3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

ELM6DW DRAINABLE ADJUSTABLE WAREHOUSE LOUVER
EXTRUDED ALUMINUM

APPLICATION
The Architecturally pleasing Ruskin ELM6DW warehouse louver has a 6" deep frame with adjustable drainable 37½ degree angled blades. The ELM6DW is specifically designed to provide high rates of ventilation air and boasts the industries best water penetration, perfect for warehouse applications. Factory mounted and commissioned electric or pneumatic actuators are available upon request.

STANDARD CONSTRUCTION
FRAME
6" (152) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Downspouts and caulking surfaces provided.

BLADES
6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Drainable blades are adjustable to 37½° angle and blade spacing is approximately 6" (152) center to center.

SCREEN
⅝" x .040 (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately ½" (13) to louver depth.

SEALS
Extruded Santoprene blade seals
Compressible aluminum jamb seals

BEARINGS
Stainless steel sleeve pressed into frame.

AXLES
½" (13) plated steel hex.

FINISH
Mill.

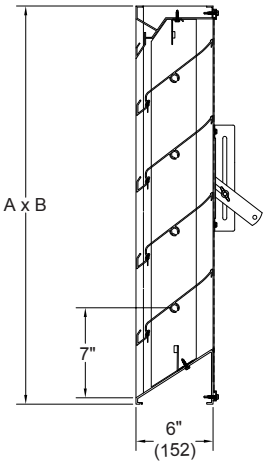
LINKAGE
Concealed in frame.

ACTUATOR
Locking louver quadrant.

MINIMUM SIZE
12"w x 12"h (305 x 305).

APPROXIMATE SHIPPING WEIGHT
3.5 lbs. / ft² (17.1 kg per m²).

MAXIMUM FACTORY ASSEMBLY SIZE
Shall be 60" x 96" (1524 x 2438) without seals. Louvers with standard jamb seals and/or optional blade seals shall be 48" x 96" (1219 x 2438). Standard construction includes jamb seals. Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.

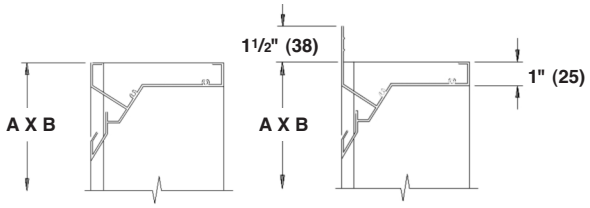


CERTIFICATE NUMBER AJA07/11923

FEATURES
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- Low torque operation and architecturally pleasing appearance with low leakage performance.
- Drain gutter in the head frame and each blade; downspouts in jambs and mullions to drain water from louver for minimum water cascade from blade to blade.
- Concealed blade linkage is protected from weather exposure and reduces required installation depth.
- Blade and jamb seals provide tight closure

VARIATIONS
Ruskin model ELM6DW is available with the following variations at additional cost.
- Blade edge and jamb seals.
- Front or rear flange frame.
- Filter racks.
- Extended sill.
- Front and rear security bars
- A variety of bird and insect screens that can be mounted on rear or front of louver
- Factory mounted and commissioned electric and pneumatic actuators, chain pull devices and manual locking handles.
- Selection of finishes: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearledize, 70% PVDF, Clear and Anodized finishes. (Some variation in anodize color consistency is possible)
- Factory mounted sleeves

Consult Ruskin for other special requirements.

FRAME CONSTRUCTION


STANDARD INTEGRAL FLANGE

Units furnished ¼" (6) smaller than given opening dimensions.

Dimensions in inches, parenthesis ( ) indicate millimeters.

 ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. © Ruskin June 2020

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² **for various sizes of ELM6DW.**

