

ELF445DX AND ELF445DXH DRAINABLE STATIONARY LOUVERS EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

4" (102) deep, 6063T5 extruded aluminum. ELF445DX - .081" (2.1) nominal wall thickness. ELF445DXH - .125" (3.2) nominal wall thickness. Downspouts and caulking surfaces provided.

BLADES

6063T5 extruded aluminum. ELF445DX - .081" (2.1) nominal wall thickness. ELF445DXH - .125" (3.2) nominal wall thickness. Drainable blades are positioned at 45° angle and spaced approximately 4" (102) 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

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

APPROXIMATE SHIPPING WEIGHT

ELF445DX - 4 lbs./ft.² (19.5 kg/m²)

ELF445DXH - 6 lbs./ft.² (29.3 kg/m²)

MAXIMUM FACTORY ASSEMBLY SIZE

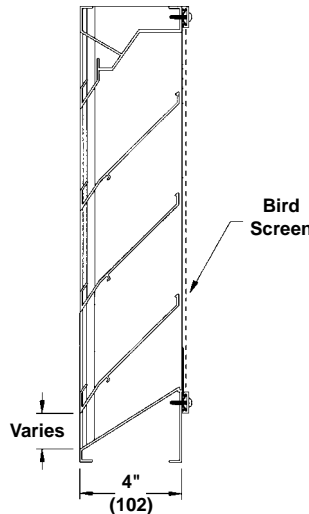
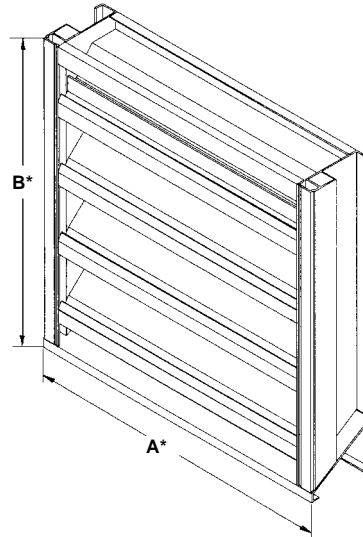
Shall be 75 sq. ft. (7m²) per section, not to exceed 120"w x 90"h (3048 x 2286) or 90"w x 120"h (2286 x 3048).

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 windload.

Consult Ruskin for additional information.



FEATURES

The ELF445DX and ELF445DXH offers:

- 52% Free Area.
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- High performance frame system with drainable head collects and removes water to provide excellent water penetration performance.
- Drain gutter in each blade minimizes water cascade between blades.
- Architecturally styled, hidden mullions allowing continuous line appearance up to 120" (3048).
- All aluminum construction for low maintenance and high resistance to corrosion.
- All welded construction.

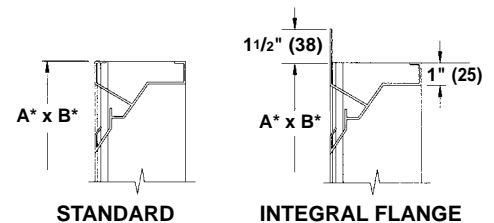
VARIATIONS

Variations to the basic design of the 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: prime coat, baked enamel (modified fluoropolymer), epoxy, Pearledize 50 & 70, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible.)

Consult Ruskin for other special requirements.

FRAME CONSTRUCTION



Dimensions in inches, parenthesis () indicate millimeters.

*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 drainable type with drain gutters in each blade and downspouts in jambs and mullions. Louvers shall have a minimum of 52% free area based on a 48" wide x 48" high (1219 x 1219) size. Stationary drainable blades shall be 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 limit span between visible mullions to 10 feet (3) and shall incorporate structural supports required to withstand a wind-load of 20 lbs. per sq. ft. (.96kPa) (equivalent of a 90 mph [145 KPH] wind – specifier may substitute any loading required).

