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ELF6811DD STATIONARY LOUVER DOUBLE DRAINABLE BLADE EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

6" (152) deep, 6063T6 extruded aluminum with .125" (3.2) nominal wall thickness. Downspouts and caulking slots provided.

BLADES

6063T6 extruded aluminum with .100" (2.5) nominal wall thickness. Double drain-able blades are positioned at 45° angle and spaced approximately 6" (152) center to center.

SCREEN

5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

FINISH

Mill.

MINIMUM SIZE

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

APPROXIMATE SHIPPING WEIGHT

5 lbs. per sq. ft.

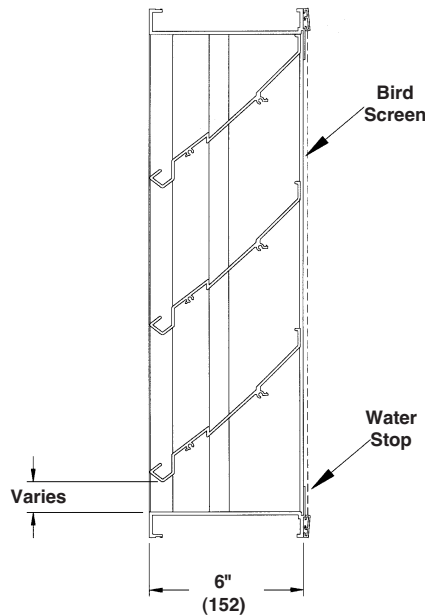
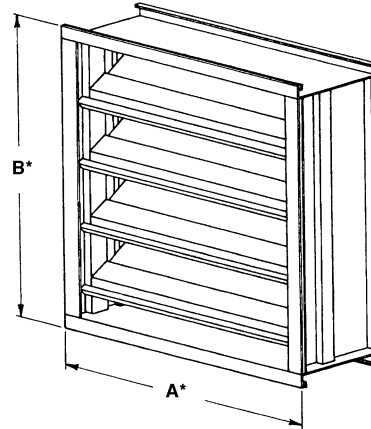
MAXIMUM FACTORY ASSEMBLY SIZE

Shall be 64 sq. ft. (6m²) per section, not to exceed 120" wide and 90" high (3048 and 2286) or 90" wide and 120" high (2286 and 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 windload.

Dimensions in inches, parenthesis () indicate millimeters.



FEATURES

- Published performance ratings based on testing in accordance with AMCA Publication 511.
- Double drain gutters in each blade, and downspouts in jambs and mullions to drain water from louver for minimum water cascade from blade to blade.
- Hidden mullions allowing continuous line appearance up to 120" (3048).
- All aluminum construction for low maintenance and high resistance to corrosion.
- Low pressure drop and low water penetration.

VARIATIONS

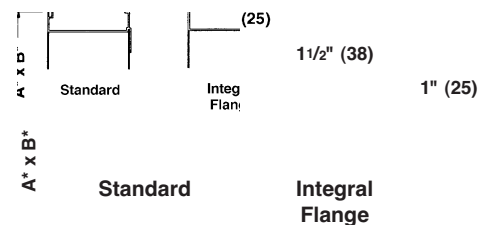
Variations to the basic design of this louver are available at additional cost. They include:

- Installation angles.
- Extended sill.
- Hinged frame.
- Front or rear security bars.
- Filter racks.
- A variety of bird and insect screens.
- Selection of finishes: Prime coat, 50%PDVF (modified fluoropolymer), Epoxy, Pearledize 50 and 70, 70% PVDF, Clear and Color Anodized finishes. (Some variation in anodize color consistency is possible).

Consult Ruskin for other special requirements.

*Units furnished 1/4" (6) smaller than given opening dimensions.

