

ELC445D

Drainable Combination Louver Extruded Aluminum



APPLICATION

The ELC445D is an 4" deep extruded aluminum, combination louver. It includes a fixed front stationary blade and a rear adjustable blade that can be operated closed. This is beneficial when the occupant requires a tight air shut off for protection of air intake and exhaust openings in building exterior walls. The louver is designed with a drainable gutter system channeling water from the blades to downspouts in the jambs, where water is exhausted out of the front of the louver.

STANDARD CONSTRUCTION

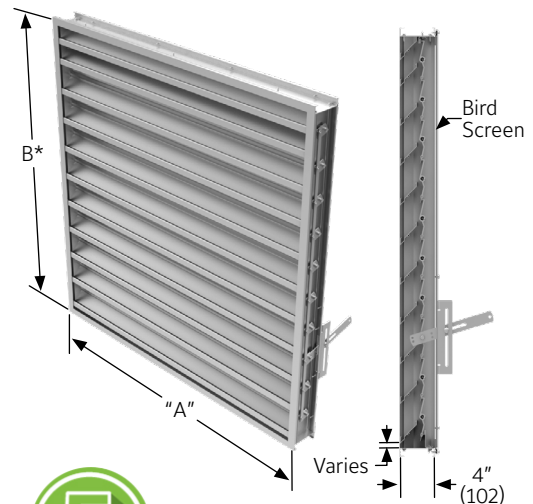
Frame	4" (102) deep, 6063T6 extruded aluminum with .080" (2.0) nominal wall thickness. Downspouts and caulking surfaces provided.
Blades	Front stationary drainable blades – 6063T6 extruded aluminum with .060" (1.5) nominal wall thickness, positioned at 45° angle and spaced approximately 47/16" (113) center to center. Rear adjustable blades – 6063T6 extruded aluminum, .080" (2.0) nominal wall thickness for operating section widths through 48" (1219).
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 vinyl blade edge seals on rear adjustable blades and flexible, compressible aluminum jamb seals.
Linkage	Concealed
Bearings	Stainless steel sleeve pressed into frame.
Axles	1/2" (13) plated steel hex.
Actuator	Locking louver quadrant.
Finish	Mill.
Minimum Size	12"w x 12"h (305 x 305)
Approximate Shipping Weight	6 lbs./ft.2 (29.3 kg per m ²)
Maximum Factory Assembly Size	Shall be 48"w x 96"h (1219 x 2438). Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.

FEATURES

- ▶ Published performance ratings based on testing in accordance with AMCA Publication 511
- ▶ 39% Free Area
- ▶ Low water penetration and low pressure drop
- ▶ Beginning point of water penetration at .01 oz. /sq. ft. is 974 fpm (297 m/min)
- ▶ Concealed blade linkage is protected from weather exposure and reduces required installation depth
- ▶ Adjustable rear blades provide desired shut off in the same 4" (102) deep frame normally required by a louver alone
- ▶ Blade and jamb seals provide tight closure
- ▶ A drain gutter in each front stationary blade and downspouts in jambs and mullions drain water from the louver with minimum water cascade from blade to blade

NOTE:

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



YEAR LIMITED
WARRANTY

ISO9001
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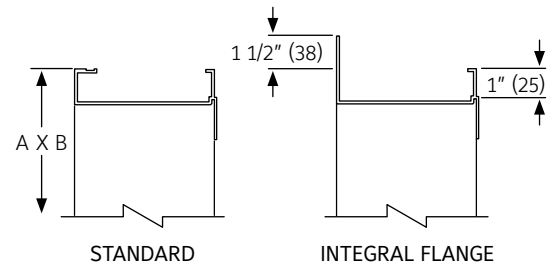
VARIATIONS

Variations to the basic design of these louvers are available at additional cost. They include:

- ▶ Extended sill
- ▶ Electric or pneumatic actuators
- ▶ Front or rear security bars
- ▶ Jamb seals (optional)
- ▶ Blade edge seals (optional)
- ▶ 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)

Consult Ruskin for other special requirements.