Louvers shall be Ruskin Model ELF445DX or ELF445DXH extruded 6063T5 aluminum construction as follows:

- Frame: 4" (102) deep. ELF445DX - .081" (2.1) wall thickness. ELF445DXH - .125" (3.2) nominal wall thickness.
- Blades: ELF445DX - .081" (2.1) wall thickness. ELF445DXH - .125" (3.2) wall thickness. Drainable blades are positioned at 45° angle and spaced approximately 4" (102) center to center.
- Screen: 3/4" x .051" (19 x 1.3) 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

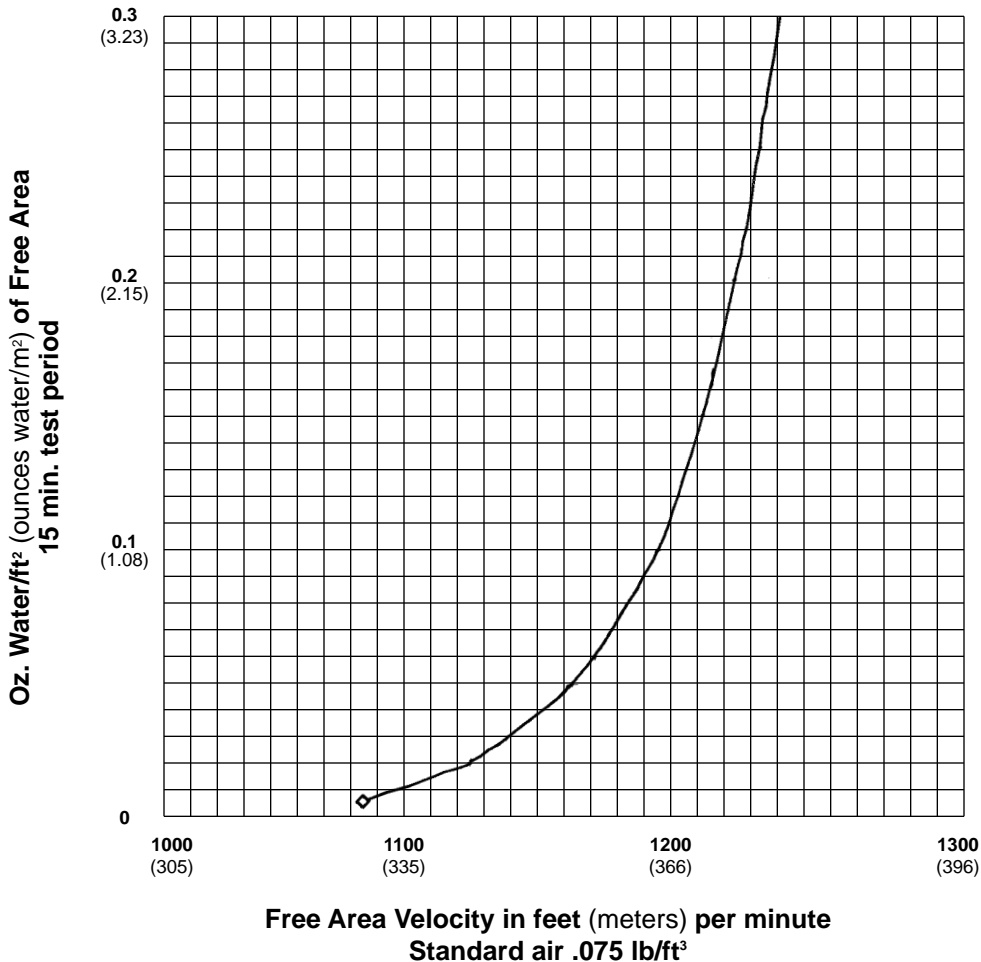
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

WATER PENETRATION

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

Beginning point of water penetration at .01 oz./sq. ft. is 1075 fpm (328 m/min).



