

ELC6375AF COMBINATION LOUVER EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

6" (152) deep, 6063T5 extruded aluminum, .125" (3.2) nominal wall thickness. Caulking slots provided.

BLADES

Front stationary blades – 6063T5 extruded aluminum, .080" (2) nominal wall thickness. J-Style blades (formerly "weatherproof") are positioned at 37½° angle and spaced approximately 4½" (114) center to center.

Rear adjustable blades – 6063T5 extruded aluminum, double skin airfoil, .140" (3.6) nominal wall thickness for single section widths above 48" (1219) through 60" (1524).

SCREEN

¾" x .051" (19 x 1.3) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately ½" (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

½" (13) plated steel hex.

ACTUATOR

Locking louver quadrant.

FINISH

Mill.

MINIMUM SIZE

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

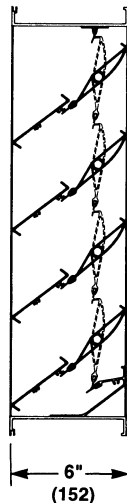
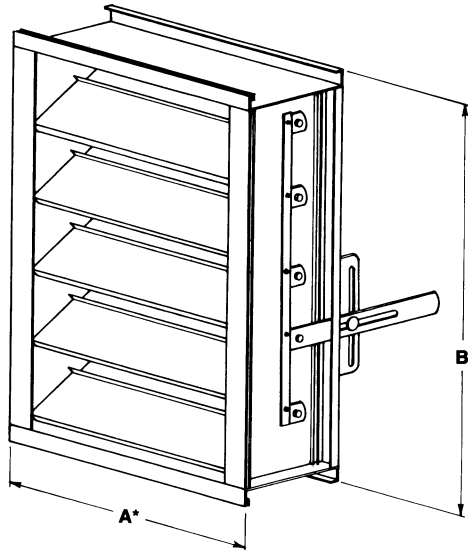
APPROXIMATE SHIPPING WEIGHT

8 lbs. per sq. ft.

MAXIMUM FACTORY ASSEMBLY SIZE

Shall be 60"w and 90"h (1524 and 2286).

Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.



FEATURES

The ELC6375AF offers:

- Published performance ratings based on testing in accordance with AMCA Standard 511.
- High free area, low water penetration, and low pressure drop.
- Ideally suited for air intake and exhaust applications that require tight shut off.
- Combines architectural styling with performance.
- Adjustable rear blades provide desired shut off in the same 6" (152) deep frame normally required by a louver alone.
- Architecturally styled, hidden mullions for attractive appearance.

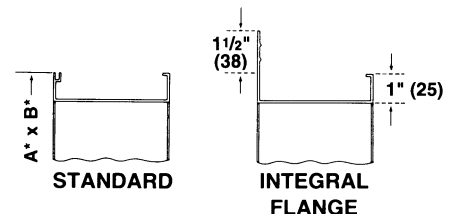
VARIATIONS

Variations to the basic design of this 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.
- Selection of finishes: baked enamel (modified fluoropolymer), epoxy, Kynar, Acrodize, prime coat, integral color and clear anodize. (Some variation in anodize color consistency is possible).
- A selection of manual, electric, and pneumatic actuators.

Consult Ruskin for other special requirements.

FRAME CONSTRUCTION



Dimensions in parenthesis () indicate millimeters.

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

TAG	QTY.	SIZE		FRAME	VARIATIONS
		A*-WIDE	B*-HIGH		
PROJECT ARCH./ENGR. REPRESENTATIVE				LOCATION CONTRACTOR DATE	

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be combination stationary adjustable type. Stationary blades and adjustable blades shall be contained within a single 6" (152) louver frame. Adjustable section shall include low leakage blade and jamb seals. 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 such structural supports required to withstand a wind load of 20 lbs. per sq. ft. (.96kPa) (equivalent of a 90 mph wind [145 KPH] – specifier may substitute any loading required).

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

Louvers shall be Combination Type Ruskin Model ELC6375AF extruded 6063T5 aluminum alloy construction as follows:

Frame: .125" (3.2) wall thickness.

