

ELF81S30 STATIONARY LOUVER EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

4" (102) deep, 6063T5 extruded aluminum with .080" (2) wall thickness. Caulking slots provided.

BLADES

6063T5 extruded aluminum with .080" (2) nominal wall thickness. K-style blades (formerly "stormproof") are positioned at 30° angle and spaced approximately 3 1/4" (83) 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.

FINISH

Mill.

MINIMUM SIZE

6"w x 8"h (152 x 203).

APPROXIMATE SHIPPING WEIGHT

4 lbs. per sq. ft. (20 kg per m²).

MAXIMUM FACTORY ASSEMBLY SIZE

Shall be 75 (7m²) per section, not to exceed 120"w x 90"h (3048 x 2286) or 90"w x 120"h (2286 x 3048).

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

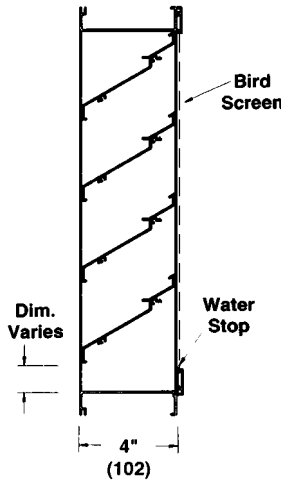
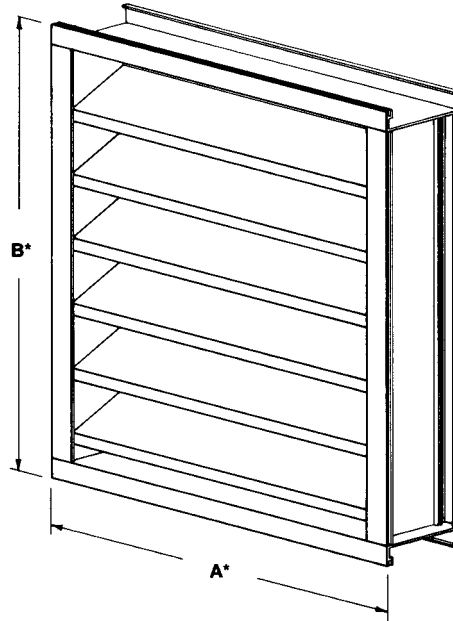
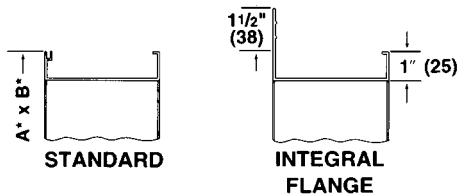
SUPPORTS

Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or wind-load.

Consult Ruskin for additional information.

Dimensions in parenthesis () indicate millimeters.

FRAME CONSTRUCTION



FEATURES

The ELF81S30 offers:

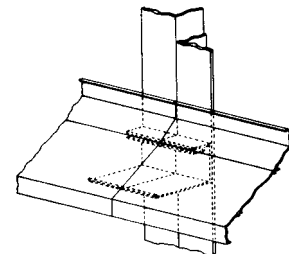
- Architecturally styled, hidden mullions for attractive appearance.
- All aluminum construction for high resistance to corrosion.
- Outstanding durability and low maintenance.
- Low pressure drop with high free area.

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
- Installation angles.
- A variety of bird and insect screens
- Selection of finishes: baked enamel (modified fluoropolymer), epoxy, Kynar, Pearledize, prime coat, clear and color anodize. (Some variation in anodize color consistency is possible).

Consult Ruskin for other special requirements.



Architectural Style
Hidden Mullion

*Units furnished 1/4" (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 stationary type entirely contained within a 4" (102) 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 incorporate 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 Ruskin Model ELF81S30 6063T5 extruded aluminum alloy construction as follows:

- Frame: .080" (2) wall thickness.
- Blades: .080" (2) wall thickness positioned at 30° angle and spaced approximately 3 1/4" (83) center to center.
- Screen: 3/4" x .051" (19 x 1) expanded, flattened aluminum in removable frame.
- Finish: Select finish specification from Ruskin Finishes Brochure.