FRAME CONSTRUCTION



SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary double drainable type entirely contained within a 6" (152) frame. Louver shall include a drain gutter in each blade and downspouts in jambs and mullions. 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 over-all sizes required. Louver design shall limit span between visible mullions to 10 feet (3048) and 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 Ruskin Model ELF6811DD extruded 6063T6 aluminum construction as follows:

- Frame: .125" (3.2) wall thickness.
- Blades: .100" (2.5) wall thickness at 45° angle and spaced approximately 6" (152) center to center.
- Screen: 5/8" x .040" (16 x 1) expanded, flattened aluminum in removable frame.
- Finish: Select finish specification from Ruskin Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance & Water Penetration 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

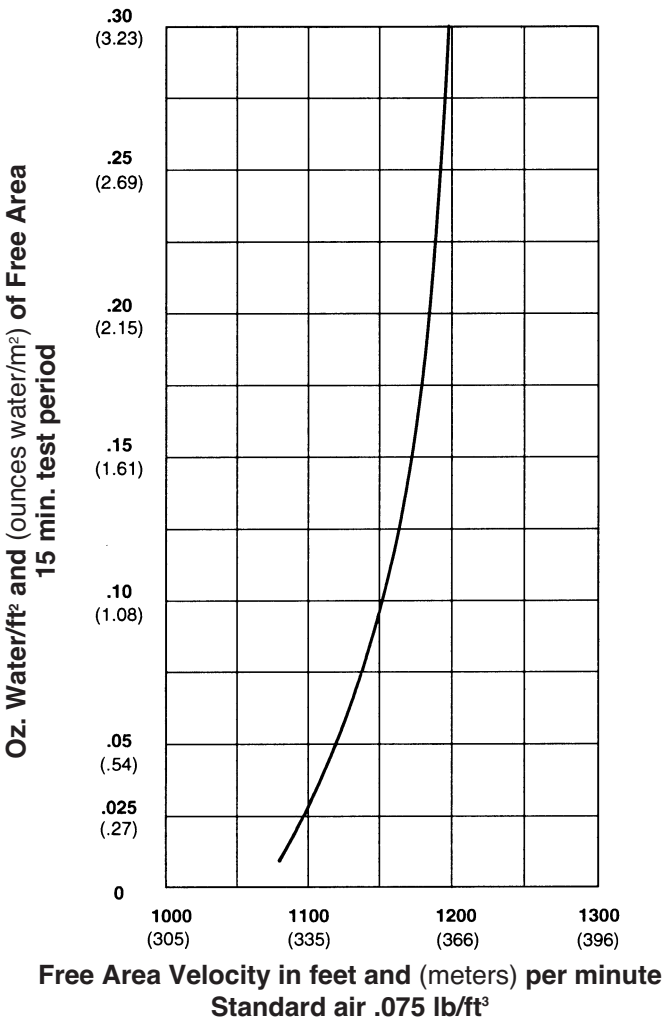
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500-L is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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 1080 fpm (329 m/min).



FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELF6811DD.