Blades: Stationary front section .080" (2) wall thickness, drainable blade at 37¹/₂° angle and spaced approximately 4¹/₂" (114) center to center. Adjustable rear section. Double skin air foil .140" (3.6) nominal wall thickness for single section widths up to 60" (1524).

Finish: Select finish specification from Ruskin/Valspar Finishes Brochure.

Published louver performance data 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.

PERFORMANCE DATA

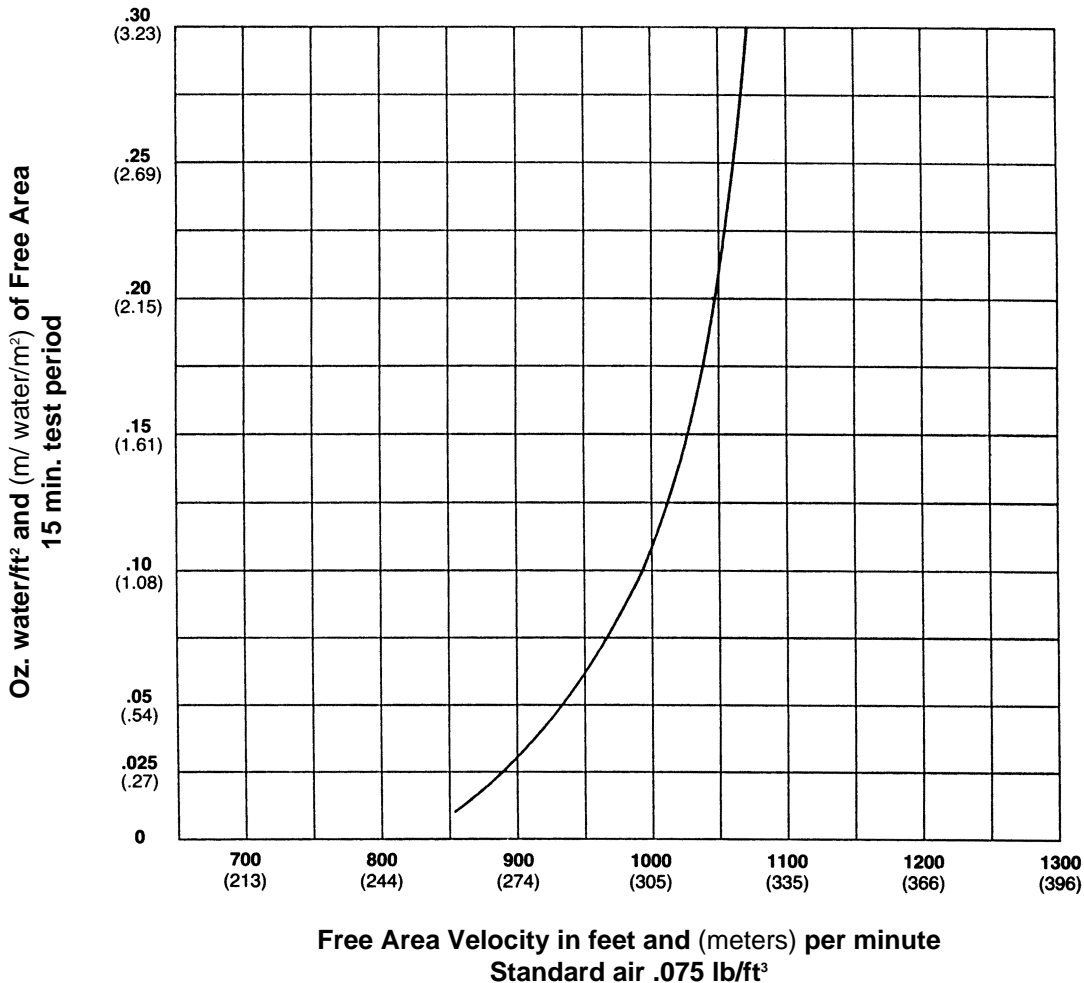
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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. of water penetration.