PERFORMANCE DATA

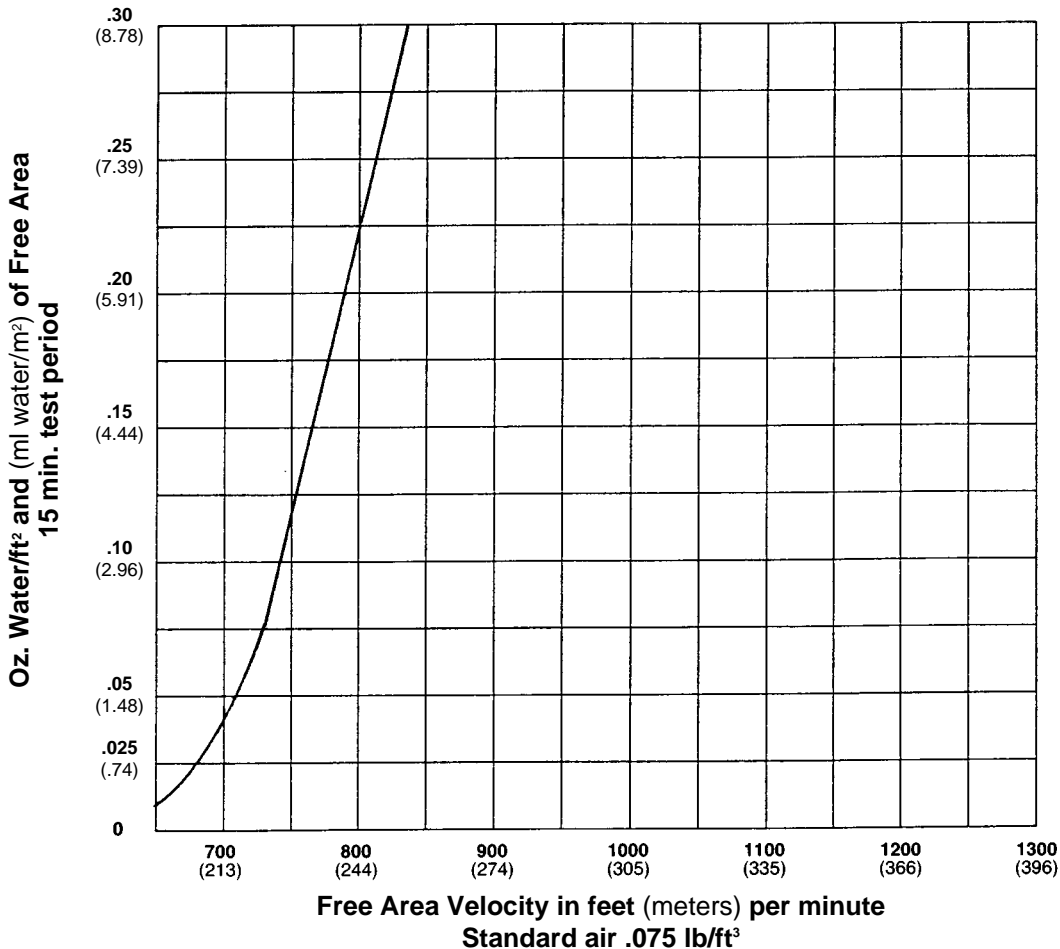
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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 644 fpm (196 m/min).