FRAME CONSTRUCTION



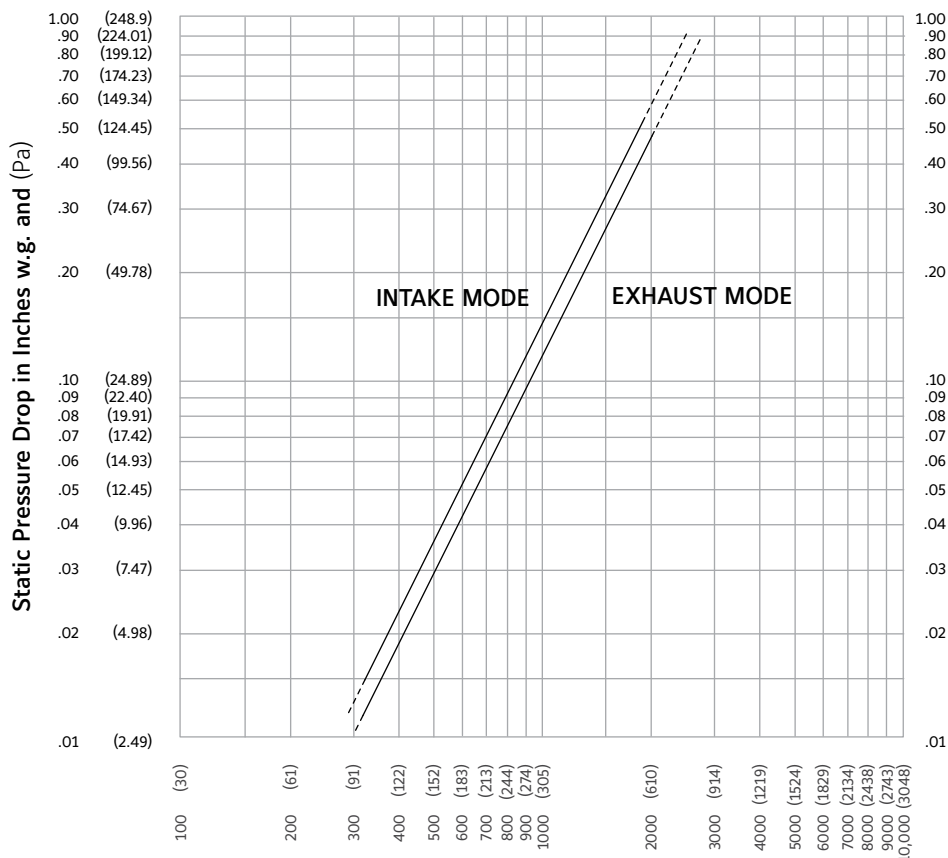
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELC445D.