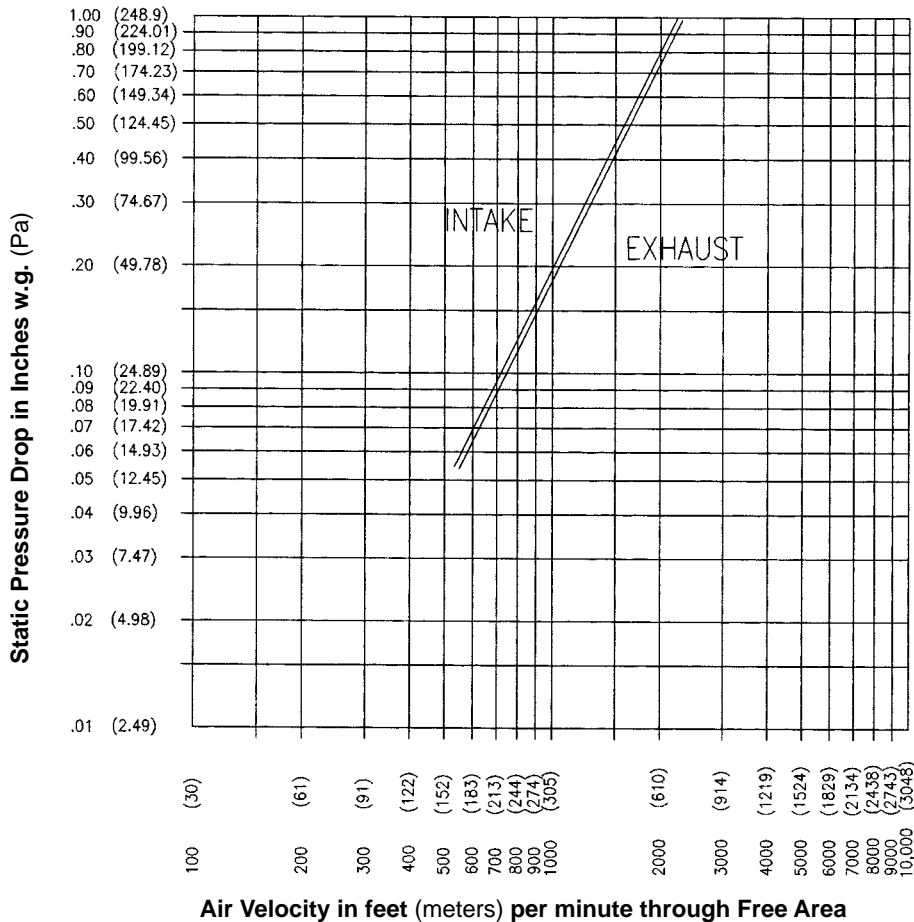
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ELF445DX and ELF445DXH.

