

ELF520DD

Stationary Louver Double Drainable Blade Extruded Aluminum



APPLICATION

The ELF520DD is a 5" deep double drainable stationary louver with sightproof chevron blades. These blades provide privacy, conceal equipment, prevent vandalism and act as a safety barrier to dangerous areas.

STANDARD CONSTRUCTION

Frame	5" (127) deep, 6063T6 extruded aluminum with .080" (2.1) nominal wall thickness. Downspouts and caulking slots provided.
Blades	6063T6 extruded aluminum with .063" (1.6) nominal wall thickness. Double drainable blades are sight-proof and spaced approximately 2" (51) center to center.
Screen	3/4" x .051" (19 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).
Maximum Factory Assembly Size	Shall not exceed 120" X 90" (3048 X 2286). Visible mullion must be added when louver exceeds 120" in width.
Supports	Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or windload.

Consult Ruskin for additional information.

FEATURES

- ▶ 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.
- ▶ All aluminum construction for low maintenance and high resistance to corrosion.
- ▶ Low pressure drop and low water penetration with high free area.

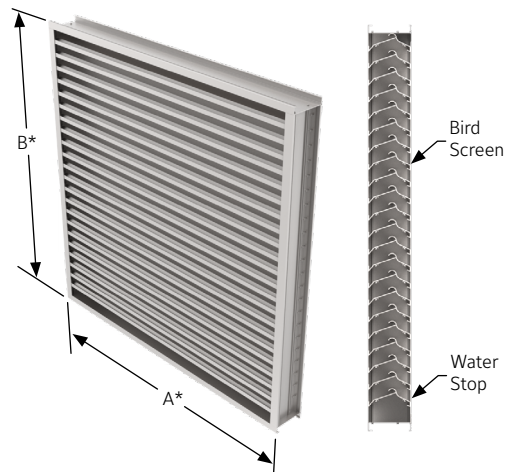
VARIATIONS

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.
- ▶ A variety of bird and insect screens.
- ▶ Optional finishes available at additional cost.

Please see [Paint Finishes and Color Guide](#) and [Finish Type Model Chart](#) for more details. Contact louversales@ruskin.com with questions

Consult Ruskin for other special requirements.



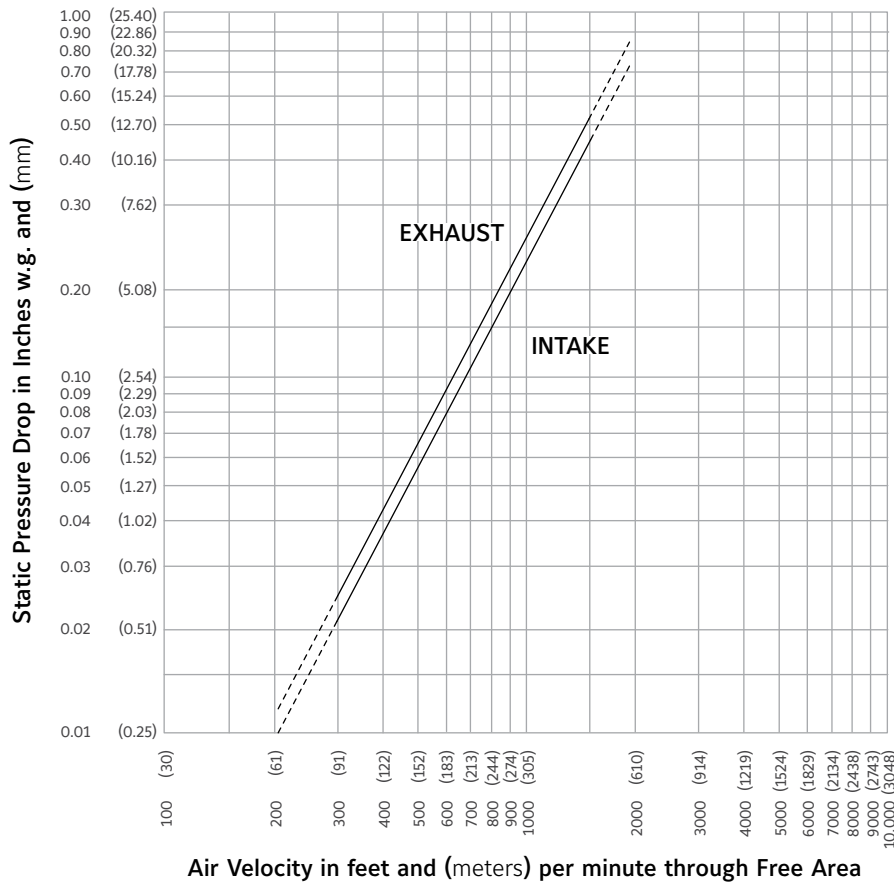
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELF520DD.

