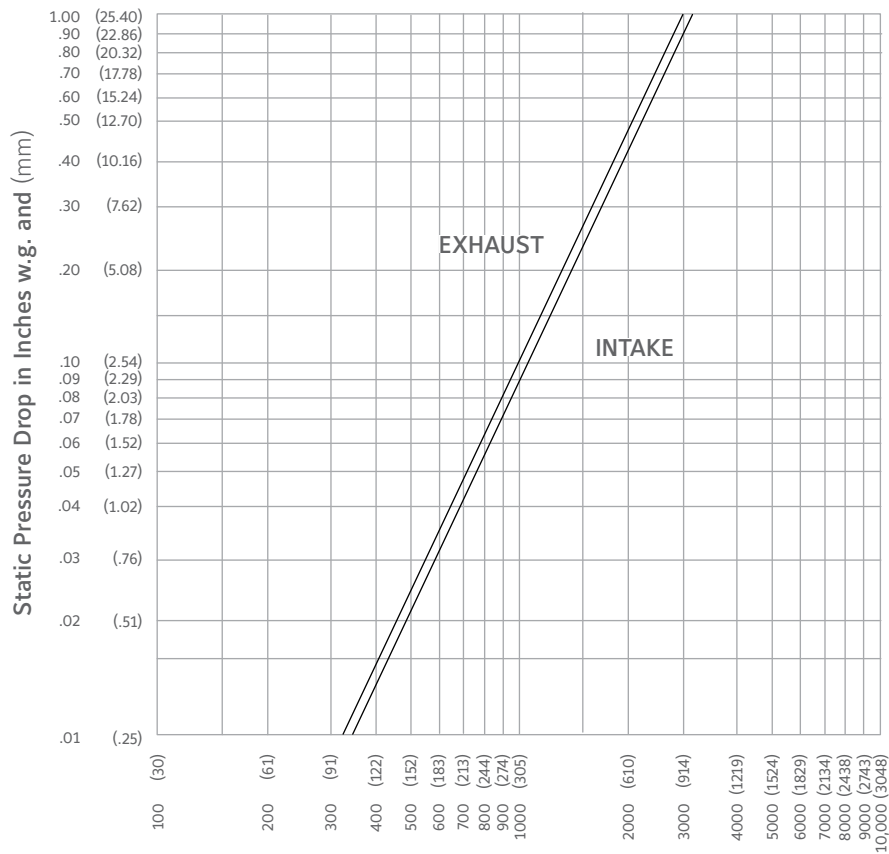
	Width – Inches and Meters															
		12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52	66 1.68	72 1.83	78 1.96	84 2.13	90 2.29	96 2.44
Height – Inches and Meters	12 0.30	0.32 0.03	0.52 0.05	0.72 0.07	0.91 0.08	1.11 0.10	1.31 0.12	1.51 0.14	1.70 0.16	1.90 0.18	2.10 0.19	2.30 0.21	2.49 0.23	2.69 0.25	2.89 0.27	3.08 0.29
	18 0.46	0.59 0.06	0.95 0.09	1.32 0.12	1.68 0.16	2.04 0.19	2.40 0.22	2.77 0.26	3.14 0.29	3.49 0.32	3.85 0.36	4.21 0.39	4.58 0.43	4.94 0.46	5.30 0.49	5.66 0.53
	24 0.61	0.81 0.07	1.30 0.12	1.79 0.17	2.28 0.21	2.77 0.26	3.26 0.30	3.76 0.35	4.25 0.39	4.74 0.44	5.23 0.49	5.72 0.53	6.22 0.58	6.71 0.62	7.20 0.67	7.69 0.71
	30 0.76	1.11 0.10	1.78 0.17	2.46 0.23	3.13 0.29	3.81 0.35	4.48 0.42	5.16 0.48	5.83 0.54	6.51 0.60	7.18 0.67	7.86 0.73	8.53 0.79	9.21 0.86	9.88 0.92	10.56 0.98
	36 0.91	1.36 0.13	2.18 0.20	3.01 0.28	3.84 0.36	4.67 0.43	5.50 0.51	6.33 0.59	7.15 0.66	7.98 0.74	8.81 0.82	9.64 0.90	10.47 0.97	11.30 1.05	12.12 1.13	12.95 1.20
	42 1.07	1.71 0.16	2.76 0.26	3.81 0.35	4.85 0.45	5.90 0.55	6.95 0.65	8.00 0.74	9.04 0.84	10.09 0.94	11.14 1.03	11.18 1.13	13.23 1.23	14.28 1.33	15.33 1.42	16.37 1.52
	48 1.22	1.98 0.18	3.20 0.30	4.41 0.41	5.62 0.52	6.83 0.63	8.04 0.75	9.25 0.86	10.47 0.97	11.68 1.08	11.89 1.20	14.10 1.31	15.31 1.42	16.53 1.54	17.74 1.65	18.95 1.76