Width – Inches and Meters

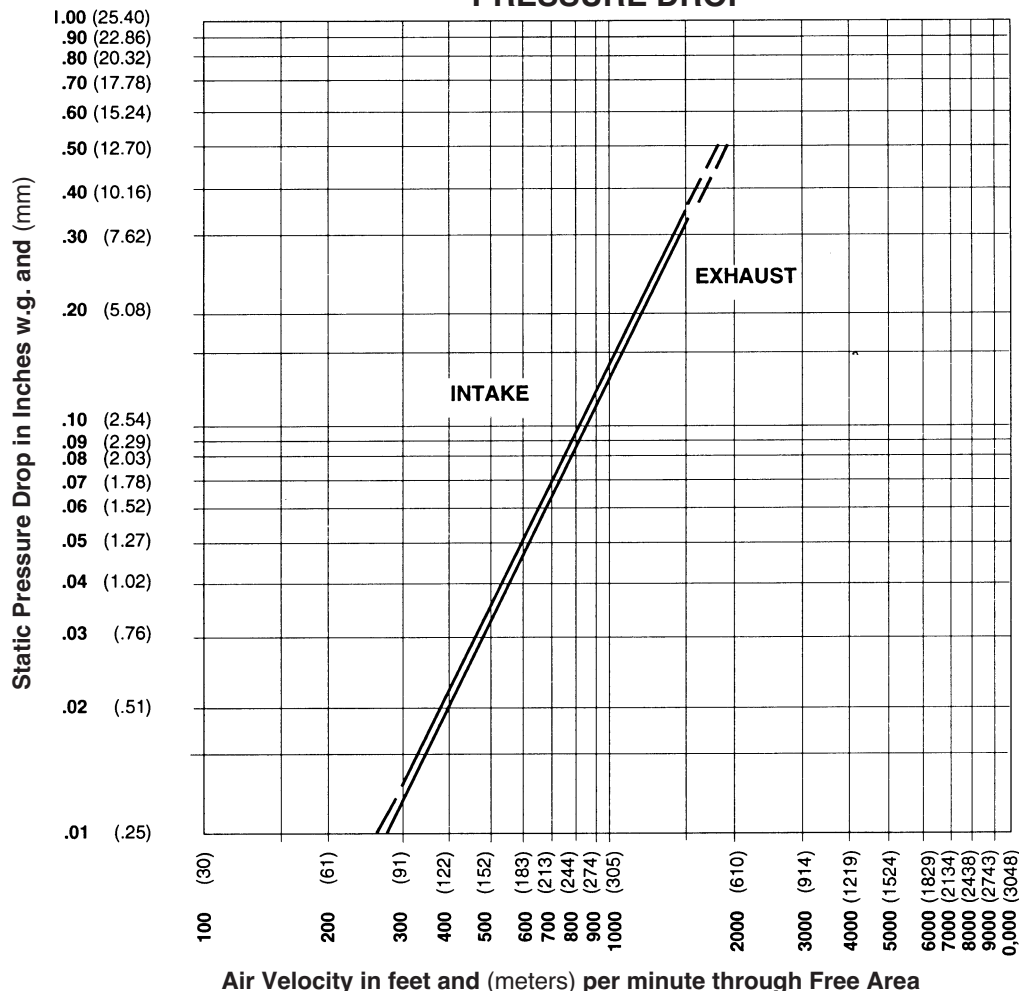
Height – Inches and Meters

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	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
0.30	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17
18	0.38	0.61	0.84	1.07	1.31	1.54	1.77	2.00	2.24	2.47	2.70	2.94	3.17	3.40	3.63	3.87	4.10	4.33	4.56
0.45	0.03	0.06	0.08	0.10	0.12	0.14	0.16	0.19	0.21	0.23	0.25	0.27	0.29	0.32	0.34	0.36	0.38	0.40	0.42
24	0.60	0.97	1.35	1.72	2.09	2.46	2.83	3.21	3.58	3.95	4.32	4.69	5.07	5.44	5.81	6.18	6.56	6.93	7.30
0.60	0.06	0.09	0.13	0.16	0.19	0.23	0.26	0.30	0.33	0.37	0.40	0.44	0.47	0.51	0.54	0.58	0.61	0.64	0.68
30	0.83	1.34	1.85	2.36	2.87	3.38	3.90	4.41	4.92	5.43	5.94	6.45	6.97	7.48	7.99	8.50	9.01	9.52	10.04
0.75	0.08	0.12	0.17	0.22	0.27	0.31	0.36	0.41	0.46	0.51	0.55	0.60	0.65	0.70	0.74	0.79	0.84	0.89	0.93
36	1.05	1.70	2.35	3.01	3.66	4.31	4.96	5.61	6.26	6.91	7.56	8.21	8.87	9.52	10.17	10.82	11.47	12.12	12.77
0.90	0.10	0.16	0.22	0.28	0.34	0.40	0.46	0.52	0.58	0.64	0.70	0.76	0.82	0.88	0.95	1.01	1.07	1.13	1.19
42	1.28	2.07	2.86	3.65	4.44	5.23	6.02	6.81	7.60	8.39	9.18	9.97	10.76	11.55	12.35	13.14	13.93	14.72	15.51
1.05	0.12	0.19	0.27	0.34	0.41	0.49	0.56	0.63	0.71	0.78	0.85	0.93	1.00	1.07	1.15	1.22	1.30	1.37	1.44
48	1.50	2.43	3.36	4.29	5.22	6.15	7.08	8.01	8.94	9.87	10.80	11.73	12.66	13.59	14.52	15.45	16.38	17.31	18.24
1.20	0.14	0.23	0.31	0.40	0.49	0.57	0.66	0.75	0.83	0.92	1.00	1.09	1.18	1.26	1.35	1.44	1.52	1.61	1.70
54	1.73	2.80	3.87	4.94	6.01	7.08	8.15	9.22	10.28	11.35	12.42	13.49	14.56	15.63	16.70	17.77	18.84	19.91	20.98
1.35	0.16	0.26	0.36	0.46	0.56	0.66	0.76	0.86	0.96	1.06	1.16	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95
60	1.95	3.16	4.37	5.58	6.79	8.00	9.21	10.42	11.63	12.83	14.04	15.25	16.46	17.67	18.88	20.09	21.30	22.51	23.71
1.50	0.18	0.29	0.41	0.52	0.63	0.74	0.86	0.97	1.08	1.19	1.31	1.42	1.53	1.64	1.76	1.87	1.98	2.09	2.21
66	2.18	3.53	4.88	6.23	7.57	8.92	10.27	11.62	12.97	14.32	15.66	17.01	18.36	19.71	21.06	22.41	23.75	25.10	26.45
1.65	0.20	0.33	0.45	0.58	0.70	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