Width – Inches and Meters

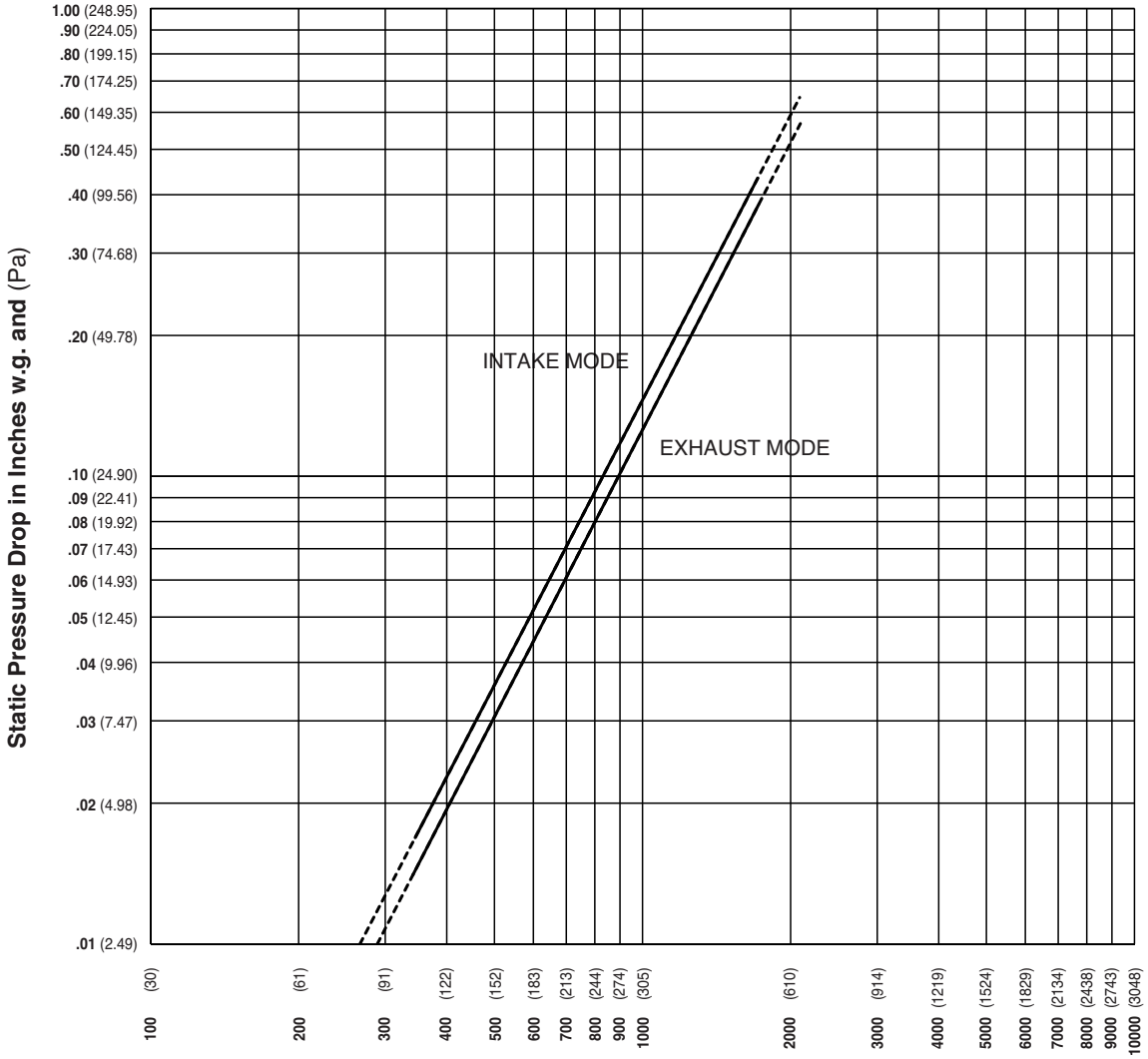
Height – Inches and Meters

	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
12	0.13	0.21	0.29	0.36	0.44	0.52	0.60	0.68	0.75	0.83	0.91	0.99	1.07	1.14	1.22	1.30	1.38	1.46	1.53
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	0.11	0.12	0.13	0.14	0.14
18	0.43	0.69	0.95	1.21	1.47	1.72	1.98	2.24	2.50	2.76	3.02	3.28	3.53	3.79	4.05	4.31	4.57	4.83	5.09
0.45	0.04	0.06	0.09	0.11	0.14	0.16	0.18	0.21	0.23	0.26	0.28	0.30	0.33	0.35	0.38	0.40	0.42	0.45	0.47
24	0.73	1.17	1.61	2.05	2.49	2.93	3.37	3.81	4.25	4.69	5.12	5.56	6.00	6.44	6.88	7.32	7.76	8.20	8.64
0.60	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.39	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80
30	1.03	1.65	2.27	2.89	3.51	4.13	4.75	5.37	5.99	6.61	7.23	7.85	8.47	9.09	9.71	10.33	10.95	11.57	12.19
0.75	0.10	0.15	0.21	0.27	0.33	0.38	0.44	0.50	0.56	0.61	0.67	0.73	0.79	0.85	0.90	0.96	1.02	1.08	1.13
36	1.33	2.13	2.94	3.74	4.54	5.34	6.14	6.94	7.74	8.54	9.34	10.14	10.94	11.74	12.54	13.34	14.14	14.94	15.74
0.90	0.12	0.20	0.27	0.35	0.42	0.50	0.57	0.65	0.72	0.79	0.87	0.94	1.02	1.09	1.17	1.24	1.32	1.39	1.46
42	1.64	2.62	3.60	4.58	5.56	6.54	7.52	8.50	9.48	10.47	11.45	12.43	13.41	14.39	15.37	16.35	17.33	18.31	19.30
1.05	0.15	0.24	0.33	0.43	0.52	0.61	0.70	0.79	0.88	0.97	1.06	1.16	1.25	1.34	1.43	1.52	1.61	1.70	1.79
48	1.94	3.10	4.26	5.42	6.58	7.74	8.91	10.07	11.23	12.39	13.55	14.72	15.88	17.04	18.20	19.36	20.52	21.69	22.85
1.20	0.18	0.29	0.40	0.50	0.61	0.72	0.83	0.94	1.04	1.15	1.26	1.37	1.48	1.58	1.69	1.80	1.91	2.02	2.12
54	2.24	3.58	4.92	6.26	7.61	8.95	10.29	11.63	12.98	14.32	15.66	17.00	18.35	19.69	21.03	22.37	23.72	25.06	26.40
1.35	0.21	0.33	0.46	0.58	0.71	0.83	0.96	1.08	1.21	1.33	1.46	1.58	1.71	1.83	1.96	2.08	2.21	2.33	2.46
60	2.54	4.06	5.58	7.11	8.63	10.15	11.68	13.20	14.72	16.25	17.77	19.29	20.81	22.34	23.86	25.38	26.91	28.43	29.95
1.50	0.24	0.38	0.52	0.66	0.80	0.94	1.09	1.23	1.37	1.51	1.65	1.79	1.94	2.08	2.22	2.36	2.50	2.64	2.79
66	2.84	4.54	6.25	7.95	9.65	11.36	13.06	14.76	16.47	18.17	19.88	21.58	23.28	24.99	26.69	28.39	30.10	31.80	33.50