	54 1.37	2.20 0.20	3.54 0.33	4.88 0.45	6.22 0.58	7.56 0.70	8.90 0.83	10.25 0.95	11.59 1.08	12.93 1.20	14.27 1.33	15.61 1.45	16.95 1.58	18.30 1.70	19.64 1.82	20.98 1.95
	60 1.52	2.50 0.23	4.02 0.37	5.55 0.52	7.07 0.66	8.60 0.80	10.12 0.94	11.65 1.08	13.17 1.22	14.70 1.37	16.22 1.51	17.75 1.65	19.27 1.79	20.80 1.93	22.32 2.07	23.85 2.22
	66 1.68	2.75 0.26	4.42 0.41	6.10 0.57	7.78 0.72	9.46 0.88	11.14 1.03	12.81 1.19	14.49 1.35	16.17 1.50	17.85 1.66	19.53 1.81	21.21 1.97	22.88 2.13	24.56 2.28	26.24 2.44
	72 1.83	3.10 0.29	5.00 0.46	6.90 0.64	8.79 0.82	10.69 0.99	12.59 1.17	14.49 1.35	16.38 1.52	18.28 1.70	20.18 1.87	22.07 2.05	23.97 2.23	25.87 2.40	27.76 2.58	29.66 2.76
	78 1.96	3.37 0.31	5.44 0.50	7.50 0.70	9.56 0.89	11.62 1.08	13.68 1.27	15.74 1.46	17.81 1.65	19.87 1.85	21.93 2.04	23.99 2.23	26.05 2.42	28.11 2.61	30.17 2.80	32.24 2.99
	84 2.13	3.59 0.33	5.78 0.54	7.97 0.74	10.16 0.94	12.35 1.15	14.54 1.35	16.74 1.55	18.93 1.76	21.12 1.96	23.31 2.17	25.50 2.37	27.69 2.57	29.88 2.78	32.08 2.98	34.27 3.18
	90 2.29	3.89 0.36	6.26 0.58	8.64 0.80	11.01 1.02	13.39 1.24	15.76 1.46	18.13 1.68	20.51 1.91	22.88 2.13	25.26 2.35	27.63 2.57	30.01 2.79	32.38 3.01	34.76 3.23	37.13 3.45
	96 2.44	4.14 0.38	6.67 0.62	9.19 0.85	11.72 1.09	14.25 1.32	16.78 1.56	19.30 1.79	21.83 2.03	24.36 2.26	26.89 2.50	29.42 2.73	31.94 2.97	34.47 3.20	37.00 3.44	39.53 3.67