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	
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74	2.90	3.05																			
12 0.30	0.33 0.03	0.63 0.05	0.73 0.07	0.93 0.09	1.14 0.11	1.34 0.12	1.64 0.14	1.74 0.16	1.94 0.18	2.08 0.19	2.28 0.21	2.48 0.23	2.68 0.25	2.88 0.27	3.09 0.29	3.29 0.31	3.49 0.32	3.69 0.34	3.89 0.36																			
18 0.46	0.66 0.05	0.88 0.08	1.22 0.11	1.66 0.14	1.89 0.18	2.23 0.21	2.66 0.24	2.90 0.27	3.23 0.30	3.46 0.32	3.79 0.35	4.13 0.38	4.47 0.42	4.80 0.45	5.14 0.48	5.47 0.51	5.81 0.54	6.15 0.57	6.48 0.60																			
24 0.61	0.81 0.08	1.31 0.12	1.81 0.17	2.31 0.21	2.81 0.26	3.30 0.31	3.80 0.35	4.30 0.40	4.80 0.45	5.13 0.48	5.63 0.52	6.13 0.57	6.63 0.62	7.13 0.66	7.63 0.71	8.12 0.76	8.62 0.80	9.12 0.85	9.62 0.89																			
30 0.76	1.03 0.10	1.66 0.15	2.29 0.21	2.93 0.27	3.56 0.33	4.19 0.39	4.83 0.45	5.46 0.51	6.09 0.57	6.51 0.61	7.15 0.66	7.78 0.72	8.41 0.78	9.04 0.84	9.68 0.90	10.31 0.96	10.94 1.02	11.58 1.08	12.21 1.14																			
36 0.91	1.29 0.12	2.09 0.19	2.88 0.27	3.68 0.34	4.47 0.42	5.27 0.49	6.07 0.56	6.86 0.64	7.66 0.71	8.19 0.76	8.98 0.84	9.78 0.91	10.57 0.98	11.37 1.06	12.17 1.13	12.96 1.21	13.76 1.28	14.55 1.35	15.35 1.43																			
42 1.07	1.51 0.14	2.44 0.23	3.37 0.31	4.30 0.40	5.23 0.49	6.16 0.57	7.09 0.66	8.02 0.75	8.96 0.83	9.57 0.89	10.50 0.98	11.43 1.06	12.36 1.15	13.29 1.24	14.22 1.32	15.15 1.41	16.08 1.50	17.01 1.58	17.94 1.67																			
48 1.22	1.78 0.17	2.87 0.27	3.96 0.37	5.05 0.47	6.14 0.57	7.24 0.67	8.34 0.78	9.42 0.88	10.51 0.98	11.24 1.05	12.34 1.15	13.43 1.25	14.52 1.35	15.61 1.45	16.70 1.55	17.80 1.66	18.89 1.76	19.98 1.86	21.07 1.96																			
54 1.37	1.99 0.19	3.22 0.30	4.45 0.41	5.67 0.53	6.90 0.64	8.13 0.76	9.35 0.87	10.58 0.98	11.81 1.10	12.62 1.17	13.85 1.29	15.08 1.40	16.30 1.52	17.53 1.63	18.76 1.74	19.98 1.86	21.21 1.97	22.44 2.09	23.66 2.20																			
60 1.52	2.26 0.21	3.65 0.34	5.04 0.47	6.43 0.60	7.81 0.73	9.20 0.86	10.59 0.99	11.98 1.11	13.37 1.24	14.30 1.33	15.69 1.46	17.08 1.59	18.47 1.72	19.86 1.85	21.24 1.98	22.63 2.10	24.02 2.23	25.41 2.36	26.80 2.49																			
66 1.68	2.48 0.23	4.00 0.37	5.52 0.51	7.05 0.66	8.57 0.80	10.09 0.94	11.62 1.08	13.14 1.22	14.66 1.36	15.68 1.46	17.20 1.60	18.73 1.74	20.25 1.88	21.77 2.02	23.30 2.17	24.82 2.31	26.34 2.45	27.87 2.59	29.39 2.73																			
72 1.83	2.74 0.25	4.43 0.41	6.11 0.57	7.80 0.73	9.48 0.88	11.17 1.04	12.86 1.20	14.54 1.35	16.23 1.51	17.35 1.61	19.04 1.77	20.73 1.93	22.41 2.08	24.10 2.24	25.78 2.40	27.47 2.55	29.16 2.71	30.84 2.87	32.53 3.03																			
78 1.98	2.96 0.28	4.78 0.44	6.60 0.61	8.42 0.78	10.24 0.95	12.06 1.12	13.88 1.29	15.70 1.46	17.52 1.63	18.73 1.74	20.55 1.91	22.37 2.08	24.20 2.25	26.02 2.42	27.84 2.59	29.66 2.76	31.48 2.93	33.30 3.10	35.12 3.27																			
84 2.13	3.22 0.30	5.21 0.48	7.19 0.67	9.17 0.85	11.16 1.04	13.14 1.22	15.12 1.41	17.10 1.59	19.09 1.78	20.41 1.90	22.39 2.08	24.37 2.27	26.36 2.45	28.34 2.64	30.32 2.82	32.31 3.00	34.29 3.19	36.27 3.37	38.26 3.56																			
90 2.29	3.44 0.32	5.56 0.52	7.67 0.71	9.79 0.91	11.91 1.11	14.03 1.30	16.14 1.50	18.26 1.70	20.38 1.90	21.79 2.03	23.91 2.22	26.02 2.42	28.14 2.62	30.26 2.81	32.38 3.01	34.49 3.21	36.61 3.40	38.73 3.60	40.84 3.80																			

PRESSURE DROP



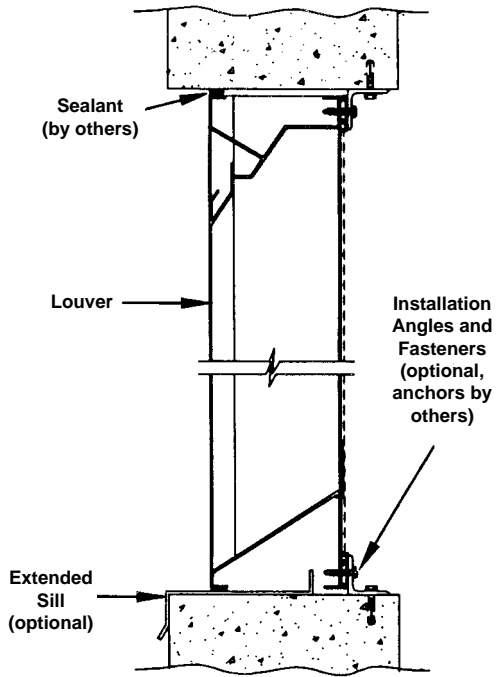
Ratings do not include the effect of a bird screen.