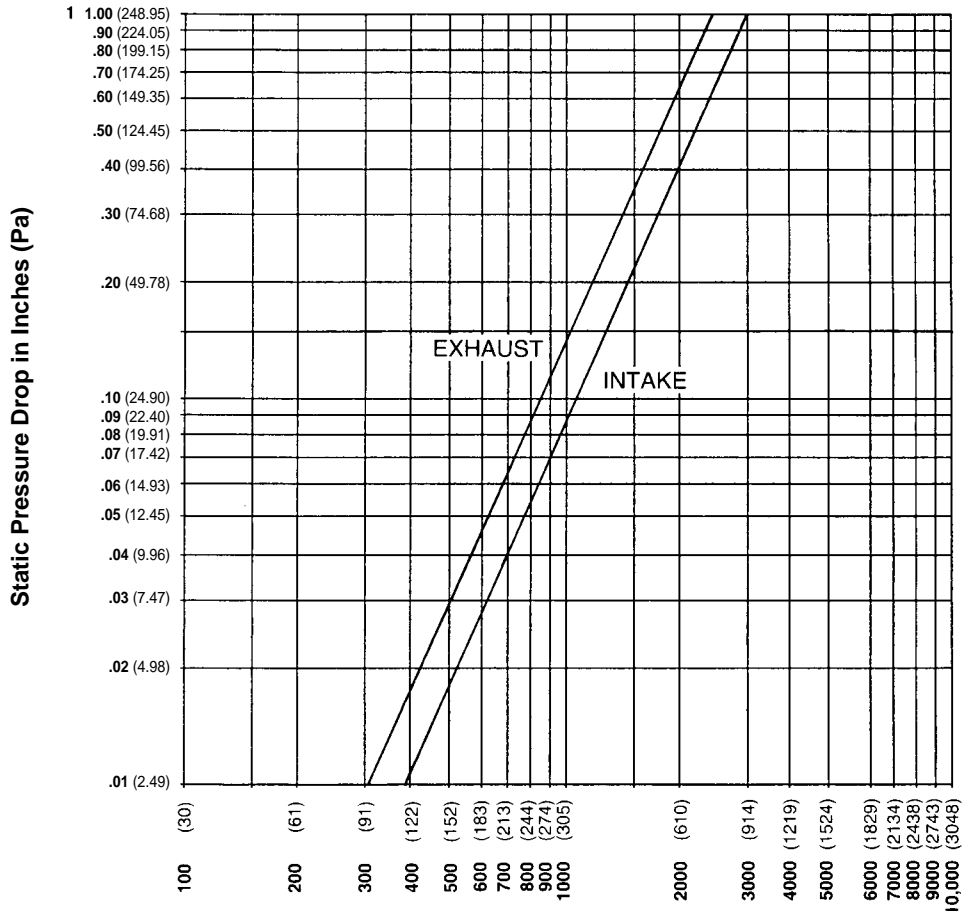
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELF81S30.