445RBABL AND 445RBABL125 PRESSURE DROP



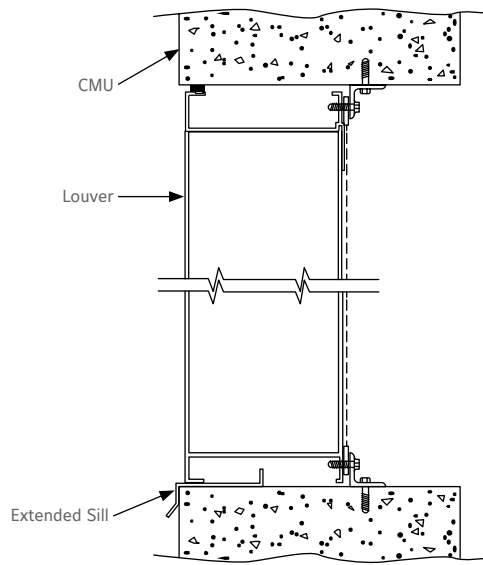
Ratings do not include the effect of a bird screen.

645RBABL PRESSURE DROP

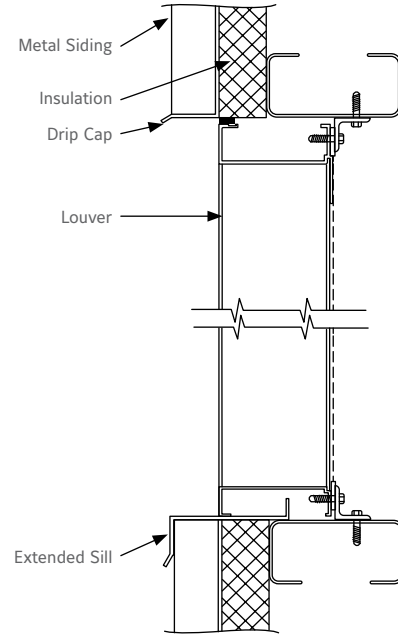


Ratings do not include the effect of a bird screen.

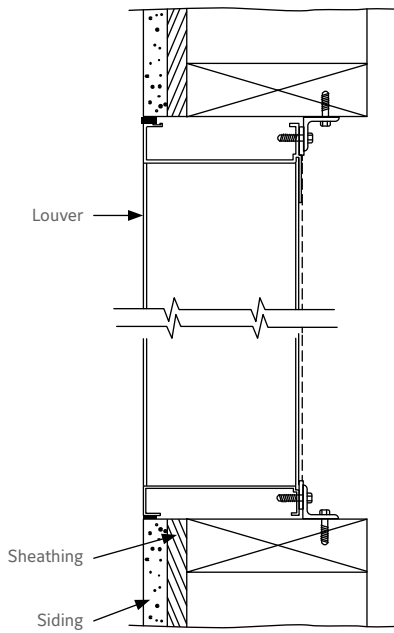
TYPICAL INSTALLATION DETAILS



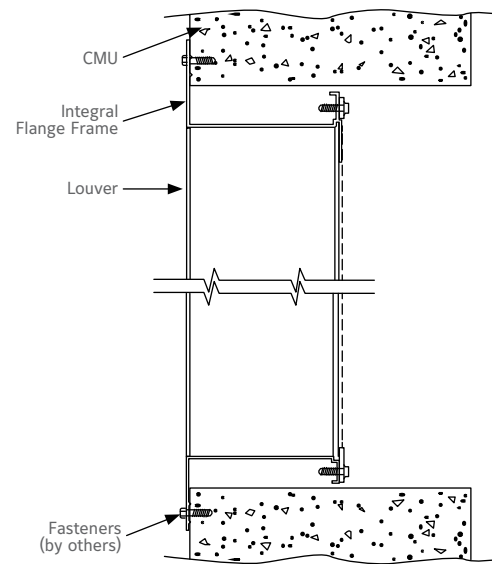
MASONRY WALL



METAL PANEL WALL



WOOD INSTALLATION



FLANGE MOUNT

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 adjustable type entirely contained within a 4 (102) or 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 limit span between visible mullions to 5 ft. (1530) and shall incorporate structural supports required to withstand a wind load of 30 lbs. per sq. ft. (1.44kPa, equivalent of a 110 mph wind [177 KPH] – specifier may substitute any loading required).

Louvers shall be Reliable Model 645RBABL, 445RBABL or 445RBABL125 6063T6 extruded aluminum alloy construction as follows:

- Frame: .081" (2.1) extruded aluminum (445RBABL/445RBABL125).
.125" (2.1) extruded aluminum (645RBABL).
- Blades: .081" (2.1) wall thickness on approximately 4 3/4" (121) centers.
- Screen: 3/4" x .051" (19 x 1.3) expanded, flattened aluminum bird screen in removable frame.
- Finish: Select finish specification from Reliable Finishes Brochure.

LINKS TO IMPORTANT DOCUMENTS

Document Title
Finishes and Color Guide
Limited Warranty Document



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580, Geneva, Alabama 36340
Tel: 334-684-3621
Tel: 800-624-3914
Fax: 800-508-1469