1.65	0.26	0.42	0.58	0.74	0.90	1.06	1.21	1.37	1.53	1.69	1.85	2.01	2.17	2.32	2.48	2.64	2.80	2.96	3.12
72	3.14	5.02	6.91	8.79	10.68	12.56	14.45	16.33	18.21	20.10	21.98	23.87	25.75	27.64	29.52	31.40	33.29	35.17	37.06
1.80	0.29	0.47	0.64	0.82	0.99	1.17	1.34	1.52	1.69	1.87	2.04	2.22	2.39	2.57	2.75	2.92	3.10	3.27	3.45
78	3.44	5.51	7.57	9.64	11.70	13.77	15.83	17.90	19.96	22.03	24.09	26.16	28.22	30.28	32.35	34.41	36.48	38.54	40.61
1.95	0.32	0.51	0.70	0.90	1.09	1.28	1.47	1.66	1.86	2.05	2.24	2.43	2.62	2.82	3.01	3.20	3.39	3.58	3.78
84	3.74	5.99	8.23	10.48	12.72	14.97	17.22	19.46	21.71	23.95	26.20	28.44	30.69	32.93	35.18	37.43	39.67	41.92	44.16
2.10	0.35	0.56	0.77	0.97	1.18	1.39	1.60	1.81	2.02	2.23	2.44	2.65	2.85	3.06	3.27	3.48	3.69	3.90	4.11
90	4.04	6.47	8.90	11.32	13.75	16.17	18.60	21.03	23.45	25.88	28.30	30.73	33.16	35.58	38.01	40.44	42.86	45.29	47.71
2.25	0.38	0.60	0.83	1.05	1.28	1.50	1.73	1.96	2.18	2.41	2.63	2.86	3.08	3.31	3.53	3.76	3.99	4.21	4.44
96	4.34	6.95	9.56	12.16	14.77	17.38	19.99	22.59	25.20	27.81	30.41	33.02	35.63	38.23	40.84	43.45	46.05	48.66	51.27
2.40	0.40	0.65	0.89	1.13	1.37	1.62	1.86	2.10	2.34	2.59	2.83	3.07	3.31	3.56	3.80	4.04	4.28	4.53	4.77
102	4.65	7.43	10.22	13.01	15.80	18.58	21.37	24.16	26.94	29.73	32.52	35.31	38.09	40.88	43.67	46.46	49.24	52.03	54.82
2.55	0.43	0.69	0.95	1.21	1.47	1.73	1.99	2.25	2.51	2.77	3.02	3.28	3.54	3.80	4.06	4.32	4.58	4.84	5.10
108	4.95	7.91	10.88	13.85	16.82	19.79	22.75	25.72	28.69	31.66	34.63	37.59	40.56	43.53	46.50	49.47	52.43	55.40	58.37
2.70	0.46	0.74	1.01	1.29	1.56	1.84	2.12	2.39	2.67	2.94	3.22	3.50	3.77	4.05	4.32	4.60	4.88	5.15	5.43
114	5.25	8.40	11.54	14.69	17.84	20.99	24.14	27.29	30.44	33.59	36.73	39.88	43.03	46.18	49.33	52.48	55.63	58.77	61.92
2.85	0.49	0.78	1.07	1.37	1.66	1.95	2.24	2.54	2.83	3.12	3.42	3.71	4.00	4.29	4.59	4.88	5.17	5.47	5.76
120	5.55	8.88	12.21	15.54	18.87	22.20	25.52	28.85	32.18	35.51	38.84	42.17	45.50	48.83	52.16	55.49	58.82	62.15	65.48
3.00	0.52	0.83	1.14	1.44	1.75	2.06	2.37	2.68	2.99	3.30	3.61	3.92	4.23	4.54	4.85	5.16	5.47	5.78	6.09