Width – Inches and Meters

Height – Inches and Meters	Width – Inches and Meters														
	12 .30	18 .46	24 .61	30 .76	36 .91	42 1.07	48 1.22	54 1.37	60 1.52	66 1.68	72 1.83	78 1.98	84 2.13	90 2.29	96 2.44
12 .30	.26 .02	.41 .04	.56 .05	.72 .07	.87 .08	1.03 .10	1.18 .11	1.33 .12	1.49 .14	1.64 .15	1.80 .17	1.95 .18	2.10 .20	2.26 .21	2.41 .22
18 .46	.53 .05	.85 .08	1.16 .11	1.48 .14	1.80 .17	2.12 .20	2.43 .23	2.75 .26	3.07 .29	3.39 .31	3.71 .34	4.02 .37	4.34 .40	4.66 .43	4.98 .46
24 .61	.81 .08	1.29 .12	1.78 .17	2.26 .21	2.74 .25	3.23 .30	3.71 .34	4.20 .39	4.68 .43	5.16 .48	5.65 .52	6.13 .57	6.62 .61	7.10 .66	7.58 .70
30 .76	1.04 .10	1.67 .16	2.30 .21	2.93 .27	3.55 .33	4.18 .39	4.81 .45	5.43 .50	6.06 .56	6.69 .62	7.31 .68	7.94 .74	8.57 .80	9.20 .85	9.82 .91
36 .91	1.30 .12	2.07 .19	2.85 .26	3.63 .34	4.41 .41	5.19 .48	5.96 .55	6.74 .63	7.52 .70	8.30 .77	9.08 .84	9.85 .92	10.63 .99	11.41 1.06	12.19 1.13
42 1.07	1.60 .15	2.56 .24	3.52 .33	4.48 .42	5.44 .51	6.39 .59	7.35 .68	8.31 .77	9.27 .86	10.23 .95	11.19 1.04	12.15 1.13	13.11 1.22	14.07 1.31	15.03 1.40
48 1.22	1.83 .17	2.93 .27	4.03 .37	5.13 .48	6.23 .58	7.33 .68	8.43 .78	9.53 .89	10.63 .99	11.73 1.09	12.83 1.19	13.93 1.29	15.03 1.40	16.13 1.50	17.23 1.60
54 1.37	2.08 .19	3.32 .31	4.57 .42	5.82 .54	7.06 .66	8.31 .77	9.55 .89	10.80 1.00	12.05 1.12	13.29 1.23	14.54 1.35	15.78 1.47	17.03 1.58	18.28 1.70	19.52 1.81
60 1.52	2.37 .22	3.79 .35	5.22 .48	6.64 .62	8.06 .75	9.48 .88	10.91 1.01	12.33 1.15	13.75 1.28	15.17 1.41	16.60 1.54	18.02 1.67	19.44 1.81	20.86 1.94	22.90 2.07
66 1.68	2.62 .24	4.20 .39	5.77 .54	7.35 .68	8.92 .83	10.49 .97	12.07 1.12	13.64 1.27	15.22 1.41	16.79 1.56	18.36 1.71	19.94 1.85	21.51 2.00	23.09 2.15	24.66 2.29
72 1.83	2.87 .27	4.58 .43	6.30 .59	8.02 .75	9.74 .90	11.46 1.06	13.18 1.22	14.90 1.38	16.62 1.54	18.34 1.70	20.06 1.86	21.77 2.02	23.49 2.18	25.21 2.34	26.93 2.50
78 1.98	3.14 .29	5.02 .47	6.90 .64	8.79 .82	10.67 .99	12.55 1.17	14.44 1.34	16.32 1.52	18.20 1.69	20.09 1.87	21.97 2.04	23.85 2.22	25.73 2.39	27.62 2.57	29.50 2.74
84 2.13	3.42 .32	5.46 .51	7.51 .70	9.56 .89	11.61 1.08	13.66 1.27	15.71 1.46	17.76 1.65	19.81 1.84	21.86 2.03	23.91 2.22	25.96 2.41	28.00 2.60	30.05 2.79	32.10 2.98
90 2.29	3.65 .34	5.85 .54	8.04 .75	10.23 .95	12.42 1.15	14.61 1.36	16.81 1.56	19.00 1.77	21.19 1.97	23.38 2.17	25.57 2.38	27.77 2.58	29.96 2.78	32.15 2.99	34.34 3.19
96 2.44	3.91 .36	6.25 .58	8.59 .80	10.94 1.02	13.28 1.23	15.62 1.45	17.97 1.67	20.31 1.89	22.65 2.10	25.00 2.32	27.34 2.54	29.68 2.76	32.03 2.98	34.37 3.19	36.71 3.41