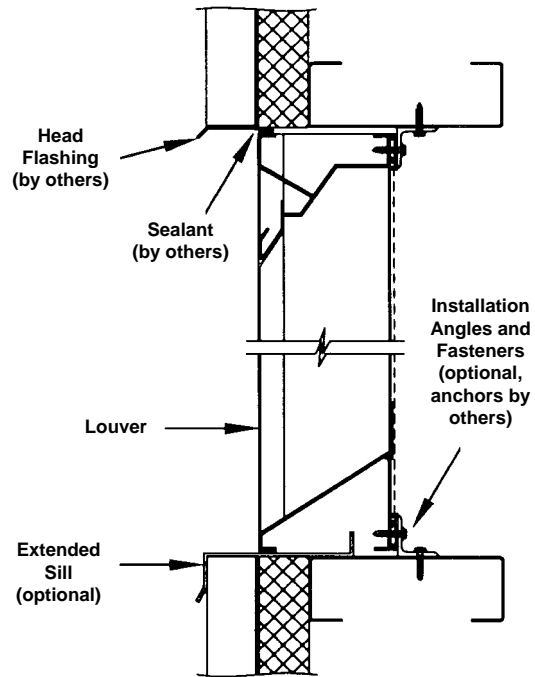
Ruskin Manufacturing Company certifies that the ELF445DX and ELF445DXH Louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings only.

TYPICAL INSTALLATION DETAILS

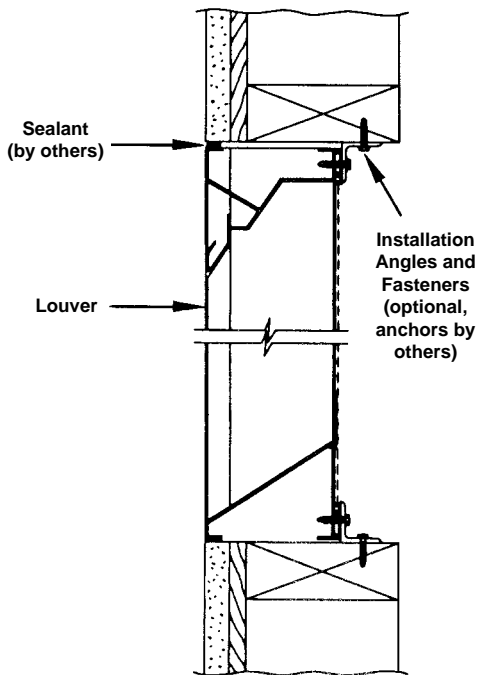
Masonry Wall



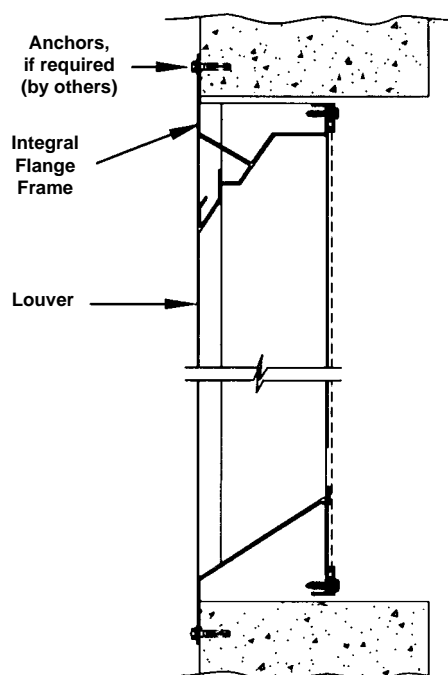
Metal Panel Wall



Wood Installation



Flange Mount



Optional items are available at additional cost. Anchors or other fasteners securing installation angles to substrate are by others.