Width – Inches and Meters

	HEIGHT	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
		0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
Height – Inches and Meters	12	0.16	0.26	0.36	0.45	0.55	0.65	0.75	0.85	0.94	1.04	1.14	1.24	1.34	1.44	1.53	1.63	1.73	1.83	1.93
	0.30	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	18	0.33	0.54	0.74	0.95	1.15	1.36	1.56	1.77	1.97	2.18	2.38	2.59	2.80	3.00	3.21	3.41	3.62	3.82	4.03
	0.45	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.37
	24	0.51	0.82	1.13	1.44	1.76	2.07	2.38	2.69	3.00	3.32	3.63	3.94	4.25	4.57	4.88	5.19	5.50	5.81	6.13
	0.60	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.37	0.40	0.42	0.45	0.48	0.51	0.54	0.57
	30	0.75	1.21	1.67	2.13	2.59	3.05	3.51	3.97	4.43	4.89	5.36	5.82	6.28	6.74	7.20	7.66	8.12	8.58	9.04
	0.75	0.07	0.11	0.16	0.20	0.24	0.28	0.33	0.37	0.41	0.46	0.50	0.54	0.58	0.63	0.67	0.71	0.76	0.80	0.84
	36	0.92	1.49	2.06	2.63	3.19	3.76	4.33	4.90	5.46	6.03	6.60	7.17	7.73	8.30	8.87	9.44	10.01	10.57	11.14
	0.90	0.09	0.14	0.19	0.24	0.30	0.35	0.40	0.46	0.51	0.56	0.61	0.67	0.72	0.77	0.82	0.88	0.93	0.98	1.04
	42	1.10	1.77	2.45	3.12	3.80	4.47	5.14	5.82	6.49	7.17	7.84	8.52	9.19	9.87	10.54	11.22	11.89	12.57	13.24
	1.05	0.10	0.16	0.23	0.29	0.35	0.42	0.48	0.54	0.60	0.67	0.73	0.79	0.85	0.92	0.98	1.04	1.11	1.17	1.23
	48	1.34	2.16	2.98	3.81	4.63	5.45	6.28	7.10	7.92	8.75	9.57	10.39	11.22	12.04	12.86	13.69	14.51	15.33	16.16
	1.20	0.12	0.20	0.28	0.35	0.43	0.51	0.58	0.66	0.74	0.81	0.89	0.97	1.04	1.12	1.20	1.27	1.35	1.43	1.50
	54	1.51	2.44	3.37	4.30	5.23	6.16	7.09	8.02	8.95	9.88	10.81	11.74	12.67	13.60	14.53	15.47	16.40	17.33	18.26
	1.35	0.14	0.23	0.31	0.40	0.49	0.57	0.66	0.75	0.83	0.92	1.01	1.09	1.18	1.27	1.35	1.44	1.52	1.61	1.70
	60	1.69	2.72	3.76	4.80	5.83	6.87	7.91	8.95	9.98	11.02	12.06	13.10	14.13	15.17	16.21	17.24	18.28	19.32	20.36
	1.50	0.16	0.25	0.35	0.45	0.54	0.64	0.74	0.83	0.93	1.02	1.12	1.22	1.31	1.41	1.51	1.60	1.70	1.80	1.89
	66	1.93	3.11	4.30	5.48	6.67	7.86	9.04	10.23	11.41	12.60	13.78	14.97	16.16	17.34	18.53	19.71	20.90	22.08	23.27
	1.65	0.18	0.29	0.40	0.51	0.62	0.73	0.84	0.95	1.06	1.17	1.28	1.39	1.50	1.61	1.72	1.83	1.94	2.05	2.16
	72	2.10	3.39	4.69	5.98	7.27	8.56	9.86	11.15	12.44	13.74	15.03	16.32	17.61	18.91	20.20	21.49	22.79	24.08	25.37
	1.80	0.20	0.32	0.44	0.56	0.68	0.80	0.92	1.04	1.16	1.28	1.40	1.52	1.64	1.76	1.88	2.00	2.12	2.24	2.36
	78	2.34	3.78	5.22	6.67	8.11	9.55	10.99	12.43	13.87	15.31	16.76	18.20	19.64	21.08	22.52	23.96	25.40	26.84	28.29
	1.95	0.22	0.35	0.49	0.62	0.75	0.89	1.02	1.16	1.29	1.42	1.56	1.69	1.83	1.96	2.09	2.23	2.36	2.50	2.63
	84	2.52	4.06	5.61	7.16	8.71	10.26	11.81	13.35	14.90	16.45	18.00	19.55	21.10	22.64	24.19	25.74	27.29	28.84	30.39
	2.10	0.23	0.38	0.52	0.67	0.81	0.95	1.10	1.24	1.39	1.53	1.67	1.82	1.96	2.11	2.25	2.39	2.54	2.68	2.83
	90	2.69	4.35	6.00	7.66	9.31	10.97	12.62	14.28	15.93	17.59	19.24	20.90	22.55	24.21	25.86	27.52	29.17	30.83	32.49
	2.25	0.25	0.40	0.56	0.71	0.87	1.02	1.17	1.33	1.48	1.64	1.79	1.94	2.10	2.25	2.41	2.56	2.71	2.87	3.02
	96	2.93	4.74	6.54	8.34	10.15	11.95	13.75	15.56	17.36	19.17	20.97	22.77	24.58	26.38	28.18	29.99	31.79	33.60	35.40
	2.40	0.27	0.44	0.61	0.78	0.94	1.11	1.28	1.45	1.61	1.78	1.95	2.12	2.29	2.45	2.62	2.79	2.96	3.12	3.29
	102	3.11	5.02	6.93	8.84	10.75	12.66	14.57	16.48	18.39	20.30	22.21	24.12	26.04	27.95	29.86	31.77	33.68	35.59	37.50
	2.55	0.29	0.47	0.64	0.82	1.00	1.18	1.36	1.53	1.71	1.89	2.07	2.24	2.42	2.60	2.78	2.95	3.13	3.31	3.49
	108	3.28	5.30	7.31	9.33	11.35	13.37	15.39	17.40	19.42	21.44	23.46	25.48	27.49	29.51	31.53	33.55	35.56	37.58	39.60
	2.70	0.30	0.49	0.68	0.87	1.06	1.24	1.43	1.62	1.81	1.99	2.18	2.37	2.56	2.74	2.93	3.12	3.31	3.50	3.68
	114	3.52	5.69	7.85	10.02	12.19	14.35	16.52	18.69	20.85	23.02	25.18	27.35	29.52	31.68	33.85	36.02	38.18	40.35	41.52
	2.85	0.33	0.53	0.73	0.93	1.13	1.33	1.54	1.74	1.94	2.14	2.34	2.54	2.75	2.95	3.15	3.35	3.55	3.75	3.95
	120	3.69	5.97	8.24	10.51	12.79	15.06	17.33	19.61	21.88	24.15	26.43	28.70	30.97	33.25	35.52	37.80	40.07	42.34	44.62
	3.00	0.34	0.55	0.77	0.98	1.19	1.40	1.61	1.82	2.03	2.25	2.46	2.67	2.88	3.09	3.30	3.51	3.73	3.94	4.15

PRESSURE DROP



Ratings do not include the effect of a bird screen.