WATER PENETRATION

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

Beginning point of water penetration at .01 oz./sq. ft. is 855 fpm (261 m/min).



FREE AREA GUIDE

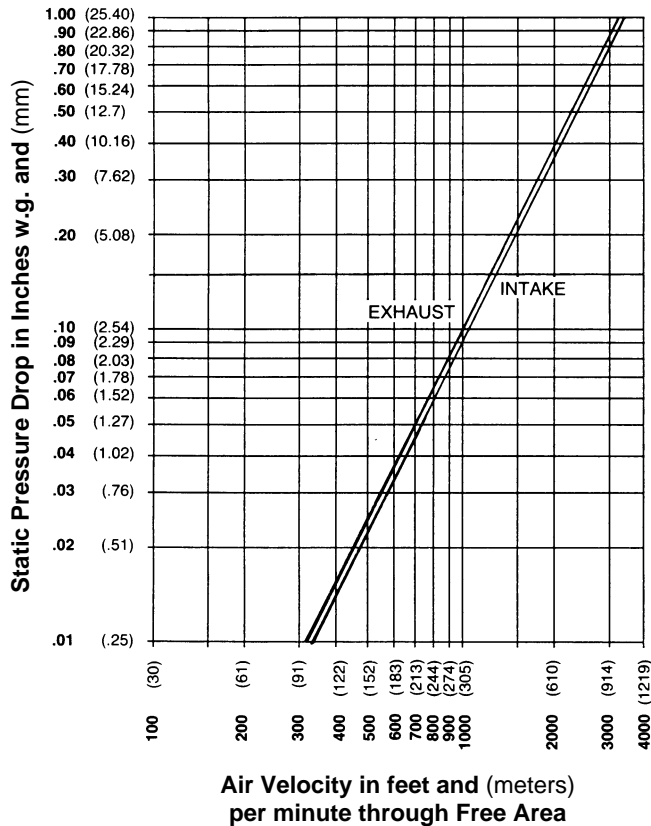
Free Area Guide shows free area in ft² and m² for various sizes of ELC6375AF.