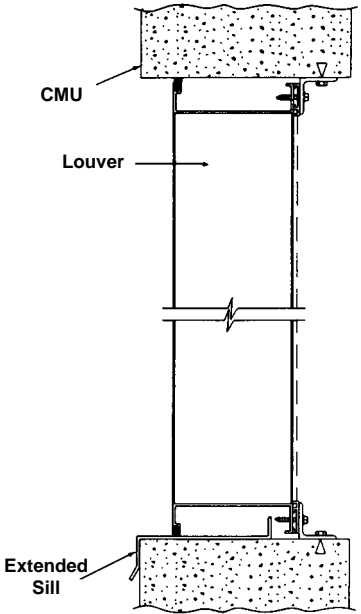
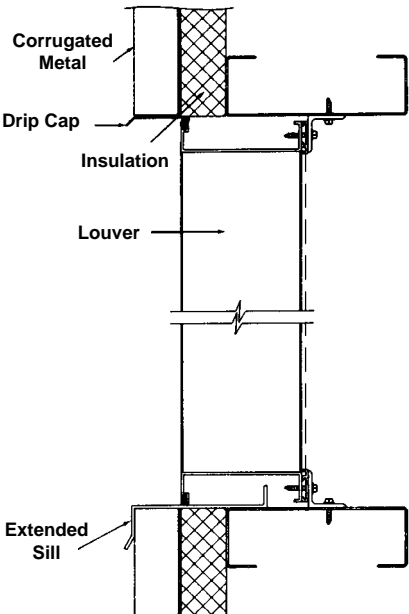
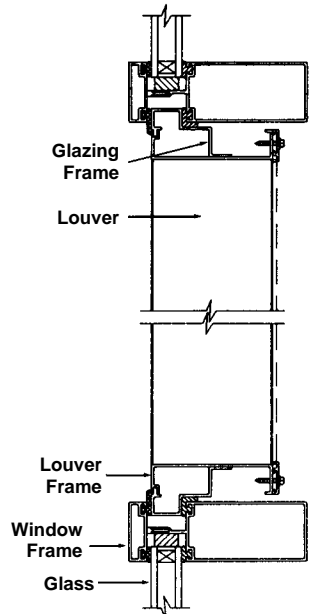
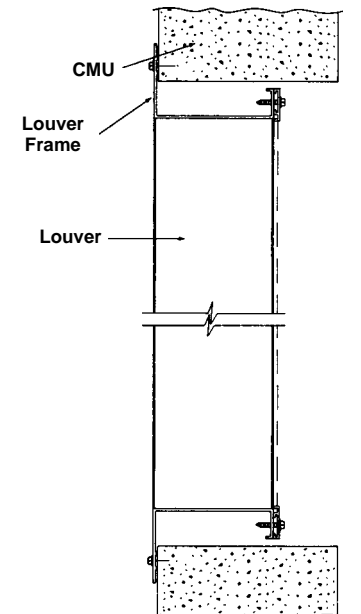
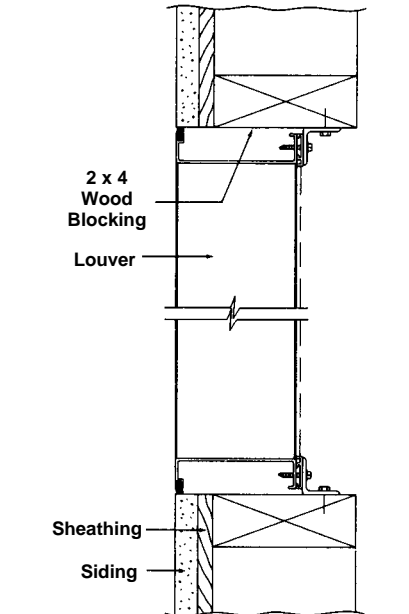
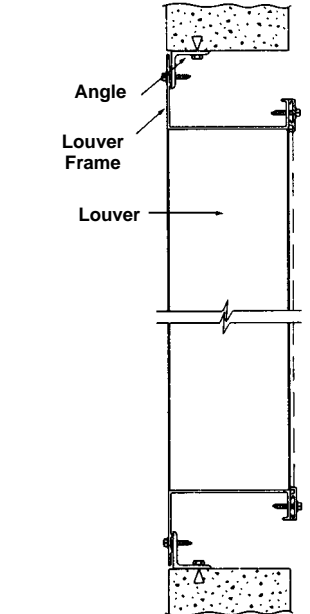
PRESSURE DROP



Ratings do not include the effect of a bird screen.

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

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>Extended Sill</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> <p>Extended Sill</p>

Accessories at additional cost.

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