

# ELM6375DX

Drainable Adjustable Louver  
Extruded Aluminum



## APPLICATION

The ELM6375DX is a 6" deep extruded aluminum, operable louver with drainable blades and frame. With blades open, this 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. The operable function allows the louver 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

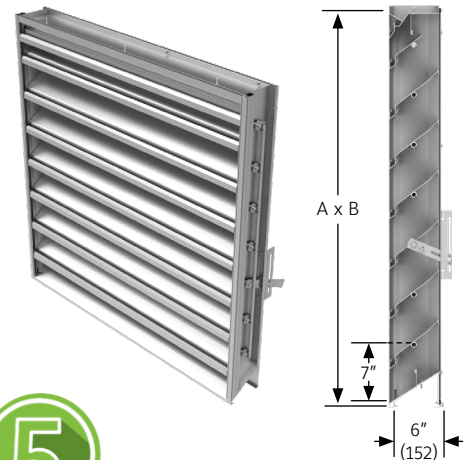
<b>Frame</b>	6" (152) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Downspouts and caulking surfaces provided.
<b>Blades</b>	6063T6 extruded aluminum, .094" (2.4) nominal wall thickness. Drainable blades are adjustable to a 37 1/2° angle and blade spacing is approximately 6" (152) center to center.
<b>Screen</b>	5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
<b>Seals</b>	Flexible, compressible aluminum jamb seals. Santoprene push on blade seals.
<b>Bearings</b>	Stainless steel sleeve pressed into frame.
<b>Axles</b>	1/2" (13) plated steel hex.
<b>Finish</b>	Mill.
<b>Linkage</b>	Concealed in frame.
<b>Actuator</b>	Locking louver quadrant.
<b>Minimum Size</b>	12"w x 12"h (305 x 305).
<b>Approximate Shipping Weight</b>	3.5 lbs./ft. <sup>2</sup> (17.1 kg/m <sup>2</sup> ).
<b>Maximum Factory Assembly Size</b>	Shall be 60" x 96" (1524x2438) 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.

## FEATURES

- ▶ 56% Free Area
- ▶ 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
- ▶ Concealed blade linkage is protected from weather exposure and reduces required installation depth
- ▶ Jamb seals provide tight blade-to-frame closure
- ▶ Beginning point of water penetration at .01 oz/sq ft is 1157 FPM in open position

Note:

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



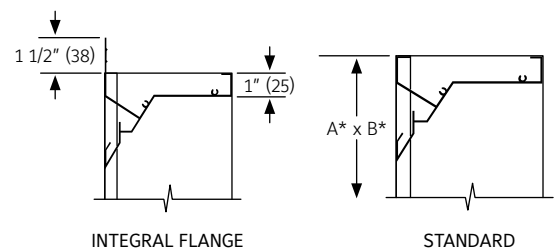
## VARIATIONS

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

- ▶ Extended sill
- ▶ Front or rear security bars
- ▶ Filter racks
- ▶ Blade edge seals (optional)
- ▶ Jamb seals (optional)
- ▶ A variety of bird and insect screens
- ▶ Jackshafts may be required with certain size and actuator configurations
- ▶ Manual, electric or pneumatic actuators
- ▶ Selection of finishes: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible)

Consult Ruskin for other special requirements.