Width – Inches and Meters

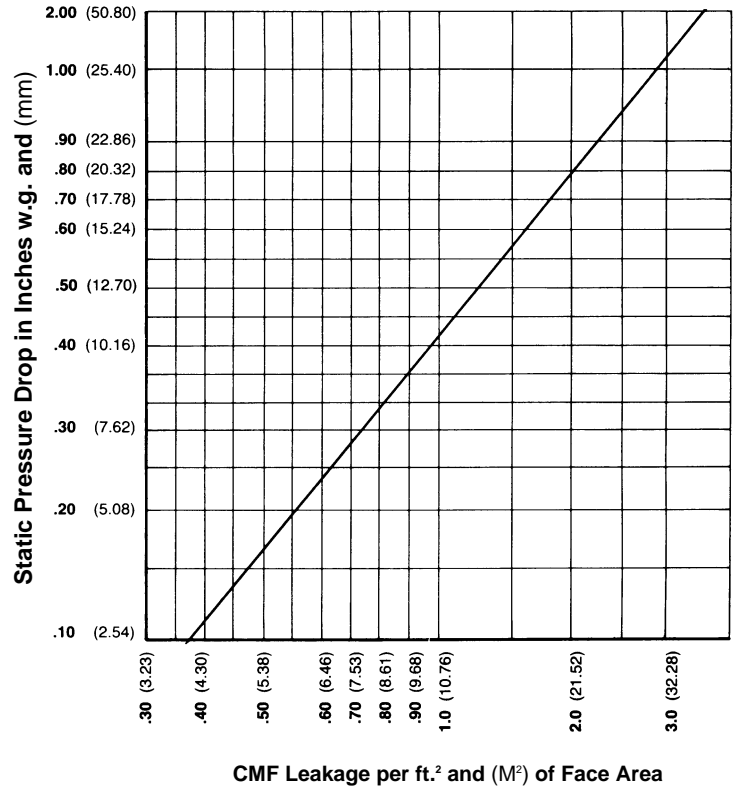
Height – Inches and Meters	12		18		24		30		36		42		48		54		60		66		72		78		84		90		96	
	.30	.46	.61	.76	.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6			
12	.19	.30	.42	.53	.65	.76	.88	.94	1.05	1.17	1.28	1.40	1.51	1.63	1.74															
18	.41	.66	.92	1.17	1.42	1.67	1.92	2.06	2.31	2.56	2.81	3.07	3.32	3.57	3.82															
24	.58	.93	1.29	1.64	1.99	2.35	2.70	2.89	3.25	3.60	3.95	4.31	4.66	5.01	5.37															
30	.83	1.33	1.84	2.34	2.85	3.35	3.86	4.13	4.64	5.14	5.65	6.15	6.66	7.16	7.67															
36	1.05	1.69	2.33	2.97	3.61	4.25	4.88	5.23	5.87	6.51	7.15	7.79	8.43	9.07	9.71															
42	1.23	1.98	2.73	3.49	4.24	4.99	5.74	6.15	6.90	7.65	8.41	9.16	9.91	10.66	11.41															
48	1.48	2.38	3.29	4.19	5.09	6.00	6.90	7.39	8.29	9.20	10.10	11.00	11.91	12.81	13.71															
54	1.70	2.74	3.78	4.82	5.86	6.91	7.95	8.51	9.55	10.59	11.63	12.67	13.71	14.75	15.79															
60	1.88	3.03	4.18	5.33	6.48	7.63	8.79	9.41	10.56	11.71	12.86	14.01	15.16	16.31	17.46															
66	2.05	3.30	4.55	5.80	7.05	8.30	9.55	10.22	11.47	12.72	13.97	15.22	16.47	17.72	18.97															
72	2.34	3.77	5.20	6.63	8.07	9.50	10.93	11.70	13.13	14.56	15.99	17.42	18.86	20.29	21.72															
78	2.53	4.08	5.63	7.18	8.73	10.28	11.83	12.66	14.21	15.76	17.31	18.86	20.41	21.96	23.50															
84	2.70	4.35	5.99	7.64	9.29	10.94	12.59	13.48	15.13	16.77	18.42	20.07	21.72	23.37	25.02															
90	2.98	4.80	6.62	8.45	10.27	12.09	13.91	14.89	16.71	18.54	20.36	22.18	24.00	25.82	27.64															
96	3.19	5.13	7.08	9.03	10.97	12.92	14.87	15.92	17.87	19.81	21.76	23.71	25.66	27.60	29.55															