Width – Inches (Meters)

Height - Inches (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	0.30	0.02	0.04	0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.23	0.24	0.26	0.27	0.29
	18	0.45	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.37	0.40	0.43	0.45	0.48	0.51	0.54	0.57
	24	0.60	0.07	0.11	0.16	0.20	0.25	0.29	0.33	0.38	0.42	0.46	0.51	0.55	0.60	0.64	0.68	0.73	0.77	0.81	0.86
	30	0.75	0.09	0.15	0.21	0.27	0.33	0.39	0.44	0.50	0.56	0.62	0.68	0.73	0.79	0.85	0.91	0.97	1.03	1.08	1.14
	36	0.90	0.12	0.19	0.26	0.34	0.41	0.48	0.56	0.63	0.70	0.77	0.85	0.92	0.99	1.06	1.14	1.21	1.28	1.36	1.43
	42	1.05	0.14	0.23	0.32	0.40	0.49	0.58	0.67	0.75	0.84	0.93	1.02	1.10	1.19	1.28	1.36	1.45	1.54	1.63	1.71
	48	1.20	0.17	0.27	0.37	0.47	0.57	0.68	0.78	0.88	0.98	1.08	1.18	1.29	1.39	1.49	1.59	1.69	1.80	1.90	2.00
	54	1.35	0.19	0.31	0.42	0.54	0.65	0.77	0.89	1.00	1.12	1.24	1.35	1.47	1.59	1.70	1.82	1.94	2.05	2.17	2.29
	60	1.50	0.21	0.34	0.48	0.61	0.74	0.87	1.00	1.13	1.26	1.39	1.52	1.65	1.78	1.91	2.06	2.20	2.34	2.48	2.62
	66	1.65	0.24	0.38	0.53	0.67	0.82	0.96	1.11	1.26	1.40	1.55	1.69	1.84	1.98	2.13	2.27	2.42	2.56	2.71	2.86
	72	1.80	0.26	0.42	0.58	0.74	0.90	1.06	1.22	1.38	1.54	1.70	1.86	2.02	2.18	2.34	2.50	2.66	2.82	2.98	3.14
	78	1.95	0.28	0.46	0.63	0.81	0.98	1.16	1.33	1.51	1.68	1.86	2.03	2.21	2.38	2.55	2.73	2.90	3.08	3.25	3.43
	84	2.10	0.31	0.50	0.69	0.88	1.06	1.25	1.44	1.63	1.82	2.01	2.20	2.39	2.58	2.77	2.96	3.15	3.33	3.52	3.71
	90	2.25	0.33	0.53	0.74	0.94	1.15	1.35	1.55	1.76	1.96	2.17	2.37	2.57	2.78	2.98	3.18	3.39	3.59	3.80	4.00
	96	2.40	0.35	0.57	0.79	1.01	1.23	1.45	1.66	1.88	2.10	2.32	2.54	2.76	2.97	3.19					
	102	2.55	0.38	0.61	0.84	1.08	1.31	1.54	1.78	2.01	2.24	2.47	2.71	2.94	3.17	3.41					
	108	2.70	0.40	0.65	0.90	1.14	1.39	1.64	1.89	2.13	2.38	2.63	2.88	3.12	3.37	3.62					
	114	2.85	0.43	0.69	0.95	1.21	1.47	1.74	2.00	2.26	2.52	2.78	3.05	3.31	3.57	3.83					
120	3.00	0.45	0.73	1.00	1.28	1.56	1.83	2.11	2.39	2.66	2.94	3.22	3.49	3.77	4.04						

PRESSURE DROP



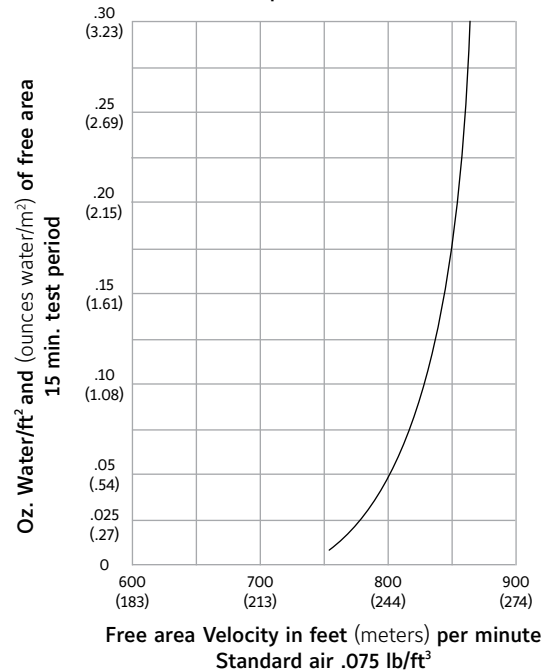
Ratings do not include the effect of a bird screen.

WATER PENETRATION GRAPH

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.

Designs should provide a reasonable safety factor for louver performance by selecting at some point below pressure drop or water penetration system requirements.

Water penetration
Test size 48" wide X 48" high (1219 X 1219)
Beginning point of water penetration at .01 oz. /sq. ft. is
756 fpm (230 m/min).



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 5" (127) frame. Louvers 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 overall sizes required. Louver design shall limit span between visible mullion to 10 feet and shall incorporate structural supports required to withstand a wind load of 30 lbs. per sq. ft. (1.44 kPa) (equivalent of a 110 mph wind [177 KPH] - specifier may substitute any loading required).

Louvers shall be Ruskin Model ELF520DD construction as follows:

Frame: .080" (2.1) wall thickness.

Blades: .063" (1.6) wall thickness sight-proof blades on approximately 2" (51) centers.

Screen: 3/4" x .051" (19 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.

LINKS TO IMPORTANT DOCUMENTS

Document Title
Paint Finishes and Color Guide
Limited Warranty Document



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