## FRAME CONSTRUCTION



## FREE AREA GUIDE

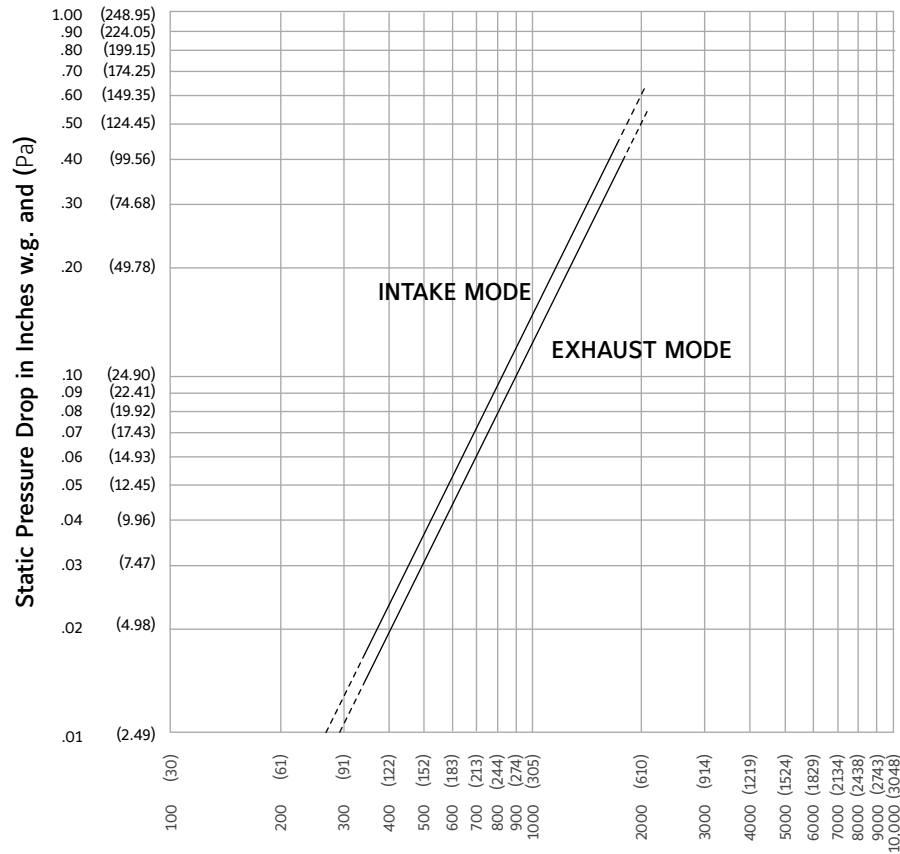
Free Area Guide shows free area in ft<sup>2</sup> and m<sup>2</sup> for various sizes of ELM6375DX.

### Width – Inches and Meters

	HEIGHT	12	18	24	30	36	42	48	54	60
		0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50
Height – Inches and Meters	12	0.23	0.37	0.51	0.65	0.80	0.94	1.08	1.22	1.36
	0.30	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.11	0.13
	18	0.52	0.83	1.14	1.45	1.76	2.07	2.38	2.69	3.00
	0.45	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.28
	24	0.80	1.28	1.76	2.25	2.73	3.21	3.69	4.17	4.65
	0.60	0.07	0.12	0.16	0.21	0.25	0.30	0.34	0.39	0.43
	30	1.09	1.74	2.39	3.04	3.69	4.34	5.00	5.65	6.30
	0.75	0.10	0.16	0.22	0.28	0.34	0.40	0.46	0.53	0.59
	36	1.37	2.19	3.01	3.84	4.66	5.48	6.30	7.12	7.95
	0.90	0.13	0.20	0.28	0.36	0.43	0.51	0.59	0.66	0.74
	42	1.65	2.65	3.64	4.63	5.62	6.62	7.61	8.60	9.59
	1.05	0.15	0.25	0.34	0.43	0.52	0.62	0.71	0.80	0.89
	48	1.94	3.10	4.26	5.43	6.59	7.75	8.91	10.08	11.24
	1.20	0.18	0.29	0.40	0.50	0.61	0.72	0.83	0.94	1.05
	54	2.22	3.56	4.89	6.22	7.55	8.89	10.22	11.55	12.89
	1.35	0.21	0.33	0.45	0.58	0.70	0.83	0.95	1.07	1.20
	60	2.51	4.01	5.51	7.02	8.52	10.02	11.53	13.03	14.53
	1.50	0.23	0.37	0.51	0.65	0.79	0.93	1.07	1.21	1.35
	66	2.79	4.46	6.14	7.81	9.49	11.16	12.83	14.51	16.18
	1.65	0.26	0.42	0.57	0.73	0.88	1.04	1.19	1.35	1.50
	72	3.07	4.92	6.76	8.61	10.45	12.30	14.14	15.98	17.83
	1.80	0.29	0.46	0.63	0.80	0.97	1.14	1.31	1.49	1.66
	78	3.36	5.37	7.39	9.40	11.42	13.43	15.45	17.46	19.48
	1.95	0.31	0.50	0.69	0.87	1.06	1.25	1.44	1.62	1.81
	84	3.64	5.83	8.01	10.20	12.38	14.57	17.75	19.94	21.12
	2.10	0.34	0.54	0.75	0.95	1.15	1.35	1.56	1.76	1.96
	90	0.00	0.20	0.04	10.00	10.35	15.70	10.00	20.41	22.77
	2.25	0.37	0.58	0.80	1.02	1.24	1.46	1.68	1.90	2.12
	96	4.21	6.74	9.26	11.79	14.31	16.84	19.37	21.89	24.42
	2.40	0.39	0.63	0.86	1.10	1.33	1.57	1.80	2.04	2.27