Air Velocity in feet and (meters) per minute through Free Area
(Data corrected to standard air density and AMCA figure or figures testes to 5.5)

PERFORMANCE DATA

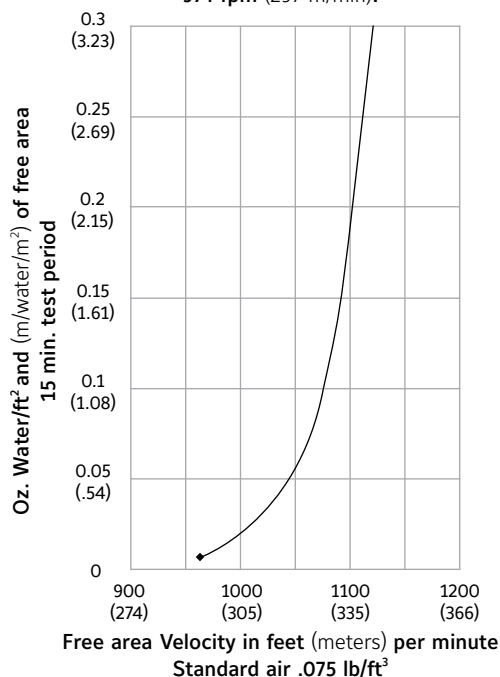
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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

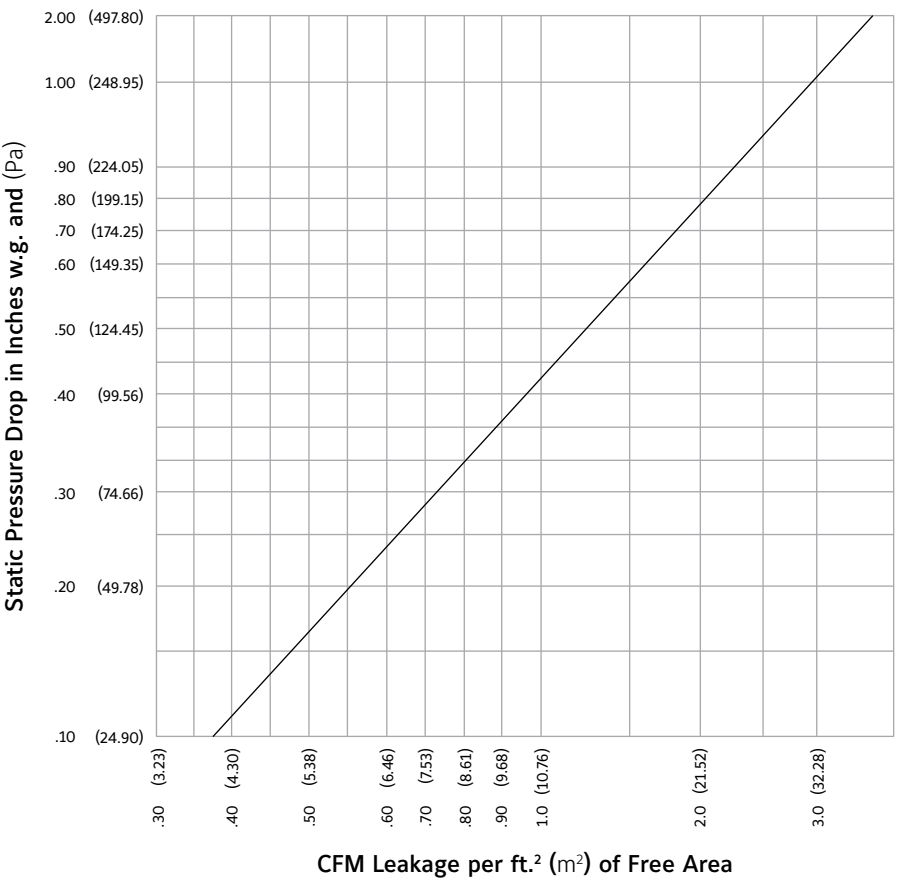


Ruskin Manufacturing Company certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Standard 511 and comply with the requirements of the AMCA Certified Ratings Program. AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings only.

Water penetration
Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft. is
974 fpm (297 m/min).



AIR LEAKAGE



i LINKS TO IMPORTANT DOCUMENTS

Document Title

Paint Finishes and Color Guide

Limited Warranty Document



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