PRESSURE DROP

Test size 48" wide x 48" high (1219 x 1219)

Ratings do not include the effect of a bird screen.

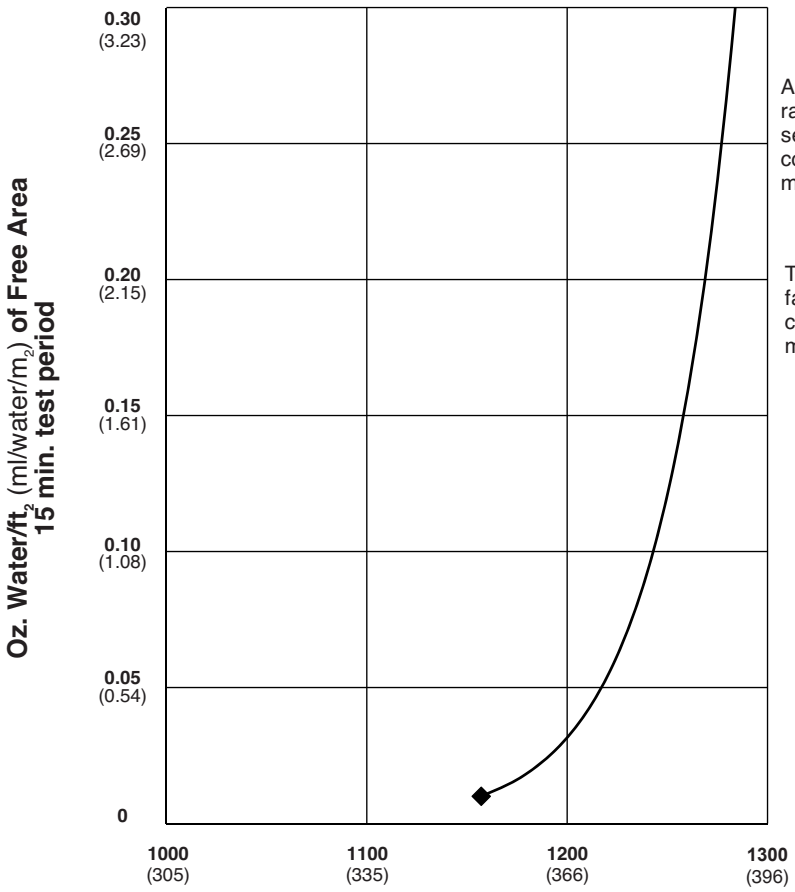


Air Velocity in feet and (meters) per minute through Free Area

(Data corrected to standard air density and AMCA figure or figures tested to 5.5)

WATER PENETRATION

Test size 48" wide x 48" high (1219 x 1219)
Beginning point of water penetration at .01 oz./sq. ft. is 1157 fpm (353 m/min).