## PRESSURE DROP

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

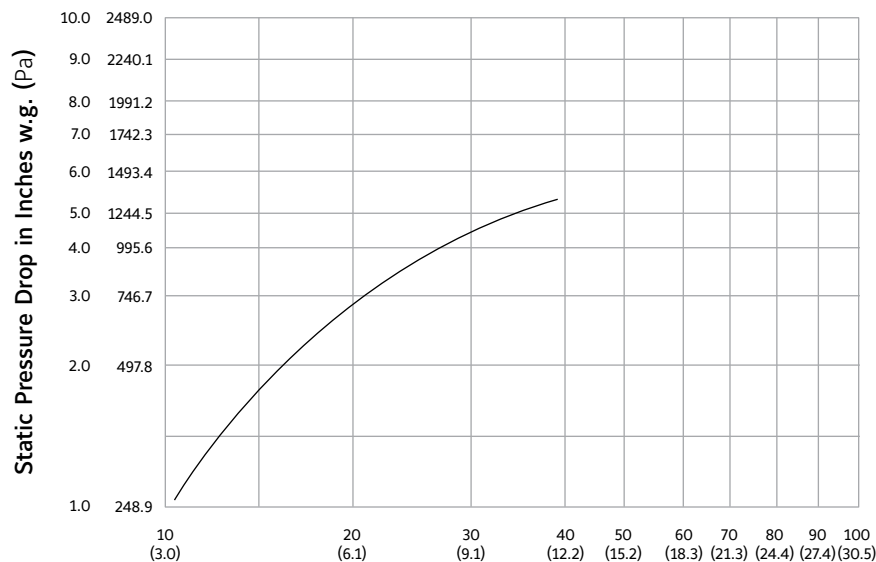


Ratings do not include the effect of a bird screen.

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)

## AIR LEAKAGE WITH BLADES CLOSED

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

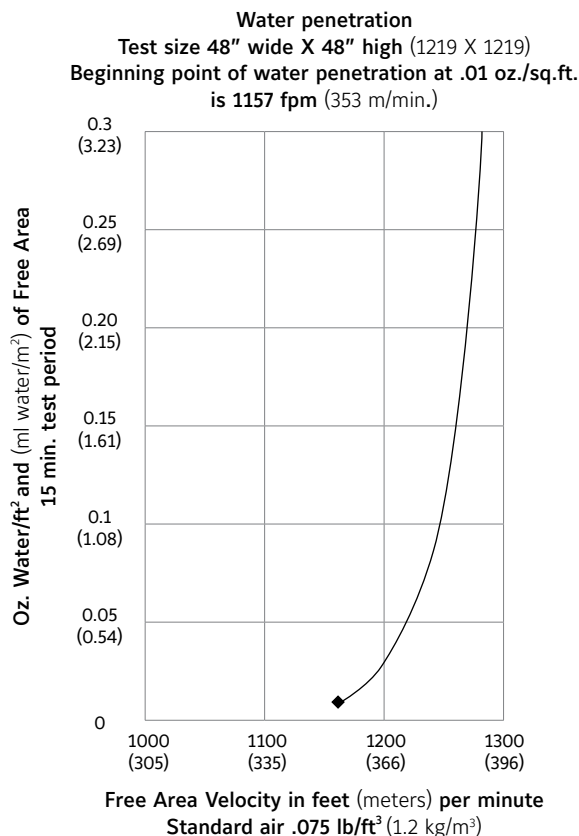


CFM (m<sup>3</sup>/min) Leakage per ft.<sup>2</sup> (m<sup>2</sup>) of Face Area  
Data corrected to standard air density

## PERFORMANCE DATA

AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500-L 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.



Ruskin® Company certifies that the ELM6375DX 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 ratings and water penetration ratings only.

## SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Drainable stationary louver meeting the performance criteria established by the Louvers shall be manufactured in an ISO 9001 certified factory. Louvers shall be stationary type contained within a 6" (152) frame. Louver components (heads, jambs, sills, blades, and mullions) shall be factory assembled by the louver manufacturer. 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 wind [177 KPH] specifier may substitute any loading required).

Louvers shall be Ruskin Model ELM6375DX construction as follows:

### Material

- Frame: .081" (2.1) aluminum channel.
- Blades: .094" (2.4) nominal wall thickness.
- Screen: 5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame.
- Finish: Select finish specification from Ruskin Finishes Brochure.

## **i** LINKS TO IMPORTANT DOCUMENTS

### Document Title

- Paint Finishes and Color Guide
- Limited Warranty Document



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