PRESSURE DROP

RESISTANCE TO AIR FLOW

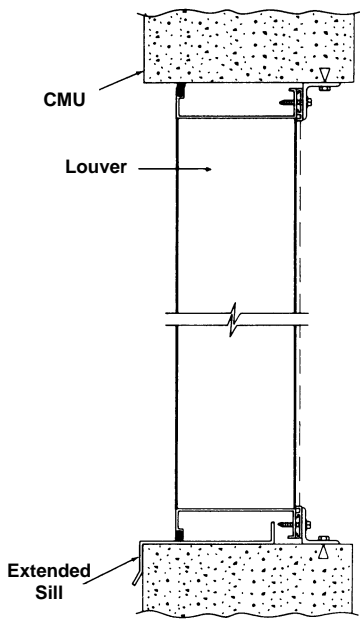
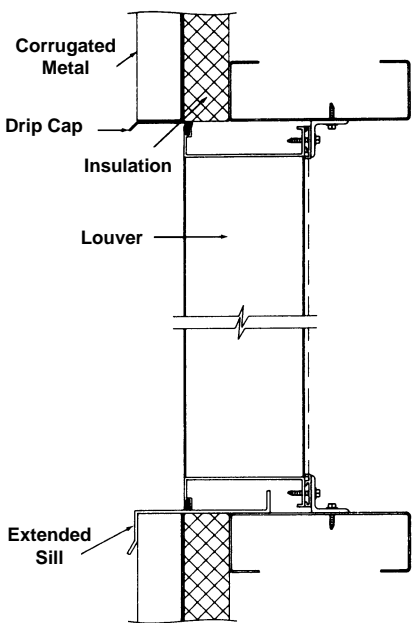
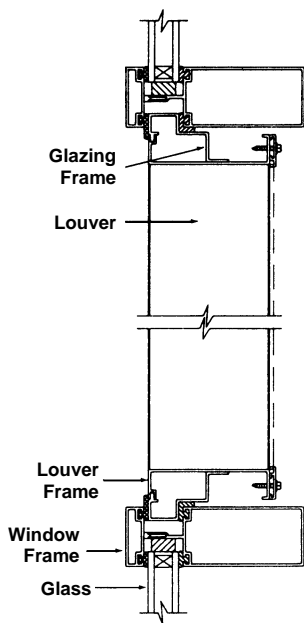
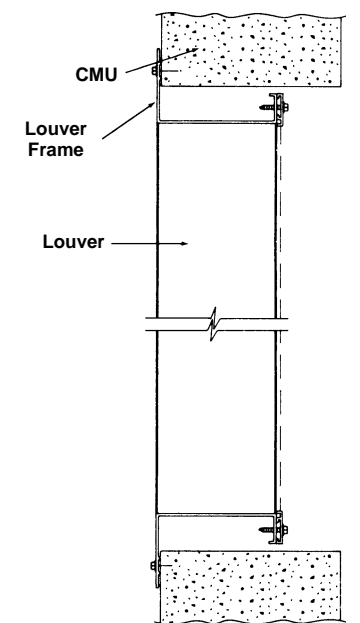
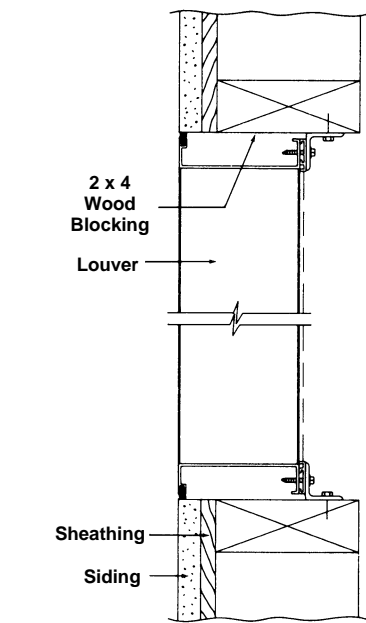
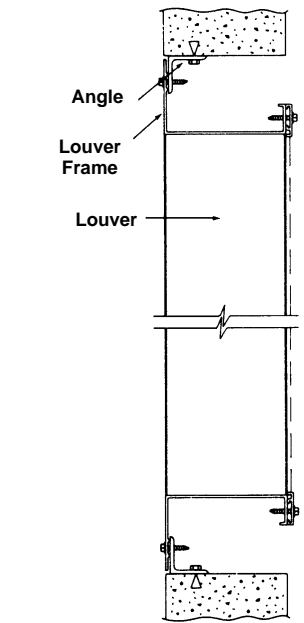


AIR LEAKAGE WITH DAMPER SECTION CLOSED



Ratings do not include the effect of a bird screen.

TYPICAL INSTALLATION DETAILS

Masonry Wall	Metal Panel Wall	Glazing Frame
 <p>CMU</p> <p>Louver</p> <p>Extended Sill</p>	 <p>Corrugated Metal</p> <p>Drip Cap</p> <p>Insulation</p> <p>Louver</p> <p>Extended Sill</p>	 <p>Glazing Frame</p> <p>Louver</p> <p>Louver Frame</p> <p>Window Frame</p> <p>Glass</p>
Flange Mount	Wood Installation	Angle Subframe
 <p>CMU</p> <p>Louver Frame</p> <p>Louver</p>	 <p>2 x 4 Wood Blocking</p> <p>Louver</p> <p>Sheathing</p> <p>Siding</p>	 <p>Angle</p> <p>Louver Frame</p> <p>Louver</p>

Accessories at additional cost.

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