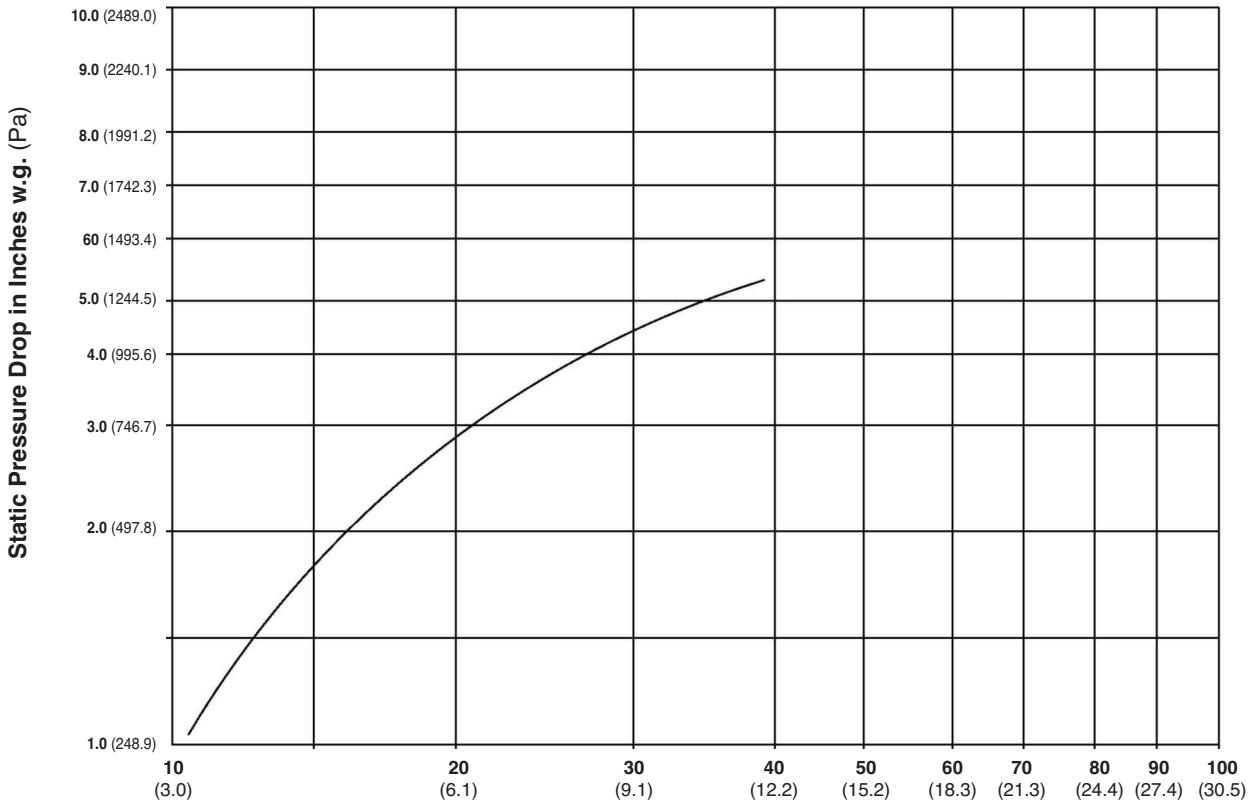
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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® Company certifies that the ELM6DW Louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings only.

AIR LEAKAGE WITH BLADES CLOSED

Leakage at 1" w.g. (248.9) static pressure drop is **10.8 CFM per ft.²** and (m^2).
Louver tested for air leakage with jamb seals ad optional blade seals.



Per AMCA Test #25587-E1

SUGGESTED SPECIFICATIONS

Furnish and install at locations shown on plans or as described in schedules. Adjustable louvers to incorporate drainable adjustable blades in a single 6" (152) deep frame. Adjustable louvers shall be manufactured in an ISO-9001 certified factory

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 20 lbs. per sq. ft. (.96kPa). Adjustable louvers shall be furnished with bird and or insect screens, quadrant arm, electric, pneumatic or manual actuators, supports and finishes as specified and as required for a complete installation.

Louvers shall be Ruskin Model ELM6DW extruded 6063T6 aluminum alloy construction as follows:

MATERIAL

Frame:	.081 (2.1) wall thickness, caulking surfaces provided.
Blades:	.081 (2.1) thick drainable blades are adjustable to 37½ degree angle with 6" (152) center to center blade spacing. Blades overlapping frames is unacceptable.
Bearings:	Stainless steel sleeve bearings pressed into frame
Axle:	½" (13) diameter hexagonal positively locked into the louver blade.
Linkage:	Concealed out of airstream, within the louver frame to reduce pressure drop and noise
Jamb Seals:	Stainless steel compression type to prevent leakage between blade end and damper frame
Screen:	5/8" x .040 (16 x 1) expanded flattened aluminum bird screen in removable frame.
Finish:	Select finish specification from Ruskin Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance must be submitted for approval prior to fabrication and must demonstrate pressure drop and water penetration equal to or less than the Ruskin model specified. Moveable Warehouse louver shall be in all respects equivalent to the Ruskin model ELM6DW.

RUSKIN
3900 Dr. Greaves Rd.
Kansas City, MO 64030
(816) 761-7476
FAX (816) 765-8955