72	2.39	3.87	5.34	6.82	8.30	9.77	11.25	12.73	14.20	15.68	17.16	18.64	20.11	21.59	23.07	24.54	26.02	27.50	28.98
1.80	0.22	0.36	0.50	0.63	0.77	0.91	1.05	1.18	1.32	1.46	1.60	1.73	1.87	2.01	2.15	2.28	2.42	2.56	2.69
78	2.61	4.23	5.85	7.46	9.08	10.70	12.31	13.93	15.55	17.16	18.78	20.40	22.01	23.63	25.24	26.86	28.48	30.09	31.71
1.95	0.24	0.39	0.54	0.69	0.84	0.99	1.15	1.30	1.45	1.60	1.75	1.90	2.05	2.20	2.35	2.50	2.65	2.80	2.95
84	2.84	4.59	6.35	8.11	9.86	11.62	13.37	15.13	16.89	18.64	20.40	22.15	23.91	25.67	27.42	29.18	30.93	32.69	34.45
2.10	0.26	0.43	0.59	0.75	0.92	1.08	1.24	1.41	1.57	1.73	1.90	2.06	2.22	2.39	2.55	2.71	2.88	3.04	3.20
90	3.06	4.96	6.86	8.75	10.65	12.54	14.44	16.33	18.23	20.12	22.02	23.91	25.81	27.71	29.60	31.50	33.39	35.29	37.18
2.25	0.28	0.46	0.64	0.81	0.99	1.17	1.34	1.52	1.70	1.87	2.05	2.22	2.40	2.58	2.75	2.93	3.11	3.28	3.46
96	3.29	5.32	7.36	9.39	11.43	13.46	15.50	17.53	19.57	21.60	23.64	25.67	27.71	29.74	31.78	33.81	35.85	37.88	39.92
2.40	0.31	0.50	0.68	0.87	1.06	1.25	1.44	1.63	1.82	2.01	2.20	2.39	2.58	2.77	2.96	3.14	3.33	3.52	3.71
102	3.52	5.69	7.86	10.04	12.21	14.39	16.56	18.74	20.91	23.08	25.26	27.43	29.61	31.78	33.96	36.13	38.31	40.48	42.65
2.55	0.33	0.53	0.73	0.93	1.14	1.34	1.54	1.74	1.94	2.15	2.35	2.55	2.75	2.96	3.16	3.36	3.56	3.76	3.97
108	3.74	6.05	8.37	10.68	13.00	15.31	17.62	19.94	22.25	24.57	26.88	29.19	31.51	33.82	36.14	38.45	40.76	43.08	45.39
2.70	0.35	0.56	0.78	0.99	1.21	1.42	1.64	1.85	2.07	2.28	2.50	2.71	2.93	3.15	3.36	3.58	3.79	4.01	4.22
114	3.97	6.42	8.87	11.33	13.78	16.23	18.69	21.14	23.59	26.05	28.50	30.95	33.41	35.86	38.31	40.77	43.22	45.67	48.13
2.85	0.37	0.60	0.83	1.05	1.28	1.51	1.74	1.97	2.19	2.42	2.65	2.88	3.11	3.33	3.56	3.79	4.02	4.25	4.48
120	4.19	6.78	9.38	11.97	14.56	17.16	19.75	22.34	24.93	27.53	30.12	32.71	35.31	37.90	40.49	43.08	45.68	48.27	50.86
3.00	0.39	0.63	0.87	1.11	1.35	1.60	1.84	2.08	2.32	2.56	2.80	3.04	3.28	3.52	3.77	4.01	4.25	4.49	4.73



Ruskin Manufacturing Company certifies that the ELF6811DD 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.

PRESSURE DROP



Ratings do not include the effect of a bird screen.



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